Reset Form

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TCEQ INDUSTRIAL WASTEWATER PERMIT APPLICATION
INDUSTRIAL ADMINISTRATIVE REPORT

Submit this checklist with the application. Do not submit the instructions with the application. Indicate if the following are included in the application.

Applicant NRG Texas Power LLC

Permit Number WQ0001038000

WORKSHEET	Y	N	WORKSHEET	Y	N
Administrative Report 1.0	✔		Worksheet 7.0		✔
Administrative Report 1.1	✔		Worksheet 8.0		✔
SPIF	✔		Worksheet 9.0		✔
Technical Report 1.0	✔		Worksheet 10.0		✔
Worksheet 1.0	✔		Original USGS Map	✔	
Worksheet 2.0	✔		Affected Landowners Map	✔	
Worksheet 3.0		✔	Landowner Disk or Labels	✔	
Worksheet 3.1		✔	Copy of Application Fee Check	✔	
Worksheet 3.2		✔	All fees owed TCEQ are paid	✔	
Worksheet 3.3		✔	Flow Diagram	✔	
Worksheet 4.0	✔		Site Drawing	✔	
Worksheet 4.1		✔	Original Photographs	✔	
Worksheet 5.0	✔		Solids Management Plan	✔	
Worksheet 6.0		✔	Water Balance	✔	

Please indicate by a check mark the amount submitted for the application fee:

EPA Classification	New	Major Amend. (With or Without Renewal)	Renewal Only	Minor Amend. /Mod.
Minor facility not subject to categorical standards promulgated by the EPA (40 CFR Part 400-471)	_____$350	_____$350	_____$315	_____$150
Minor facility subject to categorical standards promulgated by the EPA (40 CFR Part 400-471)	_____$1,250	_____$1250	_____$1215	_____$150
Major facility	N/A *	✔ $2,050	_____$2,015	_____$450

* All facilities are designated as minors until formally classified as a major by EPA.

For Commission Use Only:
Segment Number:_____ County:_____Expiration Date:_____
Proposed/Current Permit Number: _____Region: _____

INDUSTRIAL ADMINISTRATIVE REPORT 1.0

The following is required for all applications--Renewal, New, And Amendment

Type of application:

- ☐ New TPDES
- ☑ Major amendment with Renewal
- ☐ Renewal of existing permit
- ☐ Minor amendment to permit
- ☐ New TLAP
- ☐ Major Amendment without Renewal
- ☐ Storm water only discharge
- ☐ Minor modification to permit

If applying for an amendment to a permit, please describe the request in detail.

See AR-2

1. APPLICANT INFORMATION (Instructions, Page 18)

a. Facility Owner (Owner of the facility must apply for the permit.)

What is the Legal Name of the entity (applicant) applying for this permit?

NRG Texas Power LLC

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.)

If the applicant is currently a customer with TCEQ, what is the Customer Number (CN)? Search for your CN at:
http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

CN 603207218

What is the name and title of the person signing the application?
(The person must be an executive official meeting signatory requirements in TAC 305.43(a).)

Prefix (Mr. Ms, Miss): Mr.

First/Last Name: Tim Gessner

Suffix:

Title: Vice President, Operations Credential:

What is the applicant's mailing address as recognized by the **US Postal Service**?
You may verify the address at: http://zip4.usps.com/zip4/welcome.jsp

Organization Name: NRG Texas Power LLC

Mailing Address: NRG Tower at the Pavilions, 1201 Fannin St.

Internal Routing (Mail Code, Etc.):

City: Houston State: TX ZIP Code: 77002

Mailing Information if outside USA

Territory: Country Code: Postal Code:

Phone No.: (713) 537-2140 Extension:

Fax No.: E-mail Address: tim.gessner@nrgenergy.com

Indicate the type of Customer:

- ☐ Individual
- ☐ Limited Partnership
- ☐ Trust
- ☐ Federal Government
- ☐ County Government
- ☐ Other Government
- ☐ Sole Proprietorship-D.B.A.
- ☑ Corporation
- ☐ Estate
- ☐ State Government
- ☐ City Government
- ☐ Other: _____

Independent entity

- ☑ Yes
- ☐ No *(If governmental entity, subsidiary, or part of a larger corporation)*

Number of Employees:

☐ 0-20; ☐ 21-100; ☐ 101-250; ☐ 251-500; or ☑ 501 or higher

Customer Business Tax and Filing Numbers
(Not applicable to individuals, governments, general partnerships or sole proprietors. ***REQUIRED*** *for corporations and limited partnerships***)**

State Franchise Tax ID Number: 320332
TX SOS Charter (filing) Number: 800836540
Federal Tax ID: 342019301
DUNS Number (if known): 168456049

b. Co-Permittee information (complete only if the operator must be a co-permittee)
What is the Legal Name of the entity (operator) applying for this permit?

Operator _____

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.)

If the operator is currently a customer with TCEQ, what is the Customer Number (CN)? Search for your CN at:
http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

CN_____

What is the name and title of the person signing the application?
(The person must be an executive official meeting signatory requirements in TAC 305.43(a).)
Prefix (Mr. Ms, Miss): _____
First/Last Name: _____
Suffix: _____
Title: _____ Credential: _____
What is the applicant's mailing address as recognized by the **US Postal Service**?
You may verify the address at: http://zip4.usps.com/zip4/welcome.jsp

Organization Name:_____

Mailing Address:_____

Internal Routing (Mail Code, Etc.):_____

City: Houston State:_____ ZIP Code:_____

Mailing Information if outside USA

Territory: _____ Country Code: _____ Postal Code: _____

Phone No.: _____ Extension:_____

Fax No.:_____ E-mail Address:_____

Indicate the type of Customer:

- ☐ Individual
- ☐ Limited Partnership
- ☐ Trust
- ☐ Federal Government
- ☐ County Government
- ☐ Other Government
- ☐ Sole Proprietorship-D.B.A.
- ☐ Corporation
- ☐ Estate
- ☐ State Government
- ☐ City Government
- ☐ Other: _____

Independent entity

- ☐ Yes
- ☐ No *(If governmental entity, subsidiary, or part of a larger corporation)*

Number of Employees:

☐ 0-20; ☐ 21-100; ☐ 101-250; ☐ 251-500; or ☐ 501 or higher

Customer Business Tax and Filing Numbers
(Not applicable to individuals, governments, general partnerships or sole proprietors. ***REQUIRED*** *for corporations and limited partnerships***)**

State Franchise Tax ID Number:_____

TX SOS Charter (filing) Number:_____

Federal Tax ID:_____

DUNS Number (if known):_____

Provide a brief description of the need for a co-permittee:

c. Individual information (*complete only if the facility owner or co-permittee is an individual*)

What is the Legal Name of the owner/co-permittee applying for this permit?

_____

If the owner/co-permittee is currently a customer with TCEQ, what is the Customer Number (CN)? Search for your CN at:
http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

CN_____

What is the name and title of the person signing the application?
(The person must be the individual. See signatory requirements in TAC 305.43(a).)
Prefix (Mr. Ms, Miss): _____
First/Last Name:_____
Suffix:_____
State Identification Number:_____
Date of Birth:_____
Assumed business or professional name:_____
Business name:_____

What is the applicant's mailing address as recognized by the **US Postal Service**?
You may verify the address at: http://zip4.usps.com/zip4/welcome.jsp

Mailing Address:_____
Internal Routing (Mail Code, Etc.):_____
City:_____State:_____ZIP Code:_____
Mailing Information if outside USA
Territory: _____Country Code: _____Postal Code: _____
Phone No.: _____Extension:_____
Fax No.:_____E-mail Address:_____

2. BILLING CONTACT (Instructions Page 21)

a. Billing Contact and Address Information

The permittee is responsible for paying the annual fee. The annual fee will be assessed to permits ***active on September 1 of each year.*** *TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed.*

Is the billing address the same as the permittee or co-permittee?

☑ Permittee ☐ Co-permittee ☐ No, fill out this section

Prefix (Mr. Ms, Miss): Mr.
First/Last Name: Carl Burch
Suffix:_____
Title: Environmental Specialist Credential:_____
Organization Name: NRG Texas Power LLC
Billing Mailing Address: PO Box 98

Internal Routing (Mail Code, Etc.):

City: Thompsons State: TX ZIP Code: 77481

Mailing Information if outside USA.

Territory: Country Code: Postal Code:

Phone No.: (281) 343-2343 Extension:

Fax No.: E-mail Address: carl.burch@nrgenergy.com

3. APPLICATION CONTACT INFORMATION (Instructions, Page 21)

If TCEQ needs additional information regarding this application, who should be contacted?

a. Application Contact

Prefix (Mr. Ms, Miss): Mr.

First/Last Name: Carl Burch

Suffix:

Title: Environmental Specialist Credential:

Organization Name: NRG Texas Power LLC

Mailing Address: PO Box 98

Internal Routing (Mail Code, Etc.):

City: Thompsons State: TX ZIP Code: 77481

Mailing Information if outside USA.

Territory: Country Code: Postal Code:

Phone No.: (281) 343-2343 Extension:

Fax No.: E-mail Address: carl.burch@nrgenergy.com

Check one or both: ☑ Administrative contact ☑ Technical Contact

b. Application Contact

Prefix (Mr. Ms, Miss): Mr.

First/Last Name: Ted Long

Suffix:

Title: Manager, Water Resources Credential:

Organization Name: NRG Texas Power LLC

Mailing Address: NRG Tower at the Pavilions, 1201 Fannin St.

Internal Routing (Mail Code, Etc.):

City: Houston State: TX ZIP Code: 77002

Mailing Information if outside USA.

Territory: Country Code: Postal Code:

Phone No.: (713) 537-2149 Extension:

Fax No.: E-mail Address: ted.long@nrgenergy.com

Check one or both: : ☑ Administrative contact ☑ Technical Contact

4. DMR CONTACT INFORMATION (Instructions Page 21)

Contact Responsible for Discharge Monitoring Reports (EPA 3320-1) Provide the name of the person and their complete mailing address delegated to receive and submit Discharge Monitoring Report Forms.

Prefix (Mr. Ms, Miss): Mr.
First/Last Name: Carl Burch
Suffix:
Title: Environmental Specialist Credential:
Organization Name: NRG Texas Power LLC
Mailing Address: P.O. Box 98
Internal Routing (Mail Code, Etc.):
City: Thompsons State: TX ZIP Code: 77481

Mailing Information if outside USA.

Territory: Country Code: Postal Code:
Phone No.: (281) 343-2343 Extension:
Fax No.: E-mail Address: carl.burch@nrgenergy.com



Did you know you can submit DMR data on line?
Go to Sign up now at:
https://www6.tceq.state.tx.us/steers/
Establish an electronic reporting account when you get your permit number.

5. PERMIT CONTACT INFORMATION (Instructions, Page 22)

Provide two names of individuals that can be contacted throughout the permit term.

Prefix (Mr. Ms, Miss): Mr.
First/Last Name: Tim Gessner
Suffix:
Title: Vice President, Operations Credential:
Organization Name: NRG Texas Power LLC
Mailing Address: NRG Tower at the Pavilions, 1201 Fannin St.
Internal Routing (Mail Code, Etc.):
City: Houston State: TX ZIP Code: 77002

Mailing Information if outside USA.

Territory: Country Code: Postal Code:
Phone No.: (713) 537-2040 Extension:
Fax No.: E-mail Address: tim.gessner@nrgenergy.com

Prefix (Mr. Ms, Miss): Mr.
First/Last Name: John Ragan
Suffix:
Title: President, Gulf Coast Credential:
Organization Name: NRG Texas Power LLC
Mailing Address: NRG Tower at the Pavilions, 1201 Fannin St.
Internal Routing (Mail Code, Etc.):
City: Houston State: TX ZIP Code: 77002
Mailing Information if outside USA.
Territory: Country Code: Postal Code:
Phone No.: (713) 537-2222 Extension:
Fax No.: E-mail Address: john.ragan@nrgenergy.com

6. NOTICE INFORMATION (Instructions, Page 22)

a. Individual publishing the notices

Prefix (Mr. Ms, Miss): Mr.
First/Last Name: Carl Burch
Suffix:
Title: Environmental Specialist Credential:
Organization Name: NRG Texas Power LLC
Mailing Address: P.O. Box 98
Internal Routing (Mail Code, Etc.):
City: Thompsons State: TX ZIP Code: 77481
Mailing Information if outside USA.
Territory: Country Code: Postal Code:
Phone No.: (281) 343-2343 Extension:
Fax No.: E-mail Address: carl.burch@nrgenergy.com

b. Method for receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package

Indicate by a check mark the preferred method for receiving the first notice and instructions:

- ☑ E-mail Address: carl.burch@nrgenergy.com
- ☐ Fax No.:
- ☐ Overnight/Priority mail: (self addressed, prepaid envelope required)
- ☐ Regular Mail:
  Mailing Address:
  Internal Routing (Mail Code, Etc.):
  City: State: ZIP Code:

c. Contact in the Notice

Prefix (Mr. Ms, Miss): Mr.
First/Last Name: Carl Burch
Suffix:
Title: Environmental Specialist Credential:
Organization Name: NRG Texas Power LLC
Phone No.: (281) 343-2343 Extension:

d. Public Place Information

If the facility and/or outfall are located in more than one county, a public viewing place for each county must be provided.

Public Building name: George Memorial Library
Location within the building:
Physical address of building: 1001 Golfview Dr.
City: Richmond County: Fort Bend
Contact Name: Myra Ponville
Phone No.: (281) 342-4455 Extension:

e. Bilingual Notice Requirements:

For new permit, major amendment and renewal applications. Not applicable for minor amendment or minor modification applications. Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice is required:

1. Is a bilingual education program required by the Texas Education Code at the nearest elementary or middle school to the facility or proposed facility?
☒ Yes ☐ No (If No, alternative language notice publication is not required; skip to item 7. SITE INFORMATION.)

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?
☑ Yes ☐ No

3. Do the students at these schools attend a bilingual education program at another location?
☑ Yes ☐ No

4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?
☐ Yes ☑ No

5. If the answer is yes to 1, 2, 3, or 4, public notice in an alternative language is required. Which language is required by the bilingual program?
Spanish

This section of the application is only used to determine if alternative language notice will be needed. Complete instructions on publishing the alternative language notice will be in your public notice package.

7. REGULATED ENTITY AND PERMITTED SITE INFORMATION (Instructions Page 23)

If the site of your business is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search TCEQ's Central Registry to see if the larger site may already be registered as a regulated site at:
http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=regent.RNSearch

If the site is found, provide the assigned Regulated Entity Reference Number and provide the information for the site to be authorized through this application below. The site information for this authorization may vary from the larger site information.

TCEQ issued RE Reference Number (RN): **RN** 105292197

a. State/TPDES Permit No.: WQ0001038000 Expiration date: July 1, 2014

EPA Identification No. (TPDES Permits only): TX 0006394

b. Name of project or site (the name known by the community where located):

W. A. Parish Steam Electric Generating Station

c. Is the facility located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or Williamson County? ☐ Yes ☑ No

(If Yes, additional information concerning protection of the Edwards Aquifer may be required.)

d. Is the location of the facility used in the existing permit correct? ☑ Yes ☐ No

e. Does the site have a physical address?

☑ If Yes, complete Section A for a physical address.

☐ If No (the location description is not accurate or this is a new permit application, complete), complete Section B for site location information.

Section A: Enter the physical address for the site.

Verify the address with USPS. If the address is not recognized as a delivery address, provide the address as identified for overnight mail delivery, 911 emergencies, or other online map tool to confirm an address.

Physical Address of Project or Site:

Street Number: 2500 Street Name: Y.U. Jones Road

City: Thompsons ZIP Code: 77481

Section B: Enter the site location information.

If no physical address (Street Number & Street Name), provide a written location access description to the site:

(Ex.: located 2 miles west from intersection of Hwy 290 & IH35 accessible on Hwy 290 South)

f. City where the site is located or, if not in a city, what is the nearest city:
Thompsons, TX; Approx. 3 miles NE

g. ZIP Code where the site is located: 77481

h. County where the site is located Fort Bend

i. Latitude: 29 28 50.88 N Longitude: 95 38 2.4 W

j. In your own words, briefly describe the primary business of the Regulated Entity: (*Do not repeat the SIC and NAICS code)*
Coal and gas powered electric generation

k. Owner of treatment facility: NRG Texas Power LLC

Ownership of Facility: ___ Public ✓ Private ___ Both _____Federal

l. Owner of land where treatment facility is/will be: NRG Texas Power LLC
(If not the same as the facility owner, there must be a long term lease agreement in effect for at least six years. In some cases, a lease may not suffice - see instructions.)

m. Owner of effluent disposal site: N/A
(If not the same as the facility owner, there must be a long term lease agreement in effect for at least six years.)

n. Owner of sewage sludge disposal site: N/A
(Required only if authorization is sought in the permit for sludge disposal on property owned/controlled by the applicant.)

8. DISCHARGE/ DISPOSAL INFORMATION (Instructions, Page 26)

a. Is the point of discharge and discharge route in the existing permit correct?
☑ Yes ☐ No If no, or a new or amendment permit application, please give an accurate description.

New outfall will discharge to the existing discharge canal

b. City or Town in which the outfall(s) is or will be located Thompsons

c. County the outfall(s) is located: Fort Bend

d. Outfall Latitude: 29° 28' 47.47" Longitude: 95° 38' 17.27"

e. For all applications involving an average daily discharge of 5 million gallons per day or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge. Fort Bend and Brazoria

f. If a TLAP, is the location of the effluent disposal site in the existing permit accurate?

☐ Yes ☐ No If no, or a new or amendment permit application, please give an accurate description.

N/A

g. City or Town in which the disposal site is or will be located N/A

h. County the disposal site is located: N/A

i. Disposal Site Latitude: N/A Longitude: N/A

j. If a TLAP, describe the routing of effluent from the treatment facility to the effluent disposal site:

N/A

k. For TLAP applications please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: N/A

l. Is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No If no, or a new permit application, please give an accurate description.

N/A

m. Provide an **original** full size USGS Topographic Map with all required information. Indicate by a check mark that the information is provided.

- ■ Applicant's property boundary
- ■ Treatment facility boundaries
- ■ Labeled point of discharge and highlighted discharge route
- ☐ Sewage sludge disposal site
- ☐ Effluent disposal site boundaries
- ■ New and future construction
- ■ 1 mile radius and 3 miles downstream information
- ☐ All ponds

n. Is/will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch? ☐ Yes ■ No

If Yes, indicate by a check mark if:

☐ Authorization granted ☐ Authorization pending

(For new and amendments, provide copies of letters that show proof of contact and the approval letter upon receipt.)

o. Is the facility located on or does the treated effluent cross American Indian Land?

☐ Yes ☒ No

9. MISCELLANEOUS INFORMATION (Instructions, Pages 29)

a. List each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:

N/A

b. Do you owe fees to the TCEQ? ☐ Yes ☒ No

If yes, please provide:

Account number:_____ Amount past due:_____

c. Do you owe any penalties to the TCEQ? ☐ Yes ☒ No

If yes, please provide:

Enforcement order number_____ Amount past due_____

10. SIGNATURE PAGE (Instructions, Page 30)

Permit Number: WQ0001038000

Applicant: NRG Texas Power LLC

Certification:

I, Tim Gessner (*Typed or printed name*) Vice President, Operations (*Title*)

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

I further certify that I am authorized under **30 Texas Administrative Code §305.44** to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signature:_____ (*Use blue ink*) Date:_____

Subscribed and Sworn to before me by the said_____

on this _____ day of _____,20_____.

My commission expires on the _____ day of _____,20_____.

_____ *[SEAL]*

Notary Public

_____

County, Texas

If co-permittees are necessary, each entity must submit an original, separate signature page.

INDUSTRIAL ADMINISTRATIVE REPORT 1.1

The following is required for new and amendment applications.

1. AFFECTED LANDOWNER INFORMATION (Instructions, Page 31)

a. Indicate by a check mark that the landowners map or drawing, with scale, includes the following, as applicable.

- ☒ The applicant's property boundaries
- ☒ The facility site boundaries within the applicant's property boundaries
- ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- ☒ The property boundaries of all landowners surrounding the applicant's property
- ☒ The point(s) of discharge and highlighted discharge route clearly shown for one mile downstream
- ☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay estuary, or affected by tides
- ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site), all evaporation/holding ponds within the applicant's property
- ☐ The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located

b. Indicate by a check mark in which format the landowners list is submitted:
☒ Read/Writeable CD or Disk ☐ 4 sets of labels

c. Indicate by a check mark that a separate list with the landowners' names and mailing address cross-referenced to the landowners map has been provided. ☒

d. Provide the source of the landowners' names and mailing addresses.
Contract Land Staff, LLC, Sugar Land, Texas

e. As required by Texas Water Code §5.115, is any permanent school fund land affected by this application? ☐ Yes ■ No

If yes, provide the location and foreseeable impacts and effects this application has on the land(s).

2. ORIGINAL PHOTOGRAPHS (Instructions, Page 33)

Provide original ground level photographs. Indicate by checking that the following information is provided.

☐ At least one original photograph of the new or expanded treatment unit location

■ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured.

☐ If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.

☐ At least one photograph of the existing/proposed effluent disposal site

■ A plot plan or map showing the location and direction of each photograph

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:
Application type: _____Renewal _____Major Amendment _____Minor Amendment _____New
County:_____ Segment Number_____Admin Complete Date:_____
Agency Receiving SPIF:
_____ Texas Historical Commission _____ U.S. Fish and Wildlife
_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 34)

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed and/or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

Do not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

1. Permittee: NRG Texas Power LLC
2. Permit No. WQ00 01038000 (EPA ID No.) TX 0006394
3. Address of the project (location description that includes street/highway, city/vicinity, & county)

   2500 Y.U. Jones Road, Thompsons, TX 77481, Fort Bend County
4. Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

   Name: Carl E Burch Company: NRG Texas Power LLC
   Phone number: (281) 343-2343 Fax number: (281) 343-2100
   Street No.: 2500 Street name: Y.U. Jones Street type: Rd
   P.O. Box: 98 City: Thompsons State: TX ZIP code: 77481
   Email: carl.burch@nrgenergy.com

5. List the county in which the facility is located: Fort Bend

6. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

   N/A

7. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the Segment Number.

   Smithers Lake/Dry Creek, thence from all to Rabbs Bayou, thence to Big Creek, thence to Brazos River below Navasota River Segment 1202 of the Brazos River

8. Please provide a separate 7.5 minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required **in addition to** the map in the administrative report).

9. Provide original photographs of any structures 50 years or older on the property.

10. Does your project involve any of the following? Check all that apply.
    - ☐ a. Proposed access roads, utility lines, construction easements
    - ☐ b. Visual effects that could damage or detract from a historic property's integrity
    - ☐ c. Vibration effects during construction or as a result of project design
    - ☐ d. Additional phases of development that are planned for the future
    - ☐ e. Sealing caves, fractures, sinkholes, other karst features
    - ☒ f. Disturbance of vegetation or wetlands

11. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features).

12. Describe existing disturbances, vegetation and land use.

    The facility is a steam electric generating station that encompasses approximately 4,900 acres, with the main generating station located on approx. 250 acres. Coal combustion by-products are landfilled in a Class II landfill located on-site.

THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

13. List construction dates of all buildings and structures on the property.

    Construction of the 8 electrical generating units occurred from 1957-1982. Additions since 1982 include baghouses on Units 5,6 and 7, addition of Selective Catalytic Reduction system, and addition of carbon capture system.

14. Provide a brief history of the property, and name of the architect/builder, if known.

    Construction of electrical generating units began in 1957 with the start of construction for Unit 1. Construction has been ongoing since that time with 7 additional units. Unit 8 was completed in 1982. Since 1982 there have been construction projects such as the addition of baghouses on Units 5, 6, and 7 and the addition of Selective Catalytic Reduction system, and now the addition of a carbon capture system.

TECHNICAL REPORT 1.0
INDUSTRIAL

THE FOLLOWING IS REQUIRED FOR ALL APPLICATIONS
RENEWAL, NEW, AND AMENDMENT

Reset Form

1. FACILITY/SITE INFORMATION (Instructions, page 35)

a. Describe the type of activity and general nature of your business.

The W.A. Parish Electric Generating Station consist of four gas fired units, four coal fire units and one gas turbine unit, utilized to produce electricity. Natural Gas is utilized as fuel for the four gas fired units and the one gas turbine unit. Powder River Basin Coal is utilized as fuel for the four coal fired units.

b. SIC Code(s) 4911 , _____ , _____ , _____

NAICS Code(s) _____ , _____ , _____ , _____

c. Describe the wastewater generating processes.

The W.A. Parish Electric Generating Station generated wastewater includes; once through cooling water, cooling tower blowdown, boiler blowdown, ash transport water, sanitary sewage treatment, chemical metal cleaning, air pollution control blowdown, storm water, and miscellaneous low volume wastewater from sources such as plant floor drains, chemical storage area drains, laboratory and sampling drains, recirculated service water, and washdown water.

All flow volumes and frequencies cited herein are estimated based on historical data, contact with knowledgeable plant staff, and/or projections of potential future discharges. They are subject to substantial variation dependent upon generating unit operating conditions, weather/rainfall, and other factors that are largely outside the facility's control.

d. Provide a list of raw materials, major intermediates, and products handled at your facility.

Raw Materials	Intermediate Products	Final Products
1. Powder River Basin Coal	Steam	Electricity
2. Natural Gas	Steam	Electricity

e. Indicate by a check mark that an attached facility map with the following information was provided with the application:

☑ Production areas, maintenance areas, materials handling areas, and waste disposal areas.

☑ The location of each unit of the wastewater treatment plant including the location of wastewater collection sumps and impoundments.

Attachment #: TR-1e

f. Is this a new permit application for an existing facility? ☐ Yes ☑ No

If yes, provide background discussion below.

g. Is the treatment facility/disposal site located above the 100-year frequency flood level?

☑ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain:

Flood Insurance Rate Map No. 48157CO425J & 48157CO400J, Fort Bend County

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are in use or planned to be used to prevent flooding of the treatment facility/disposal area.

h. For **new or amendment** permit applications, will there be discharge of fill material into a water in the state for construction of the proposed outfall structure? ☐ Yes ☑ No

If **no,** proceed to Item No. 2. If **yes**, has the applicant applied for a U.S. Corps of Engineers 404 Dredge and Fill permit? ☐ Yes ☐ No

If **yes**, provide the permit number: _____

If **no**, provide the approximate date you anticipate submitting your application to the Corps._____

2. TREATMENT SYSTEM (Instructions, page 36)

a. List any physical, chemical, an/or biological treatment process that you use for the treatment of wastewater at your facility. Include a description of each treatment process starting with initial treatment and finishing with the discharge point.

See Appendix TR-2a

b. ☑ Indicate by a check mark that an attached flow schematic with a water balance was provided with the applications showing each treatment unit and all sources of wastewater flow into the treatment plant and to each outfall/point of disposal.

Attachment #: TR-2b

3. IMPOUNDMENTS (Instructions, pages 36)

Do you use or plan to use any wastewater lagoons, ponds, or impoundments

☑ Yes ☐ No

If **yes**, complete item **3(a)** for **existing** impoundments and items **3(a)-3(f)** for **new or proposed** impoundments. If **no**, proceed to Item No. 4.

a. Provide the following information in the table provided:

Designation: Indicate the appropriate use designation for each pond [Treatment **(T)**, Disposal **(D)**, Containment **(C)**, or Evaporation **(E)**]

Discharge Point: If a discharge occurs from the impoundments, designate the outfall associated with the impoundment.

Liner Information: If the impoundments are lined to comply with specifications outlined for **1) a compacted clay liner (C), 2) an in-situ clay liner (I), or 3) a synthetic/plastic/rubber liner (S)**, indicate the liner type with the appropriate letter designation **(see instructions for further detail on liner specifications)**. If not, provide a reference to the attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

Dimensions: Provide the dimensions(s), freeboard, surface area, and storage volume capacity of the impoundments. For impoundments with irregular shapes, submit surface area (instead of length and width), the average depth, and the maximum depth below natural ground level.

Impoundment Information Table

	Pond # 1	Pond # 2	Pond # 3	Pond # 4	Pond # 5
Designation	Smithers Lake	Coal Pile Runoff	Air Preheater	FGD Pond	Cell 2A Pond
(T) (D) (C) or (E)	T	T & C	T & C	T & C	C
Discharge Point					
Outfall Number	001	002	002	703	004
Liner Information					
Liner Type (C) (I) or (S)	None	C	I	C	C
Alt. Liner Attachment Reference	N/A	N/A	N/A	N/A	N/A
Dimensions					
Length (feet)	N/A ft	N/A ft	N/A ft	N/A ft	1250 ft
Width (feet)	N/A ft	N/A ft	N/A ft	N/A ft	ft
Depth from Water Surface	6.7 ft	1 ft	2 ft	4.7 ft	3.5 ft
Depth from Nat. Ground Level	6.7 avg ___max	1 avg ___max	2 avg ___max	4.7 avg ___max	2 avg ___max
Freeboard (feet)	4 ft	2 ft	1 ft	2 ft	2 ft
Surface Area (acres)	2,430 acres	24.4 acres	1.2 acres	0.5 acres	6.1 acres
Storage Capacity (gallons)	> 5 billion gal	35.8 million gal	1.2 million gal	647,022 gal	6.8 million gal

	Pond # 6	Pond # 7	Pond # _____	Pond # ____	Pond # ____
Designation	Cell 1B Pond	Cell 3 Pond			
(T) (D) (C) or (E)	C	C			
Discharge Point					
Outfall Number	004	004			
Liner Information					
Liner Type (C) (I) or (S)	C	C			
Alt. Liner Attachment Reference	N/A	N/A			
Dimensions					
Length (feet)	200 ft	1200 ft	ft	ft	ft
Width (feet)	450 ft	215 ft	ft	ft	ft
Depth from Water Surface	3.3 ft	2.5 ft	ft	ft	ft
Depth from Nat. Ground Level (avg/max) (feet)	___/___	___/___	___/___	___/___	___/___
Freeboard (feet)	2 ft	2 ft	ft	ft	ft
Surface Area (acres)	2.1 acres	5.9 acres	_____ acres	_____ acres	_____ acres
Storage Capacity (gallons)	2.2 million gal	4.8 million gal	_____ gal	_____ gal	_____ gal

THE FO LLOWING I TEMS A RE R EQUIRED O NLY FO R N EW O R PR OPOSED IMPOUNDMENTS.

b. Indicate by a check mark if any of the following data was provided with the application:

☐ Synthetic/plastic/rubber liner data

☐ In-situ clay liner data

Attachment #:_____

c. Are there any leak detection systems or ground water monitoring wells in place or planned? ☐ Yes ☐ No

☐ If **yes**, indicate by a check mark that a separate attachment was provided with the leak detection system information for each pond and/or gr ound water monitoring well data.

Attachment #:_____

d. Is t he b ottom of the p ond a bove t he s easonal h igh w ater t able in t he shallowest water bearing zone?

☐ Yes ☐ No

☐ If **no**, i ndicate by a check m ark that additional information was provided describing the depth of the seasonal high water table in the shallowest water bearing zone in relation to the depth of the bottom of the new or proposed impoundment and how this may or may not impact groundwater.

e. Indicate by a check mark that the following information was provided:

☐ A USGS quadrangle map or a color copy of original quality and scale which accurately locates and identifies water supply wells and/or monitor wells within ½ mile radius of the impoundments.

☐ Copies of State Water Well Reports (driller's logs, completion data), and data on depths to g round w ater fo r water supply w ells in cluding a d escription o f h ow t he d epths t o ground water were obtained.

For TLAP permit applications:

☐ Indicate by a check mark t hat t he new or proposed impoundment(s) and the land application disposal area are located in the same general area and the information for this item is provided in Worksheet 3.0 (item 8).

f. ☐ Indicate by a check m ark id any data w as p rovided w ith t he ap plication p ertaining t o the ground water, soils, geology, etc. used to assess the potential for migration of wastes from the impoundments and/or the potential for contamination of ground water or surface water.

4. OUTFALL/DISPOSAL METHOD INFORMATION (Instructions, pages 39)

Complete the following tables to describe the location and wastewater discharge or disposal operations f or each outfall for discharge operations and for each point of disposal f or TLAP operations.

For TLAP permit applications: Indicate the disposal method and each individual **irrigation** area **(I)**, **evaporation pond (E)**, or **subsurface drainage system (S)** by providing the appropriate letter designation f or the disposal method f ollowed by a numerical designation f or each disposal area (e.g. evaporation pond, application area) in the space p rovided f or " Outfall" designation (e.g. "E1" for evaporation pond 1 , "I2" for irrigation area No. 2, etc.).

OUTFALL: 001

Latitude			Longitude			Location Description
29	29	15	95	37	30	Spillway for Smithers Lake discharge
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
37.0	N/A		N/A	N/A		24 (hrs./day) _____ (days/mo.) 12 (mo./year)
☐ **Pumped** ☑ **Gravity**			**Measurement Device:** Parshall Flume w/ totalizer			☐ **Intermittent** ☐ **Seasonal** ☐ **Continuous**

Contributing Wastestreams:	**Volume (MGD)**	**% of Total Flow**
Lake Blowdown*	2.7173**	100
Stormwater	Variable	Variable
*Includes previously monitored effluents from Outfalls:		
003, 004, 005 and 006		
**two year average 9/1/10-8/31/12		

OUTFALL: 002

Latitude			Longitude			Location Description
29	28	15	95	38	00	Weir where coal pile runoff pond can discharge into an unnamed tributary of Rabbs Bayou
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		N/A	N/A		_____ (hrs./day) _____ (days/mo.) Variable (mo./year)
☐ **Pumped** ☑ **Gravity**			**Measurement Device:** Est-Instantaneous Weir			☑ **Intermittent** ☐ **Seasonal** ☐ **Continuous**

Contributing Wastestreams:	**Volume (MGD)**	**% of Total Flow**
Stormwater from coal storage areas	**	90
Metal Cleaning Waste	**	<2
Low Volume Wastewater	**	<8
Stormwater from non-coal handling areas	**	Variable
** No discharge in over seven years, water routed through Outfall 503		

OUTFALL: 003

Latitude			Longitude			Location Description
29	28	45	95	38	30	Where discharge canal enters Smithers Lake
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
2121	N/A		N/A	N/A		24 (hrs./day) _____ (days/mo.) 12 (mo./year)
☑ **Pumped** ☐ **Gravity**			**Measurement Device:** Est - Pump Run Time			____**Intermittent** ____**Seasonal** ☑ **Continuous**

Contributing Wastestreams:	**Volume (MGD)**	**% of Total Flow**
Condenser Cooling Water	1325.6677*	99
Previously Monitored Effluents (Outfalls: 103, 203, 303,		
403, 503, 603, 703, 803, 903, 113 & 123)	13.875	1
*two year average 9/1/10-8/31/12		

OUTFALL: 004

Latitude			Longitude			Location Description
29	29	45	95	38	00	Where discharge pipe empties into Smithers Lake
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
1.296	2.6		N/A	N/A		_____ (hrs./day) _____ (days/mo.) Variable (mo./year)
☑ **Pumped** ☐ **Gravity**			**Measurement Device:** Est - Pump Run Time			☑ **Intermittent** ____**Seasonal** ____**Continuous**

Contributing Wastestreams:	**Volume (MGD)**	**% of Total Flow**
Stormwater Runoff from Ash Disposal Area	0.8611*	100
*two year average 9/1/10-8/31/12		

5. BLOWDOWN AND ONCE-THROUGH COOLING WATER DISCHARGES (Instructions, page 40)

a. Does your facility use any cooling towers or boilers that discharge blowdown or other wastestreams to the outfall(s)? ✓ Yes ____ No

b. Does your facility discharge once-through cooling water to the outfall(s)? ✓ Yes No

c. If **yes** to either item **a** or **b**, indicate with a check mark that the appropriate MSDS with the following information for each chemical additive was submitted with the application.

- ☑ Manufacturers Product Identification Number.
- ☑ Product use. (e.g., biocide, fungicide, corrosion inhibitor, etc.)
- ☑ Chemical Composition including Chemical Abstracts System (CAS) number for each ingredient.
- ☑ Classify product as non-persistent, persistent, or bioaccumulative.
- ☑ Product or active ingredient half-life.
- ☑ Frequency of product use (e.g., 2 hr/day once every two weeks).
- ☑ Product toxicity data specific to fish and aquatic invertebrate organisms.
  - ☑ Concentration of whole product in wastestream (if above item is for whole product)
  - ☑ Concentration of active ingredient in wastestream (if above item is for active ingredient)

Please provide a summary of this information in addition to the submittal of the MSDS for each specific wastestream and the associated chemical additives and specify which outfalls are affected.

Attachment: See Appendix TR-5c

d. Cooling Towers and Boilers

	Number of Units	Daily Avg. Blowdown	Daily Max Blowdown
Cooling Towers	*8 cooling towers	Daily Avg: 8.8 million gallons/day	Daily Max: 19 million gallons/day
Boilers	8 boilers	Daily Avg: 90,500 gallons/day	Daily Max: 180,000 gallons/day

N/A

6. STORM WATER MANAGEMENT (Instructions, page 41)

Are there any existing or proposed outfalls which discharge storm water runoff commingled with other wastestreams?

☑ Yes ☐ No. If **yes,** provide the following information. If **no**, proceed to Item No. 7.

a. Provide a brief narrative description of the industrial processes and activities that occur outdoors or in some manner that may result in exposure of the materials to precipitation or runoff in areas where runoff is generated.

All storm water drainage from the production areas is discharged through permitted outfalls. all storm water drainage from non-production areas within the immediate facility area is discharged under the TPDES multi-sector general permit. A large portion of the site drainage is from undeveloped areas, which do not contain any industrial activity. For production areas, storm water runoff is collected and routed to one of the facilities treatment systems. Tanks of acid and caustic are located within secondary containment or curbed areas for spill/leak control. Outdoor storage of equipment is limited to items which will not significantly affect storm water quality. The storm water collection and conveyance system consists of catch basins connected by underground piping and surface ditches and swales. All possible storm water contamination sources and best management practices for storm water runoff is addressed in the facility's Industrial Storm Water Pollution Prevention Plan.

7. DOMESTIC SEWAGE, SEWAGE SLUDGE, AND/OR SEPTAGE MANAGEMENT AND DISPOSAL (Instructions, page 41)

a. Please check the appropriate method(s) of domestic sewage and domestic sewage sludge treatment/disposal and complete Attachment F if directed.

☐ Domestic sewage is not generated on-site. **PROCEED TO ITEM NO. 8.**

☐ Both domestic and industrial treatment sludge **ARE commingled** prior to use or disposal. **PROCEED TO ITEM NO. 8.**

☑ Industrial wastewater and domestic sewage are treated separately and the respective sludge **IS NOT commingled** prior to sludge use or disposal **COMPLETE WORKSHEET 5.0 OF THIS APPLICATION.**

☐ If your facility is a POTW, **COMPLETE WORKSHEET 5.0 OF THIS APPLICATION.**

☐ Facility is connected to a wastewater treatment plant permitted to receive domestic sewage, or the domestic sewage is transported off-site to a permitted facility for treatment and/or disposal. **COMPLETE ITEM NO. 7.B.**

☐ Domestic sewage is disposed of by an on-site septic tank. **COMPLETE ITEM 7.B.**

☐ Other: Please provide a detailed description below.

b. Provide the name and TCEQ, NPDES, and/or TPDES Permit No. of the waste disposal facility which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.

Plant/Hauler Name	Permit/Registration No.
Disposal Facility - Coastal Plains Alvin, TX	H1721
Hauler - Specialized Waste Systems, Inc.	40514

8. IMPROVEMENTS OR COMPLIANCE/ENFORCEMENT REQUIREMENTS (Instructions, page 42)

Is the permittee currently required to meet any implementation schedule for compliance or enforcement? ☐ Yes ☑ No

If **yes**, provide a brief summary of the requirements and a status update.

9. TOXICITY TESTING (Instructions, page 42)

Have any biological tests for acute or chronic toxicity been made on any of your discharges or on a receiving water in relation to your discharge within the last three (3) years?

☑ Yes ☐ No

If **yes**, identify the tests and describe their purposes below. Please attach a copy of all tests performed that have not been previously sent to the TCEQ and/or EPA.

The TPDES required biological tests are:
1. Chronic Toxicity Test with Ceriodaphnia dubia (survival and reproduction) and Pimephales promelas (survival and growth).
2. 24-Hour Acute Toxicity Test with Dalphnia pulex (toxicity) and Pimephales promelas (toxicity).

10. OFF-SITE/THIRD PARTY WASTES (Instructions, page 42)

Do you receive wastes from off-site sources for treatment in your facility, disposal on-site via land application, and/or discharge via a permitted outfall ☐ Yes ☑ No

If **no**, proceed to Item No. 11. If **yes**, proceed as directed.

a. Indicate with a check mark that a detailed attachment with the following information was provided with the application:

☐ List of wastes received
☐ Characterization of wastes received
☐ Volumes of each waste received
☐ Info. on compatibility with on-site wastes
☐ Identified sources of wastes received
☐ Name and addresses of generators
☐ Description of the relationship of waste source(s) with your facility's activities.

Attachment: _____

b. Is wastewater from a TCEQ, NPDES, and/or TPDES permitted facility commingled with your wastewater after your final treatment and prior to discharge via your final outfall/point of disposal? ☐ Yes ☐ No

If **yes**, provide the name, address, and TCEQ, NPDES, and/or TPDES permit number of the contributing facility and a copy of any agreements and/or contracts relating to this activity.

c. Is your facility a Publicly Owned Treatment Works (POTW) that accepts process wastewater from any Significant Industrial User (SIU) and has or is required to have an approved pretreatment program under the NPDES/TPDES program? ☐ Yes ☐ No

If **yes**, complete **Worksheet 6.0** of this application.

11. RADIOACTIVE MATERIALS (Instructions, page 43)

Are radioactive materials mined, used, stored, or processed at this facility? ☐ Yes ☑ No

If **yes,** Provide a list of the materials and the results of one analysis of your effluent in picocuries per liter (pCi/L) for all radioactive parameters which may be present.

Radioactive Materials	Conc. (pCi/L)

THE FOLLOWING ITEMS ARE ONLY REQUIRED FOR EXISTING PERMITTED FACILITIES.

12. MAJOR AMENDMENT REQUESTS (Instructions, pages 43)

Are you requesting a major amendment of an existing permit? ☑ Yes ☐ No

If **yes**, list each specific request and provide discussion on the scope of any requested permit changes.

Addition of Outfall 123, related to demonstration carbon capture project. Outfall is for blowdown from new cooling towers. Outfall is an internal outfall discharging through Outfall 003. Includes increase in average discharge of 1.4 MGD, and maximum discharge of 2.0 MGD.

Also includes a requested increase of 0.6 MGD average daily flow and 1.0 MGD maximum daily flow to Outfall 703 for increased flow from the carbon capture system.

See appendix AR-2 for additional details.

If necessary, provide supplemental information or additional data that will support the request.

13. MINOR MODIFICATION REQUESTS (Instructions, page 43)

Are you requesting any minor modifications to the permit? ☐ Yes ☑ No **Note:** see the instructions for an exclusive list of changes considered as minor modifications.

If **yes**, list and discuss the requested changes.

14. MINOR AMENDMENT REQUESTS (Instructions, page 44)

Are you requesting any minor amendments to the permit? ___Yes ✔ No

If **yes**, list and discuss the requested changes.

WORKSHEETS
TO THE INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT

Please review the worksheet requirements in the instructions and indicate by checking either yes or no which worksheets are required, completed, and submitted with the technical report. Worksheets that are not applicable do not need to be submitted with the technical report.

WORKSHEET	COMPLETED AND SUBMITTED WITH THE TECHNICAL REPORT:	
	YES	NO
1.0: EPA EFFLUENT CATEGORICAL GUIDELINES	✔	
2.0: POLLUTANT ANALYSES REQUIREMENTS	✔	
3.0: LAND DISPOSAL OF EFFLUENT		✔
3.1: SURFACE LAND DISPOSAL OF EFFLUENT		✔
3.2: SUBSURFACE LAND DISPOSAL OF EFFLUENT		✔
3.3: SUBSURFACE AREA DRIP DISPERSAL SYSTEM LAND DISPOSAL OF EFFLUENT		✔
4.0: RECEIVING WATERS	✔	
4.1: STREAM PHYSICAL CHARACTERISTICS WORKSHEET		✔
5.0: SEWAGE SLUDGE MANAGEMENT AND DISPOSAL	✔	
6.0: INDUSTRIAL WASTE CONTRIBUTION		✔
7.0: STORM WATER RUNOFF		✔
8.0: AQUACULTURE		✔
9.0: CLASS V INJECTION WELL		✔
10.0: QUARRIES IN THE JOHN GRAVES SCENIC RIVERWAY		✔

WORKSHEET 1.0
EPA EFFLUENT CATEGORICAL GUIDELINES

REQUIRED FOR ALL APPLICATIONS FOR TPDES PERMITS FOR DISCHARGES OF WASTEWATERS SUBJECT TO EPA EFFLUENT LIMITATION GUIDELINES.

1. CATEGORICAL INDUSTRIES (Instructions, pages 47)

Is your facility subject to any of the 40 CFR effluent guidelines outlined in Table 1?
☑ Yes ☐ No

If **yes**, provide the appropriate information in the table below. If **no**, this worksheet is not required.

Industry	CFR
Steam Electric Power Generation	423

2. PRODUCTION/PROCESS DATA (Instructions, page 48)

a. Production data: Provide the appropriate data for effluent guidelines with production based effluent limitations.

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units
N/A			

b. Organic Chemicals, Plastics, and Synthetic Fibers Manufacturing Data (40 CFR Part 414): Provide each appropriate subpart and the percent of total production. Also provide the appropriate data for metal bearing wastestreams as required in 40 CFR Part 414, Appendices A and B.

Subcategory	% of total production	Appendix A and B	
		Metal	Process
N/A			

c. Refineries (40 CFR Part 419): Provide the applicable subcategory and a brief justification for each.

N/A

3. PROCESS/NON-PROCESS WASTEWATER FLOWS: Provide a breakdown of process wastewater flow(s) and non-process wastewater flow(s) as directed. (Instructions, page 48)

See Appendix WS 1.0-3

4. NEW SOURCE DETERMINATION: Provide a list of wastewater generating processes subject to effluent guidelines and the appropriate information. (Instructions, page 48)

Process	EPA Guideline		Date Process/ Construction Commenced
	Part	Subpart	
Cooling Tower Blowdown	40 CFR	423.136(1)	1982
Low Volume Waste Water	40 CFR	423.136(3)	1982
Metal Cleaning Waste Treatment	40 CFR	423.13e	1982

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

REQUIRED FO R A PPLICATIONS S UBMITTED FO R A T PDES PER MIT. N OT REQUIRED FO R APPLICATIONS F OR A PER MIT T O D ISPOSE O F ALL WASTEWATER BY LAND DISPOSAL OR FOR DISCHARGES SOLELY OF STORM WATER RUNOFF. (General Requirements: Instructions, Pages 49-51)

1. TABLE 1: Complete table required for all external outfalls.

Outfall No.: 001 ☐C ■G	**Effluent Concentration (mg/l)**					
Pollutants	**Samp.**	**Samp.**	**Samp.**	**Samp.**	**Average**	
BOD (5-day)	5.01	129	<4.80	<4.80	34.7	
CBOD (5-day)	<4.80	4.95	<4.80	<4.80	3.04	
Chemical Oxygen Demand	58.9	56.3	56.3	70.5	60.5	
Total Organic Carbon	13.0	11.6	12.3	13.1	12.5	
Dissolved Oxygen	4.0	12.4	6.3	6.4	7.3	
Ammonia Nitrogen	0.128	<0.0994	0.121	<0.0994	0.0871	
Total Suspended Solids	33.6	55.0	36.0	43.0	41.9	
Nitrate Nitrogen	2.74	<0.0500	0.195	<0.0500	0.7462	
Total Organic Nitrogen	2.21	2.10	0.959	3.27	2.13	
Total Phosphorus	0.106	0.0970	0.0990	0.0630	0.0912	
Oil and Grease	<1.43	<1.44	1.80	<1.43	0.9875	
Total Residual Chlorine	0.06	0.06	0.1	0.08	0.07	
Total Dissolved Solids	1250	1240	1230	1550	1317.5	
Sulfate	439	435	450	353	419.25	
Chloride	378	384	398	311	367.75	
Fluoride	0.789	0.517	0.834	0.628	0.692	
Fecal Coliform	<10	<10	10	40	15	
Temperature (°F)	89.4	91.6	90.9	86.2	89.5	
pH (Standard Units; min/max)	7.72	8.77	8.6	8.83	8.48	

	Effluent Concentration (µg/l)					**MAL (µg/l)**
Total Aluminum	391	594	406	721	528	30
Total Antimony	<30	14.2	<30	<30	14.8	30
Total Arsenic	8.60	11.2	7.50	9.60	9.22	10
Total Barium	198	197	206	192	198.25	10
Total Beryllium	<5	<5	<5	<5	<5	5
Total Cadmium	<1	1.50	<1	<1	0.75	1
Total Chromium	<10	1.80	<10	<10	4.2	10
Trivalent Chromium	<10	<10	<10	<10	<10	N/A
Hexavalent Chromium	<10	<10	<10	<10	<10	10
Total Copper	8.20	7.00	5.30	6.10	6.65	10
Cyanide	<20	<20	<20	2.49	8.12	20
Total Lead	<5	<5	<5	<5	<5	5
Total Mercury	<0.2	0.0344	<0.2	<0.2	0.0836	0.2
Total Nickel	5.00	7.90	4.50	3.20	5.15	10
Total Selenium	<10	<10	<10	<10	<10	10
Total Silver	<2.0	<2.0	<2.0	<2.0	<2.0	2.0
Total Thallium	<10	<10	<10	<10	<10	10
Total Zinc	34.2	7.50	23.3	6.00	17.75	5

2. TABLE 2:

Complete table required for all external outfalls which discharge process wastewater. Partial table required for all external outfalls with nonprocess wastewater discharges. Stormwater runoff discharges commingled with other wastestreams shall complete the table as instructed (Instructions, Pages 49-51).

Outfall No.: 001 ☐C ▣G		Effluent Concentration (µg/l) (*1)				
Pollutants	**Samp. 1**	**Samp. 2**	**Samp 3.**	**Samp. 4**	**Average**	**MAL (µg/l)**
Benzene	<10	<10	<10	<10	<10	10
Benzidine	<50	<50	<50	<50	<50	50
Benzo(a)anthracene	<10	<10	<10	<10	<10	10
Benzo(a)pyrene	<10	<10	<10	<10	<10	10
Carbon Tetrachloride	<10	<10	<10	<10	<10	10
Chlorobenzene	<10	<10	<10	<10	<10	10
Chloroform	<10	<10	<10	<10	<10	10
Chrysene	<10	<10	<10	<10	<10	10
Cresols	<50	<50	<50	<50	<50	(*2)
Dibromochloromethane	<10	<10	<10	<10	<10	10
1,2-Dibromoethane	<2	<2	<2	<2	<2	2
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	10
1,2-Dichloroethane	<10	<10	<10	<10	<10	10
1,1-Dichloroethylene	<10	<10	<10	<10	<10	10
Fluoride	0.789	0.517	0.834	0.628	0.692	500
Hexachlorobenzene	<10	<10	<10	<10	<10	10
Hexachlorobutadiene	<10	<10	<10	<10	<10	10
Hexachloroethane	<20	<20	<20	<20	<20	20
Methyl Ethyl Ketone	<50	<50	<50	<50	<50	50
Nitrobenzene	<10	<10	<10	<10	<10	10
n-Nitrosodiethylamine	<20	<20	<20	<20	<20	20
n-Nitroso-di-n-Butylamine	<20	<20	<20	<20	<20	20
PCB's, Total (*3)	<1	<1	<1	<1	<1	1
Pentachlorobenzene	<20	<20	<20	<20	<20	20
Pentachlorophenol	<50	<50	<50	<50	<50	50
Phenanthrene	<10	<10	<10	<10	<10	10
Pyridine	<20	<20	<20	<20	<20	20
1,2,4,5-Tetrachlorobenzene	<20	<20	<20	<20	<20	20
Tetrachloroethylene	<10	<10	<10	<10	<10	10
Trichloroethylene	<10	<10	<10	<10	<10	10
1,1,1-Trichloroethane	<10	<10	<10	<10	<10	10
2,4,5-Trichlorophenol	<50	<50	<50	<50	<50	50
TTHM (Total Trihalmethanes)	<10	<10	<10	<10	<10	10
Vinyl Chloride	<10	<10	<10	<10	<10	10

(*1) Indicates units if different from µg/l.
(*2) MAL's for Cresols: p-Chloro-m-Creso 10 µg/l; 4,6-Dinitro-o-Cresol 50 µg/l; p-Cresol 10 µg/l.
(*3) Total PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016.

a. LABORATORY ACCREDITATION:

Effective July 1, 2008, all laboratory tests performed must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification with the following general exemptions:

i. The laboratory is an in-house laboratory and is:
   1. periodically inspected by the TCEQ; or
   2. located in another state and is accredited or inspected by that state; or
   3. performing work for another company with a unit located in the same site; or
   4. performing pro bono work for a governmental agency or charitable organization.

ii. The laboratory is accredited under federal law.

iii. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

iv. The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements. The following certification statement shall be signed and submitted with very application. See Instructions, Page 30, for a list of designated representatives who may sign the certification.

I, Tim Gessner certify that all laboratory tests submitted with this application meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. TABLE 3:

Partial table (only those pollutants which are required by the conditions specified) required for each external outfall. Not required for internal outfalls. (Instructions, Pages 49-51)

a. TRIBUTYLTIN:

Is your facility or will your proposed facility be an industrial/commercial facility which directly disposes of wastewater from the types of operations listed below or a domestic facility which receive wastewater from the types of industrial/commercial operations listed below? ☐ Yes ☑ No

If **yes**, indicate with a check mark all of the following criteria which apply and provide the appropriate testing results in the table below.

☐ Manufacturers and formulators of tributyltin or related compounds.
☐ Painting of ships, boats and marine structures.
☐ Ship and boat building and repairing.
☐ Ship and boat cleaning, salvage, wrecking and scaling.
☐ Operation and maintenance of marine cargo handling facilities and marinas
☐ Facilities engaged in wood preserving
☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. ENTEROCOCCI

Does your facility or will your proposed facility discharge directly into saltwater receiving waters?

☐ Yes ☑ No

If **yes**, provide the appropriate testing results in the table below.

TABLE 3

Outfall No.:	**□C □G**	**Effluent Concentration (µg/l)**					
Pollutants		**Samp. 1**	**Samp.**	**Samp.**	**Samp.**	**Averag**	**MAL**
Tributyltin							0.010
Enterococci							N/A

4. TABLE 4:

Complete table r equired f or all external outfalls which discharge process wastewater and other wastewaters, which way contain pesticides or herbicides, from a facility which manufactures or formulates pesticides or herbicides. Not required for internal outfalls. (Instructions, Page 52)

Does your facility manufacture or formulate pesticides or herbicides? ☐ Yes ☑ No

If **yes**, provide the appropriate testing results.

TABLE 4

Outfall No.: ☐C ☐G	Effluent Concentration (µg/l) (*1)					MAL (µg/l)
Pollutants	**Samp. 1**	**Samp. 2**	**Samp. 3**	**Samp. 4**	**Avg.**	
Beta-hexachlorocyclohexane						0.05
Carbaryl						5
Chlordane						0.15
Chlorpyrifos						0.05
2,4-D						10
Danitol						----
4,4'-DDD						0.1
4,4'-DDE						0.1
4,4'-DDT						0.1
Demeton						0.2
Diazinon						0.5
Dicofol						20
Dieldrin						0.1
Diuron						0.09
Endosulfan I (alpha)						0.1
Endosulfan II (beta)						0.1
Endosulfan Sulfate						0.1
Endrin						0.1
Gamma - Hexachlorocyclohexane (Lindane)						0.05
Guthion						0.10
Heptachlor						0.05
Heptachlor Epoxide						1.0
Hexachlorophene						10
Malathion						0.10
Methoxychlor						2.0
Mirex						0.2
Parathion						0.1
Toxaphene						5
2,4,5-TP (Silvex)						2

* Indicate units if different from mg/L.

5. TABLE 5:

Complete table required for all external outfalls. Not required for internal outfalls. (Instructions, Page 52)

TABLE 5

Outfall No.: 001	□C ■G	Believed Present	Believed Absent	Effluent Concentration (mg/l)		
Pollutants				**Average**	**Maximum**	**No. of Samples**
Bromide			X			
Color(PCU)			X			
Nitrate-Nitrite(as N)		X		0.7462	2.74	4
Sulfide(as S)			X			
Sulfite(as SO_3)			X			
Surfactants			X			
Total Antimony		X		5.9125	14.2	4
Total Beryllium		X		<1.34	<1.34	4
Total Boron		X		497	530	4
Total Cobalt			X			
Total Iron		X		275.75	336	4
Total Magnesium		X		35625	36300	4
Total Molybdenum			X			
Total Manganese		X		75.2	80.4	4
Total Thallium		X		<7.84	<7.84	4
Total Tin			X			
Total Titanium			X			

6. TABLE 6:

Indicate with a check mark any of the industrial caategories applicable to your facility. If testing is required, indicate with a check mark in the box provided that the testing results for the appropriate parameters in Table B-7 are provided with the application. (Instructions, Page 52)

_____N/A	GC/MS Testing Required			
	Volatile	**Acid**	**Base/Neutral**	**Pesticides**
_____ Adhesives and Sealants	Yes ☐	Yes ☐	Yes ☐	No
_____ Aluminum Forming	Yes ☐	Yes ☐	Yes ☐	No
_____ Auto and Other Laundries	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Battery Manufacturing	Yes ☐	No	Yes ☐	No
_____ Coal Mining	No	No	No	No
_____ Coil Coating	Yes ☐	Yes ☐	Yes ☐	No
_____ Copper Forming	Yes ☐	Yes ☐	Yes ☐	No
_____ Electric and Electronic Components	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Electroplating	Yes ☐	Yes ☐	Yes ☐	No
_____ Explosives Manufacturing	No	Yes ☐	Yes ☐	No
_____ Foundries	Yes ☐	Yes ☐	Yes ☐	No
_____ Gum and Wood Chemicals				
_____Subparts A,B,C,E	Yes ☐	Yes ☐	No	No
_____Subparts D,F	Yes ☐	Yes ☐	Yes ☐	No
_____ Inorganic Chemicals	Yes ☐	Yes ☐	Yes ☐	No
_____ Iron and Steel Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Leather Tanning/Finishing	Yes ☐	Yes ☐	Yes ☐	No
_____ Mechanical Products Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Nonferrous Metals Mfg.	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Ore Mining(Subpart B)	No	Yes ☐	No	No
_____ Organic Chemicals, Plastics, and Synthetic Fibers	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Paint and Ink Formulation	Yes ☐	Yes ☐	Yes ☐	No
_____ Pesticides	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Petroleum Refining	Yes ☐	No	No	No
_____ Pharmaceutical Preparations	Yes ☐	Yes ☐	Yes ☐	No
_____ Photographic Equipment and Supplies	Yes ☐	Yes ☐	Yes ☐	No
_____ Plastic and Synthetic Materials Manufacturing	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Plastic Processing	Yes ☐	No	No	No
_____ Porcelain Enameling	No	No	No	No
_____ Printing and Publishing	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Pulp and Paperboard Mills				
_____Subparts A	* ☐	Yes ☐	* ☐	Yes ☐
_____Subparts B, C, D, R	* ☐	Yes ☐	* ☐	* ☐
_____Subparts F, G, H, I, K, L, M, N, O, P	Yes ☐	Yes ☐	* ☐	* ☐
_____Subparts E, Q, S, T	Yes ☐	Yes ☐	* ☐	Yes ☐
_____Subparts J, U	Yes ☐	Yes ☐	Yes ☐	* ☐
_____Rubber Processing	Yes ☐	Yes ☐	Yes ☐	No
_____Soap and Detergent Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
✔ Steam Electric Power Plants	Yes ☑	Yes ☑	No	No
_____ Textile Mills (Not Subpart C)	Yes ☐	Yes ☐	Yes ☐	No
_____ Timber Products Processing	Yes ☐	Yes ☐	Yes ☐	Yes ☐

* Test if "believed present"

7. TABLE 7:

Please complete as directed and only for those parameters specified in Table 6 . Required for all external outfalls which contain process wastewater. Not required for internal outfalls. Testing may be required for types of industry not specified in Table 6 for specific parameters if believed present (Instructions, Pages 52-53).

TABLE 7

Outfall No.: 001 ☐C ▣G	Effluent Concentration (µg/l)*			
Pollutants / **VOLATILE COMPOUNDS**	**Average**	**Maximum**	**Number of Samples**	**MAL (µg/l)**
Acrolein	<50	<50	4	50
Acrylonitrile	<50	<50	4	50
Benzene	<10	<10	4	10
Bromoform	<10	<10	4	10
Carbon Tetrachloride	<10	<10	4	10
Chlorobenzene	<10	<10	4	10
Chlorodibromomethane	<10	<10	4	10
Chloroethane	<50	<50	4	50
2-Chloroethylvinyl Ether	<10	<10	4	10
Chloroform	<10	<10	4	10
Dichlorobromomethane	<10	<10	4	10
1,1-Dichloroethane	<10	<10	4	10
1,2-Dichloroethane	<10	<10	4	10
1,1-Dichloroethylene	<10	<10	4	10
1,2-Dichloropropane	<10	<10	4	10
1,3-Dichloropropylene	<10	<10	4	10
Ethylbenzene	<10	<10	4	10
Methyl Bromide	<50	<50	4	50
Methyl Chloride	<50	<50	4	50
Methylene Chloride	<20	<20	4	20
1,1,2,2-Tetrachloroethane	<10	<10	4	10
Tetrachloroethylene	<10	<10	4	10
Toluene	<10	<10	4	10
1,2-Trans-Dichloroethylene	<10	<10	4	10
1,1,1-Trichloroethane	<10	<10	4	10
1,1,2-Trichloroethane	<10	<10	4	10
Trichloroethylene	<10	<10	4	10
Vinyl Chloride	<10	<10	4	10

Pollutants	Effluent Concentration (µg/l)*			
	Average	Maximum	Number of Samples	MAL (µg/l)
ACID COMPOUNDS				
2-Chlorophenol	<10	<10	4	10
2,4-Dichlorophenol	<10	<10	4	10
2,4-Dimethylphenol	<10	<10	4	10
4,6-Dinitro-o-Cresol	<50	<50	4	50
2,4-Dinitrophenol	<50	<50	4	50
2-Nitrophenol	<20	<20	4	20
4-Nitrophenol	<50	<50	4	50
P-Chloro-m-Cresol	<10	<10	4	10
Pentalchlorophenol	<50	<50	4	50
Phenol	<10	<10	4	10
2,4,6-Trichlorophenol	<10	<10	4	10
BASE/NEUTRAL COMPOUNDS				
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				10
Benzo(a)Pyrene				10
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				10
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butylbenzyl Phthalate				10
2-chloronaphthalene				10
4-chlorophenyl phenyl ether				10
Chrysene				10
Dibenzo(a,h)Anthracene				20
1,2-Dichlorobenzene				10
1,3-Dichlorobenzene				10
1,4-Dichlorobenzene				10
3,3-Dichlorobenzidine				50
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitroluene				10
Di-n-Octyl Phthalate				10

	Effluent Concentration (µg/l)*			
Pollutants	**Average**	**Maximum**	**No. of Samples**	**MAL (µg/l)**
BASE/NEUTRAL COMPOUNDS (cont.)				
1,2-Diphenyl Hydrazine (as Azobenzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				10
Hexachlorobutadiene				10
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				20
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10
PESTICIDES				
Aldrin				0.05
alpha-BHC				0.05
beta-BHC				0.05
gamma-BHC				0.05
delta-BHC				0.05
Chlordane				0.15
4,4-DDT				0.1
4,4-DDE				0.1
Dieldrin				0.1
alpha-Endosulfan				0.1
beta-Endosulfan				0.1
Endosulfan Sulfate				0.1
Endrin				0.1
Endrin Aldehyde				0.1
Heptachlor				0.05
Heptachlor Epoxide				
PCB-1254				1.0
PCB-1221				1.0
PCB-1242				
PCB-1232				1.0
PCB-1248				1.0
PCB-1260				1.0
PCB-1016				1.0
Toxaphene				5.0

*** Indicate units if different from µg/l**

8. TABLE 8 (DIOXINS/FURAN COMPOUNDS):

Please complete as directed. Not required for internal outfalls. (Instructions, Pages 53-54)

a. Are any of the following compounds manufactured and/or u sed in a process at t he facility? ☐ Yes ☑ No

If **yes**, i ndicate w ith a ch eck mark the compound(s) which apply and provide a brief description of the conditions of its/their presence at the facility.

☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CAS #93-76-5
☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CAS #93-72-1
☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CAS #136-25-4
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CAS #299-84-3
☐ 2,4,5-trichlorophenol (TCP) CAS #95-95-4
☐ Hexachlorophene (HCP) CAS #70-30-4

b. Do y ou k now or have a ny reason to b elieve that 2, 3,7,8 Te trachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent? ☐ Yes ☑ No

If **yes,** provide a brief description of the conditions for its presence.

c. If your responded **yes** to either item **a** or **b**, complete **Table 8** as instructed.

TABLE 8

Outfall No. _____	☐C ☐G	Wastewater		Sludge		MAL (ppq)
Compound	Equivalent Factors	Concentration (ppq)	Equivalents (ppq)	Concentration (ppt)	Equivalents (ppt)	
2,3,7,8-TCDD	1					10.0
1,2,3,7,8-PeCDD	0.5					50.0
2,3,7,8-HxCDDs	0.1					50.0
2,3,7,8-TCDF	0.1					10.0
1,2,3,7,8-PeCDF	0.05					50.0
2,3,4,7,8-PeCDF	0.5					50.0
2,3,7,8-HxCDFs	0.1					50.0
Total						

9. TABLE 9 (HAZARDOUS SUBSTANCES):

Proceed complete as directed. Not required for internal outfalls. (Instructions, Pages 55)

a. Are there any pollutants listed in the instructions (page 55) believed present in the discharge?

☐Yes ☑No

b. Are there pollutants listed in Item No. 1.d. on Page No. 1 of this technical report which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

☐Yes ☑No

If your responded **yes** to either item, complete **Table 9** as instructed.

TABLE 9

Pollutant & CAS Number	Average (µg/l)	Maximum (µg/l)	No. of Samples	Analytical Method

WORKSHEET 4.0
RECEIVING WATERS

THE FOLLOWING IS REQUIRED FOR ALL TPDES PERMIT APPLICATIONS

1. DOMESTIC DRINKING WATER SUPPLY (Instructions, Page 70)

Is there a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge?

☐ Yes ☑ No

If yes, identify owner of the drinking water supply, the distance and direction to the intake, and locate and identify the intake on the USGS map. Indicate by a check mark that the requested information is provided: ☐

2. DISCHARGE INTO TIDALLY INFLUENCED WATERS (Instructions, Page 70)

a. Width of the receiving water at the outfall? N/A feet

b. Are there oyster reefs in the vicinity of the discharge? ☐ Yes ☐ No

If yes, indicate approximate distance and direction from outfall(s):

c. Are there any sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If yes, provide the distance and direction to the grasses:

N/A

3. CLASSIFIED SEGMENT (Instructions, Page 70)

Is the discharge directly into (or within 300 feet of) a classified segment?

☐ Yes ☑ No

If yes , stop here. It is not necessary to complete items 4 and 5 and it is not necessary to complete Worksheet 2.1. **If no**, complete items 4 and 5.

4. DESCRIPTION OF IMMEDIATE RECEIVING WATERS (Instructions, Page 71)

Name of the immediate receiving waters: Dry Creek

a. Check the appropriate description of the receiving waters

☐ Man-made Channel or Ditch
☑ Stream or creek
☐ Lake or Pond
Surface area _____ acres
Average depth of the entire water body _____ feet
Average depth of water body within a 500-foot radius or the discharge point _____ feet
☐ Freshwater Swamp or Marsh
☐ Tidal Stream, Bayou, or Marsh
☐ Open Bay
☐ Other: _____

If a man-made channel, ditch or stream was checked above, provide the following:

b. Check one of the following that best characterizes the area **upstream** of the discharge. For new discharges, characterize the area **downstream** of the discharge (check one).

☐ Intermittent (dry for at least one week during most years)
☑ Intermittent with Perennial Pools (enduring pools containing sufficient habitat to maintain significant aquatic life uses)
☐ Perennial (normally flowing)

Check the method used to characterize the area upstream (or downstream for new dischargers):

☐ USGS flow records
☑ personal observation
☐ historical observation by adjacent landowner(s)
☐ others, specify: _____

c. List the name(s) of all perennial streams that join the receiving water within three miles downstream of the discharge point:

Rabbs Bayou

d. Do the receiving water characteristics change within three miles downstream of the discharge? (e.g., natural or man-made dams, ponds, reservoirs, etc

☑ Yes ☐ No

If yes, discuss how:

Enters Rabbs Bayou which is perennial

e. Provide general observations of the water body during normal dry weather conditions:

Date and time of observation: See Appendix WS 4.0-4; Date 11-15-2012; 10:00 am

Was water body influenced by storm water runoff during observations?

☐ Yes ☑ No

5. GENERAL CHARACTERISTICS OF WATER BODY (Instructions, Page 71)

a. Is the receiving water upstream of the discharges or proposed discharge site influenced by (check as appropriate):

☐ oil field activities
☑ agricultural runoff
☑ upstream discharges
☑ urban runoff
☐ septic tanks
☐ others, specify below

b. Uses of water body observed or evidences of (check as appropriate):

☑ livestock watering	☐ contact recreation	☐ irrigation withdrawal
☐ non contact recreation	☑ fishing	☐ navigation
☐ domestic water supply	☐ industrial water supply	☐ picnic park activities
☐ others, specify below		

c. Check one of the following to best describe the aesthetics of the receiving water and the surrounding area:

☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area: water clarity exceptional

☐ Natural Area: trees and/or native vegetation common; some development evident (from fields, pastures,dwellings); water clarity discolored

☑ Common Setting: not offensive, developed but uncluttered; water may be colored or turbid

☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

WORKSHEET 4.1
STREAM PHYSICAL CHARACTERISTICS AND WORKSHEET

THE FOLLOWING IS REQUIRED FOR NEW APPLICATIONS, MAJOR FACILITIES, AND APPLICATIONS ADDING AN OUTFALL IF RECEIVING WATERS ARE PERENNIAL OR INTERMITTENT WITH PERENNIAL POOLS.

Date of study: _____ Time of study: _____

Stream name: _____

Location: _____

Type of stream upstream of existing discharge or downstream of proposed discharges, (check one):

perennial **intermittent with perennial pools**

COMPLETE THE TRANSECTS DOWNSTREAM OF THE EXISTING OR PROPOSED DISCHARGES:

1. DATA COLLECTION (Instructions, Pages 72)

No. of stream bends:

_____well defined _____moderately defined _____poorly defined

No. of riffles: _____

Evidence of Flow fluctuations (check one):

_____Minor _____moderate _____severe

Indicate the observed stream uses and if there is evidence or flow fluctuations or channel obstructions/modifications:

_____

Stream Type at Transect Location: ☐ riffle ☐ run ☐ glide ☐ pool (check one)

Location of Transect	Water Surface Width (ft)	Stream Depths (ft) at Points Across Transect (channel bed to water surface)									

Stream Type at Transect Location: ☐ riffle ☐ run ☐ glide ☐ pool (check one)

Location of Transect	Water Surface Width (ft)	Stream Depths (ft) at Points Across Transect (channel bed to water surface)									

Stream Type at Transect Location: ☐riffle ☐run ☐glide ☐pool (check one)

Location of Transect	Water Surface Width (ft)	Stream Depths (ft) at Points Across Transect (channel bed to water surface)									

Stream Type at Transect Location: ☐riffle ☐run ☐glide ☐pool (check one)

Location of Transect	Water Surface Width (ft)	Stream Depths (ft) at Points Across Transect (channel bed to water surface)									

Stream Type at Transect Location: ☐riffle ☐run ☐glide ☐pool (check one)

Location of Transect	Water Surface Width (ft)	Stream Depths (ft) at Points Across Transect (channel bed to water surface)									

Stream Type at Transect Location: ☐riffle ☐run ☐glide ☐pool (check one)

Location of Transect	Water Surface Width (ft)	Stream Depths (ft) at Points Across Transect (channel bed to water surface)									

Stream Type at Transect Location: ☐riffle ☐run ☐glide ☐pool (check one)

Location of Transect	Water Surface Width (ft)	Stream Depths (ft) at Points Across Transect (channel bed to water surface)									

Stream Type at Transect Location: ☐riffle ☐run ☐glide ☐pool (check one)

Location of Transect	Water Surface Width (ft)	Stream Depths (ft) at Points Across Transect (channel bed to water surface)									

Stream Type at Transect Location: ☐riffle ☐run ☐glide ☐pool (check one)

Location of Transect	Water Surface Width (ft)	Stream Depths (ft) at Points Across Transect (channel bed to water surface)									

Stream Type at Transect Location: ☐riffle ☐run ☐glide ☐pool (check one)

Location of Transect	Water Surface Width (ft)	Stream Depths (ft) at Points Across Transect (channel bed to water surface)									

2. SUMMARIZE MEASUREMENTS (Instructions, Page 73)

Streambed slope of entire reach (from USGS map in ft. /ft.) _____

Approximate drainage area above the most downstream transect (from USGS map or county highway map in ml2) _____

Length of stream evaluated (in feet) _____

Number of lateral transects made _____

Average stream width (in feet) _____

Average stream depth (in feet) _____

Average stream velocity (in ft/sec) _____

Instantaneous stream flow (in ft^3/sec) _____

Indicate flow measurement method _____

(VERY IMPORTANT -type of meter, floating chip timed over a fixed distance, etc.**)**

Flow fluctuations (minor, moderate, severe) _____

Size of pools (large, small, moderate, none) _____

Maximum pool depth (in feet) _____

Total number of stream bends _____

Number well defined _____

Number moderately defined _____

Number poorly defined _____

Total number of riffles _____

WORKSHEET 5.0
SEWAGE SLUDGE MANAGEMENT AND DISPOSAL

THE FOLLOWING IS REQUIRED FOR ALL TPDES PERMIT APPLICATIONS THAT MEET THE CONDITIONS AS OUTLINED IN TECHNICAL REPORT 1.0, ITEM NO. 7.

1. SEWAGE SLUDGE SOLIDS MANAGEMENT PLAN (Instructions, Page 74)

a. Is this a new permit application or an amendment permit application?

☑ Yes ☐ No

b. Does the facility discharge in the Lake Houston watershed?

☐ Yes ☑ No

If **yes** to either item **a** or **b**, indicate by a check mark that a solids management plan was provided with the application. ☐

2. SEWAGE SLUDGE MANAGEMENT AND DISPOSAL (Instructions, Pages 74)

a. Please check the current sludge disposal method(s). More than one method can be checked.

☑ Permitted landfill
☐ Marketing and distribution by the permittee
☐ Registered land application site
☐ Composted by the permittee
☐ Surface disposal site (sludge monofill)
☐ Transported to another WWTP (written statement or contractual agreement required)
☐ Beneficial land application as authorized in the existing permit

b. Disposal site name: Coastal Plains
TCEQ Permit/Registration Number: H1721
County where disposal site is located: Galveston County

c. Method of Transportation (truck, train, pipe, other): Transported by truck
Hauler Registration Number: 40514

Transported in: ☐ liquid ☐ semi-liquid ☑ semi-solid ☐ solid state

Land application for: ☐ Reclamation ☐ Soil Conditioning

d. If the existing permit contains authorization for sludge land application, composting, marketing and distribution of sludge, and/or sludge lagoons and authorization to renew the activity is being sought in the application, the appropriate sections of the Sludge Technical Report must be provided.

3. PERMIT AUTHORIZATION FOR SEWAGE SLUDGE DISPOSAL (Instructions, Page 75)

Are you requesting new authorization to beneficially land apply sewage sludge at this site or a site under your direct control?

☐ Yes ☑ No

Are you requesting new authorization to market and distribute sewage sludge at this facility or a facility under your direct control?

☐ Yes ☑ No

Are you requesting new authorization to compost sewage sludge?

☐ Yes ☑ No

Are you requesting new authorization to surface dispose sewage sludge at this site or site under your direct control?

☐ Yes ☑ No

Are you requesting new authorization to incinerate sewage sludge at this site or site under your direct control?

☐ Yes ☑ No

If **yes** to any of the above items, provide the information required in the SLUDGE TECHNICAL REPORT.

New authorization for beneficial land application, incineration, and sludge lagoons in the TPDES or TLAP permits requires a major amendment to the permit. New authorization for composting may require a major amendment to the permit. See the instructions for an explanation whether a major amendment is required or if authorization for composting can be added through the renewal process.

WORKSHEET 7.0
STORM WATER RUNOFF WORKSHEET

REQUIRED FOR ALL TPDES PERMIT APPLICATIONS APPLYING FOR INDIVIDUAL PERMIT COVERAGE FOR DISCHARGES OF STORM WATER RUNOFF.

1. Do discharges from any of the proposed or existing outfalls consist of storm water runoff only or storm water runoff and any of the listed non-storm water discharges? (See Instructions, Page 79)

☐ Yes ☑ No

If **yes**, proceed as directed. If **no**, stop here.

2. Indicate by a check mark which type of authorization covers or is proposed to cover discharges from each storm water outfall. (See Instructions, Page 79)

Outfall	Coverage Under MSGP	Coverage Under Individual Permit	Outfall	Coverage Under MSGP	Coverage Under Individual Permit

If you have indicated that all existing or proposed storm water outfalls are covered under the MSGP, **stop here**. If you have indicated that you are seeking authorization under an individual permit, **proceed as directed**.

THE FOLLOWING ITEMS ARE REQUIRED FOR EACH OUTFALL THAT DISCHARGES STORM WATER, AND FOR WHICH YOU ARE SEEKING INDIVIDUAL AUTHORIZATION UNDER THIS PERMIT APPLICATION.

3. Site Map (Instructions, pages 79)

Indicate by a check mark that a site map(s) of the entire facility has been provided with the following information.

- ☐ the location of each storm water outfall to be covered by the permit;
- ☐ an outline of the drainage area that is within the facility's boundary and that contributes storm water to each outfall to be covered by the permit;
- ☐ connections or discharge points to municipal separate storm sewer systems;
- ☐ locations of all structures (e.g. buildings, garages, storage tanks);
- ☐ structural control devices that are designed to reduce pollution in storm water runoff;
- ☐ process wastewater treatment units (including ponds);
- ☐ bag house and other air treatment units exposed to precipitation or runoff;
- ☐ landfills; scrapyards; surface water bodies (including wetlands);

- ☐ vehicle and equipment maintenance areas;
- ☐ physical features of the site that may influence storm water runoff or contribute a dry weather flow;
- ☐ locations where spills or leaks of reportable quality (as defined in 30 TAC §327.4) have occurred during the three years before this application was submitted to obtain coverage under an individual permit; and
- ☐ processing areas, storage area, material loading/unloading areas, and other locations where significant materials are exposed to precipitation or runoff.

4. FACILITY/SITE INFORMATION (Instructions, page 80)

a. Provide an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation.

b. Provide narrative descriptions of the industrial processes and activities involving the materials in the above-listed inventory that occur outdoors or in some manner that may result in exposure of the materials to precipitation or runoff.

c. Describe any best management practices and controls that you are using to prevent or effectively reduce pollution in storm water discharges from the facility.

5. POLLUTANT ANALYSIS (Instructions, pages 80)

a. TABLE 1-SW: Please complete the table as directed.

Outfall _____	MAXIMUM VALUES (mg/L)		AVERAGE VALUES (mg/L)			
Pollutant	Grab Sample Taken During First 30 Minutes	Flow Weighted Composite Sample	Grab Sample Taken During First 30 Minutes	Flow Weighted Composite Sample	Number of Storm Events Sampled	MAL (mg/L)
pH (Standard Units)	(min)	(max)	(min)	(max)		-------
Total Suspended Solids						-------
Chemical Oxygen Demand						-------
Total Organic Carbon						-------
Oil and Grease						-------
Total Arsenic						0.010
Total Barium						0.010
Total Cadmium						0.001
Total Chromium						0.010
Trivalent Chromium						-------
Hexavalent Chromium						0.010
Total Copper						0.010
Total Lead						0.005
Total Mercury						0.0002
Total Nickel						0.010
Total Selenium						0.010
Total Silver						0.002
Total Zinc						0.005

b. TABLE 2-SW: Please complete the table as directed. (Instructions, Pages 80)

Outfall _____	MAXIMUM VALUES (mg/L)		AVERAGE VALUES (mg/L)		Number of Storm Events Sampled
Pollutant	Grab Sample Taken During First 30 Minutes	Flow Weighted Composite Sample	Grab Sample Taken During First 30 Minutes	Flow Weighted Composite Sample	

6. STORM EVENT DATA (Instructions, page 83)

Please provide the following data for the storm event(s) which resulted in the maximum values for the analytical data submitted:

a. Date of storm event: _____

b. Duration of storm event (in minutes): _____

c. Total rainfall during storm event (in inches): _____

d. Number of hours between beginning of storm measured and end of previous measurable rain event: _____ hours

e. Maximum flow rate during rain event (gallons/minute):_____

f. Total storm water flow from rain event (in gallons):_____

g. Provide a description of the method of flow measurement or estimate:

WORKSHEET 8.0
AQUACULTURE

THE FOLLOWING IS REQUIRED FOR ALL TPDES PERMIT APPLICATIONS APPLYING FOR INDIVIDUAL PERMIT COVERAGE FOR DISCHARGES OF AQUACULTURE WASTEWATER.

1. FACILITY/SITE INFORMATION (Instructions, Page 84)

a. Describe the production ponds, raceways, and fabricated tanks:

Number of Ponds	Dimensions	Area of Each Pond	Number of Raceways	Dimensions	Number of Tanks	Dimensions

Total surface area of all ponds: _____

b. Do you have a TPWD-approved emergency plan? ☐ Yes ☐ No

c. Do you have an aquatic plant transplant authorization? ☐ Yes ☐ No
If so, please provide a copy of the authorization letter.

d. How many aquaculture facilities are located within a 25 mile radius of this facility?
_____

2. SPECIES IDENTIFICATION (Instructions, Pages 85)

Please complete the following table for each species being raised. Identify the species being raised, the source, origin, and the disease status of the stock. If applicable, identify and attach copies of current relevant authorizations or permits that authorize the species.

Species	Source of Stock	Origin of Stock	Disease Status	Authorizations

3. STOCK MANAGEMENT PLAN (Instructions, Page 85)

Provide a detailed stock management plan including all information required on Page # of the Instructions for Completing the Industrial Wastewater Application. Provide an attachment if necessary.

4. WATER TREATMENT AND DISCHARGE DESCRIPTION (Instructions, Pages 86)

Provide a detailed description of the discharge practices and water treatment process including all information required on Page # of the Instructions for Completing the Industrial Wastewater Application. Provide an attachment if necessary.

5. SOLID WASTE MANAGEMENT (Instructions, Page 86)

Describe solid waste disposal practices including all information required on Page # of the Instructions for Completing the Industrial Wastewater Application. Provide an attachment if necessary.

6. SITE ASSESSMENT REPORT AND SENSITIVE HABITAT REQUIREMENTS (Applicable to new and expanding commercial shrimp facilities located within the coastal zone) (Instructions, Page 86)

Attach a detailed site assessment report including all information requested on Page # of the Instructions for Completing the Industrial Wastewater Application. Indicate with a checkmark that each of the following items has been included within the site assessment report.

- ☐ **(a)** Facility Location
- ☐ **(b)** Flushing Rate
- ☐ **(c)** Reefs
- ☐ **(d)** Endangered or Threatened Species or Species of Concern
- ☐ **(e)** Spawning
- ☐ **(f)** Nesting
- ☐ **(g)** Bird Roosts
- ☐ **(h)** Recreational Use
- ☐ **(i)** Nursery Habitat
- ☐ **(j)** Discharge Characterization

WORKSHEET 9.0

SUBMIT TO: TCEQ Industrial and Hazardous Waste Permits Section MC130 PO Box 13087 Austin, Texas 78711-3087 512/239-6075	**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY** CLASS V INJECTION WELL INVENTORY/ AUTHORIZATION FORM	For TCEQ Use Only Reg. No. _____ Date Received: _____ Date Authorized:_____

Reg. No. 5_____

Section I General Information

Provide the information in items 1 through 8 (Instructions Page 79)

1.	TCEQ Program Area (PST, VCP, IHW, etc.), Contact Name and Phone Number
2.	Agent/Consultant, Contact Name, Address (Street, City, State, and Zip Code), and Phone Number
3.	____ Owner ____Operator Owner/Operator, Contact Name, Address (Street, City, State, and Zip Code), and Phone Number
4.	Facility Name, Address (Street, City, County, State, and Zip Code) or location description (if no address is available) and Facility Contact Person and Phone Number
5.	Latitude and Longitude (degrees-minutes-seconds) and method of determination (GPS, TOPO, etc.) (Attach topographic quadrangle map as attachment A)
6.	Type of Well Construction (Vertical Injection, Subsurface Fluid Distribution System, Infilltration Gallery, Temporary Injection Points, etc.) and Number of Injection Wells
7.	Detailed Description regarding purpose of Injection System. Attach a Site Map as Attachment B (Attach the Approved Remediation Plan (if appropriate))
8.	Water Well Driller/Installer, Address (Street, City, State, and Zip Code), Phone Number, and License Number

Section II Proposed Down Hole Design Attach a diagram signed and sealed by a licensed engineer as Attachment C					
Name of String	Size	Setting Depth	Sacks Cement/Grout - Slurry Volume - Top of Cement	Hole Size	Weight PVC/Steel (lbs/ft)
9. Casing					
10. Tubing					
11. Screen					

Section III Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery Attach a diagram signed and sealed by a licensed engineer as Attachment D	
12. System(s) Dimensions	13. System(s) Construction

Section IV Site Hydrogeological and Injection Zone Data Provide the information in items 14 through 31
14. Name of Contaminated Aquifer
15. Receiving Formation Name of Injection Zone
16. Well/Trench Total Depth
17. Surface Elevation
18. Depth to Ground Water
19. Injection Zone Depth
20. Injection Zone vertically isolated geologically? ☐Yes ☐No Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water Name: _____ Thickness: _____
21. Provide a list of contaminants and the levels (ppm) in contaminated aquifer Attach as Attachment E
22. Horizontal and Vertical extent of contamination and injection plume Attach as Attachment F
23. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc. Attach as Attachment G
24. Injection Fluid Chemistry in PPM at point of injection Attach as Attachment H

25. Lowest Known Depth of Ground Water with < 10,000 PPM TDS
26. Maximum injection Rate/Volume/Pressure
27. Water wells within 1/4 mile radius (attach map as Attachment I)
28. Injection wells within 1/4 mile radius (attach map as Attachment I)
29. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment I)
30. Sampling frequency
31. Known hazardous components in injection fluid
Section V Site History Provide the information in items 32 through 35
32. Type of Facility
33. Contamination Dates
34. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations Attach as attachment J
35. Previous Remediation Attach results of any previous remediation as attachment K

<<NOTE>> Authorization Form should be completed in detail and authorization given by TCEQ before construction, operation, and/or conversion can begin. Attach additional pages as necessary.

Class V Injection Well Designations

5A07 Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)

5A19 Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)

5B22 Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)

5D02 Storm Water Drainage (IW designed for the disposal of rain water)

5D04 Industrial Storm Water Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)

5F01 Agricultural Drainage (IW that receive agricultural runoff)

5R21 Aquifer Recharge (IW used to inject fluids to recharge an aquifer)

5S23 Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)

5W09 Untreated Sewage

5W10 Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)

5W11 Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)

5W12 WTTP disposal

5W20 Industrial Process Waste Disposal Wells

5W31 Septic System (Well Disposal method)

5W32 Septic System Drainfield Disposal

5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)

5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)

5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)

5X27 Other Wells

5X28 Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)

5X29 Abandoned Drinking Water Wells (waste disposal)

WORKSHEET 10.0
QUARRIES IN THE JOHN GRAVES SCENIC RIVERWAY

THE FOLLOWING IS REQUIRED FOR ALL TPDES PERMIT APPLICATIONS APPLYING FOR INDIVIDUAL PERMIT FOR A MUNICIPAL SOLID WASTE OR MINING FACILITY LOCATED WITHIN A WATER QUALITY PROTECTION AREA IN THE JOHN GRAVES SCENIC RIVERWAY, APPLYING FOR AN INDIVUAL TPDES OR TLAP PERMIT.

30 TAC §311.71-311.82 should be thoroughly reviewed prior to completing any portion of this worksheet.

1. EXCLUSIONS (Instructions, pages 92)

	Exclusions		
a.	Is this a municipal solid waste facility?	☐ Yes	☐No
b.	Has this a quarry been in operation since January 1, 1994 without cessation of operation for more than 30 consecutive days and under the same ownership?	☐ Yes	☐No
c.	Is this a coal mine?	☐ Yes	☐No
d.	Is this a facility mining clay and shale for use in manufacturing structural clay products	☐ Yes	☐No

If **yes** to any of the above, **stop here**. You are required to maintain documentation on-site at the facility demonstrating these exclusions. 30 TAC §311.72(c) outlines the acceptable forms of documentation.

2. LOCATION OF THE QUARRY (Instructions, page 93)

	Location of the Quarry Relative to a Navigable Water Body		
a.	<200 feet	OPERATION PROHIBITED	
b.	200 feet – 1,500 feet	☐ Yes	☐No
c.	1,500 feet – 1 mile	☐ Yes	☐No
d.	> 1 mile	☐ Yes	☐No

3. ADDITIONAL APPLICATION REQUIREMENTS (Instructions, pages 93)

Application Requirement	Location of the Quarry Relative to a Perennial Water Body				Submitted
	<200 feet	200 feet – 1,500 feet	1,500 feet – 1 mile	> 1 mile	
Restoration Plan	OPERATION PROHIBITED	R	---	---	
Financial Assurance for Restoration		R	---	---	
Technical Demonstration		R	---	---	
Reclamation Plan		R	R	R	
Financial Assurance for Reclamation		R	R	R	

R Required
--- Not Required

a. Restoration Plan

Indicate that the Restoration Plan addresses the following, as required by 30 TAC §311.76:

Item		Submitted
i.	Certified by a licensed Texas professional engineer or a licensed Texas professional geoscientist, within the appropriate area or discipline.	
ii.	Identifies receiving waters at risk of an unauthorized discharge from the quarry and includes a proposed plan of action for restoration.	
iii.	Describes the process(es) used in documenting existing physical, chemical, and/or biological background conditions of *each* of the receiving waters.	
iv.	Provides a schedule for updating background conditions, as appropriate.	
v.	Identifies the goals and objectives of potential restoration actions.	
vi.	Provides a reasonable range of restoration alternatives and identifies the preferred restoration alternative.	
vii.	Describes the process for monitoring the effectiveness of the preferred restoration action. This includes identifying performance criteria used to determine the success of the restoration or need for interim site stabilization.	
viii.	Identifies a process for public involvement in the selection of the restoration alternative.	
ix.	Provides a detailed cost estimate of the maximum probable costs required to complete a restoration action based on the costs to a third party conducting the action without a financial interest or ownership in the quarry.	

b. Financial Assurance for Restoration

Indicate the amount of financial assurance provided and the financial assurance mechanism used.

i.	Amount of Financial Assurance:	$
ii.	Mechanism:	

c. Technical Demonstration

Indicate that the Technical Demonstration addresses the following, as required by 30 TAC §311.77:

Item		Submitted
i.	Certified by a licensed Texas professional engineer or a licensed Texas professional geoscientist, within the appropriate area or discipline.	
ii.	Provides a time schedule for the quarry from initiation to termination of operations, including reclamation.	
iii.	Provides a detailed description of the type of quarrying to be conducted and the processes/methods employed.	
iv.	Provides a geological description of the quarry area, including the material deposit: type, geographical extent, depth, and volume; and a description of the general area geology.	
v.	Identifies and provides a detailed description of any other operations on-site, include raw-material processing and/or secondary products processing.	
vi.	A topographic map representing the quarry operation and all of the following within the boundaries of the quarry:	

Item				Submitted
	(1)	water bodies;		
	(2)	existing and proposed roads including quarry access roads;		
	(3)	existing and proposed railroads;		
	(4)	the 100 year floodplain boundaries;		
	(5)	structures;		
	(6)	the location of all know wells including water wells, oil wells, and unplugged and abandoned wells;		
	(7)	active, post, and reclaimed quarry areas;		
	(8)	buffer areas;		
	(9)	raw material, intermediate material, final product, waste product, byproduct, and/or ancillary material storage and processing areas;		
	(10)	chemical and fuel storage areas;		
	(11)	vehicle/equipment maintenance, cleaning, and fueling areas;		
	(12)	vehicle/equipment loading and unloading areas;		
	(13)	baghouses and other air treatment units exposed to precipitation;		
	(14)	waste disposal areas.		
vii.	Surface Water Drainage and Water Accumulation Plan (SWDAP).			
	(1)	Describes the use and monitoring of structural controls and best management practices designed to control erosion, siltation, and runoff		
	(2)	Provides a topographic map, at a scale appropriate to represent the quarry operation and all of the following within the boundaries of the quarry:		
		(A)	the location of each process wastewater and/or storm water outfall;	
		(B)	an outline of the drainage area that contributes storm water to each outfall;	
		(C)	treatment, detention, and water storage tanks and ponds;	
		(D)	structural controls for managing storm water and/or process wastewater;	
		(E)	physical features of the site that would influence storm water runoff or contribute a dry weather flow.	
viii.	Best Available Technology Evaluation (BATE).			
	(1)	Assesses the use of structural controls and best management practices.		
	(2)	Evaluates performance criteria outlined at 30 TAC §§311.79 and 311.80.		
	(3)	Structural control design and construction is certified by a licensed Texas professional engineer. *Design and construction plan/specification must be maintained on site.*		
ix.	A procedure and schedule for reviewing the Technical Demonstration of consistency with quarry operations and site conditions and effectiveness in controlling erosion, siltation, and runoff.			

d. Reclamation Plan

Indicate that the Reclamation Plan addresses the following, as required by 30 T AC §311.78:

Item			Submitted
i.	Certified by a licensed Texas professional engineer or a licensed Texas professional geoscientist, within the appropriate area or discipline.		
ii.	Provides a description of the proposed use for the disturbed area following reclamation.		
iii.	Develops site-specific standard for reclamation appropriate to the end use that addresses the following:		
	(1)	removal or final stabilization of all raw material, intermediate material, final product, waste product, byproduct, and/or ancillary material;	
	(2)	removal of waste or closure of all waste disposal areas;	
	(3)	removal of structures, where appropriate;	
	(4)	removal and reclamation of all temporary roads and/or railroads;	
	(5)	backfilling, regarding, and recontouring;	
	(6)	slope stability for remaining highwalls and detention ponds;	
	(7)	revegetation of the reclaimed area giving consideration to species diversity and the use of native species;	
	(8)	establishment of wildlife habitat;	
	(9)	establishment of drainage patterns;	
	(10)	establishments of permanent control structures, where necessary, to address erosion, siltation, and runoff from post quarrying and reclaimed areas;	
	(11)	removal of all equipment.	
iv.	Provides a description of how reclamation will be conducted and a timetable for the completion of reclamation activities.		

e. Financial Assurance for Reclamation

Indicate the amount of financial assurance provided and the financial assurance mechanism used.

i.	Amount of Financial Assurance:	$
ii.	Mechanism:	

OUTFALL: 003

Latitude			Longitude			Location Description
29	28	45	95	38	30	Where discharge canal enters Smithers Lake
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
2121	N/A		N/A	N/A		24 (hrs./day) _____ (days/mo.) 12 (mo./year)
___ Pumped ☐ Gravity			Measurement Device: Est - Pump Run Time			___Intermittent ___Seasonal ☑ Continuous

Contributing Wastestreams:	Volume (MGD)	% of Total Flow
Condenser Cooling Water	1325.6677*	99
Previously Monitored Effluents (Outfalls: 103, 203, 303,		
403, 503, 603, 703, 803, 903, 113 & 123)	13.875	1
*two year average 9/1/10-8/31/12		

OUTFALL: 004

Latitude			Longitude			Location Description
29	29	45	95	38	00	Where discharge pipe empties into Smithers Lake
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
1.296	2.6		N/A	N/A		_____ (hrs./day) _____ (days/mo.) Variable (mo./year)
☐ Pumped ☑ Gravity			Measurement Device: Est - Pump Run Time			☑ Intermittent ___Seasonal ___Continuous

Contributing Wastestreams:	Volume (MGD)	% of Total Flow
Stormwater Runoff from Ash Disposal Area	0.8611*	100
*two year average 9/1/10-8/31/12		

OUTFALL: 103

Latitude			Longitude			Location Description
29	38	43	95	38	16	Approximate location of monitoring location, prior entering Outfall 003
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		N/A	N/A		24 (hrs./day) _____ (days/mo.) Variable (mo./year)
☑ **Pumped** ☐ **Gravity**			**Measurement Device:** Totalizer			☑ **Intermittent** ☐ **Seasonal** ☐ **Continuous**

Contributing Wastestreams:	**Volume (MGD)**	**% of Total Flow**
Metal Cleaning Waste	**	10
Boiler Blowdown (Units 1-6)	**	80
Ash Transport Water	**	10
*two year average 9/1/10-8/31/12		

OUTFALL: 203

Latitude			Longitude			Location Description
29	38	43	95	38	16	Where discharge pipe empties into Smithers Lake
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		N/A	N/A		_____ (hrs./day) _____ (days/mo.) Variable (mo./year)
☑ **Pumped** ☐ **Gravity**			**Measurement Device:** Totalizer			☑ **Intermittent** ☐ **Seasonal** ☐ **Continuous**

Contributing Wastestreams:	**Volume (MGD)**	**% of Total Flow**
Low Volume Waste Sources (Units 1-8)	0.6251*	90
Ash Transport Water	0.0694*	10
*two year average 9/1/10-8/31/12		

OUTFALL: 303

Latitude			Longitude			Location Description
29	28	47	95	38	12	Approximate location of monitoring location, prior entering Outfall 003
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		N/A	N/A		24 (hrs./day) _____ (days/mo.) Variable (mo./year)
☐ Pumped ☐ Gravity			Measurement Device: Est. pump run time			☑ Intermittent ☐ Seasonal ☐ Continuous

Contributing Wastestreams:	Volume (MGD)	% of Total Flow
Low Volume Waste Source	0.0053*	100
Boiler Blowdown (Units 1-6)	**	80
Ash Transport Water	**	10
*two year average 9/1/10-8/31/12		

OUTFALL: 403

Latitude			Longitude			Location Description
29	28	28	95	38	11	Approximate location of monitoring location, prior entering Outfall 003
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		N/A	N/A		_____ (hrs./day) _____ (days/mo.) Variable (mo./year)
☐ Pumped ☑ Gravity			Measurement Device: Totalizer			☑ Intermittent ☐ Seasonal ☐ Continuous

Contributing Wastestreams:	Volume (MGD)	% of Total Flow
Low Volume Waste Sources (Units 5&6 auxiliary cooling towers)	0.0779*	100
Ash Transport Water	0.0694*	10
*two year average 9/1/10-8/31/12		

OUTFALL: 503

Latitude			Longitude			Location Description
29	28	26	95	37	58	Approximate location of monitoring location, prior entering Outfall 003
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		N/A	N/A		24 (hrs./day) _____ (days/mo.) Variable (mo./year)
☐ **Pumped** ☑ **Gravity**			**Measurement Device:** Est. based on weir			☑ **Intermittent** ☐ **Seasonal** ☐ **Continuous**

Contributing Wastestreams:	**Volume (MGD)**	**% of Total Flow**
Cooling Tower Blowdown (Units 7&8)	13.5897*	100
Low Volume Waste Sources	Variable	Variable
Ash Transport Water	**	10
*two year average 9/1/10-8/31/12		

OUTFALL: 603

Latitude			Longitude			Location Description
29	30	11	95	38	47	Location of discharge pipe entering 7/8 intake canal
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		N/A	N/A		_____ (hrs./day) _____ (days/mo.) Variable (mo./year)
☑ **Pumped** ☐ **Gravity**			**Measurement Device:** Est. In-Line Meter			☑ **Intermittent** ☐ **Seasonal** ☐ **Continuous**

Contributing Wastestreams:	**Volume (MGD)**	**% of Total Flow**
Low Volume Waste Sources (from Units 7&8)	**	5
Metal Cleaning Waste	**	5
Ash Transport Water	**	90
*two year average 9/1/10-8/31/12		

OUTFALL: 703

Latitude			Longitude			Location Description
29	30	11	95	38	47	Where discharge pipe enters into 7/8 intake canal
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		N/A	N/A		24 (hrs./day) _____ (days/mo.) Variable (mo./year)
✔ **Pumped** ☐ **Gravity**			**Measurement Device:** Est. In-Line Meter			✔ **Intermittent** ☐ **Seasonal** ☐ **Continuous**

Contributing Wastestreams:	**Volume (MGD)**	**% of Total Flow**
Low Volume Waste Sources (from Units 1 - 8)	0.1579*	90
Ash Transport Water	0.0175*	10
Ash Transport Water	**	10
*two year average 9/1/10-8/31/12		

OUTFALL: 803

Latitude			Longitude			Location Description
29	28	47	95	38	6	Approximate location of monitoring point, prior entering Outfall 003
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		N/A	N/A		_____ (hrs./day) _____ (days/mo.) Variable (mo./year)
✔ **Pumped** ☐ **Gravity**			**Measurement Device:** Est. Pump Run Time			✔ **Intermittent** ☐ **Seasonal** ☐ **Continuous**

Contributing Wastestreams:	**Volume (MGD)**	**% of Total Flow**
Low Volume Waste Sources (from Units 7&8)	0.0039*	100
Metal Cleaning Waste	**	5
Ash Transport Water	**	90
*two year average 9/1/10-8/31/12		

OUTFALL: 903

Latitude			Longitude			Location Description
29	29	00	95	38	15	Approximate location of monitoring location, prior entering Outfall 003
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		N/A	N/A		24 (hrs./day) _____ (days/mo.) 12 (mo./year)
☐ Pumped ☐ Gravity			**Measurement Device:** Est. Pump Run Time			☐ Intermittent ☐ Seasonal ☑ Continuous

Contributing Wastestreams:	Volume (MGD)	% of Total Flow
Domestic Wastewater	0.0024*	100
Ash Transport Water	0.0175*	10
Ash Transport Water	**	10
*two year average 9/1/10-8/31/12		

OUTFALL: 113

Latitude			Longitude			Location Description
29	28	45	95	38	15	Approximate location of monitoring location, prior entering Outfall 003
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		N/A	N/A		24 (hrs./day) _____ (days/mo.) 12 (mo./year)
☐ Pumped ☑ Gravity			**Measurement Device:** Est. Pump Run Time			☑ Intermittent ____Seasonal ____Continuous

Contributing Wastestreams:	Volume (MGD)	% of Total Flow
Domestic Wastewater	0.0050*	100
Metal Cleaning Waste	**	5
Ash Transport Water	**	90
*two year average 9/1/10-8/31/12		

OUTFALL: 123

Latitude			Longitude			Location Description
29	29	00	95	38	15	Approximate location of monitoring location, prior entering Outfall 003
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		1.4	1.4		24 (hrs./day) 7 (days/mo.) 12 (mo./year)
☐ Pumped ☐ Gravity			**Measurement Device:** Est. based on weir			☐ Intermittent ☐ Seasonal ☑ Continuous

Contributing Wastestreams:	Volume (MGD)	% of Total Flow
Cooling Tower Blowdown (Carbon Capture System)	1.4	100
Low Volume Waste Sources	Variable	Variable
Ash Transport Water	**	10
*two year average 9/1/10-8/31/12		

OUTFALL: 113

Latitude			Longitude			Location Description
29	28	45	95	38	15	Approximate location of monitoring location, prior entering Outfall 003
Permitted Flow (MGD)			**Proposed Flow (MGD)**			
Dly Avg	**Dly Max**		**Dly Avg**	**Dly Max**		**Discharge Duration**
Report	Report		N/A	N/A		24 (hrs./day) _____ (days/mo.) 12 (mo./year)
☐ Pumped ☐ Gravity			**Measurement Device:** Est. Pump Run Time			☑ Intermittent ____Seasonal ____Continuous

Contributing Wastestreams:	Volume (MGD)	% of Total Flow
Domestic Wastewater	0.0050*	100
Metal Cleaning Waste	**	5
Ash Transport Water	**	90
*two year average 9/1/10-8/31/12		

APPENDIX WS 1.0-3

Cross Reference Technical Report, page 1-2

3. Process/Non-Process Wastewater Flows: Provide a breakdown of process wastewater flow(s) and non-process wastewater flow(s) as directed.

For Steam Electric Generating Stations (*Not all waste streams are generated at this facility):

1. Process Wastewater
   - A. Chemical Metal Cleaning Wastewater
   - B. Coal Pile Runoff
   - C. Ash Management Area Runoff

2. Non-Process Wastewater
   - A. Utility Wastewater
     1) Once Through Cooling Water
     2) Cooling Tower Blowdown
     3) Non-Chemical Metal Cleaning Wastewater
     4) Low Volume Wastewater, including flows from the following sources:
        - a. Floor Drainage
        - b. Boiler Blowdown
        - c. Ion Exchange Water Treatment Systems
        - d. Reverse Osmosis Water Treatment Systems*
        - e. Recirculating Service Water Systems
        - f. Wet Scrubber Air Pollution Control Systems
        - g. Laboratory and Sampling Streams
        - h. Cooling Tower Basin Cleaning Wastes
   - B. Domestic Wastewater
   - C. Air Conditioning Condensate

APPENDIX WS2.0-CL

If any of the analyses in this application are performed by a contract laboratory or a consulting firm, provide the name, address, and telephone number for each laboratory and/or firm. Also specify which pollutants were analyzed by which laboratory/firm.

Total Residual Chlorine, Temperature, Dissolved Oxygen, and pH were analyzed by:

NRG Texas LLC
W. A. Parish Electric Generating Station Laboratory
2500 Y.U. Jones Road
Thompsons, TX 77481
(281) 343-2021

All other analyses were performed by:

Test America
6310 Rothway Drive
Houston, TX 77040
(713) 690-4444

Note: There was no discharge form Outfall 002 during the permit renewal.

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

REQUIRED FO R A PPLICATIONS S UBMITTED FO R A T PDES PER MIT. N OT REQUIRED FO R APPLICATIONS F OR A PER MIT T O D ISPOSE O F ALL WASTEWATER BY LAND DISPOSAL OR FOR DISCHARGES SOLELY OF STORM WATER RUNOFF. (General Requirements: Instructions, Pages 49-51)

1. TABLE 1: Complete table required for all external outfalls.

Outfall No.: 001 ☐C ■G	**Effluent Concentration (mg/l)**				
Pollutants	**Samp.**	**Samp.**	**Samp.**	**Samp.**	**Average**
BOD (5-day)	5.01	129	<4.80	<4.80	34.7
CBOD (5-day)	<4.80	4.95	<4.80	<4.80	3.04
Chemical Oxygen Demand	58.9	56.3	56.3	70.5	60.5
Total Organic Carbon	13.0	11.6	12.3	13.1	12.5
Dissolved Oxygen	4.0	12.4	6.3	6.4	7.3
Ammonia Nitrogen	0.128	<0.0994	0.121	<0.0994	0.0871
Total Suspended Solids	33.6	55.0	36.0	43.0	41.9
Nitrate Nitrogen	2.74	<0.0500	0.195	<0.0500	0.7462
Total Organic Nitrogen	2.21	2.10	0.959	3.27	2.13
Total Phosphorus	0.106	0.0970	0.0990	0.0630	0.0912
Oil and Grease	<1.43	<1.44	1.80	<1.43	0.9875
Total Residual Chlorine	0.06	0.06	0.1	0.08	0.07
Total Dissolved Solids	1250	1240	1230	1550	1317.5
Sulfate	439	435	450	353	419.25
Chloride	378	384	398	311	367.75
Fluoride	0.789	0.517	0.834	0.628	0.692
Fecal Coliform	<10	<10	10	40	15
Temperature (°F)	89.4	91.6	90.9	86.2	89.5
pH (Standard Units; min/max)	7.72	8.77	8.6	8.83	8.48

	Effluent Concentration (µg/l)					**MAL (µg/l)**
Total Aluminum	391	594	406	721	528	30
Total Antimony	<30	14.2	<30	<30	14.8	30
Total Arsenic	8.60	11.2	7.50	9.60	9.22	10
Total Barium	198	197	206	192	198.25	10
Total Beryllium	<5	<5	<5	<5	<5	5
Total Cadmium	<1	1.50	<1	<1	0.75	1
Total Chromium	<10	1.80	<10	<10	4.2	10
Trivalent Chromium	<10	<10	<10	<10	<10	N/A
Hexavalent Chromium	<10	<10	<10	<10	<10	10
Total Copper	8.20	7.00	5.30	6.10	6.65	10
Cyanide	<20	<20	<20	2.49	8.12	20
Total Lead	<5	<5	<5	<5	<5	5
Total Mercury	<0.2	0.0344	<0.2	<0.2	0.0836	0.2
Total Nickel	5.00	7.90	4.50	3.20	5.15	10
Total Selenium	<10	<10	<10	<10	<10	10
Total Silver	<2.0	<2.0	<2.0	<2.0	<2.0	2.0
Total Thallium	<10	<10	<10	<10	<10	10
Total Zinc	34.2	7.50	23.3	6.00	17.75	5

2. TABLE 2:

Complete table required for all external outfalls which discharge process wastewater. Partial table required for all external outfalls with nonprocess wastewater discharges. Stormwater runoff discharges commingled with other wastestreams shall complete the table as instructed (Instructions, Pages 49-51).

Outfall No.: 001 ☐C ☐G		Effluent Concentration (µg/l) (*1)				
Pollutants	**Samp. 1**	**Samp. 2**	**Samp 3.**	**Samp. 4**	**Average**	**MAL (µg/l)**
Benzene	<10	<10	<10	<10	<10	10
Benzidine	<50	<50	<50	<50	<50	50
Benzo(a)anthracene	<10	<10	<10	<10	<10	10
Benzo(a)pyrene	<10	<10	<10	<10	<10	10
Carbon Tetrachloride	<10	<10	<10	<10	<10	10
Chlorobenzene	<10	<10	<10	<10	<10	10
Chloroform	<10	<10	<10	<10	<10	10
Chrysene	<10	<10	<10	<10	<10	10
Cresols	<50	<50	<50	<50	<50	(*2)
Dibromochloromethane	<10	<10	<10	<10	<10	10
1,2-Dibromoethane	<2	<2	<2	<2	<2	2
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	10
1,2-Dichloroethane	<10	<10	<10	<10	<10	10
1,1-Dichloroethylene	<10	<10	<10	<10	<10	10
Fluoride	0.789	0.517	0.834	0.628	0.692	500
Hexachlorobenzene	<10	<10	<10	<10	<10	10
Hexachlorobutadiene	<10	<10	<10	<10	<10	10
Hexachloroethane	<20	<20	<20	<20	<20	20
Methyl Ethyl Ketone	<50	<50	<50	<50	<50	50
Nitrobenzene	<10	<10	<10	<10	<10	10
n-Nitrosodiethylamine	<20	<20	<20	<20	<20	20
n-Nitroso-di-n-Butylamine	<20	<20	<20	<20	<20	20
PCB's, Total (*3)	<1	<1	<1	<1	<1	1
Pentachlorobenzene	<20	<20	<20	<20	<20	20
Pentachlorophenol	<50	<50	<50	<50	<50	50
Phenanthrene	<10	<10	<10	<10	<10	10
Pyridine	<20	<20	<20	<20	<20	20
1,2,4,5-Tetrachlorobenzene	<20	<20	<20	<20	<20	20
Tetrachloroethylene	<10	<10	<10	<10	<10	10
Trichloroethylene	<10	<10	<10	<10	<10	10
1,1,1-Trichloroethane	<10	<10	<10	<10	<10	10
2,4,5-Trichlorophenol	<50	<50	<50	<50	<50	50
TTHM (Total Trihalmethanes)	<10	<10	<10	<10	<10	10
Vinyl Chloride	<10	<10	<10	<10	<10	10

(*1) Indicates units if different from µg/l.
(*2) MAL's for Cresols: p-Chloro-m-Creso 10 µg/l; 4,6-Dinitro-o-Cresol 50 µg/l; p-Cresol 10 µg/l.
(*3) Total PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016.

a. LABORATORY ACCREDITATION:

Effective July 1, 2008, all laboratory tests performed must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification with the following general exemptions:

i. The laboratory is an in-house laboratory and is:
   1. periodically inspected by the TCEQ; or
   2. located in another state and is accredited or inspected by that state; or
   3. performing work for another company with a unit located in the same site; or
   4. performing pro bono work for a governmental agency or charitable organization.

ii. The laboratory is accredited under federal law.

iii. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

iv. The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements. The following certification statement shall be signed and submitted with very application. See Instructions, Page 30, for a list of designated representatives who may sign the certification.

I, Tim Gessner certify that all laboratory tests submitted with this application meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. TABLE 3:

Partial table (only those pollutants which are required by the conditions specified) required for each external outfall. Not required for internal outfalls. (Instructions, Pages 49-51)

a. TRIBUTYLTIN:

Is your facility or will your proposed facility be an industrial/commercial facility which directly disposes of wastewater from the types of operations listed below or a domestic facility which receive wastewater from the types of industrial/commercial operations listed below? ☐ Yes ☑ No

If **yes**, indicate with a check mark all of the following criteria which apply and provide the appropriate testing results in the table below.

☐ Manufacturers and formulators of tributyltin or related compounds.
☐ Painting of ships, boats and marine structures.
☐ Ship and boat building and repairing.
☐ Ship and boat cleaning, salvage, wrecking and scaling.
☐ Operation and maintenance of marine cargo handling facilities and marinas
☐ Facilities engaged in wood preserving
☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. ENTEROCOCCI

Does your facility or will your proposed facility discharge directly into saltwater receiving waters?

☐ Yes ☑ No

If **yes**, provide the appropriate testing results in the table below.

TABLE 3

Outfall No.:	**□C □G**	**Effluent Concentration (µg/l)**					
Pollutants		**Samp. 1**	**Samp.**	**Samp.**	**Samp.**	**Averag**	**MAL**
Tributyltin							0.010
Enterococci							N/A

4. TABLE 4:

Complete table r equired f or all external outfalls which discharge process wastewater and other wastewaters, which way contain pesticides or herbicides, from a facility which manufactures or formulates pesticides or herbicides. Not required for internal outfalls. (Instructions, Page 52)

Does your facility manufacture or formulate pesticides or herbicides? ☐ Yes ☑ No

If **yes**, provide the appropriate testing results.

TABLE 4

Outfall No.: ☐C ☐G	Effluent Concentration (µg/l) (*1)					MAL (µg/l)
Pollutants	**Samp. 1**	**Samp. 2**	**Samp. 3**	**Samp. 4**	**Avg.**	
Beta-hexachlorocyclohexane						0.05
Carbaryl						5
Chlordane						0.15
Chlorpyrifos						0.05
2,4-D						10
Danitol						----
4,4'-DDD						0.1
4,4'-DDE						0.1
4,4'-DDT						0.1
Demeton						0.2
Diazinon						0.5
Dicofol						20
Dieldrin						0.1
Diuron						0.09
Endosulfan I (alpha)						0.1
Endosulfan II (beta)						0.1
Endosulfan Sulfate						0.1
Endrin						0.1
Gamma - Hexachlorocyclohexane (Lindane)						0.05
Guthion						0.10
Heptachlor						0.05
Heptachlor Epoxide						1.0
Hexachlorophene						10
Malathion						0.10
Methoxychlor						2.0
Mirex						0.2
Parathion						0.1
Toxaphene						5
2,4,5-TP (Silvex)						2

* Indicate units if different from mg/L.

5. TABLE 5:

Complete table required for all external outfalls. Not required for internal outfalls. (Instructions, Page 52)

TABLE 5

Outfall No.: 001 □C □G	Believed Present	Believed Absent	Effluent Concentration (mg/l)		
Pollutants			**Average**	**Maximum**	**No. of Samples**
Bromide		X			
Color(PCU)		X			
Nitrate-Nitrite(as N)	X		0.7462	2.74	4
Sulfide(as S)		X			
Sulfite(as SO_3)		X			
Surfactants		X			
Total Antimony	X		5.9125	14.2	4
Total Beryllium	X		<1.34	<1.34	4
Total Boron	X		497	530	4
Total Cobalt		X			
Total Iron	X		275.75	336	4
Total Magnesium	X		35625	36300	4
Total Molybdenum		X			
Total Manganese	X		75.2	80.4	4
Total Thallium	X		<7.84	<7.84	4
Total Tin		X			
Total Titanium		X			

6. TABLE 6:

Indicate with a check mark any of the industrial caategories applicable to your facility. If testing is required, indicate with a check mark in the box provided that the testing results for the appropriate parameters in Table B-7 are provided with the application. (Instructions, Page 52)

_____N/A	GC/MS Testing Required			
	Volatile	**Acid**	**Base/Neutral**	**Pesticides**
_____ Adhesives and Sealants	Yes ☐	Yes ☐	Yes ☐	No
_____ Aluminum Forming	Yes ☐	Yes ☐	Yes ☐	No
_____ Auto and Other Laundries	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Battery Manufacturing	Yes ☐	No	Yes ☐	No
_____ Coal Mining	No	No	No	No
_____ Coil Coating	Yes ☐	Yes ☐	Yes ☐	No
_____ Copper Forming	Yes ☐	Yes ☐	Yes ☐	No
_____ Electric and Electronic Components	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Electroplating	Yes ☐	Yes ☐	Yes ☐	No
_____ Explosives Manufacturing	No	Yes ☐	Yes ☐	No
_____ Foundries	Yes ☐	Yes ☐	Yes ☐	No
_____ Gum and Wood Chemicals				
_____Subparts A,B,C,E	Yes ☐	Yes ☐	No	No
_____Subparts D,F	Yes ☐	Yes ☐	Yes ☐	No
_____ Inorganic Chemicals	Yes ☐	Yes ☐	Yes ☐	No
_____ Iron and Steel Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Leather Tanning/Finishing	Yes ☐	Yes ☐	Yes ☐	No
_____ Mechanical Products Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Nonferrous Metals Mfg.	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Ore Mining(Subpart B)	No	Yes ☐	No	No
_____ Organic Chemicals, Plastics, and Synthetic Fibers	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Paint and Ink Formulation	Yes ☐	Yes ☐	Yes ☐	No
_____ Pesticides	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Petroleum Refining	Yes ☐	No	No	No
_____ Pharmaceutical Preparations	Yes ☐	Yes ☐	Yes ☐	No
_____ Photographic Equipment and Supplies	Yes ☐	Yes ☐	Yes ☐	No
_____ Plastic and Synthetic Materials Manufacturing	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Plastic Processing	Yes ☐	No	No	No
_____ Porcelain Enameling	No	No	No	No
_____ Printing and Publishing	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Pulp and Paperboard Mills				
_____Subparts A	* ☐	Yes ☐	* ☐	Yes ☐
_____Subparts B, C, D, R	* ☐	Yes ☐	* ☐	* ☐
_____Subparts F, G, H, I, K, L, M, N, O, P	Yes ☐	Yes ☐	* ☐	* ☐
_____Subparts E, Q, S, T	Yes ☐	Yes ☐	* ☐	Yes ☐
_____Subparts J, U	Yes ☐	Yes ☐	Yes ☐	* ☐
_____Rubber Processing	Yes ☐	Yes ☐	Yes ☐	No
_____Soap and Detergent Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Steam Electric Power Plants	Yes ☐	Yes ☐	No	No
_____ Textile Mills (Not Subpart C)	Yes ☐	Yes ☐	Yes ☐	No
_____ Timber Products Processing	Yes ☐	Yes ☐	Yes ☐	Yes ☐

* Test if "believed present"

7. TABLE 7:

Please complete as directed and only for those parameters specified in Table 6 . Required for all external outfalls which contain process wastewater. Not required for internal outfalls. Testing may be required for types of industry not specified in Table 6 for specific parameters if believed present (Instructions, Pages 52-53).

TABLE 7

Outfall No.: 001 ☐C ☐G	Effluent Concentration (µg/l)*			
Pollutants / **VOLATILE COMPOUNDS**	**Average**	**Maximum**	**Number of Samples**	**MAL (µg/l)**
Acrolein	<50	<50	4	50
Acrylonitrile	<50	<50	4	50
Benzene	<10	<10	4	10
Bromoform	<10	<10	4	10
Carbon Tetrachloride	<10	<10	4	10
Chlorobenzene	<10	<10	4	10
Chlorodibromomethane	<10	<10	4	10
Chloroethane	<50	<50	4	50
2-Chloroethylvinyl Ether	<10	<10	4	10
Chloroform	<10	<10	4	10
Dichlorobromomethane	<10	<10	4	10
1,1-Dichloroethane	<10	<10	4	10
1,2-Dichloroethane	<10	<10	4	10
1,1-Dichloroethylene	<10	<10	4	10
1,2-Dichloropropane	<10	<10	4	10
1,3-Dichloropropylene	<10	<10	4	10
Ethylbenzene	<10	<10	4	10
Methyl Bromide	<50	<50	4	50
Methyl Chloride	<50	<50	4	50
Methylene Chloride	<20	<20	4	20
1,1,2,2-Tetrachloroethane	<10	<10	4	10
Tetrachloroethylene	<10	<10	4	10
Toluene	<10	<10	4	10
1,2-Trans-Dichloroethylene	<10	<10	4	10
1,1,1-Trichloroethane	<10	<10	4	10
1,1,2-Trichloroethane	<10	<10	4	10
Trichloroethylene	<10	<10	4	10
Vinyl Chloride	<10	<10	4	10

Pollutants	Effluent Concentration (µg/l)*			
	Average	Maximum	Number of Samples	MAL (µg/l)
ACID COMPOUNDS				
2-Chlorophenol	<10	<10	4	10
2,4-Dichlorophenol	<10	<10	4	10
2,4-Dimethylphenol	<10	<10	4	10
4,6-Dinitro-o-Cresol	<50	<50	4	50
2,4-Dinitrophenol	<50	<50	4	50
2-Nitrophenol	<20	<20	4	20
4-Nitrophenol	<50	<50	4	50
P-Chloro-m-Cresol	<10	<10	4	10
Pentalchlorophenol	<50	<50	4	50
Phenol	<10	<10	4	10
2,4,6-Trichlorophenol	<10	<10	4	10
BASE/NEUTRAL COMPOUNDS				
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				10
Benzo(a)Pyrene				10
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				10
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butylbenzyl Phthalate				10
2-chloronaphthalene				10
4-chlorophenyl phenyl ether				10
Chrysene				10
Dibenzo(a,h)Anthracene				20
1,2-Dichlorobenzene				10
1,3-Dichlorobenzene				10
1,4-Dichlorobenzene				10
3,3-Dichlorobenzidine				50
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitroluene				10
Di-n-Octyl Phthalate				10

	Effluent Concentration (µg/l)*			
Pollutants	**Average**	**Maximum**	**No. of Samples**	**MAL (µg/l)**
BASE/NEUTRAL COMPOUNDS (cont.)				
1,2-Diphenyl Hydrazine (as Azobenzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				10
Hexachlorobutadiene				10
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				20
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10
PESTICIDES				
Aldrin				0.05
alpha-BHC				0.05
beta-BHC				0.05
gamma-BHC				0.05
delta-BHC				0.05
Chlordane				0.15
4,4-DDT				0.1
4,4-DDE				0.1
Dieldrin				0.1
alpha-Endosulfan				0.1
beta-Endosulfan				0.1
Endosulfan Sulfate				0.1
Endrin				0.1
Endrin Aldehyde				0.1
Heptachlor				0.05
Heptachlor Epoxide				
PCB-1254				1.0
PCB-1221				1.0
PCB-1242				
PCB-1232				1.0
PCB-1248				1.0
PCB-1260				1.0
PCB-1016				1.0
Toxaphene				5.0

*** Indicate units if different from µg/l**

8. TABLE 8 (DIOXINS/FURAN COMPOUNDS):

Please complete as directed. Not required for internal outfalls. (Instructions, Pages 53-54)

a. Are any of the following compounds manufactured and/or u sed in a process at t he facility? ☐ Yes ☑ No

If **yes**, i ndicate w ith a ch eck mark the compound(s) which apply and provide a brief description of the conditions of its/their presence at the facility.

☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CAS #93-76-5
☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CAS #93-72-1
☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CAS #136-25-4
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CAS #299-84-3
☐ 2,4,5-trichlorophenol (TCP) CAS #95-95-4
☐ Hexachlorophene (HCP) CAS #70-30-4

b. Do y ou k now or have a ny reason to b elieve that 2, 3,7,8 Te trachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent? ☐ Yes ☑ No

If **yes,** provide a brief description of the conditions for its presence.

c. If your responded **yes** to either item **a** or **b**, complete **Table 8** as instructed.

TABLE 8

Outfall No. _____	☐C ☐G	Wastewater		Sludge		MAL (ppq)
Compound	Equivalent Factors	Concentration (ppq)	Equivalents (ppq)	Concentration (ppt)	Equivalents (ppt)	
2,3,7,8-TCDD	1					10.0
1,2,3,7,8-PeCDD	0.5					50.0
2,3,7,8-HxCDDs	0.1					50.0
2,3,7,8-TCDF	0.1					10.0
1,2,3,7,8-PeCDF	0.05					50.0
2,3,4,7,8-PeCDF	0.5					50.0
2,3,7,8-HxCDFs	0.1					50.0
Total						

9. TABLE 9 (HAZARDOUS SUBSTANCES):

Proceed complete as directed. Not required for internal outfalls. (Instructions, Pages 55)

a. Are there any pollutants listed in the instructions (page 55) believed present in the discharge?

☐Yes ☑No

b. Are there pollutants listed in Item No. 1.d. on Page No. 1 of this technical report which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

☐Yes ☑No

If your responded **yes** to either item, complete **Table 9** as instructed.

TABLE 9

Pollutant & CAS Number	Average (µg/l)	Maximum (µg/l)	No. of Samples	Analytical Method

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

REQUIRED FO R A PPLICATIONS S UBMITTED FO R A T PDES PER MIT. N OT REQUIRED FO R APPLICATIONS F OR A PER MIT T O D ISPOSE O F ALL WASTEWATER BY LAND DISPOSAL OR FOR DISCHARGES SOLELY OF STORM WATER RUNOFF. (General Requirements: Instructions, Pages 49-51)

1. TABLE 1: Complete table required for all external outfalls.

Outfall No.: 003 ☐C ■G	**Effluent Concentration (mg/l)**					
Pollutants	**Samp.**	**Samp.**	**Samp.**	**Samp.**	**Average**	
BOD (5-day)	<4.80	4.90	<4.80	5.62	3.83	
CBOD (5-day)	<4.80	<4.80	<4.80	<4.80	<4.80	
Chemical Oxygen Demand	51.1	56.3	40.8	75.6	55.95	
Total Organic Carbon	12.4	12.9	11.5	13.2	12.5	
Dissolved Oxygen	8.2	11.3	11.1	6.1	9.2	
Ammonia Nitrogen	<0.0994	0.181	<0.0994	<0.0994	0.0825	
Total Suspended Solids	30.4	38.0	33.2	27.0	32.15	
Nitrate Nitrogen	2.63	2.27	0.211	<0.0500	1.284	
Total Organic Nitrogen	2.07	<0.376	2.16	2.73	1.787	
Total Phosphorus	0.125	0.0540	0.106	0.0410	0.0815	
Oil and Grease	<1.43	<1.46	<1.43	<1.50	0.7275	
Total Residual Chlorine	<0.01	<0.01	<0.01	<0.01	<0.01	
Total Dissolved Solids	1260	1330	1250	1410	1312.5	
Sulfate	442	428	432	350	413	
Chloride	369	375	364	308	354	
Fluoride	0.772	0.796	0.821	0.628	0.754	
Fecal Coliform	<10	<10	<10	<10	<10	
Temperature (°F)	95.2	102.0	100.4	88.5	96.5	
pH (Standard Units; min/max)	8.76	8.58	8.62	8.74	8.67	

	Effluent Concentration (µg/l)					**MAL (µg/l)**
Total Aluminum	448	560	355	725	522	30
Total Antimony	<30	<30	<30	<30	<30	30
Total Arsenic	9.50	8.90	8.70	10.8	9.475	10
Total Barium	198	202	216	211	206.75	10
Total Beryllium	<5	<5	<5	<5	<5	5
Total Cadmium	<1	<1	<1	<1	<1	1
Total Chromium	<10	<10	<10	<10	<10	10
Trivalent Chromium	<10	4.00	<10	<10	4.75	N/A
Hexavalent Chromium	<10	4.00	<10	<10	4.75	10
Total Copper	6.70	7.10	7.20	6.00	6.75	10
Cyanide	<20	<20	<20	2.78	8.195	20
Total Lead	<5	<5	<5	<5	<5	5
Total Mercury	<0.2	0.0350	<0.2	<0.2	0.0837	0.2
Total Nickel	4.80	4.70	4.40	3.20	4.275	10
Total Selenium	<10	<10	<10	<10	<10	10
Total Silver	<2.0	<2.0	<2.0	<2.0	<2.0	2.0
Total Thallium	<10	<10	<10	<10	<10	10
Total Zinc	19.5	5.80	7.50	6.00	9.7	5

2. TABLE 2:

Complete table required for all external outfalls which discharge process wastewater. Partial table required for all external outfalls with nonprocess wastewater discharges. Stormwater runoff discharges commingled with other wastestreams shall complete the table as instructed (Instructions, Pages 49-51).

Outfall No.: 003 ☐C ▣G		Effluent Concentration (µg/l) (*1)				
Pollutants	**Samp. 1**	**Samp. 2**	**Samp 3.**	**Samp. 4**	**Average**	**MAL (µg/l)**
Benzene	<10	<10	<10	<10	<10	10
Benzidine	<50	<50	<50	<50	<50	50
Benzo(a)anthracene	<10	<10	<10	<10	<10	10
Benzo(a)pyrene	<10	<10	<10	<10	<10	10
Carbon Tetrachloride	<10	<10	<10	<10	<10	10
Chlorobenzene	<10	<10	<10	<10	<10	10
Chloroform	<10	<10	<10	<10	<10	10
Chrysene	<10	<10	<10	<10	<10	10
Cresols	<50	<50	<50	<50	<50	(*2)
Dibromochloromethane	<10	<10	<10	<10	<10	10
1,2-Dibromoethane	<2	<2	<2	<2	<2	2
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	10
1,2-Dichloroethane	<10	<10	<10	<10	<10	10
1,1-Dichloroethylene	<10	<10	<10	<10	<10	10
Fluoride	0.772	0.796	0.821	0.628	0.754	500
Hexachlorobenzene	<10	<10	<10	<10	<10	10
Hexachlorobutadiene	<10	<10	<10	<10	<10	10
Hexachloroethane	<20	<20	<20	<10	<10	20
Methyl Ethyl Ketone	<50	<50	<50	<50	<50	50
Nitrobenzene	<10	<10	<10	<10	<10	10
n-Nitrosodiethylamine	<20	<20	<20	<20	<20	20
n-Nitroso-di-n-Butylamine	<20	<20	<20	<20	<20	20
PCB's, Total (*3)	<1	<1	<1	<1	<1	1
Pentachlorobenzene	<20	<20	<20	<20	<20	20
Pentachlorophenol	<50	<50	<50	<50	<50	50
Phenanthrene	<10	<10	<10	<10	<10	10
Pyridine	<20	<20	<20	<20	<20	20
1,2,4,5-Tetrachlorobenzene	<20	<20	<20	<20	<20	20
Tetrachloroethylene	<10	<10	<10	<10	<10	10
Trichloroethylene	<10	<10	<10	<10	<10	10
1,1,1-Trichloroethane	<10	<10	<10	<10	<10	10
2,4,5-Trichlorophenol	<50	<50	<50	<50	<50	50
TTHM (Total Trihalmethanes)	<10	<10	<10	<10	<10	10
Vinyl Chloride	<10	<10	<10	<10	<10	10

(*1) Indicates units if different from µg/l.
(*2) MAL's for Cresols: p-Chloro-m-Creso 10 µg/l; 4,6-Dinitro-o-Cresol 50 µg/l; p-Cresol 10 µg/l.
(*3) Total PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016.

a. LABORATORY ACCREDITATION:

Effective July 1, 2008, all laboratory tests performed must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification with the following general exemptions:

i. The laboratory is an in-house laboratory and is:
   1. periodically inspected by the TCEQ; or
   2. located in another state and is accredited or inspected by that state; or
   3. performing work for another company with a unit located in the same site; or
   4. performing pro bono work for a governmental agency or charitable organization.

ii. The laboratory is accredited under federal law.

iii. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

iv. The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements. The following certification statement shall be signed and submitted with very application. See Instructions, Page 30, for a list of designated representatives who may sign the certification.

I, Tim Gessner certify that all laboratory tests submitted with this application meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. TABLE 3:

Partial table (only those pollutants which are required by the conditions specified) required for each external outfall. Not required for internal outfalls. (Instructions, Pages 49-51)

a. TRIBUTYLTIN:

Is your facility or will your proposed facility be an industrial/commercial facility which directly disposes of wastewater from the types of operations listed below or a domestic facility which receive wastewater from the types of industrial/commercial operations listed below? ☐ Yes ☑ No

If **yes**, indicate with a check mark all of the following criteria which apply and provide the appropriate testing results in the table below.

☐ Manufacturers and formulators of tributyltin or related compounds.
☐ Painting of ships, boats and marine structures.
☐ Ship and boat building and repairing.
☐ Ship and boat cleaning, salvage, wrecking and scaling.
☐ Operation and maintenance of marine cargo handling facilities and marinas
☐ Facilities engaged in wood preserving
☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. ENTEROCOCCI

Does your facility or will your proposed facility discharge directly into saltwater receiving waters?

☐ Yes ☑ No

If **yes**, provide the appropriate testing results in the table below.

TABLE 3

Outfall No.:	**□C □G**	**Effluent Concentration (µg/l)**					
Pollutants		**Samp. 1**	**Samp.**	**Samp.**	**Samp.**	**Averag**	**MAL**
Tributyltin							0.010
Enterococci							N/A

4. TABLE 4:

Complete table r equired f or all external outfalls which discharge process wastewater and other wastewaters, which way contain pesticides or herbicides, from a facility which manufactures or formulates pesticides or herbicides. Not required for internal outfalls. (Instructions, Page 52)

Does your facility manufacture or formulate pesticides or herbicides? ☐ Yes ☑ No

If **yes**, provide the appropriate testing results.

TABLE 4

Outfall No.: ☐C ☐G	Effluent Concentration (µg/l) (*1)					MAL (µg/l)
Pollutants	**Samp. 1**	**Samp. 2**	**Samp. 3**	**Samp. 4**	**Avg.**	
Beta-hexachlorocyclohexane						0.05
Carbaryl						5
Chlordane						0.15
Chlorpyrifos						0.05
2,4-D						10
Danitol						----
4,4'-DDD						0.1
4,4'-DDE						0.1
4,4'-DDT						0.1
Demeton						0.2
Diazinon						0.5
Dicofol						20
Dieldrin						0.1
Diuron						0.09
Endosulfan I (alpha)						0.1
Endosulfan II (beta)						0.1
Endosulfan Sulfate						0.1
Endrin						0.1
Gamma - Hexachlorocyclohexane (Lindane)						0.05
Guthion						0.10
Heptachlor						0.05
Heptachlor Epoxide						1.0
Hexachlorophene						10
Malathion						0.10
Methoxychlor						2.0
Mirex						0.2
Parathion						0.1
Toxaphene						5
2,4,5-TP (Silvex)						2

* Indicate units if different from mg/L.

5. TABLE 5:

Complete table required for all external outfalls. Not required for internal outfalls. (Instructions, Page 52)

TABLE 5

Outfall No.: 003	□C ■G	Believed Present	Believed Absent	Effluent Concentration (mg/l)		
Pollutants				**Average**	**Maximum**	**No. of Samples**
Bromide			X			
Color(PCU)			X			
Nitrate-Nitrite(as N)		X		1.284	2.63	4
Sulfide(as S)			X			
Sulfite(as SO_3)			X			
Surfactants			X			
Total Antimony		X		<6.30	<6.30	4
Total Beryllium		X		<1.34	<1.34	4
Total Boron		X		525	570	4
Total Cobalt			X			
Total Iron		X		221.25	330	4
Total Magnesium		X		35250	37700	4
Total Molybdenum			X			
Total Manganese		X		78.7	85.4	4
Total Thallium		X		<7.84	<7.84	4
Total Tin			X			
Total Titanium			X			

6. TABLE 6:

Indicate with a check mark any of the industrial caategories applicable to your facility. If testing is required, indicate with a check mark in the box provided that the testing results for the appropriate parameters in Table B-7 are provided with the application. (Instructions, Page 52)

_____N/A	GC/MS Testing Required			
	Volatile	**Acid**	**Base/Neutral**	**Pesticides**
_____ Adhesives and Sealants	Yes ☐	Yes ☐	Yes ☐	No
_____ Aluminum Forming	Yes ☐	Yes ☐	Yes ☐	No
_____ Auto and Other Laundries	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Battery Manufacturing	Yes ☐	No	Yes ☐	No
_____ Coal Mining	No	No	No	No
_____ Coil Coating	Yes ☐	Yes ☐	Yes ☐	No
_____ Copper Forming	Yes ☐	Yes ☐	Yes ☐	No
_____ Electric and Electronic Components	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Electroplating	Yes ☐	Yes ☐	Yes ☐	No
_____ Explosives Manufacturing	No	Yes ☐	Yes ☐	No
_____ Foundries	Yes ☐	Yes ☐	Yes ☐	No
_____ Gum and Wood Chemicals				
_____Subparts A,B,C,E	Yes ☐	Yes ☐	No	No
_____Subparts D,F	Yes ☐	Yes ☐	Yes ☐	No
_____ Inorganic Chemicals	Yes ☐	Yes ☐	Yes ☐	No
_____ Iron and Steel Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Leather Tanning/Finishing	Yes ☐	Yes ☐	Yes ☐	No
_____ Mechanical Products Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Nonferrous Metals Mfg.	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Ore Mining(Subpart B)	No	Yes ☐	No	No
_____ Organic Chemicals, Plastics, and Synthetic Fibers	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Paint and Ink Formulation	Yes ☐	Yes ☐	Yes ☐	No
_____ Pesticides	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Petroleum Refining	Yes ☐	No	No	No
_____ Pharmaceutical Preparations	Yes ☐	Yes ☐	Yes ☐	No
_____ Photographic Equipment and Supplies	Yes ☐	Yes ☐	Yes ☐	No
_____ Plastic and Synthetic Materials Manufacturing	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Plastic Processing	Yes ☐	No	No	No
_____ Porcelain Enameling	No	No	No	No
_____ Printing and Publishing	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Pulp and Paperboard Mills				
_____Subparts A	* ☐	Yes ☐	* ☐	Yes ☐
_____Subparts B, C, D, R	* ☐	Yes ☐	* ☐	* ☐
_____Subparts F, G, H, I, K, L, M, N, O, P	Yes ☐	Yes ☐	* ☐	* ☐
_____Subparts E, Q, S, T	Yes ☐	Yes ☐	* ☐	Yes ☐
_____Subparts J, U	Yes ☐	Yes ☐	Yes ☐	* ☐
_____Rubber Processing	Yes ☐	Yes ☐	Yes ☐	No
_____Soap and Detergent Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
✔ Steam Electric Power Plants	Yes ☑	Yes ☑	No	No
_____ Textile Mills (Not Subpart C)	Yes ☐	Yes ☐	Yes ☐	No
_____ Timber Products Processing	Yes ☐	Yes ☐	Yes ☐	Yes ☐

* Test if "believed present"

7. TABLE 7:

Please complete as directed and only for those parameters specified in Table 6 . Required for all external outfalls which contain process wastewater. Not required for internal outfalls. Testing may be required for types of industry not specified in Table 6 for specific parameters if believed present (Instructions, Pages 52-53).

TABLE 7

Outfall No.: 003 ☐C ▣G	Effluent Concentration (µg/l)*			
Pollutants / **VOLATILE COMPOUNDS**	**Average**	**Maximum**	**Number of Samples**	**MAL (µg/l)**
Acrolein	<50	<50	4	50
Acrylonitrile	<50	<50	4	50
Benzene	<10	<10	4	10
Bromoform	<10	<10	4	10
Carbon Tetrachloride	<10	<10	4	10
Chlorobenzene	<10	<10	4	10
Chlorodibromomethane	<10	<10	4	10
Chloroethane	<50	<50	4	50
2-Chloroethylvinyl Ether	<10	<10	4	10
Chloroform	<10	<10	4	10
Dichlorobromomethane	<10	<10	4	10
1,1-Dichloroethane	<10	<10	4	10
1,2-Dichloroethane	<10	<10	4	10
1,1-Dichloroethylene	<10	<10	4	10
1,2-Dichloropropane	<10	<10	4	10
1,3-Dichloropropylene	<10	<10	4	10
Ethylbenzene	<10	<10	4	10
Methyl Bromide	<50	<50	4	50
Methyl Chloride	<50	<50	4	50
Methylene Chloride	<20	<20	4	20
1,1,2,2-Tetrachloroethane	<10	<10	4	10
Tetrachloroethylene	<10	<10	4	10
Toluene	<10	<10	4	10
1,2-Trans-Dichloroethylene	<10	<10	4	10
1,1,1-Trichloroethane	<10	<10	4	10
1,1,2-Trichloroethane	<10	<10	4	10
Trichloroethylene	<10	<10	4	10
Vinyl Chloride	<10	<10	4	10

Pollutants	Effluent Concentration (µg/l)*			
	Average	Maximum	Number of Samples	MAL (µg/l)
ACID COMPOUNDS				
2-Chlorophenol	<10	<10	4	10
2,4-Dichlorophenol	<10	<10	4	10
2,4-Dimethylphenol	<10	<10	4	10
4,6-Dinitro-o-Cresol	<50	<50	4	50
2,4-Dinitrophenol	<50	<50	4	50
2-Nitrophenol	<20	<20	4	20
4-Nitrophenol	<50	<50	4	50
P-Chloro-m-Cresol	<10	<10	4	10
Pentalchlorophenol	<50	<50	4	50
Phenol	<10	<10	4	10
2,4,6-Trichlorophenol	<10	<10	4	10
BASE/NEUTRAL COMPOUNDS				
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				10
Benzo(a)Pyrene				10
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				10
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butylbenzyl Phthalate				10
2-chloronaphthalene				10
4-chlorophenyl phenyl ether				10
Chrysene				10
Dibenzo(a,h)Anthracene				20
1,2-Dichlorobenzene				10
1,3-Dichlorobenzene				10
1,4-Dichlorobenzene				10
3,3-Dichlorobenzidine				50
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitroluene				10
Di-n-Octyl Phthalate				10

	Effluent Concentration (µg/l)*			
Pollutants	**Average**	**Maximum**	**No. of Samples**	**MAL (µg/l)**
BASE/NEUTRAL COMPOUNDS (cont.)				
1,2-Diphenyl Hydrazine (as Azobenzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				10
Hexachlorobutadiene				10
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				20
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10
PESTICIDES				
Aldrin				0.05
alpha-BHC				0.05
beta-BHC				0.05
gamma-BHC				0.05
delta-BHC				0.05
Chlordane				0.15
4,4-DDT				0.1
4,4-DDE				0.1
Dieldrin				0.1
alpha-Endosulfan				0.1
beta-Endosulfan				0.1
Endosulfan Sulfate				0.1
Endrin				0.1
Endrin Aldehyde				0.1
Heptachlor				0.05
Heptachlor Epoxide				
PCB-1254				1.0
PCB-1221				1.0
PCB-1242				
PCB-1232				1.0
PCB-1248				1.0
PCB-1260				1.0
PCB-1016				1.0
Toxaphene				5.0

*** Indicate units if different from µg/l**

8. TABLE 8 (DIOXINS/FURAN COMPOUNDS):

Please complete as directed. Not required for internal outfalls. (Instructions, Pages 53-54)

a. Are any of the following compounds manufactured and/or u sed in a process at t he facility? ☐ Yes ☑ No

If **yes**, i ndicate w ith a ch eck mark the compound(s) which apply and provide a brief description of the conditions of its/their presence at the facility.

☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CAS #93-76-5
☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CAS #93-72-1
☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CAS #136-25-4
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CAS #299-84-3
☐ 2,4,5-trichlorophenol (TCP) CAS #95-95-4
☐ Hexachlorophene (HCP) CAS #70-30-4

b. Do y ou k now or have a ny reason to b elieve that 2, 3,7,8 Te trachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent? ☐ Yes ☑ No

If **yes,** provide a brief description of the conditions for its presence.

c. If your responded **yes** to either item **a** or **b**, complete **Table 8** as instructed.

TABLE 8

Outfall No. _____	☐C ☐G	Wastewater		Sludge		MAL (ppq)
Compound	Equivalent Factors	Concentration (ppq)	Equivalents (ppq)	Concentration (ppt)	Equivalents (ppt)	
2,3,7,8-TCDD	1					10.0
1,2,3,7,8-PeCDD	0.5					50.0
2,3,7,8-HxCDDs	0.1					50.0
2,3,7,8-TCDF	0.1					10.0
1,2,3,7,8-PeCDF	0.05					50.0
2,3,4,7,8-PeCDF	0.5					50.0
2,3,7,8-HxCDFs	0.1					50.0
Total						

9. TABLE 9 (HAZARDOUS SUBSTANCES):

Proceed complete as directed. Not required for internal outfalls. (Instructions, Pages 55)

a. Are there any pollutants listed in the instructions (page 55) believed present in the discharge?

☐Yes ☑No

b. Are there pollutants listed in Item No. 1.d. on Page No. 1 of this technical report which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

☐Yes ☑No

If your responded **yes** to either item, complete **Table 9** as instructed.

TABLE 9

Pollutant & CAS Number	Average (µg/l)	Maximum (µg/l)	No. of Samples	Analytical Method

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

REQUIRED FO R A PPLICATIONS S UBMITTED FO R A T PDES PER MIT. N OT REQUIRED FO R APPLICATIONS F OR A PER MIT T O D ISPOSE O F ALL WASTEWATER BY LAND DISPOSAL OR FOR DISCHARGES SOLELY OF STORM WATER RUNOFF. (General Requirements: Instructions, Pages 49-51)

1. TABLE 1: Complete table required for all external outfalls.

Outfall No.: 004 ☐C ■G	**Effluent Concentration (mg/l)**					
Pollutants	**Samp.**	**Samp.**	**Samp.**	**Samp.**	**Average**	
BOD (5-day)	<4.80	<4.80	<4.80	<4.80	<4.80	
CBOD (5-day)	<4.80	<4.80	<4.80	<4.80	<4.80	
Chemical Oxygen Demand	17.5	<5.94	<5.94	40.3	15.9	
Total Organic Carbon	5.32	6.51	4.94	5.09	5.465	
Dissolved Oxygen	8.1	11.0	9.3	3.3	7.9	
Ammonia Nitrogen	<0.0994	<0.0994	<0.0994	0.194	0.0858	
Total Suspended Solids	5	4	<2	10	5	
Nitrate Nitrogen	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	
Total Organic Nitrogen	1.15	1.18	1.09	<0.376	0.902	
Total Phosphorus	<0.0131	<0.0131	<0.0131	0.129	0.037	
Oil and Grease	<5	<5	<5	<5	<5	
Total Residual Chlorine	0.03	0.08	0.02	0.00	0.03	
Total Dissolved Solids	1990	2110	2020	1370	1872.5	
Sulfate	1280	1340	1310	583	1128.25	
Chloride	167	177	169	69.7	145.675	
Fluoride	0.842	0.808	0.779	0.977	0.8515	
Fecal Coliform	<10	<10	<10	230	61.25	
Temperature (°F)	87.3	89.4	84.2	84.2	86.3	
pH (Standard Units; min/max)	8.03	7.50	7.64	6.54	7.43	

	Effluent Concentration (µg/l)					**MAL (µg/l)**
Total Aluminum	326	380	382	1550	659.5	30
Total Antimony	<30	<30	<30	<30	<30	30
Total Arsenic	3.80	<10	<10	4.50	4.575	10
Total Barium	<10	93.1	94.3	160	88.1	10
Total Beryllium	<5	<5	<5	<5	<5	5
Total Cadmium	<1	<1	<1	<1	<1	1
Total Chromium	<10	<10	<10	2.40	4.35	10
Trivalent Chromium	<10	<10	3.00	2.40	3.85	N/A
Hexavalent Chromium	<10	<10	3.00	<10	4.5	10
Total Copper	2.60	2.00	2.10	7.80	3.625	10
Cyanide	<20	<20	<20	1.90	7.975	20
Total Lead	<5	<5	<5	<5	<5	5
Total Mercury	<0.2	0.0376	<0.2	<0.2	0.0844	0.2
Total Nickel	<10	<10	<10	<10	<10	10
Total Selenium	10	<10	10	<10	7.5	10
Total Silver	<2.0	<2.0	<2.0	<2.0	<2.0	2.0
Total Thallium	<10	<10	<10	<10	<10	10
Total Zinc	5.10	4.90	2.80	19.9	8.175	5

2. TABLE 2:

Complete table required for all external outfalls which discharge process wastewater. Partial table required for all external outfalls with nonprocess wastewater discharges. Stormwater runoff discharges commingled with other wastestreams shall complete the table as instructed (Instructions, Pages 49-51).

Outfall No.: 004 ☐C ▣G		Effluent Concentration (µg/l) (*1)				
Pollutants	**Samp. 1**	**Samp. 2**	**Samp 3.**	**Samp. 4**	**Average**	**MAL (µg/l)**
Benzene	<10	<10	<10	<10	<10	10
Benzidine	<50	<50	<50	<50	<50	50
Benzo(a)anthracene	<10	<10	<10	<10	<10	10
Benzo(a)pyrene	<10	<10	<10	<10	<10	10
Carbon Tetrachloride	<10	<10	<10	<10	<10	10
Chlorobenzene	<10	<10	<10	<10	<10	10
Chloroform	<10	<10	<10	<10	<10	10
Chrysene	<10	<10	<10	<10	<10	10
Cresols	<50	<50	<50	<50	<50	(*2)
Dibromochloromethane	<10	<10	<10	<10	<10	10
1,2-Dibromoethane	<2	<2	<2	<2	<2	2
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	10
1,2-Dichloroethane	<10	<10	<10	<10	<10	10
1,1-Dichloroethylene	<10	<10	<10	<10	<10	10
Fluoride	0.842	0.808	0.779	0.977	0.8515	500
Hexachlorobenzene	<10	<10	<10	<10	<10	10
Hexachlorobutadiene	<10	<10	<10	<10	<10	10
Hexachloroethane	<20	<20	<20	<20	<20	20
Methyl Ethyl Ketone	<50	<50	<50	<50	<50	50
Nitrobenzene	<10	<10	<10	<10	<10	10
n-Nitrosodiethylamine	<20	<20	<20	<20	<20	20
n-Nitroso-di-n-Butylamine	<20	<20	<20	<20	<20	20
PCB's, Total (*3)	<1	<1	<1	<1	<1	1
Pentachlorobenzene	<20	<20	<20	<20	<20	20
Pentachlorophenol	<50	<50	<50	<50	<50	50
Phenanthrene	<10	<10	<10	<10	<10	10
Pyridine	<20	<20	<20	<20	<20	20
1,2,4,5-Tetrachlorobenzene	<20	<20	<20	<20	<20	20
Tetrachloroethylene	<10	<10	<10	<10	<10	10
Trichloroethylene	<10	<10	<10	<10	<10	10
1,1,1-Trichloroethane	<10	<10	<10	<10	<10	10
2,4,5-Trichlorophenol	<50	<50	<50	<50	<50	50
TTHM (Total Trihalmethanes)	<10	<10	<10	<10	<10	10
Vinyl Chloride	<10	<10	<10	<10	<10	10

(*1) Indicates units if different from µg/l.
(*2) MAL's for Cresols: p-Chloro-m-Creso 10 µg/l; 4,6-Dinitro-o-Cresol 50 µg/l; p-Cresol 10 µg/l.
(*3) Total PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016.

a. LABORATORY ACCREDITATION:

Effective July 1, 2008, all laboratory tests performed must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification with the following general exemptions:

i. The laboratory is an in-house laboratory and is:
   1. periodically inspected by the TCEQ; or
   2. located in another state and is accredited or inspected by that state; or
   3. performing work for another company with a unit located in the same site; or
   4. performing pro bono work for a governmental agency or charitable organization.

ii. The laboratory is accredited under federal law.

iii. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

iv. The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements. The following certification statement shall be signed and submitted with very application. See Instructions, Page 30, for a list of designated representatives who may sign the certification.

I, Tim Gessner certify that all laboratory tests submitted with this application meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. TABLE 3:

Partial table (only those pollutants which are required by the conditions specified) required for each external outfall. Not required for internal outfalls. (Instructions, Pages 49-51)

a. TRIBUTYLTIN:

Is your facility or will your proposed facility be an industrial/commercial facility which directly disposes of wastewater from the types of operations listed below or a domestic facility which receive wastewater from the types of industrial/commercial operations listed below? ☐ Yes ☑ No

If **yes**, indicate with a check mark all of the following criteria which apply and provide the appropriate testing results in the table below.

☐ Manufacturers and formulators of tributyltin or related compounds.
☐ Painting of ships, boats and marine structures.
☐ Ship and boat building and repairing.
☐ Ship and boat cleaning, salvage, wrecking and scaling.
☐ Operation and maintenance of marine cargo handling facilities and marinas
☐ Facilities engaged in wood preserving
☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. ENTEROCOCCI

Does your facility or will your proposed facility discharge directly into saltwater receiving waters?

☐ Yes ☑ No

If **yes**, provide the appropriate testing results in the table below.

TABLE 3

Outfall No.:	**□C □G**	**Effluent Concentration (µg/l)**					
Pollutants		**Samp. 1**	**Samp.**	**Samp.**	**Samp.**	**Averag**	**MAL**
Tributyltin							0.010
Enterococci							N/A

4. TABLE 4:

Complete table r equired f or all external outfalls which discharge process wastewater and other wastewaters, which way contain pesticides or herbicides, from a facility which manufactures or formulates pesticides or herbicides. Not required for internal outfalls. (Instructions, Page 52)

Does your facility manufacture or formulate pesticides or herbicides? ☐ Yes ☑ No

If **yes**, provide the appropriate testing results.

TABLE 4

Outfall No.: ☐C ☐G	Effluent Concentration (µg/l) (*1)					MAL (µg/l)
Pollutants	**Samp. 1**	**Samp. 2**	**Samp. 3**	**Samp. 4**	**Avg.**	
Beta-hexachlorocyclohexane						0.05
Carbaryl						5
Chlordane						0.15
Chlorpyrifos						0.05
2,4-D						10
Danitol						----
4,4'-DDD						0.1
4,4'-DDE						0.1
4,4'-DDT						0.1
Demeton						0.2
Diazinon						0.5
Dicofol						20
Dieldrin						0.1
Diuron						0.09
Endosulfan I (alpha)						0.1
Endosulfan II (beta)						0.1
Endosulfan Sulfate						0.1
Endrin						0.1
Gamma - Hexachlorocyclohexane (Lindane)						0.05
Guthion						0.10
Heptachlor						0.05
Heptachlor Epoxide						1.0
Hexachlorophene						10
Malathion						0.10
Methoxychlor						2.0
Mirex						0.2
Parathion						0.1
Toxaphene						5
2,4,5-TP (Silvex)						2

* Indicate units if different from mg/L.

5. TABLE 5:

Complete table required for all external outfalls. Not required for internal outfalls. (Instructions, Page 52)

TABLE 5

Outfall No.: 004	□C ■G	Believed Present	Believed Absent	Effluent Concentration (mg/l)		
Pollutants				**Average**	**Maximum**	**No. of Samples**
Bromide			X			
Color(PCU)			X			
Nitrate-Nitrite(as N)		X		<0.0500	<0.0500	4
Sulfide(as S)			X			
Sulfite(as SO_3)			X			
Surfactants			X			
Total Antimony		X		<6.30	<6.30	4
Total Beryllium		X		<1.34	<1.34	4
Total Boron		X		4687.5	5860	4
Total Cobalt			X			
Total Iron		X		175.5	572	4
Total Magnesium		X		15632.5	18300	4
Total Molybdenum			X			
Total Manganese		X		68.5	172	4
Total Thallium		X		<7.84	<7.84	4
Total Tin			X			
Total Titanium			X			

6. TABLE 6:

Indicate with a check mark any of the industrial caategories applicable to your facility. If testing is required, indicate with a check mark in the box provided that the testing results for the appropriate parameters in Table B-7 are provided with the application. (Instructions, Page 52)

_____N/A	GC/MS Testing Required			
	Volatile	**Acid**	**Base/Neutral**	**Pesticides**
_____ Adhesives and Sealants	Yes ☐	Yes ☐	Yes ☐	No
_____ Aluminum Forming	Yes ☐	Yes ☐	Yes ☐	No
_____ Auto and Other Laundries	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Battery Manufacturing	Yes ☐	No	Yes ☐	No
_____ Coal Mining	No	No	No	No
_____ Coil Coating	Yes ☐	Yes ☐	Yes ☐	No
_____ Copper Forming	Yes ☐	Yes ☐	Yes ☐	No
_____ Electric and Electronic Components	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Electroplating	Yes ☐	Yes ☐	Yes ☐	No
_____ Explosives Manufacturing	No	Yes ☐	Yes ☐	No
_____ Foundries	Yes ☐	Yes ☐	Yes ☐	No
_____ Gum and Wood Chemicals				
_____Subparts A,B,C,E	Yes ☐	Yes ☐	No	No
_____Subparts D,F	Yes ☐	Yes ☐	Yes ☐	No
_____ Inorganic Chemicals	Yes ☐	Yes ☐	Yes ☐	No
_____ Iron and Steel Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Leather Tanning/Finishing	Yes ☐	Yes ☐	Yes ☐	No
_____ Mechanical Products Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Nonferrous Metals Mfg.	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Ore Mining(Subpart B)	No	Yes ☐	No	No
_____ Organic Chemicals, Plastics, and Synthetic Fibers	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Paint and Ink Formulation	Yes ☐	Yes ☐	Yes ☐	No
_____ Pesticides	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Petroleum Refining	Yes ☐	No	No	No
_____ Pharmaceutical Preparations	Yes ☐	Yes ☐	Yes ☐	No
_____ Photographic Equipment and Supplies	Yes ☐	Yes ☐	Yes ☐	No
_____ Plastic and Synthetic Materials Manufacturing	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Plastic Processing	Yes ☐	No	No	No
_____ Porcelain Enameling	No	No	No	No
_____ Printing and Publishing	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Pulp and Paperboard Mills				
_____Subparts A	* ☐	Yes ☐	* ☐	Yes ☐
_____Subparts B, C, D, R	* ☐	Yes ☐	* ☐	* ☐
_____Subparts F, G, H, I, K, L, M, N, O, P	Yes ☐	Yes ☐	* ☐	* ☐
_____Subparts E, Q, S, T	Yes ☐	Yes ☐	* ☐	Yes ☐
_____Subparts J, U	Yes ☐	Yes ☐	Yes ☐	* ☐
_____Rubber Processing	Yes ☐	Yes ☐	Yes ☐	No
_____Soap and Detergent Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
✔ Steam Electric Power Plants	Yes ☑	Yes ☑	No	No
_____ Textile Mills (Not Subpart C)	Yes ☐	Yes ☐	Yes ☐	No
_____ Timber Products Processing	Yes ☐	Yes ☐	Yes ☐	Yes ☐

* Test if "believed present"

7. TABLE 7:

Please complete as directed and only for those parameters specified in Table 6 . Required for all external outfalls which contain process wastewater. Not required for internal outfalls. Testing may be required for types of industry not specified in Table 6 for specific parameters if believed present (Instructions, Pages 52-53).

TABLE 7

Outfall No.: 004 ☐C ▣G	Effluent Concentration (µg/l)*			
Pollutants / **VOLATILE COMPOUNDS**	**Average**	**Maximum**	**Number of Samples**	**MAL (µg/l)**
Acrolein	<50	<50	4	50
Acrylonitrile	<50	<50	4	50
Benzene	<10	<10	4	10
Bromoform	<10	<10	4	10
Carbon Tetrachloride	<10	<10	4	10
Chlorobenzene	<10	<10	4	10
Chlorodibromomethane	<10	<10	4	10
Chloroethane	<50	<50	4	50
2-Chloroethylvinyl Ether	<10	<10	4	10
Chloroform	<10	<10	4	10
Dichlorobromomethane	<10	<10	4	10
1,1-Dichloroethane	<10	<10	4	10
1,2-Dichloroethane	<10	<10	4	10
1,1-Dichloroethylene	<10	<10	4	10
1,2-Dichloropropane	<10	<10	4	10
1,3-Dichloropropylene	<10	<10	4	10
Ethylbenzene	<10	<10	4	10
Methyl Bromide	<50	<50	4	50
Methyl Chloride	<50	<50	4	50
Methylene Chloride	<20	<20	4	20
1,1,2,2-Tetrachloroethane	<10	<10	4	10
Tetrachloroethylene	<10	<10	4	10
Toluene	<10	<10	4	10
1,2-Trans-Dichloroethylene	<10	<10	4	10
1,1,1-Trichloroethane	<10	<10	4	10
1,1,2-Trichloroethane	<10	<10	4	10
Trichloroethylene	<10	<10	4	10
Vinyl Chloride	<10	<10	4	10

Pollutants	Effluent Concentration (µg/l)*			
	Average	Maximum	Number of Samples	MAL (µg/l)
ACID COMPOUNDS				
2-Chlorophenol	<10	<10	4	10
2,4-Dichlorophenol	<10	<10	4	10
2,4-Dimethylphenol	<10	<10	4	10
4,6-Dinitro-o-Cresol	<50	<50	4	50
2,4-Dinitrophenol	<50	<50	4	50
2-Nitrophenol	<20	<20	4	20
4-Nitrophenol	<50	<50	4	50
P-Chloro-m-Cresol	<10	<10	4	10
Pentalchlorophenol	<50	<50	4	50
Phenol	<10	<10	4	10
2,4,6-Trichlorophenol	<10	<10	4	10
BASE/NEUTRAL COMPOUNDS				
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				10
Benzo(a)Pyrene				10
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				10
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butylbenzyl Phthalate				10
2-chloronaphthalene				10
4-chlorophenyl phenyl ether				10
Chrysene				10
Dibenzo(a,h)Anthracene				20
1,2-Dichlorobenzene				10
1,3-Dichlorobenzene				10
1,4-Dichlorobenzene				10
3,3-Dichlorobenzidine				50
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitroluene				10
Di-n-Octyl Phthalate				10

	Effluent Concentration (µg/l)*			
Pollutants	**Average**	**Maximum**	**No. of Samples**	**MAL (µg/l)**
BASE/NEUTRAL COMPOUNDS (cont.)				
1,2-Diphenyl Hydrazine (as Azobenzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				10
Hexachlorobutadiene				10
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				20
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10
PESTICIDES				
Aldrin				0.05
alpha-BHC				0.05
beta-BHC				0.05
gamma-BHC				0.05
delta-BHC				0.05
Chlordane				0.15
4,4-DDT				0.1
4,4-DDE				0.1
Dieldrin				0.1
alpha-Endosulfan				0.1
beta-Endosulfan				0.1
Endosulfan Sulfate				0.1
Endrin				0.1
Endrin Aldehyde				0.1
Heptachlor				0.05
Heptachlor Epoxide				
PCB-1254				1.0
PCB-1221				1.0
PCB-1242				
PCB-1232				1.0
PCB-1248				1.0
PCB-1260				1.0
PCB-1016				1.0
Toxaphene				5.0

*** Indicate units if different from µg/l**

8. TABLE 8 (DIOXINS/FURAN COMPOUNDS):

Please complete as directed. Not required for internal outfalls. (Instructions, Pages 53-54)

a. Are any of the following compounds manufactured and/or u sed in a process at t he facility? ☐ Yes ☑ No

If **yes**, i ndicate w ith a ch eck mark the compound(s) which apply and provide a brief description of the conditions of its/their presence at the facility.

☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CAS #93-76-5
☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CAS #93-72-1
☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CAS #136-25-4
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CAS #299-84-3
☐ 2,4,5-trichlorophenol (TCP) CAS #95-95-4
☐ Hexachlorophene (HCP) CAS #70-30-4

b. Do y ou k now or have a ny reason to b elieve that 2, 3,7,8 Te trachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent? ☐ Yes ☑ No

If **yes,** provide a brief description of the conditions for its presence.

c. If your responded **yes** to either item **a** or **b**, complete **Table 8** as instructed.

TABLE 8

Outfall No. _____	☐C ☐G	Wastewater		Sludge		MAL (ppq)
Compound	Equivalent Factors	Concentration (ppq)	Equivalents (ppq)	Concentration (ppt)	Equivalents (ppt)	
2,3,7,8-TCDD	1					10.0
1,2,3,7,8-PeCDD	0.5					50.0
2,3,7,8-HxCDDs	0.1					50.0
2,3,7,8-TCDF	0.1					10.0
1,2,3,7,8-PeCDF	0.05					50.0
2,3,4,7,8-PeCDF	0.5					50.0
2,3,7,8-HxCDFs	0.1					50.0
Total						

9. TABLE 9 (HAZARDOUS SUBSTANCES):

Proceed complete as directed. Not required for internal outfalls. (Instructions, Pages 55)

a. Are there any pollutants listed in the instructions (page 55) believed present in the discharge?

☐Yes ☑No

b. Are there pollutants listed in Item No. 1.d. on Page No. 1 of this technical report which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

☐Yes ☑No

If your responded **yes** to either item, complete **Table 9** as instructed.

TABLE 9

Pollutant & CAS Number	Average (µg/l)	Maximum (µg/l)	No. of Samples	Analytical Method

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

REQUIRED FO R A PPLICATIONS S UBMITTED FO R A T PDES PER MIT. N OT REQUIRED FO R APPLICATIONS F OR A PER MIT T O D ISPOSE O F ALL WASTEWATER BY LAND DISPOSAL OR FOR DISCHARGES SOLELY OF STORM WATER RUNOFF. (General Requirements: Instructions, Pages 49-51)

1. TABLE 1: Complete table required for all external outfalls.

Outfall No.: 005 ☐C ■G	**Effluent Concentration (mg/l)**				
Pollutants	**Samp.**	**Samp.**	**Samp.**	**Samp.**	**Average**
BOD (5-day)	<4.80	<4.80	<4.80	<4.80	<4.80
CBOD (5-day)	<4.80	<4.80	<4.80	<4.80	<4.80
Chemical Oxygen Demand	12.3	<5.94	<5.94	12.7	7.735
Total Organic Carbon	3.44	2.71	3.83	3.10	3.27
Dissolved Oxygen	7.3	10.0	10.2	7.0	8.6
Ammonia Nitrogen	<0.0994	<0.0994	<0.0994	<0.0850	0.0479
Total Suspended Solids	24	4	3	4	8.75
Nitrate Nitrogen	2.32	2.30	0.249	0.188	1.264
Total Organic Nitrogen	0.652	0.430	<0.376	<0.376	0.364
Total Phosphorus	0.100	<0.0131	<0.0131	0.0270	0.0350
Oil and Grease	<5	<5	<5	<5	<5
Total Residual Chlorine	0.00	0.00	0.04	0.03	0.02
Total Dissolved Solids	365	376	345	363	362.25
Sulfate	107	130	105	71.6	103.4
Chloride	55.3	66.6	78.3	50.2	62.6
Fluoride	0.205	0.343	0.216	0.108	0.218
Fecal Coliform	550	60	500	70	295
Temperature (°F)	85.8	87.6	85.1	88.5	86.8
pH (Standard Units; min/max)	8.08	7.98	7.80	7.91	7.94

	Effluent Concentration (µg/l)					**MAL (µg/l)**
Total Aluminum	81.6	64.3	118	81.5	86.35	30
Total Antimony	<30	<30	<30	<30	<30	30
Total Arsenic	4.70	<10	3.60	3.70	4.25	10
Total Barium	129	137	130	131	131.75	10
Total Beryllium	<5	<5	<5	<5	<5	5
Total Cadmium	<1	<1	<1	<1	<1	1
Total Chromium	1.60	<10	1.70	<10	3.325	10
Trivalent Chromium	<10	<10	<10	<10	<10	N/A
Hexavalent Chromium	<10	<10	<10	<10	<10	10
Total Copper	15.1	13.5	17.0	11.5	14.275	10
Cyanide	<20	<20	<20	<20	<20	20
Total Lead	7.80	7.80	14.1	8.20	9.475	5
Total Mercury	<0.2	<0.2	<0.2	<0.2	<0.2	0.2
Total Nickel	<10	1.80	2.50	<10	3.575	10
Total Selenium	<10	<10	<10	<10	<10	10
Total Silver	<2.0	<2.0	<2.0	<2.0	<2.0	2.0
Total Thallium	<10	<10	<10	<10	<10	10
Total Zinc	40.2	34.1	52.5	39.5	41.575	5

2. TABLE 2:

Complete table required for all external outfalls which discharge process wastewater. Partial table required for all external outfalls with nonprocess wastewater discharges. Stormwater runoff discharges commingled with other wastestreams shall complete the table as instructed (Instructions, Pages 49-51).

Outfall No.: 005 ☐C ▣G		Effluent Concentration (µg/l) (*1)				
Pollutants	**Samp. 1**	**Samp. 2**	**Samp 3.**	**Samp. 4**	**Average**	**MAL (µg/l)**
Benzene	<10	<10	<10	<10	<10	10
Benzidine	<50	<50	<50	<50	<50	50
Benzo(a)anthracene	<10	<10	<10	<10	<10	10
Benzo(a)pyrene	<10	<10	<10	<10	<10	10
Carbon Tetrachloride	<10	<10	<10	<10	<10	10
Chlorobenzene	<10	<10	<10	<10	<10	10
Chloroform	<10	<10	<10	<10	<10	10
Chrysene	<10	<10	<10	<10	<10	10
Cresols	<50	<50	<50	<50	<50	(*2)
Dibromochloromethane	<10	<10	<10	<10	<10	10
1,2-Dibromoethane	<2	<2	<2	<2	<2	2
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	10
1,2-Dichloroethane	<10	<10	<10	<10	<10	10
1,1-Dichloroethylene	<10	<10	<10	<10	<10	10
Fluoride	0.205	0.343	0.216	0.400	0.291	500
Hexachlorobenzene	<10	<10	<10	<10	<10	10
Hexachlorobutadiene	<10	<10	<10	<10	<10	10
Hexachloroethane	<20	<20	<20	<20	<20	20
Methyl Ethyl Ketone	<50	<50	<50	<50	<50	50
Nitrobenzene	<10	<10	<10	<10	<10	10
n-Nitrosodiethylamine	<20	<20	<20	<20	<20	20
n-Nitroso-di-n-Butylamine	<20	<20	<20	<20	<20	20
PCB's, Total (*3)	<1	<1	<1	<1	<1	1
Pentachlorobenzene	<20	<20	<20	<20	<20	20
Pentachlorophenol	<50	<50	<50	<50	<50	50
Phenanthrene	<10	<10	<10	<10	<10	10
Pyridine	<20	<20	<20	<20	<20	20
1,2,4,5-Tetrachlorobenzene	<20	<20	<20	<20	<20	20
Tetrachloroethylene	<10	<10	<10	<10	<10	10
Trichloroethylene	<10	<10	<10	<10	<10	10
1,1,1-Trichloroethane	<10	<10	<10	<10	<10	10
2,4,5-Trichlorophenol	<50	<50	<50	<50	<50	50
TTHM (Total Trihalmethanes)	<10	<10	<10	<10	<10	10
Vinyl Chloride	<10	<10	<10	<10	<10	10

(*1) Indicates units if different from µg/l.
(*2) MAL's for Cresols: p-Chloro-m-Creso 10 µg/l; 4,6-Dinitro-o-Cresol 50 µg/l; p-Cresol 10 µg/l.
(*3) Total PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016.

a. LABORATORY ACCREDITATION:

Effective July 1, 2008, all laboratory tests performed must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification with the following general exemptions:

i. The laboratory is an in-house laboratory and is:
   1. periodically inspected by the TCEQ; or
   2. located in another state and is accredited or inspected by that state; or
   3. performing work for another company with a unit located in the same site; or
   4. performing pro bono work for a governmental agency or charitable organization.

ii. The laboratory is accredited under federal law.

iii. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

iv. The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements. The following certification statement shall be signed and submitted with very application. See Instructions, Page 30, for a list of designated representatives who may sign the certification.

I, Tim Gessner certify that all laboratory tests submitted with this application meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. TABLE 3:

Partial table (only those pollutants which are required by the conditions specified) required for each external outfall. Not required for internal outfalls. (Instructions, Pages 49-51)

a. TRIBUTYLTIN:

Is your facility or will your proposed facility be an industrial/commercial facility which directly disposes of wastewater from the types of operations listed below or a domestic facility which receive wastewater from the types of industrial/commercial operations listed below? ☐ Yes ☑ No

If **yes**, indicate with a check mark all of the following criteria which apply and provide the appropriate testing results in the table below.

☐ Manufacturers and formulators of tributyltin or related compounds.
☐ Painting of ships, boats and marine structures.
☐ Ship and boat building and repairing.
☐ Ship and boat cleaning, salvage, wrecking and scaling.
☐ Operation and maintenance of marine cargo handling facilities and marinas
☐ Facilities engaged in wood preserving
☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. ENTEROCOCCI

Does your facility or will your proposed facility discharge directly into saltwater receiving waters?

☐ Yes ☑ No

If **yes**, provide the appropriate testing results in the table below.

TABLE 3

Outfall No.:	**□C □G**	**Effluent Concentration (µg/l)**					
Pollutants		**Samp. 1**	**Samp.**	**Samp.**	**Samp.**	**Averag**	**MAL**
Tributyltin							0.010
Enterococci							N/A

4. TABLE 4:

Complete table r equired f or all external outfalls which discharge process wastewater and other wastewaters, which way contain pesticides or herbicides, from a facility which manufactures or formulates pesticides or herbicides. Not required for internal outfalls. (Instructions, Page 52)

Does your facility manufacture or formulate pesticides or herbicides? ☐ Yes ☑ No

If **yes**, provide the appropriate testing results.

TABLE 4

Outfall No.: ☐C ☐G	Effluent Concentration (µg/l) (*1)					MAL (µg/l)
Pollutants	**Samp. 1**	**Samp. 2**	**Samp. 3**	**Samp. 4**	**Avg.**	
Beta-hexachlorocyclohexane						0.05
Carbaryl						5
Chlordane						0.15
Chlorpyrifos						0.05
2,4-D						10
Danitol						----
4,4'-DDD						0.1
4,4'-DDE						0.1
4,4'-DDT						0.1
Demeton						0.2
Diazinon						0.5
Dicofol						20
Dieldrin						0.1
Diuron						0.09
Endosulfan I (alpha)						0.1
Endosulfan II (beta)						0.1
Endosulfan Sulfate						0.1
Endrin						0.1
Gamma - Hexachlorocyclohexane (Lindane)						0.05
Guthion						0.10
Heptachlor						0.05
Heptachlor Epoxide						1.0
Hexachlorophene						10
Malathion						0.10
Methoxychlor						2.0
Mirex						0.2
Parathion						0.1
Toxaphene						5
2,4,5-TP (Silvex)						2

* Indicate units if different from mg/L.

5. TABLE 5:

Complete table required for all external outfalls. Not required for internal outfalls. (Instructions, Page 52)

TABLE 5

Outfall No.: 005	□C ■G	Believed Present	Believed Absent	Effluent Concentration (mg/l)		
Pollutants				**Average**	**Maximum**	**No. of Samples**
Bromide			X			
Color(PCU)			X			
Nitrate-Nitrite(as N)		X		1.264	2.32	4
Sulfide(as S)			X			
Sulfite(as SO_3)			X			
Surfactants			X			
Total Antimony		X		<6.30	<6.30	4
Total Beryllium		X		<1.34	<1.34	4
Total Boron		X		113.1	130	4
Total Cobalt			X			
Total Iron		X		216	244	4
Total Magnesium		X		8872.5	9710	4
Total Molybdenum			X			
Total Manganese		X		31.5	39.5	4
Total Thallium		X		<7.84	<7.84	4
Total Tin			X			
Total Titanium			X			

6. TABLE 6:

Indicate with a check mark any of the industrial caategories applicable to your facility. If testing is required, indicate with a check mark in the box provided that the testing results for the appropriate parameters in Table B-7 are provided with the application. (Instructions, Page 52)

_____N/A	GC/MS Testing Required			
	Volatile	**Acid**	**Base/Neutral**	**Pesticides**
_____ Adhesives and Sealants	Yes ☐	Yes ☐	Yes ☐	No
_____ Aluminum Forming	Yes ☐	Yes ☐	Yes ☐	No
_____ Auto and Other Laundries	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Battery Manufacturing	Yes ☐	No	Yes ☐	No
_____ Coal Mining	No	No	No	No
_____ Coil Coating	Yes ☐	Yes ☐	Yes ☐	No
_____ Copper Forming	Yes ☐	Yes ☐	Yes ☐	No
_____ Electric and Electronic Components	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Electroplating	Yes ☐	Yes ☐	Yes ☐	No
_____ Explosives Manufacturing	No	Yes ☐	Yes ☐	No
_____ Foundries	Yes ☐	Yes ☐	Yes ☐	No
_____ Gum and Wood Chemicals				
_____Subparts A,B,C,E	Yes ☐	Yes ☐	No	No
_____Subparts D,F	Yes ☐	Yes ☐	Yes ☐	No
_____ Inorganic Chemicals	Yes ☐	Yes ☐	Yes ☐	No
_____ Iron and Steel Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Leather Tanning/Finishing	Yes ☐	Yes ☐	Yes ☐	No
_____ Mechanical Products Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Nonferrous Metals Mfg.	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Ore Mining(Subpart B)	No	Yes ☐	No	No
_____ Organic Chemicals, Plastics, and Synthetic Fibers	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Paint and Ink Formulation	Yes ☐	Yes ☐	Yes ☐	No
_____ Pesticides	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Petroleum Refining	Yes ☐	No	No	No
_____ Pharmaceutical Preparations	Yes ☐	Yes ☐	Yes ☐	No
_____ Photographic Equipment and Supplies	Yes ☐	Yes ☐	Yes ☐	No
_____ Plastic and Synthetic Materials Manufacturing	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Plastic Processing	Yes ☐	No	No	No
_____ Porcelain Enameling	No	No	No	No
_____ Printing and Publishing	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Pulp and Paperboard Mills				
_____Subparts A	* ☐	Yes ☐	* ☐	Yes ☐
_____Subparts B, C, D, R	* ☐	Yes ☐	* ☐	* ☐
_____Subparts F, G, H, I, K, L, M, N, O, P	Yes ☐	Yes ☐	* ☐	* ☐
_____Subparts E, Q, S, T	Yes ☐	Yes ☐	* ☐	Yes ☐
_____Subparts J, U	Yes ☐	Yes ☐	Yes ☐	* ☐
_____Rubber Processing	Yes ☐	Yes ☐	Yes ☐	No
_____Soap and Detergent Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
✔ Steam Electric Power Plants	Yes ☑	Yes ☑	No	No
_____ Textile Mills (Not Subpart C)	Yes ☐	Yes ☐	Yes ☐	No
_____ Timber Products Processing	Yes ☐	Yes ☐	Yes ☐	Yes ☐

* Test if "believed present"

7. TABLE 7:

Please complete as directed and only for those parameters specified in Table 6 . Required for all external outfalls which contain process wastewater. Not required for internal outfalls. Testing may be required for types of industry not specified in Table 6 for specific parameters if believed present (Instructions, Pages 52-53).

TABLE 7

Outfall No.: 005 ☐C ▣G	Effluent Concentration (µg/l)*			
Pollutants / **VOLATILE COMPOUNDS**	**Average**	**Maximum**	**Number of Samples**	**MAL (µg/l)**
Acrolein	<50	<50	4	50
Acrylonitrile	<50	<50	4	50
Benzene	<10	<10	4	10
Bromoform	<10	<10	4	10
Carbon Tetrachloride	<10	<10	4	10
Chlorobenzene	<10	<10	4	10
Chlorodibromomethane	<10	<10	4	10
Chloroethane	<50	<50	4	50
2-Chloroethylvinyl Ether	<10	<10	4	10
Chloroform	<10	<10	4	10
Dichlorobromomethane	<10	<10	4	10
1,1-Dichloroethane	<10	<10	4	10
1,2-Dichloroethane	<10	<10	4	10
1,1-Dichloroethylene	<10	<10	4	10
1,2-Dichloropropane	<10	<10	4	10
1,3-Dichloropropylene	<10	<10	4	10
Ethylbenzene	<10	<10	4	10
Methyl Bromide	<50	<50	4	50
Methyl Chloride	<50	<50	4	50
Methylene Chloride	<20	<20	4	20
1,1,2,2-Tetrachloroethane	<10	<10	4	10
Tetrachloroethylene	<10	<10	4	10
Toluene	<10	<10	4	10
1,2-Trans-Dichloroethylene	<10	<10	4	10
1,1,1-Trichloroethane	<10	<10	4	10
1,1,2-Trichloroethane	<10	<10	4	10
Trichloroethylene	<10	<10	4	10
Vinyl Chloride	<10	<10	4	10

Pollutants	Effluent Concentration (µg/l)*			
	Average	Maximum	Number of Samples	MAL (µg/l)
ACID COMPOUNDS				
2-Chlorophenol	<10	<10	4	10
2,4-Dichlorophenol	<10	<10	4	10
2,4-Dimethylphenol	<10	<10	4	10
4,6-Dinitro-o-Cresol	<50	<50	4	50
2,4-Dinitrophenol	<50	<50	4	50
2-Nitrophenol	<20	<20	4	20
4-Nitrophenol	<50	<50	4	50
P-Chloro-m-Cresol	<10	<10	4	10
Pentalchlorophenol	<50	<50	4	50
Phenol	<10	<10	4	10
2,4,6-Trichlorophenol	<10	<10	4	10
BASE/NEUTRAL COMPOUNDS				
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				10
Benzo(a)Pyrene				10
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				10
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butylbenzyl Phthalate				10
2-chloronaphthalene				10
4-chlorophenyl phenyl ether				10
Chrysene				10
Dibenzo(a,h)Anthracene				20
1,2-Dichlorobenzene				10
1,3-Dichlorobenzene				10
1,4-Dichlorobenzene				10
3,3-Dichlorobenzidine				50
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitroluene				10
Di-n-Octyl Phthalate				10

	Effluent Concentration (µg/l)*			
Pollutants	**Average**	**Maximum**	**No. of Samples**	**MAL (µg/l)**
BASE/NEUTRAL COMPOUNDS (cont.)				
1,2-Diphenyl Hydrazine (as Azobenzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				10
Hexachlorobutadiene				10
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				20
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10
PESTICIDES				
Aldrin				0.05
alpha-BHC				0.05
beta-BHC				0.05
gamma-BHC				0.05
delta-BHC				0.05
Chlordane				0.15
4,4-DDT				0.1
4,4-DDE				0.1
Dieldrin				0.1
alpha-Endosulfan				0.1
beta-Endosulfan				0.1
Endosulfan Sulfate				0.1
Endrin				0.1
Endrin Aldehyde				0.1
Heptachlor				0.05
Heptachlor Epoxide				
PCB-1254				1.0
PCB-1221				1.0
PCB-1242				
PCB-1232				1.0
PCB-1248				1.0
PCB-1260				1.0
PCB-1016				1.0
Toxaphene				5.0

*** Indicate units if different from µg/l**

8. TABLE 8 (DIOXINS/FURAN COMPOUNDS):

Please complete as directed. Not required for internal outfalls. (Instructions, Pages 53-54)

a. Are any of the following compounds manufactured and/or u sed in a process at t he facility? ☐ Yes ☑ No

If **yes**, i ndicate w ith a ch eck mark the compound(s) which apply and provide a brief description of the conditions of its/their presence at the facility.

☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CAS #93-76-5
☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CAS #93-72-1
☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CAS #136-25-4
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CAS #299-84-3
☐ 2,4,5-trichlorophenol (TCP) CAS #95-95-4
☐ Hexachlorophene (HCP) CAS #70-30-4

b. Do y ou k now or have a ny reason to b elieve that 2, 3,7,8 Te trachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent? ☐ Yes ☑ No

If **yes,** provide a brief description of the conditions for its presence.

c. If your responded **yes** to either item **a** or **b**, complete **Table 8** as instructed.

TABLE 8

Outfall No. _____	☐C ☐G	Wastewater		Sludge		MAL (ppq)
Compound	Equivalent Factors	Concentration (ppq)	Equivalents (ppq)	Concentration (ppt)	Equivalents (ppt)	
2,3,7,8-TCDD	1					10.0
1,2,3,7,8-PeCDD	0.5					50.0
2,3,7,8-HxCDDs	0.1					50.0
2,3,7,8-TCDF	0.1					10.0
1,2,3,7,8-PeCDF	0.05					50.0
2,3,4,7,8-PeCDF	0.5					50.0
2,3,7,8-HxCDFs	0.1					50.0
Total						

9. TABLE 9 (HAZARDOUS SUBSTANCES):

Proceed complete as directed. Not required for internal outfalls. (Instructions, Pages 55)

a. Are there any pollutants listed in the instructions (page 55) believed present in the discharge?

☐Yes ☑No

b. Are there pollutants listed in Item No. 1.d. on Page No. 1 of this technical report which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

☐Yes ☑No

If your responded **yes** to either item, complete **Table 9** as instructed.

TABLE 9

Pollutant & CAS Number	Average (µg/l)	Maximum (µg/l)	No. of Samples	Analytical Method

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

REQUIRED FO R A PPLICATIONS S UBMITTED FO R A T PDES PER MIT. N OT REQUIRED FO R APPLICATIONS F OR A PER MIT T O D ISPOSE O F ALL WASTEWATER BY LAND DISPOSAL OR FOR DISCHARGES SOLELY OF STORM WATER RUNOFF. (General Requirements: Instructions, Pages 49-51)

1. TABLE 1: Complete table required for all external outfalls.

Outfall No.: 006 ☐C ■G	**Effluent Concentration (mg/l)**					
Pollutants	**Samp.**	**Samp.**	**Samp.**	**Samp.**	**Average**	
BOD (5-day)	<4.80	<4.80	<4.80	<4.80	<4.80	
CBOD (5-day)	<4.80	<4.80	<4.80	<4.80	<4.80	
Chemical Oxygen Demand	<5.94	<5.94	<5.94	20.2	7.28	
Total Organic Carbon	2.37	1.39	1.47	1.41	1.66	
Dissolved Oxygen	8.1	10.8	9.9	7.4	9.1	
Ammonia Nitrogen	<0.0994	<0.0994	<0.0994	<0.0850	0.0479	
Total Suspended Solids	7	<2	<2	<2	2.5	
Nitrate Nitrogen	2.32	2.27	0.216	0.179	1.246	
Total Organic Nitrogen	<0.376	<0.376	<0.376	0.661	0.306	
Total Phosphorus	0.232	0.0900	0.0960	0.101	0.130	
Oil and Grease	<5	<5	<5	<5	<5	
Total Residual Chlorine	0.22	0.04	0.09	0.14	0.12	
Total Dissolved Solids	473	520	392	500	471.25	
Sulfate	180	269	189	176	203.5	
Chloride	39.1	43.9	35.3	33.7	38.0	
Fluoride	0.502	0.567	0.294	0.400	0.441	
Fecal Coliform	<10	<10	<10	<10	<10	
Temperature (°F)	80.2	81.3	81.9	80.2	80.9	
pH (Standard Units; min/max)	8.13	7.98	7.95	7.98	8.01	

	Effluent Concentration (µg/l)					**MAL (µg/l)**
Total Aluminum	<30	<30	31.8	<30	19.2	30
Total Antimony	<30	<30	6.60	<30	12.9	30
Total Arsenic	7.40	6.10	6.30	9.10	7.22	10
Total Barium	193	238	193	210	208.5	10
Total Beryllium	<5	<5	<5	<5	<5	5
Total Cadmium	<1	<1	<1	<1	<1	1
Total Chromium	3.30	3.10	3.10	3.00	3.12	10
Trivalent Chromium	5.70	3.10	3.10	3.00	3.72	N/A
Hexavalent Chromium	9.00	<10	<10	<10	6.00	10
Total Copper	25.5	21.4	21.6	23.5	23.0	10
Cyanide	<20	<20	<20	<20	<20	20
Total Lead	<5	<5	<5	<5	<5	5
Total Mercury	<0.2	<0.2	<0.2	<0.2	<0.2	0.2
Total Nickel	<10	<10	<10	<10	<10	10
Total Selenium	<10	<10	<10	<10	<10	10
Total Silver	<2.0	<2.0	<2.0	<2.0	<2.0	2.0
Total Thallium	<10	<10	<10	<10	<10	10
Total Zinc	13.1	16.0	17.9	24.1	17.8	5

2. TABLE 2:

Complete table required for all external outfalls which discharge process wastewater. Partial table required for all external outfalls with nonprocess wastewater discharges. Stormwater runoff discharges commingled with other wastestreams shall complete the table as instructed (Instructions, Pages 49-51).

Outfall No.: 006 ☐C ▣G		Effluent Concentration (µg/l) (*1)				
Pollutants	**Samp. 1**	**Samp. 2**	**Samp 3.**	**Samp. 4**	**Average**	**MAL (µg/l)**
Benzene	<10	<10	<10	<10	<10	10
Benzidine	<50	<50	<50	<50	<50	50
Benzo(a)anthracene	<10	<10	<10	<10	<10	10
Benzo(a)pyrene	<10	<10	<10	<10	<10	10
Carbon Tetrachloride	<10	<10	<10	<10	<10	10
Chlorobenzene	<10	<10	<10	<10	<10	10
Chloroform	<10	<10	<10	<10	<10	10
Chrysene	<10	<10	<10	<10	<10	10
Cresols	<50	<50	<50	<50	<50	(*2)
Dibromochloromethane	1.96	<10	<10	<10	4.24	10
1,2-Dibromoethane	<2	<2	<2	<2	<2	2
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	10
1,2-Dichloroethane	<10	<10	<10	<10	<10	10
1,1-Dichloroethylene	<10	<10	<10	<10	<10	10
Fluoride	0.502	0.567	0.294	0.400	0.441	500
Hexachlorobenzene	<10	<10	<10	<10	<10	10
Hexachlorobutadiene	<10	<10	<10	<10	<10	10
Hexachloroethane	<20	<20	<20	<20	<20	20
Methyl Ethyl Ketone	<50	<50	<50	<50	<50	50
Nitrobenzene	<10	<10	<10	<10	<10	10
n-Nitrosodiethylamine	<20	<20	<20	<20	<20	20
n-Nitroso-di-n-Butylamine	<20	<20	<20	<20	<20	20
PCB's, Total (*3)	<1	<1	<1	<1	<1	1
Pentachlorobenzene	<20	<20	<20	<20	<20	20
Pentachlorophenol	<50	<50	<50	<50	<50	50
Phenanthrene	<10	<10	<10	<10	<10	10
Pyridine	<20	<20	<20	<20	<20	20
1,2,4,5-Tetrachlorobenzene	<20	<20	<20	<20	<20	20
Tetrachloroethylene	<10	<10	<10	<10	<10	10
Trichloroethylene	<10	<10	<10	<10	<10	10
1,1,1-Trichloroethane	<10	<10	<10	<10	<10	10
2,4,5-Trichlorophenol	<50	<50	<50	<50	<50	50
TTHM (Total Trihalmethanes)	3.76	<10	<10	<10	4.69	10
Vinyl Chloride	<10	<10	<10	<10	<10	10

(*1) Indicates units if different from µg/l.
(*2) MAL's for Cresols: p-Chloro-m-Creso 10 µg/l; 4,6-Dinitro-o-Cresol 50 µg/l; p-Cresol 10 µg/l.
(*3) Total PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016.

a. LABORATORY ACCREDITATION:

Effective July 1, 2008, all laboratory tests performed must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification with the following general exemptions:

i. The laboratory is an in-house laboratory and is:
   1. periodically inspected by the TCEQ; or
   2. located in another state and is accredited or inspected by that state; or
   3. performing work for another company with a unit located in the same site; or
   4. performing pro bono work for a governmental agency or charitable organization.

ii. The laboratory is accredited under federal law.

iii. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

iv. The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements. The following certification statement shall be signed and submitted with very application. See Instructions, Page 30, for a list of designated representatives who may sign the certification.

I, Tim Gessner certify that all laboratory tests submitted with this application meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. TABLE 3:

Partial table (only those pollutants which are required by the conditions specified) required for each external outfall. Not required for internal outfalls. (Instructions, Pages 49-51)

a. TRIBUTYLTIN:

Is your facility or will your proposed facility be an industrial/commercial facility which directly disposes of wastewater from the types of operations listed below or a domestic facility which receive wastewater from the types of industrial/commercial operations listed below? ☐ Yes ☑ No

If **yes**, indicate with a check mark all of the following criteria which apply and provide the appropriate testing results in the table below.

☐ Manufacturers and formulators of tributyltin or related compounds.
☐ Painting of ships, boats and marine structures.
☐ Ship and boat building and repairing.
☐ Ship and boat cleaning, salvage, wrecking and scaling.
☐ Operation and maintenance of marine cargo handling facilities and marinas
☐ Facilities engaged in wood preserving
☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. ENTEROCOCCI

Does your facility or will your proposed facility discharge directly into saltwater receiving waters?

☐ Yes ☑ No

If **yes**, provide the appropriate testing results in the table below.

TABLE 3

Outfall No.:	**□C □G**	**Effluent Concentration (µg/l)**					
Pollutants		**Samp. 1**	**Samp.**	**Samp.**	**Samp.**	**Averag**	**MAL**
Tributyltin							0.010
Enterococci							N/A

4. TABLE 4:

Complete table r equired f or all external outfalls which discharge process wastewater and other wastewaters, which way contain pesticides or herbicides, from a facility which manufactures or formulates pesticides or herbicides. Not required for internal outfalls. (Instructions, Page 52)

Does your facility manufacture or formulate pesticides or herbicides? ☐ Yes ☑ No

If **yes**, provide the appropriate testing results.

TABLE 4

Outfall No.: ☐C ☐G	Effluent Concentration (µg/l) (*1)					MAL (µg/l)
Pollutants	**Samp. 1**	**Samp. 2**	**Samp. 3**	**Samp. 4**	**Avg.**	
Beta-hexachlorocyclohexane						0.05
Carbaryl						5
Chlordane						0.15
Chlorpyrifos						0.05
2,4-D						10
Danitol						----
4,4'-DDD						0.1
4,4'-DDE						0.1
4,4'-DDT						0.1
Demeton						0.2
Diazinon						0.5
Dicofol						20
Dieldrin						0.1
Diuron						0.09
Endosulfan I (alpha)						0.1
Endosulfan II (beta)						0.1
Endosulfan Sulfate						0.1
Endrin						0.1
Gamma - Hexachlorocyclohexane (Lindane)						0.05
Guthion						0.10
Heptachlor						0.05
Heptachlor Epoxide						1.0
Hexachlorophene						10
Malathion						0.10
Methoxychlor						2.0
Mirex						0.2
Parathion						0.1
Toxaphene						5
2,4,5-TP (Silvex)						2

* Indicate units if different from mg/L.

5. TABLE 5:

Complete table required for all external outfalls. Not required for internal outfalls. (Instructions, Page 52)

TABLE 5

Outfall No.: 006 □C □G	Believed Present	Believed Absent	Effluent Concentration (mg/l)		
Pollutants			**Average**	**Maximum**	**No. of Samples**
Bromide		X			
Color(PCU)		X			
Nitrate-Nitrite(as N)	X		1.246	2.32	4
Sulfide(as S)		X			
Sulfite(as SO_3)		X			
Surfactants		X			
Total Antimony	X		4.0125	6.6	4
Total Beryllium	X		<1.34	<1.34	4
Total Boron	X		92.725	105	4
Total Cobalt		X			
Total Iron	X		291	356	4
Total Magnesium	X		9546.7	10700	4
Total Molybdenum		X			
Total Manganese	X		25.15	27.4	4
Total Thallium	X		<7.84	<7.84	4
Total Tin		X			
Total Titanium		X			

6. TABLE 6:

Indicate with a check mark any of the industrial caategories applicable to your facility. If testing is required, indicate with a check mark in the box provided that the testing results for the appropriate parameters in Table B-7 are provided with the application. (Instructions, Page 52)

_____N/A	GC/MS Testing Required			
	Volatile	**Acid**	**Base/Neutral**	**Pesticides**
_____ Adhesives and Sealants	Yes ☐	Yes ☐	Yes ☐	No
_____ Aluminum Forming	Yes ☐	Yes ☐	Yes ☐	No
_____ Auto and Other Laundries	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Battery Manufacturing	Yes ☐	No	Yes ☐	No
_____ Coal Mining	No	No	No	No
_____ Coil Coating	Yes ☐	Yes ☐	Yes ☐	No
_____ Copper Forming	Yes ☐	Yes ☐	Yes ☐	No
_____ Electric and Electronic Components	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Electroplating	Yes ☐	Yes ☐	Yes ☐	No
_____ Explosives Manufacturing	No	Yes ☐	Yes ☐	No
_____ Foundries	Yes ☐	Yes ☐	Yes ☐	No
_____ Gum and Wood Chemicals				
_____Subparts A,B,C,E	Yes ☐	Yes ☐	No	No
_____Subparts D,F	Yes ☐	Yes ☐	Yes ☐	No
_____ Inorganic Chemicals	Yes ☐	Yes ☐	Yes ☐	No
_____ Iron and Steel Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Leather Tanning/Finishing	Yes ☐	Yes ☐	Yes ☐	No
_____ Mechanical Products Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
_____ Nonferrous Metals Mfg.	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Ore Mining(Subpart B)	No	Yes ☐	No	No
_____ Organic Chemicals, Plastics, and Synthetic Fibers	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Paint and Ink Formulation	Yes ☐	Yes ☐	Yes ☐	No
_____ Pesticides	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Petroleum Refining	Yes ☐	No	No	No
_____ Pharmaceutical Preparations	Yes ☐	Yes ☐	Yes ☐	No
_____ Photographic Equipment and Supplies	Yes ☐	Yes ☐	Yes ☐	No
_____ Plastic and Synthetic Materials Manufacturing	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Plastic Processing	Yes ☐	No	No	No
_____ Porcelain Enameling	No	No	No	No
_____ Printing and Publishing	Yes ☐	Yes ☐	Yes ☐	Yes ☐
_____ Pulp and Paperboard Mills				
_____Subparts A	* ☐	Yes ☐	* ☐	Yes ☐
_____Subparts B, C, D, R	* ☐	Yes ☐	* ☐	* ☐
_____Subparts F, G, H, I, K, L, M, N, O, P	Yes ☐	Yes ☐	* ☐	* ☐
_____Subparts E, Q, S, T	Yes ☐	Yes ☐	* ☐	Yes ☐
_____Subparts J, U	Yes ☐	Yes ☐	Yes ☐	* ☐
_____Rubber Processing	Yes ☐	Yes ☐	Yes ☐	No
_____Soap and Detergent Manufacturing	Yes ☐	Yes ☐	Yes ☐	No
✔ Steam Electric Power Plants	Yes ☑	Yes ☑	No	No
_____ Textile Mills (Not Subpart C)	Yes ☐	Yes ☐	Yes ☐	No
_____ Timber Products Processing	Yes ☐	Yes ☐	Yes ☐	Yes ☐

* Test if "believed present"

7. TABLE 7:

Please complete as directed and only for those parameters specified in Table 6 . Required for all external outfalls which contain process wastewater. Not required for internal outfalls. Testing may be required for types of industry not specified in Table 6 for specific parameters if believed present (Instructions, Pages 52-53).

TABLE 7

Outfall No.: 006 ☐C ▣G	Effluent Concentration (µg/l)*			
Pollutants / **VOLATILE COMPOUNDS**	**Average**	**Maximum**	**Number of Samples**	**MAL (µg/l)**
Acrolein	<50	<50	4	50
Acrylonitrile	<50	<50	4	50
Benzene	<10	<10	4	10
Bromoform	<10	<10	4	10
Carbon Tetrachloride	<10	<10	4	10
Chlorobenzene	<10	<10	4	10
Chlorodibromomethane	1.21	1.96	4	10
Chloroethane	<50	<50	4	50
2-Chloroethylvinyl Ether	<10	<10	4	10
Chloroform	<10	<10	4	10
Dichlorobromomethane	0.878	1.8	4	10
1,1-Dichloroethane	<10	<10	4	10
1,2-Dichloroethane	<10	<10	4	10
1,1-Dichloroethylene	<10	<10	4	10
1,2-Dichloropropane	<10	<10	4	10
1,3-Dichloropropylene	<10	<10	4	10
Ethylbenzene	<10	<10	4	10
Methyl Bromide	<50	<50	4	50
Methyl Chloride	<50	<50	4	50
Methylene Chloride	<20	<20	4	20
1,1,2,2-Tetrachloroethane	<10	<10	4	10
Tetrachloroethylene	<10	<10	4	10
Toluene	<10	<10	4	10
1,2-Trans-Dichloroethylene	<10	<10	4	10
1,1,1-Trichloroethane	<10	<10	4	10
1,1,2-Trichloroethane	<10	<10	4	10
Trichloroethylene	<10	<10	4	10
Vinyl Chloride	<10	<10	4	10

Pollutants	Effluent Concentration (µg/l)*			
	Average	Maximum	Number of Samples	MAL (µg/l)
ACID COMPOUNDS				
2-Chlorophenol	<10	<10	4	10
2,4-Dichlorophenol	<10	<10	4	10
2,4-Dimethylphenol	<10	<10	4	10
4,6-Dinitro-o-Cresol	<50	<50	4	50
2,4-Dinitrophenol	<50	<50	4	50
2-Nitrophenol	<20	<20	4	20
4-Nitrophenol	<50	<50	4	50
P-Chloro-m-Cresol	<10	<10	4	10
Pentalchlorophenol	<50	<50	4	50
Phenol	<10	<10	4	10
2,4,6-Trichlorophenol	<10	<10	4	10
BASE/NEUTRAL COMPOUNDS				
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				10
Benzo(a)Pyrene				10
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				10
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butylbenzyl Phthalate				10
2-chloronaphthalene				10
4-chlorophenyl phenyl ether				10
Chrysene				10
Dibenzo(a,h)Anthracene				20
1,2-Dichlorobenzene				10
1,3-Dichlorobenzene				10
1,4-Dichlorobenzene				10
3,3-Dichlorobenzidine				50
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitroluene				10
Di-n-Octyl Phthalate				10

	Effluent Concentration (µg/l)*			
Pollutants	**Average**	**Maximum**	**No. of Samples**	**MAL (µg/l)**
BASE/NEUTRAL COMPOUNDS (cont.)				
1,2-Diphenyl Hydrazine (as Azobenzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				10
Hexachlorobutadiene				10
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				20
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10
PESTICIDES				
Aldrin				0.05
alpha-BHC				0.05
beta-BHC				0.05
gamma-BHC				0.05
delta-BHC				0.05
Chlordane				0.15
4,4-DDT				0.1
4,4-DDE				0.1
Dieldrin				0.1
alpha-Endosulfan				0.1
beta-Endosulfan				0.1
Endosulfan Sulfate				0.1
Endrin				0.1
Endrin Aldehyde				0.1
Heptachlor				0.05
Heptachlor Epoxide				
PCB-1254				1.0
PCB-1221				1.0
PCB-1242				
PCB-1232				1.0
PCB-1248				1.0
PCB-1260				1.0
PCB-1016				1.0
Toxaphene				5.0

*** Indicate units if different from µg/l**

8. TABLE 8 (DIOXINS/FURAN COMPOUNDS):

Please complete as directed. Not required for internal outfalls. (Instructions, Pages 53-54)

a. Are any of the following compounds manufactured and/or u sed in a process at t he facility? ☐ Yes ☑ No

If **yes**, i ndicate w ith a ch eck mark the compound(s) which apply and provide a brief description of the conditions of its/their presence at the facility.

☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CAS #93-76-5
☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CAS #93-72-1
☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CAS #136-25-4
☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CAS #299-84-3
☐ 2,4,5-trichlorophenol (TCP) CAS #95-95-4
☐ Hexachlorophene (HCP) CAS #70-30-4

b. Do y ou k now or have a ny reason to b elieve that 2, 3,7,8 Te trachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent? ☐ Yes ☑ No

If **yes,** provide a brief description of the conditions for its presence.

c. If your responded **yes** to either item **a** or **b**, complete **Table 8** as instructed.

TABLE 8

Outfall No. _____	☐C ☐G	Wastewater		Sludge		MAL (ppq)
Compound	Equivalent Factors	Concentration (ppq)	Equivalents (ppq)	Concentration (ppt)	Equivalents (ppt)	
2,3,7,8-TCDD	1					10.0
1,2,3,7,8-PeCDD	0.5					50.0
2,3,7,8-HxCDDs	0.1					50.0
2,3,7,8-TCDF	0.1					10.0
1,2,3,7,8-PeCDF	0.05					50.0
2,3,4,7,8-PeCDF	0.5					50.0
2,3,7,8-HxCDFs	0.1					50.0
Total						

9. TABLE 9 (HAZARDOUS SUBSTANCES):

Proceed complete as directed. Not required for internal outfalls. (Instructions, Pages 55)

a. Are there any pollutants listed in the instructions (page 55) believed present in the discharge?

☐Yes ☑No

b. Are there pollutants listed in Item No. 1.d. on Page No. 1 of this technical report which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

☐Yes ☑No

If your responded **yes** to either item, complete **Table 9** as instructed.

TABLE 9

Pollutant & CAS Number	Average (µg/l)	Maximum (µg/l)	No. of Samples	Analytical Method

WORKSHEET 4.0
RECEIVING WATERS

THE FOLLOWING IS REQUIRED FOR ALL TPDES PERMIT APPLICATIONS

1. DOMESTIC DRINKING WATER SUPPLY (Instructions, Page 70)

Is there a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge?

☐ Yes ☑ No

If yes, identify owner of the drinking water supply, the distance and direction to the intake, and locate and identify the intake on the USGS map. Indicate by a check mark that the requested information is provided: ☐

2. DISCHARGE INTO TIDALLY INFLUENCED WATERS (Instructions, Page 70)

a. Width of the receiving water at the outfall? N/A feet

b. Are there oyster reefs in the vicinity of the discharge? ☐ Yes ☐ No

If yes, indicate approximate distance and direction from outfall(s):

c. Are there any sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If yes, provide the distance and direction to the grasses:

N/A

3. CLASSIFIED SEGMENT (Instructions, Page 70)

Is the discharge directly into (or within 300 feet of) a classified segment?

☐ Yes ☑ No

If yes , stop here. It is not necessary to complete items 4 and 5 and it is not necessary to complete Worksheet 2.1. **If no**, complete items 4 and 5.

4. DESCRIPTION OF IMMEDIATE RECEIVING WATERS (Instructions, Page 71)

Name of the immediate receiving waters: Dry Creek

a. Check the appropriate description of the receiving waters

☑ Man-made Channel or Ditch
☐ Stream or creek
☐ Lake or Pond
  Surface area _____ acres
  Average depth of the entire water body _____ feet
  Average depth of water body within a 500-foot radius or the discharge point _____ feet
☐ Freshwater Swamp or Marsh
☐ Tidal Stream, Bayou, or Marsh
☐ Open Bay
☐ Other: _____

If a man-made channel, ditch or stream was checked above, provide the following:

b. Check one of the following that best characterizes the area **upstream** of the discharge. For new discharges, characterize the area **downstream** of the discharge (check one).

☑ Intermittent (dry for at least one week during most years)
☐ Intermittent with Perennial Pools (enduring pools containing sufficient habitat to maintain significant aquatic life uses)
☐ Perennial (normally flowing)

Check the method used to characterize the area upstream (or downstream for new dischargers):

☐ USGS flow records
☑ personal observation
☐ historical observation by adjacent landowner(s)
☐ others, specify: _____

c. List the name(s) of all perennial streams that join the receiving water within three miles downstream of the discharge point:

Rabbs Bayou

d. Do the receiving water characteristics change within three miles downstream of the discharge? (e.g., natural or man-made dams, ponds, reservoirs, etc

☑ Yes ☐ No

If yes, discuss how:

Enters Rabbs Bayou which is perennial

e. Provide general observations of the water body during normal dry weather conditions:

Date and time of observation: See Appendix WS 4.0-4; Date 11-15-2012; 10:00 am

Was water body influenced by storm water runoff during observations?

☐ Yes ☑ No

5. GENERAL CHARACTERISTICS OF WATER BODY (Instructions, Page 71)

a. Is the receiving water upstream of the discharges or proposed discharge site influenced by (check as appropriate):

☐ oil field activities
☑ agricultural runoff
☐ upstream discharges
☑ urban runoff
☐ septic tanks
☐ others, specify below

b. Uses of water body observed or evidences of (check as appropriate):

☐ livestock watering	☐ contact recreation	☐ irrigation withdrawal
☐ non contact recreation	☐ fishing	☐ navigation
☐ domestic water supply	☐ industrial water supply	☐ picnic park activities
☐ others, specify below		

c. Check one of the following to best describe the aesthetics of the receiving water and the surrounding area:

☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area: water clarity exceptional

☐ Natural Area: trees and/or native vegetation common; some development evident (from fields, pastures,dwellings); water clarity discolored

☑ Common Setting: not offensive, developed but uncluttered; water may be colored or turbid

☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

APPENDIX WS 4.0-4
Cross Reference Technical Report, Page 40

Outfall 001 - Observation was made during dry weather conditions. There was minimal discharge at the time of the observation. Flow was minimal in the creek, water was clear and an abundance of vegetation growth was observed on the creek banks and in the creek. 11/15/2012 at 10:00 am

Outfall 002 - Observation was made during dry weather conditions. There was no discharge at the time of the observation. No flow was observed as the receiving ditch was dry. Vegetation lined the ditch. 11/15/2012 at 1:00 pm

W. A. Parish Electric Generating Station

Sewage Sludge Solids Management Plan

The Sewage Sludge Solids Management plan describes the handling of sanitary sewage sludge generated from the facility's sanitary wastewater treatment systems. The W.A. Parish Electric Generating Station (WAP) has 2 sanitary wastewater treatment systems, one of which discharges treated wastewater via Outfall 903 (903 System) and the second treatment system discharges treated wastewater via Outfall 113 (113 System).

The 903 system was installed approximately in 1978 and typically treats less than 1000 gallons per day of sanitary wastewater. The sludge is typically removed once per year and the amount of sludge/wastewater removed is 10,000 gallons. The sludge is removed from an aeration chamber which is approximately 20 ft. x 8 ft. x 8 ft., which is approximately 9,600 gallons.

The 113 system was installed approximately in 1981 and typically treats less than 7,000 gallons per day of sanitary wastewater. The sludge is typically removed four times per year and the amount of sludge/wastewater removed is 10,000 gallons each time for a total of 40,000 gallons annually. The sludge is removed from the aeration chambers of which there are 6 of 13.4 ft. x 9.6 ft. x 5 ft. which is approximately 5,000 gallons per chamber for a total of 30,000 gallons.

When sludge it removed, it is typically 10% solids and is manifested for disposal at Waste Management's Coastal Plains facility. Manifests are retained in the WAP's file system.

WORKSHEET 6.0
INDUSTRIAL WASTE CONTRIBUTION

1. ALL POTWs (Instructions, Page 76)

a. Does your POTW have, or is it required to develop an approved pretreatment program? ☐ Yes ☐ No

If yes, skip to item 2. If no, answer the remaining questions in item 1 and all questions in item 3.

b. Provide the number of each of the following types of industrial users that discharge to your POTW and the flows from each.

Type of industrial user	Number of industrial users	Average Flows in MGD
CIUs		
SIUs - Non-categorical		
Other IUs		

c. In the past three years, has your POTW experienced treatment plant interference as defined in the definition section of the instructions? ☐ Yes ☐ No

If yes, identify all dates, duration, description of interference, probable cause(s) and possible source(s).

d. In the past three years, has your POTW experienced pass through as defined in the definition section of the instruction? ☐ Yes ☐ No

If yes, identify all dates, duration, description of pollutants passing through the treatment plant, probable cause(s) and possible source(s).

2. POTWS WITH APPROVED PROGRAMS OR THOSE REQUIRED TO DEVELOP PROGRAM (Instructions, Pages 76)

a. Have there been any substantial modifications to the POTWs approved pretreatment program that have not been approved according to 40 CFR Section 403.18?

☐ Yes ☐ No

If yes, identify on a separate attachment all substantial and nonsubstantial modifications that have not been submitted to the Approval Authority (TCEQ).

Attachment: _____

Please note that following TPDES Permit issuance, all POTWs with an approved pretreatment program, or are required to develop an approved pretreatment program must provide a written technical evaluation of the need to modify the POTWs Pretreatment Program and revised the TBLLs according to 40 CFR Section 403.5(c)(1).

b. In the past three years, has the POTW experienced treatment plant interference as defined in the application instructions?

☐ Yes ☐ No

If yes, identify all dates, duration, description of interference, probable cause(s) and possible source(s).

N/A

c. In the past three years, has the POTW experienced passthrough as defined in the application instruction?

☐ Yes ☐ No

If yes, identify all dates, duration, description of pollutants passing through the treatment plant, probable cause(s) and possible source(s).

d. List all parameters measured above the MAL in POTWs effluent annual monitoring scan during the last three years.

Pollutant	Concentration	MAL	Units	Date

e. Has the SIU caused or contributed to any problems (e.g., interferences, pass through) at your POTW in the past three years?

☐ Yes ☐ No

If **yes**, provide a description of each episode, including dates, duration, description of problems, and probable pollutants.

3. SIGNIFICANT INDUSTRIAL USER (SIU) INFORMATION (Instructions, Page 77)

a. Company Name: _____ SIC Code: _____
Telephone number: _____ Fax number: (281) 343-2100
Contact name: _____
Street No.: 2500 Street name: Y.U. Jones Street type: Rd
City: Houston State: TX Zip Code: _____

b. Describe the industrial processes of other activities that affect or contribute to the SIU(s) discharge:

c. Provide a description of the principal products(s):

d. Flow rate information:

Flow information	Gallons per day discharged	Continuous, batch or intermittent discharge
Process wastewater		
Non-process wastewater		

e. Pretreatment Standards: Indicate whether the SIU is subject to the following:

Technically based local limits as defined in the instruction section of the application: ☐ Yes ☐ No

Categorical pretreatment standards: ☐ Yes ☐ No

If subject to categorical pretreatment standards, indicate the category and subcategory:

Category in 40 CFR	Subcategory in 40 CFR	Subcategory in 40 CFR	Subcategory in 40 CFR	Subcategory in 40 CFR

f. Has the SIU caused or contributed to any problems (e.g., interferences, pass through) at your POTW in the past three years? ☐ Yes ☐ No

If **yes**, provide a description of each episode, including dates, duration, description of problems, and probable pollutants.

Figure 4
Aerial 1:24,000 Scale

Legend

- Outfall Location
- 1-Mile Stream Segments from Outfalls
- NRG Texas Power LLC
- 1-mile radius of NRG facility
- Land Parcels Adjacent to Site
- Half-Mile Buffer of Discharge into Lake

ID	Tax Owner(s) Name	Street Address	City	State	Zip
1	ARROYO SECO HISTORICAL PARK	C/O THE GEORGE FOUNDATION 207 S 3RD ST	RICHMOND	TX	77469-3135
2	ABRAHAM BOETTCHER	2220 STEHLE RD	ROSENBERG	TX	77471-9625
	MASON BOOTH GST EXEMPT TRUST	C/O RON RHEMANN TRUSTEE P.O. BOX 1068	RICHMOND	TX	77406
	SARAH BOOTH GST EXEMPT TRUST	C/O RON RHEMANN TRUSTEE P.O. BOX 1068	RICHMOND	TX	77406
	MASON BOOTH FAMILY TRUST	C/O RON RHEMANN TRUSTEE P.O. BOX 1068	RICHMOND	TX	77406
3	SARAH BOOTH FAMILY TRUST	C/O RON RHEMANN TRUSTEE P.O. BOX 1068	RICHMOND	TX	77406
4	TOMMIE WILLIAMS	6118 BACHER ST	HOUSTON	TX	77028-4566
5	BRAZOS VALLEY ENERGY LLC	717 TEXAS AVE STE 1000	HOUSTON	TX	77002-2743
6	CENTERPOINT ENERGY HOUSTON ELECTRIC LLC	ATTN PROPERTY TAX DEPT PO BOX 1475	HOUSTON	TX	77251-1475
	ERNEST M CLARK JR TRUST ET AL	TRUSTEE P.O. BOX 2340	SANTA BARBARA	CA	93140
7	HURLEY ESTATES	333 CLAY ST STE 3300	HOUSTON	TX	77002
	ERNEST M CLARK JR TRUST ET AL	TRUSTEE P.O. BOX 2340	SANTA BARBARA	CA	93140
8	HURLEY HEIRS	333 CLAY ST STE 3300	HOUSTON	TX	77002
9	JIM CLIFTON	2603 LOCKWOOD RD	RICHMOND	TX	77469-8333

ID	Tax Owner(s) Name	Street Address	City	State	Zip
10	FORT BEND COUNTY	500 LIBERTY ST #101	RICHMOND	TX	77469-3500
11	GEORGE FOUNDATION	PMB STE C 310 MORTON ST	RICHMOND	TX	77469-3119
12	DOROTHY HARRISON	PO BOX 176	RICHMOND	TX	77406-0176
13	J HARRISON	PO BOX 176	RICHMOND	TX	77406-0176
14	JAMES HARRISON	PO BOX 376	RICHMOND	TX	77406-0376
15	W A HARRISON ET AL	RR 1 BOX 5	WHARTON	TX	77488-9701
16	KEVIN DWAYNE HOBBS	2227 Y U JONES RD	RICHMOND	TX	77469
17	DEONDRA JACKSON	5802 GRANDE GABLES DR	RICHMOND	TX	77469-9850
18	JAMES T & JUANITA B JOINES	1819 Y U JONES RD	RICHMOND	TX	77469-9356
19	SHERRIE KNOEPFEL	PO BOX 31	THOMPSONS	TX	77481-0031
20	LYN H & ROSEMARY LEVENS	12201 FM 2759 RD	RICHMOND	TX	77469-8328
21	SHARON LINDSEY	2003 Y U JONES RD	RICHMOND	TX	77469-9355
22	LOPEZ GOLF MANAGEMENT INC	3524 5TH ST	STAFFORD	TX	77477-6608
	MASON BOOTH FAMILY TRUST	C/O RON RHEMANN TRUSTEE P.O. BOX 1068	RICHMOND	TX	77406
23	SARAH BOOTH FAMILY TRUST	C/O RON RHEMANN TRUSTEE P.O. BOX 1068	RICHMOND	TX	77406

ID	Tax Owner(s) Name	Street Address	City	State	Zip
24	BRUCE A MENDEL & TRACY L MENDEL RICHARDS	PO BOX 34	THOMPSONS	TX	77481-0034

ID	Tax Owner(s) Name	Street Address	City	State	Zip
25	CHARLES E MILLER ET AL	P.O. BOX 398292	DALLAS	TX	75339
26	MYRTIS EATON SHIFTAR LIVING TRUST	126 WATERFRONT DR	MONTGOMERY	TX	77356-2374
27	RIVERS RANCH INC	1215 GESSNER DR	HOUSTON	TX	77055-6013
28	PRESTON ROSS	2223 Y U JONES RD	RICHMOND	TX	77469-9316
29	PRESTON & BESSIE LEE ROSS	2223 Y U JONES RD	RICHMOND	TX	77469-9316
30	SARAH BOOTH FAMILY TRUST	C/O RONALD H RHEMANN P.O. BOX 1068	RICHMOND	TX	77406
31	BETTIE SCHEFFER	C/O LEE ROY SCHEFFER 1401 6TH ST	ROSENBERG	TX	77471-3526
32	LEE ROY SCHEFFER	1401 6TH ST	ROSENBERG	TX	77471
33	SCOTT KATHY & TONY CALVIN	15426 WILLVIEW RD	MISSOURI CITY	TX	77489-2401
34	SEBESTA RON REALTY RETIREMENT PLAN	C/O RON SEBESTA TR PO BOX 22100	SANTA FE	NM	87502-2100
35	HERMAN SOLOMAN	C/O TOMMIE WILLIAMS 6118 BACHER ST	HOUSTON	TX	77028-4566
36	STEVE SOLOMON	177 SEAVIEW ST	PORT HUENEME	CA	93041-3323
37	CATHERINE ULLRICH	2523 LOCKWOOD RD	RICHMOND	TX	77469-9336
38	JOHNNIE ULLRICH	PO BOX 33	THOMPSONS	TX	77481-0033
39	JOSEPH ULLRICH	1212 Y U JONES RD	RICHMOND	TX	77469-9359

ID	Tax Owner(s) Name	Street Address	City	State	Zip
40	WALTER ULLRICH	2527 LOCKWOOD RD	RICHMOND	TX	77469-9336
41	WALTER & THERESA ULLRICH	2527 LOCKWOOD RD	RICHMOND	TX	77469-9336
42	JAMES ARTHUR & MARY J WENTZ	2009 LOCKWOOD BYP	RICHMOND	TX	77469-9305
43	NORFLEET III & HENRIETTA WILLIAMS	6118 BACHER ST	HOUSTON	TX	77028-4566

Quick Reference Tax ID	Property Number	Tax Owner Name	Address Line 1
R127469	0348-00-000-0016-901	Fort Bend County	500 LIBERTY ST
R127974	0044-00-000-0583-901	Knoepfel Sherrie	
R135349	0039-00-000-0569-901	Williams Norfleet III & Henrietta	6118 BACHER ST
R135351	0039-00-000-0570-901	Williams Tommie	6118 BACHER ST
R136067	0044-00-000-0783-901	Sebesta Ron Realty Retirement Plan	
R147410	0039-00-000-0566-901	Levens Lyn H & Rosemary	12201 FM 2759 RD
R149511	0204-00-000-0011-901	Anderson Belle	1401 6th St
R149512	0204-00-000-0011-901	Burnaman Bettie Jane	1401 6th St
R149513	0204-00-000-0011-901	Scheffer Lee Roy	1401 6th St
R149514	0204-00-000-0011-901	Marjorie A Poe Revocable Living Trust	1401 6th St
R149515	0204-00-000-0011-901	Scheffer David Fred	1401 6th St
R149516	0204-00-000-0011-901	Scheffer Melvin Richard	1401 6th St
R149517	0204-00-000-0011-901	Scheffer Daniel Ray	1401 6th St
R158980	0044-00-000-0525-901	Joines James T & Juanita B	1819 Y U Jones RD
R165506	0044-00-000-0518-901	Knoepfel Sherrie	
R165507	0044-00-000-0519-901	Knoepfel Sherrie	
R199195	0041-00-000-0021-901	George Foundation	
R225162	0044-00-000-0788-901	Sebesta Ron Realty Retirement Plan	
R260346	0348-00-000-0200-901	Brazos Valley Energy LLC	717 Texas AVE
R271825	0348-00-000-0112-901	Centerpoint Energy Houston Electric LLC	
R271827	0102-00-000-0095-901	NRG Texas Power LLC	211 Carnegie CTR
R271831	0758-00-000-0050-901	NRG Texas Power LLC	211 Carnegie CTR
R271838	0038-00-000-0015-901	Centerpoint Energy Houston Electric LLC	
R277337	0038-00-000-0017-901	Centerpoint Energy Houston Electric LLC	
R277338	0039-00-000-0162-901	Centerpoint Energy Houston Electric LLC	
R31859	0018-00-000-0221-901	Centerpoint Energy Houston Electric LLC	
R31881	0018-00-000-0420-901	Harrison James	
R31882	0018-00-000-0430-901	HARRISON W A ETAL	
R31883	0018-00-000-0431-901	Centerpoint Energy Houston Electric LLC	

R31904	0018-00-000-0610-901	JACKSON DEONDRA	
R331997	0038-00-000-0018-901	Centerpoint Energy Houston Electric LLC	
R331998	0039-00-000-0163-901	Centerpoint Energy Houston Electric LLC	
R332000	0348-00-000-0131-901	NRG Texas Power LLC	211 Carnegie CTR
R332001	0348-00-000-0018-901	NRG Texas Power LLC	211 Carnegie CTR
R332004	0348-00-000-0113-901	NRG Texas Power LLC	211 Carnegie CTR
R33648	0038-00-000-0010-901	NRG Texas Power LLC	211 Carnegie CTR
R33649	0038-00-000-0011-901	Fort Bend County	500 LIBERTY ST
R33650	0038-00-000-0020-901	NRG Texas Power LLC	211 Carnegie CTR
R33658	0039-00-000-0090-901	Lopez Golf Management INC	3524 5th ST
R33662	0039-00-000-0101-901	Rivers Ranch INC	1215 Gessner DR
R317805	0039-00-000-0130-901	Booth Mason GST Exempt Trust	P.O. Box 1068
R317804	0039-00-000-0130-901	Booth Sarah GST Exempt Trust	P.O. Box 1068
R33668	0039-00-000-0130-901	Mason Booth Family Trust	P.O. Box 1068
R186716	0039-00-000-0130-901	Sarah Booth Family Trust	P.O. Box 1068
R33669	0039-00-000-0140-901	Mason Booth Family Trust	P.O. Box 1068
R321596	0039-00-000-0140-901	Sarah Booth Family Trust	P.O. Box 1068
R33670	0039-00-000-0150-901	Boettcher Abraham	2220 Stehle RD
R33671	0039-00-000-0151-901	HARRISON J	
R33672	0039-00-000-0160-901	NRG Texas Power LLC	211 Carnegie CTR
R33674	0039-00-000-0350-901	NRG Texas Power LLC	211 Carnegie CTR
R33678	0039-00-000-0380-901	George Foundation	
R33687	0039-00-000-0422-901	Miller Charles E etal	P.O. Box 398292
R33682	0039-00-000-0422-901	NRG Texas Power LLC	211 Carnegie CTR
R33683	0039-00-000-0440-901	Levens Lyn H & Rosemary	12201 FM 2759 RD
R33710	0039-00-000-0520-901	NRG Texas Power LLC	211 Carnegie CTR
R33725	0039-00-000-0561-901	Levens Lyn H & Rosemary	12201 FM 2759 RD
R33726	0039-00-000-0562-901	Soloman Herman	6118 BACHER ST

R33728	0039-00-000-0564-901	Levens Lyn H & Rosemary	12201 FM 2759 RD
R33729	0039-00-000-0565-901	Solomon Steve	177 Seaview ST
R33736	0039-00-000-0620-901	Centerpoint Energy Houston Electric LLC	
R33738	0041-00-000-0010-901	George Foundation	
R33739	0041-00-000-0011-901	Arroyo Seco Historical Park	207 S 3rd ST
R33740	0041-00-000-0020-901	NRG Texas Power LLC	211 Carnegie CTR
R33859	0044-00-000-0005-901	Centerpoint Energy Houston Electric LLC	
R33880	0044-00-000-0150-901	Centerpoint Energy Houston Electric LLC	
R33898	0044-00-000-0210-901	Ullrich Joseph	1212 Y U Jones RD
R33912	0044-00-000-0280-901	Ross Preston & Bessie Lee	2223 Y U JONES RD
R33913	0044-00-000-0300-901	CLIFTON JIM	
R33921	0044-00-000-0450-901	Wentz James Arthur & Mary J	2009 Lockwood BYP
R33933	0044-00-000-0520-901	LINDSEY SHARON	
R33934	0044-00-000-0521-901	Centerpoint Energy Houston Electric LLC	
R33950	0044-00-000-0580-901	Centerpoint Energy Houston Electric LLC	
R33965	0044-00-000-0770-901	Hobbs Kevin Dwayne	2227 Y U Jones Rd
R33967	0044-00-000-0781-901	ROSS PRESTON	
R33968	0044-00-000-0782-901	Centerpoint Energy Houston Electric LLC	
R33970	0044-00-000-0800-901	Ullrich Johnnie	
R33971	0044-00-000-0810-901	Ullrich Johnnie	
R33972	0044-00-000-0820-901	Ullrich Joseph	1212 Y U Jones RD
R33973	0044-00-000-0821-901	Ullrich Catherine	2523 LOCKWOOD RD
R33974	0044-00-000-0822-901	Ullrich Walter	2527 LOCKWOOD RD
R33975	0044-00-000-0823-901	Ullrich Walter & Theresa	2527 Lockwood RD
R33981	0044-00-000-0870-901	Centerpoint Energy Houston Electric LLC	
R34406	0048-00-000-0130-901	Mason Booth Family Trust	P.O. Box 1068
R321604	0048-00-000-0130-901	Sarah Booth Family Trust	P.O. Box 1068

R34427	0048-00-000-0330-901	Harrison Dorothy	
R35054	0056-00-000-0050-901	George Foundation	
R358224	0039-00-000-0574-901	Scott Kathy & Tony Calvin	15426 Willview RD
R39566	0087-00-000-0010-901	NRG Texas Power LLC	211 Carnegie CTR
R41017	0102-00-000-0090-901	George Foundation	
R41018	0102-00-000-0091-901	NRG Texas Power LLC	211 Carnegie CTR
R41019	0102-00-000-0092-901	Fort Bend County	500 LIBERTY ST
R41020	0102-00-000-0093-901	Fort Bend County	500 LIBERTY ST
R41021	0102-00-000-0100-901	NRG Texas Power LLC	211 Carnegie CTR
R41022	0102-00-000-0110-901	NRG Texas Power LLC	211 Carnegie CTR
R41023	0102-00-000-0130-901	NRG Texas Power LLC	211 Carnegie CTR
R42366	0164-00-000-0010-901	Clark Ernest M Jr Trust etal	P.O. Box 2340
R42369	0164-00-000-0010-901	Hurley Estates	333 Clay St
R42371	0164-00-000-0020-901	Clark Ernest M Jr Trust etal	P.O. Box 2340
R42375	0164-00-000-0020-901	Hurley Estates	333 Clay St Ste 3300
R43315	0204-00-000-0010-901	SCHEFFER BETTIE	1401 6th ST
R43318	0204-00-000-0050-901	Myrtis Eaton Shiftar Living Trust	126 Waterfront DR
R45116	0273-00-000-0010-901	George Foundation	
R45117	0273-00-000-0011-901	NRG Texas Power LLC	211 Carnegie CTR
R45118	0273-00-000-0020-901	NRG Texas Power LLC	211 Carnegie CTR
R46222	0343-00-000-0020-901	Mendel Bruce A & Tracy L Mendel Richards	
R46246	0348-00-000-0010-901	Clark Ernest M Jr Trust etal	P.O. Box 2340
R46249	0348-00-000-0010-901	Hurley Heirs	333 Clay St Ste 3300
R46251	0348-00-000-0015-901	NRG Texas Power LLC	211 Carnegie CTR
R46252	0348-00-000-0020-901	NRG Texas Power LLC	211 Carnegie CTR
R46253	0348-00-000-0030-901	NRG Texas Power LLC	211 Carnegie CTR

R46254	0348-00-000-0090-901	George Foundation	
R46255	0348-00-000-0091-901	NRG Texas Power LLC	211 Carnegie CTR
R46256	0348-00-000-0100-901	NRG Texas Power LLC	211 Carnegie CTR
R46257	0348-00-000-0110-901	NRG Texas Power LLC	211 Carnegie CTR
R46258	0348-00-000-0111-901	Fort Bend County	500 LIBERTY ST
R46259	0348-00-000-0130-901	NRG Texas Power LLC	211 Carnegie CTR
R46553	0368-00-000-0011-901	Arroyo Seco Historical Park	207 S 3rd ST
R49792	0758-00-000-0010-901	NRG Texas Power LLC	211 Carnegie CTR
R49793	0758-00-000-0020-901	NRG Texas Power LLC	211 Carnegie CTR
R49794	0758-00-000-0030-901	NRG Texas Power LLC	211 Carnegie CTR

Address Line 2	OADDR3	City	State	Zip
500 LIBERTY ST # 101		RICHMOND	TX	77469-3500
PO Box 31		Thompsons	TX	77481-0031
6118 BACHER ST		HOUSTON	TX	77028-4566
6118 BACHER ST		HOUSTON	TX	77028-4566
c/o RON SEBESTA TR	PO BOX 22100	SANTA FE	NM	87502-2100
12201 FM 2759 RD		Richmond	TX	77469-8328
		Rosenberg	TX	77471
		Rosenberg	TX	77471
		Rosenberg	TX	77471
		Rosenberg	TX	77471
		Rosenberg	TX	77471
		Rosenberg	TX	77471
		Rosenberg	TX	77471
1819 Y U Jones RD		Richmond	TX	77469-9356
PO Box 31		Thompsons	TX	77481-0031
PO Box 31		Thompsons	TX	77481-0031
PMB STE C 310 MORTON ST		RICHMOND	TX	77469-3119
c/o RON SEBESTA TR	PO BOX 22100	SANTA FE	NM	87502-2100
717 Texas AVE STE 1000		Houston	TX	77002-2743
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
PO Box 376		Richmond	TX	77406-0376
RR 1 BOX 5		WHARTON	TX	77488-9701
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475

5802 GRANDE GABLES DR		RICHMOND	TX	77469-9850
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
500 LIBERTY ST # 101		RICHMOND	TX	77469-3500
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
3524 5th ST		Stafford	TX	77477-6608
1215 Gessner DR		Houston	TX	77055-6013
c/o Ron Rhemann Trustee		Richmond	TX	77406
c/o Ron Rhemann Trustee		Richmond	TX	77406
c/o Ron Rhemann Trustee		Richmond	TX	77406
c/o Ronald H Rhemann		Richmond	TX	77406
c/o Ron Rhemann Trustee		Richmond	TX	77406
c/o Ron Rhemann Trustee		Richmond	TX	77406
2220 Stehle RD		Rosenberg	TX	77471-9625
PO BOX 376		RICHMOND	TX	77406-0376
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
PMB STE C 310 MORTON ST		RICHMOND	TX	77469-3119
		Dallas	TX	75339
		Princeton	NJ	8540
12201 FM 2759 RD		Richmond	TX	77469-8328
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
12201 FM 2759 RD		Richmond	TX	77469-8328
c/o Tommie Williams 6118 BACHER ST		HOUSTON	TX	77028-4566

12201 FM 2759 RD		Richmond	TX	77469-8328
177 Seaview ST		Port Hueneme	CA	93041-3323
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
PMB STE C 310 MORTON ST		RICHMOND	TX	77469-3119
c/o The George Foundation 207 S 3rd ST		RICHMOND	TX	77469-3135
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
1212 Y U Jones RD		Richmond	TX	77469-9359
2223 Y U JONES RD		RICHMOND	TX	77469-9316
2603 LOCKWOOD RD		RICHMOND	TX	77469-8333
2009 Lockwood BYP		Richmond	TX	77469-9305
2003 Y U JONES RD		RICHMOND	TX	77469-9355
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
		Richmond	TX	77469
2223 Y U JONES RD		RICHMOND	TX	77469-9316
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
PO BOX 33		THOMPSONS	TX	77481-0033
PO BOX 33		THOMPSONS	TX	77481-0033
1212 Y U Jones RD		Richmond	TX	77469-9359
2523 LOCKWOOD RD		RICHMOND	TX	77469-9336
2527 LOCKWOOD RD		RICHMOND	TX	77469-9336
2527 Lockwood RD		Richmond	TX	77469-9336
Attn Property Tax Dept PO Box 1475		Houston	TX	77251-1475
c/o Ron Rhemann Trustee		Richmond	TX	77406
c/o Ron Rhemann Trustee		Richmond	TX	77406

PO Box 176		Richmond	TX	77406-0176
PMB STE C 310 MORTON ST		RICHMOND	TX	77469-3119
15426 Willview RD		Missouri City	TX	77489-2401
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
PMB STE C 310 MORTON ST		RICHMOND	TX	77469-3119
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
500 LIBERTY ST # 101		RICHMOND	TX	77469-3500
500 LIBERTY ST # 101		RICHMOND	TX	77469-3500
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
c/o SBB & T/ Pacific Capital Bank Trustee		Santa Barbara	CA	93140
		Houston	TX	77002
c/o SBB & T/ Pacific Capital Bank Trustee		Santa Barbara	CA	93140
		Houston	TX	77002
c/o LEE ROY SCHEFFER 1401 6th ST		ROSENBERG	TX	77471-3526
126 Waterfront DR		Montgomery	TX	77356-2374
PMB STE C 310 MORTON ST		RICHMOND	TX	77469-3119
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
PO BOX 34		THOMPSONS	TX	77481-0034
c/o SBB & T/ Pacific Capital Bank Trustee		Santa Barbara	CA	93140
		Houston	TX	77002
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540

PMB STE C 310 MORTON ST		RICHMOND	TX	77469-3119
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
500 LIBERTY ST # 101		RICHMOND	TX	77469-3500
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
c/o The George Foundation 207 S 3rd ST		RICHMOND	TX	77469-3135
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540
C/o Property Tax Dept 211 Carnegie CTR		Princeton	NJ	8540

OwnerID	Legal Description
O0009421	0348 SAMUEL YOUNG, ACRES 3.33, 80 FT RD ROW, EXEMPT
O0391702	0044 S KENNEDY, ACRES 0.193
O0265830	0039 HY JONES, TRACT 3, ACRES 9.331
O0265838	0039 HY JONES, TRACT 4, ACRES 9.331
O0048874	0044 S KENNEDY, ACRES 1.745, (HL&P EASEMENT), (PT) 20.104 ACRE TRACT
O0330822	0039 HY JONES, TRACT 56 (PT), ACRES .50
O0235843	0204 J HIGHLAND, ACRES 16.889
O0235853	0204 J HIGHLAND, ACRES 16.889
O0162686	0204 J HIGHLAND, ACRES 16.889
O0263362	0204 J HIGHLAND, ACRES 16.889
O0235872	0204 J HIGHLAND, ACRES 16.889
O0235881	0204 J HIGHLAND, ACRES 16.889
O0235890	0204 J HIGHLAND, ACRES 16.889
O0347897	0044 S KENNEDY, ACRES 4.888
O0391702	0044 S KENNEDY, ACRES 15.166
O0391702	0044 S KENNEDY, ACRES 5.185
O0304021	0041 JOHN JONES, TRACT 2 (PT), ACRES 216.63
O0048874	0044 S KENNEDY, ACRES 13.359, (PT) 20.104 ACRE TRACT
O0500822	0348 SAMUEL YOUNG, ACRES 105.5361 (HLA)
O0020771	
O0461875	0102 H A ALSBURY, ACRES 8.217, PART OF PARCEL PS09-021 & PART OF A 95.392 ACRE TRACT (HLA)
O0461875	0758 A P GEORGE, ACRES 2.0661, PART OF PARCEL PS09-021 & PART OF A 95.392 AC TRACT (HLA)
O0020771	
O0020771	0038 E Jeffery, ACRES 21.2373, South Part of Tract PS09-039 Proposed S & E Tract (HLA)
O0020771	0039 Hy Jones, ACRES 67.1917, North Part of Tract PS09-039, Poposed S & E Tract (HLA)
O0020771	0018 H CHRIESMAN, ACRES 0.75 (HLA)
O0287912	0018 H CHRIESMAN, TRACT 42, ACRES 86.075
O0287921	0018 H CHRIESMAN, TRACT 43, ACRES 339.475
O0020771	0018 H CHRIESMAN, ACRES 19.3010 (HLA)

O0073422	0018 H CHRIESMAN, TRACT 61, ACRES 1.0
O0020771	0038 E Jeffery, ACRES 2.4517, South Part of Tract PS09-039 Proposed S & E Tract, In City of Thompson (HLA)
O0020771	0039 Hy Jones, ACRES 27.3103, North Part of Tract PS09-039, Poposed S & E Tract, In City of Thompson (HLA)
O0461875	0348 SAMUEL YOUNG, TRACT 13 (Pt), ACRES 1.0842, Part of Tract PS09-C02, In City of Thompson (HLA)
O0461875	0348 SAMUEL YOUNG, ACRES 12.8082, Part of Parcel PS09-021 & Part of a 95.392 Acre Tract (HLA)
O0461875	0348 SAMUEL YOUNG, TRACT 11 (Pt), ACRES 13.7626, Part of Tract PS09-C02, In City of Thompson (HLA)
O0461875	0038 E JEFFERY, ACRES 1637.1248, PART OF PARCEL PS09-C02 (HLA)
O0009421	0038 E JEFFERY, TRACT 1, ACRES 0.67, EXEMPT
O0461875	0038 E JEFFERY, TRACT 2, ACRES 1.1460, PART OF TRACT PS09-C02 (HLA)
O0085959	0039 Hy Jones, TRACT 9 (Pt), ACRES 244.486
O0037316	0039 HY JONES, TRACT 10, ACRES 323.968
O0379271	0039 HY JONES, ACRES 37.25, (PT IN A-48)
O0379263	0039 HY JONES, ACRES 37.25, (PT IN A-48)
O0531917	0039 HY JONES, ACRES 37.25, (PT IN A-48)
O0531912	0039 HY JONES, ACRES 37.25, (PT IN A-48)
O0531917	0039 HY JONES, TRACT 14, ACRES 189.3
O0531917	0039 HY JONES, TRACT 14, ACRES 189.3
O0089608	0039 HY JONES, TRACT 1, ACRES 1.00
O0073121	0039 HY JONES, TRACT 2, ACRES 4.906
O0461875	0039 HY JONES, TRACT 16, ACRES 374.709, PART OF TRACT PS09-C02 (HLA)
O0461875	0039 HY JONES, TRACT 35, ACRES 25.170, & PART OF TRACT PS09-C02 (HLA)
O0304021	0039 HY JONES, TRACT 38, ACRES 1165.61
O0304098	0039 HY JONES, ACRES 46.0830, PART OF PS09-C02 (HLA)
O0461875	0039 HY JONES, ACRES 46.0830, PART OF PS09-C02 (HLA)
O0330822	0039 HY JONES, TRACT 44, ACRES 1
O0461875	0039 HY JONES, TRACT 52, ACRES 311.410, & PART OF TRACT PS09-C02 (HLA)
O0330822	0039 HY JONES, TRACT 56, ACRES 18.67
O0265847	0039 HY JONES, TRACT 1, ACRES 9.331

O0330822	0039 HY JONES, TRACT 56, ACRES .50
O0439330	0039 HY JONES, TRACT 56, ACRES 18.67
O0020771	0039 HY JONES, TRACT 62 (PT), ACRES 44.084, (PT HL&P ESMT IN CITY OF SUGAR LAND) (HLA)
O0304021	0041 JOHN JONES, ACRES 282, OUT OF 347.65 ACRES
O0316600	0041 JOHN JONES, ACRES 65.62, OUT OF A 347.62 ACRE TRACT
O0461875	0041 JOHN JONES, TRACT 2 (PT), ACRES 542.750, & PART OF PS09-C02 (HLA)
O0020771	0044 S KENNEDY, ACRES .130 (HLA)
O0020771	0044 S KENNEDY, ACRES .310 (HLA)
O0111795	0044 S KENNEDY, TRACT A,B,C & TRACT 77 (PT), MH SERIAL # 26926014696, ACRES .57, (234' X 104.5')
O0306094	0044 S KENNEDY, TRACT 28, ACRES .50
O0306104	0044 S KENNEDY, TRACT 30 105 X 210 FT, ACRES .5
O0442474	0044 S Kennedy, TRACT 45 (Pt), ACRES 22.2977
O0125485	0044 S KENNEDY, ACRES 1.219
O0020771	0044 S KENNEDY, ACRES 4.97 (HLA)
O0020771	0044 S KENNEDY, ACRES 1.59 (HLA)
O0520672	0044 S KENNEDY, TRACT 77 (PT), ACRES 1.9733
O0120159	0044 S KENNEDY, TRACT 78, ACRES .501
O0020771	0044 S KENNEDY, TRACT 78, ACRES .294 (HLA)
O0306690	0044 S KENNEDY, TRACT 80, ACRES .5
O0306690	0044 S KENNEDY, TRACT 81 105 X 210 FT, ACRES .5
O0111795	0044 S KENNEDY, TRACT 82, ACRES 2
O0225073	0044 S KENNEDY, TRACT 82, ACRES .5
O0306680	0044 S KENNEDY, TRACT 82, ACRES .5
O0468013	0044 S KENNEDY, TRACT 82, ACRES 1.875
O0020771	0044 S KENNEDY, TRACT 87, ACRES 12.25 (HLA)
O0531917	0048 A KUYKENDALL, TRACT 13, ACRES 155.94
O0531912	0048 A KUYKENDALL, TRACT 13, ACRES 155.94

O0144968	0048 A KUYKENDALL, TRACT 33, ACRES 328.08
O0304021	0056 WILEY MARTIN, ACRES 1953.16
O0447740	0039 Hy Jones, ACRES 4
O0461875	0087 L SMITHER, TRACT 1, ACRES 1191.1685, PART OD A TR PS09-C02 (HLA)
O0304021	0102 H A ALSBURY, TRACT 9, ACRES 455.83
O0461875	0102 H A ALSBURY, TRACT 9.1, ACRES 92.59, PART OF TRACT PS09-C02 (HLA)
O0009421	0102 H A ALSBURY, TRACT 9, ACRES 7.73, EXEMPT
O0009421	0102 H A ALSBURY, TRACT 9, ACRES 4.5, EXEMPT
O0461875	0102 H A ALSBURY, ACRES 41.9629 PARCEL PS09-C03 & PART OF A 95.392 ACRE TRACT (HLA)
O0461875	0102 H A ALSBURY, TRACT 11, ACRES 5.410, & PART OF TRACT PS09-C02 (HLA)
O0461875	0102 H A ALSBURY, TRACT 13, ACRES 3.940, PART OF TRACT PS09-C02 (HLA)
O0010645	0164 A J DENSON, TRACT 1, ACRES 160.00
O0024088	0164 A J DENSON, TRACT 1, ACRES 160.00
O0010645	0164 A J DENSON, TRACT 2, ACRES 162.00
O0024088	0164 A J DENSON, TRACT 2, ACRES 162.00
O0032942	0204 J HIGHLAND, TRACT 1, ACRES 13.405
O0418799	0204 J HIGHLAND, TRACT 5, ACRES 30.1
O0304021	0273 A D KELKER, TRACT 1, ACRES 1253.69
O0461875	0273 A D KELKER, TRACT 1, ACRES 4.820, & PART OF TRACT PS09-C02 (HLA)
O0461875	0273 A D KELKER, TRACT 2, ACRES 83.49, PART OF TRACT PS09-C02
O0056188	0343 JNO WADE, ACRES 161.93, (E 1/2 OF 323 ACS)
O0010645	0348 SAMUEL YOUNG, TRACT 1, ACRES 89.1371
O0339534	0348 SAMUEL YOUNG, TRACT 1, ACRES 89.1371
O0461875	0348 SAMUEL YOUNG, ACRES 30.3378, Part of Parcel PS09-021 & Part of a 95.392 Acre Tract (HLA)
O0461875	0348 SAMUEL YOUNG, TRACT 2, ACRES 0.1267, & PART OF TRACT PS09-C02 (HLA)
O0461875	0348 SAMUEL YOUNG, ACRES 0.110, PART OF TRACT PS09-C02 (HLA)

O0304021	0348 SAMUEL YOUNG, TRACT 9, ACRES 13.3
O0461875	0348 SAMUEL YOUNG, TRACT 9, ACRES 16.25, & PART OF TRACT PS09-C02 (HLA)
O0461875	0348 SAMUEL YOUNG, TRACT 10, ACRES 0.160, & PART OF TRACT PS09-C02 (HLA)
O0461875	0348 SAMUEL YOUNG, TRACT 11 (Pt), ACRES 181.7754, Part of Tract PS09-C02 (HLA)
O0009421	0348 SAMUEL YOUNG, TRACT 11, ACRES 4.7, EXEMPT
O0461875	0348 SAMUEL YOUNG, TRACT 13, ACRES 1.3808, PART OF TR.PS09-C02 (HLA)
O0316600	0368 WM RYON, ACRES 121.615
O0461875	0758 A P GEORGE, ACRES 8.860, PART OF TRACT PS09-C02 (HLA)
O0461875	0758 A P GEORGE, ACRES 0.1940, PART OF TRACT PS09-C02 (HLA)
O0461875	0758 A P GEORGE, ACRES 0.170, PART OF TRACT PS09-C02 (HLA)

Environmental
Resources
Management

15810 Park Ten Place
Suite 300
Houston, Texas 77084-5140
(281) 600-1000
(281) 600-1001 (fax)

Photographic Log

Client: NRG Texas Power LLC	**Permit Number:** 01038
Facility: WA Parish Electric Generating Station	**Location:** Thompsons, TX

Photograph ID: Dnstrm_022712_1NE

Feature: Downstream of discharge

Date: 02/27/2012

Comments: Downstream of discharge point in discharge canal; Photo taken facing NE



Photograph ID: Upstrm_022712_2SW

Feature: Upstream of discharge

Date: 02/27/2012

Comments: Upstream of discharge point in discharge canal; Photo taken facing SW





Figure 5

0 0.1 0.2 0.4 Miles

Legend

Photo Location

NRG Texas Power LLC

Appendix AR-2

Cross Reference Administrative Report, page 2

The requested amendment is to provide for the addition of a carbon capture system at the W. A. Parish Electric Generating Station (WAP). The carbon capture system will separate CO2 gas from the flue gas generated as part of the existing combustion process. The project will divert flue gas from WAP's Unit 8 in a quantity that will be equivalent to that produced by 240 MW of generation. The system will separate the CO2 gas from the flue gas, compress it and transport the CO2 gas to an oilfield where it will be used for enhanced oil recovery.

The carbon capture process involves 4 major steps:

- Flue gas conditioning
- CO2 absorption
- CO2 stripping
- CO2 compression.

This process requires additional electrical power and cooling water. A 80 mw combined cycle (gas turbine and heat recovery steam generator) will be required to provide the additional power requirements. An additional cooling tower will be necessary to provide sufficient cooling for these processes. The new cooling tower will also require and additional internal wastewater outfall for discharge of cooling tower blowdown.

A summary of the additional wastewater flow follows:

- Cooling tower blowdown and backwash from groundwater filtration will be approximately 1000 gpm, with approximately 5 gpm being from the groundwater filter backwash. This will be discharged via a new internal outfall, Outfall 123.
- Approximately 5 gpm of floor drainage will be added to Outfall 803. The additional wastewater will be from areas around the process equipment and will be similar to existing floor drainage at the Outfall. The small amount of flow will not affect the capacity of the system.
- Approximately 35 gpm of additional demineralizer wastewater will be added to Outfall 703. 30 gpm will be from an additional demineralizer added to the site as a result of this project. The additional 5 gpm will be an intermittent flow from the carbon capture system. The small amount of flow will not affect the capacity of the system.

The following table characterizes the additional waste streams:

Preliminary Project Material Balance with EFG+ Waste Water Streams					
		Outfall 123		Outfall 803	Outfall 703
		Cooling Tower Blowdown	Multimedia Backwash	Plant Drains to Tricellerator	Discharge to 7/8
PARAMETERS	Units	Cycles of concentration			Wastewater Treatment
TDS	ppm	2385	341	888	19733
P-Alkalinity, as $CaCO_3$	ppm	N/A	8	N/A	17
MO-Alkalinity, as $CaCO_3$	ppm	100	195	159	1310
Calcium Hardness, as $CaCO_3$	ppm	642	107	239	317
Magnesium Hardness, as $CaCO_3$	ppm	269	30.9	100	92
Iron (Fe)	ppm	0.81	NR	0.3	NR
Copper (Cu)	ppm	<0.07	NR	<0.05	NR
Zinc (Zn)	ppm	0.16	NR	0.06	NR
Sodium (Na)	ppm	430	60	160	6212
Potassium (K)	ppm	30	1.2	11	4
Chloride (Cl)	ppm	540	26.4	201	78
Sulfate (SO_4)	ppm	612	27.7	207	12386
Nitrate (NO_3)	ppm	<1.35	NR	<1.0	<0.86
Ortho-Phosphate (PO_4)	ppm	<0.67	NR	<0.50	<0.43
Silica (SiO_2)	ppm	64	24	24	71
Manganese (Mn)	ppm	<0.07	NR	<0.05	<0.04
TSS	ppm	27	NR	10	NR
Puckorius Scaling Index	-	6.7	7.3	7	3.9
Flow	gpm	937	3	5	35

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MISSOURI CITY QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)

FORT BEND COUNTY WCID 2
FORT BEND COUNTY WCID 2
CITY OF SUGAR LAND
CITY OF SUGAR LAND
CITY OF SUGAR LAND
CITY OF SUGAR LAND
CITY OF SUGAR LAND
CITY OF HOUSTON
FORT BEND COUNTY WCID 2
FORT BEND COUNTY WCID 2
FORT BEND COUNTY WCID 2
FORT BEND COUNTY MUD 26 QUAIL GREE
FORT BEND COUNTY MUD 26 QUAIL GREE
FORT BEND COUNTY MUD 26 QUAIL GREE
BLUE RIDGE WEST MUD
CITY OF HOUSTON
FORT BEND COUNTY MUD 42
QUAIL VALLEY UTILITY DISTRICT
BLUE RIDGE WEST MUD
CITY OF SUGAR LAND
FIRST COLONY MUD 9
MEADOWCREEK MUD
MEADOWCREEK MUD
MEADOWCREEK MUD
QUAIL VALLEY UTILITY DISTRICT
THUNDERBIRD UTILITY DISTRICT SYSTE
QUAIL VALLEY UTILITY DISTRICT
QUAIL VALLEY UTILITY DISTRICT
FORT BEND COUNTY MUD 115 RIVERSTON
THUNDERBIRD UTILITY DISTRICT 1
THUNDERBIRD UTILITY DISTRICT 1
VICKSBURG JOINT POWERS AUTHORITY
PALMER PLANTATION MUD 1
PALMER PLANTATION MUD 2
FORT BEND COUNTY MUD 46
FORT BEND COUNTY PARKS KITTY HOLLO
FORT BEND COUNTY MUD 148
FORT BEND COUNTY PARKS KITTY HOLLO
SIENNA PLANTATION MUD 1
R33658
R33662
R33725
R33726
R33736
R33729
R33725
R135349
R135351
R33683
R33728
R33728
R147410
R358224
R277338
R277338
R31883
R31882
R31882
R33671
R33671

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Planimetry by photogrammetric methods from aerial photographs taken 1968. Topography enlarged from 1:62 500 scale map of Sugar Land quadrangle dated 1955. Topography by planetable surveys. Field checked 1970

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Texas coordinate system, south central zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Fine red dashed lines indicate selected fence lines

To place on the predicted North American Datum 1983 move the projection lines 21 meters south and 22 meters east as shown by dashed corner ticks

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Revisions shown in purple compiled from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1980

Purple tint indicates extension of urban areas

SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

TEXAS
QUADRANGLE LOCATION

2995-311

ROAD CLASSIFICATION

Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route
U. S. Route
State Route

MISSOURI CITY, TEX.

29095-E5-TF-024

1970
PHOTOREVISED 1980
DMA 6843 II SE-SERIES V882

INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA-1981

Legend

- Public Water Supply Wells
- Outfall Location
- Streams from Outfall/Discharge Location to TCEQ Stream Segment
- 1202B Rabb Bayou
- 1-mile radius of NRG facility
- LakePond
- NRG Texas Power LLC
- Land Parcels Adjacent to Site

Figure 1
Missouri City 1:24,000 USGS Quadrangle

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SMITHERS LAKE QUADRANGLE
TEXAS–FORT BEND CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Culture and drainage in part compiled from aerial photographs taken 1946, 1947, and 1951. Topography by plane-table surveys by U.S. Bureau of Reclamation 1947, and by the Geological Survey 1953

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Texas coordinate system, south central zone
1000-meter Universal Transverse Mercator grid, zone 15
The difference between 1927 North American Datum and North American Datum of 1983 (NAD 83) for 7.5 minute intersections is given in USGS Bulletin 1875. The NAD 83 is shown by dashed corner ticks

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Revisions shown in purple compiled from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1980

SCALE 1:24 000

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

2995–243

ROAD CLASSIFICATION
Heavy-duty — 4 LANE | 6 LANE — Light-duty
Medium-duty — 4 LANE | 6 LANE — Unimproved dirt
U. S. Route — State Route

SMITHERS LAKE, TEX.
29095-D6-TF-024

1953
PHOTOREVISED 1980
DMA 6842 I NW-SERIES V882

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1982

Figure 1
Smithers Lake 1:24,000 USGS Quadrangle

Legend

- Public Water Supply Wells
- Outfall Location
- Streams from Outfall/Discharge Location to TCEQ Stream Segment
- 1202B Rabb Bayou
- 1-mile radius of NRG facility
- LakePond
- NRG Texas Power LLC
- Land Parcels Adjacent to Site

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUGAR LAND QUADRANGLE
TEXAS—FORT BEND CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

PECAN GROVE 20 LP
PECAN GROVE MUD
PECAN GROVE MUD
PECAN GROVE MUD
PECAN GROVE MUD
NACHOS PLANTATION CENTER
KEP FOOD STORE #2
PLANTATION FURNITURE
DIAMOND MARKET
HILLS CAFE
COUNTRY VILLAGE
COUNTRY VILLAGE
FUNSHINE ACADEMY
SHADOW GROVE ESTATES
JESTER STATE PRISON FARM
TDCJ JESTER UNITS
FORT BEND COUNTY MUD 25
TDCJ CENTRAL UNIT
TDCJ CENTRAL UNIT
TDCJ CENTRAL UNIT
CENTRAL STATE PRISON FARM
CITY OF SUGAR LAND
CITY OF SUGAR LAND
CITY OF SUGAR LAND
CITY OF SUGAR LAND
FORT BEND COUNTY MUD 112
FORT BEND COUNTY MUD 112
FORT BEND COUNTY MUD 112
VICTORY SPORTS CENTER
LA BANJER EXXON
CAFE NATALIE
GALVAN SAUSAGE HOUSE
BROWNS MOBILE HOME PARK
BROWNS MOBILE HOME PARK
BRAZOS RIVER
CITY OF RICHMOND
CITY OF SUGAR LAND RIVER PARK
CITY OF SUGAR LAND RIVER PARK
JIFFY LUBE 2879
USA RV PARK 1
USA RV PARK 1
CRABB RIVER ROAD EXXON
FORT BEND COUNTY MUD 106
FORT BEND COUNTY MUD 106
FORT BEND COUNTY MUD 106
FORT BEND COUNTY MUD 116 CANYON GA
Z BAR
STATE PRISON FARM
FORT BEND COUNTY MUD 106
RANCH COUNTRY STORE
CITY OF ROSENBERG
LAMAR CISD MANFORD WILLIAMS ELEMEN
RIVER CITY RV PARK
SHILOH RV PARK
BISON BUILDING MATERIALS
FORT BEND COUNTY ROAD & BRIDGE PCT
FORT BEND COUNTY ROAD & BRIDGE PCT
CBI
TRIUMPH CHRISTIAN CENTER
BRIDLEWOOD ESTATES WATER SYSTEM
BRIDLEWOOD ESTATES WATER SYSTEM
CORNERSTONE COMMUNITY BIBLE CHURCH
PARKWAY CROSSING
PARKWAY CROSSING
PLANTATION MUD
PLANTATION MUD
BRIDLEWOOD ESTATES WATER SYSTEM
GEORGE RANCH THE
ROYAL LAKES ESTATES
ROYAL LAKES ESTATES
RIVERBEND RV PARK AND RESORT
RIVER POINTE GOLF CLUB
SMITHERS LAKE

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Planimetry by photogrammetric methods from aerial photographs taken 1968. Topography enlarged from 1:62 500 scale map of Sugar Land quadrangle dated 1955. Topography by planetable surveys. Field checked 1970

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Texas coordinate system, south central zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Fine red dashed lines indicate selected fence lines

To place on the predicted North American Datum 1983 move the projection lines 21 meters south and 23 meters east as shown by dashed corner ticks

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Revisions shown in purple compiled from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1980

SCALE 1:24 000

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

2995–312

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route U. S. Route State Route

SUGAR LAND, TEX.
29095–E6–TF–024
1970
PHOTOREVISED 1980
DMA 6843 II SW–SERIES V882

Legend

- Public Water Supply Wells
- Outfall Location
- Streams from Outfall/Discharge Location to TCEQ Stream Segment
- 1202B Rabb Bayou
- 1-mile radius of NRG facility
- LakePond
- NRG Texas Power LLC
- Land Parcels Adjacent to Site

Figure 1
Sugar Land 1:24,000 USGS Quadrangle

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

THOMPSONS QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)

SIENNA PLANTATION MUD 1

SUN RANCH WATER SYSTEM

TPWD BRAZOS BEND STATE PARK 2

Mapped, edited, and published by the Geological Survey

Control by USGS, NOS/NOAA, and Texas GLO
State Reclamation Department

Culture and drainage in part compiled from aerial photographs taken 1951. Topography by plane-table surveys 1953

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Texas coordinate system, south central zone.

1000-meter Universal Transverse Mercator grid, zone 15

To place on the predicted North American Datum 1983 move the projection lines 21 meters south and 22 meters east as shown by dashed corner ticks

Revisions shown in purple compiled from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1980

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

2995–244

ROAD CLASSIFICATION
Heavy-duty — 4 LANE | 6 LANE — Light-duty
Medium-duty — 4 LANE | 6 LANE — Unimproved dirt
U. S. Route — State Route

THOMPSONS, TEX.
29095-D5-TF-024

1953
PHOTOREVISED 1980
DMA 6842 I NE–SERIES V882

INTERIOR–GEOLOGICAL SURVEY, RESTON, VIRGINIA–1981

Legend

- Public Water Supply Wells
- Outfall Location
- Streams from Outfall/Discharge Location to TCEQ Stream Segment
- 1202B Rabb Bayou
- 1-mile radius of NRG facility
- LakePond
- NRG Texas Power LLC
- Land Parcels Adjacent to Site

Figure 1
Thompsons 1:24,000 USGS Quadrangle

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WA PARISH POWER PLANT
2500 Y.U. JONES RD
RICHMOND, TX 77469

TARGET PROPERTY COORDINATES

Latitude (North):	29.47770 - 29° 28' 39.7''
Longitude (West):	95.635 - 95° 38' 6.0''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	244488.2
UTM Y (Meters):	3263627.2
Elevation:	71 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	29095-D6 SMITHERS LAKE, TX
Most Recent Revision:	1980
East Map:	29095-D5 THOMPSONS, TX
Most Recent Revision:	1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

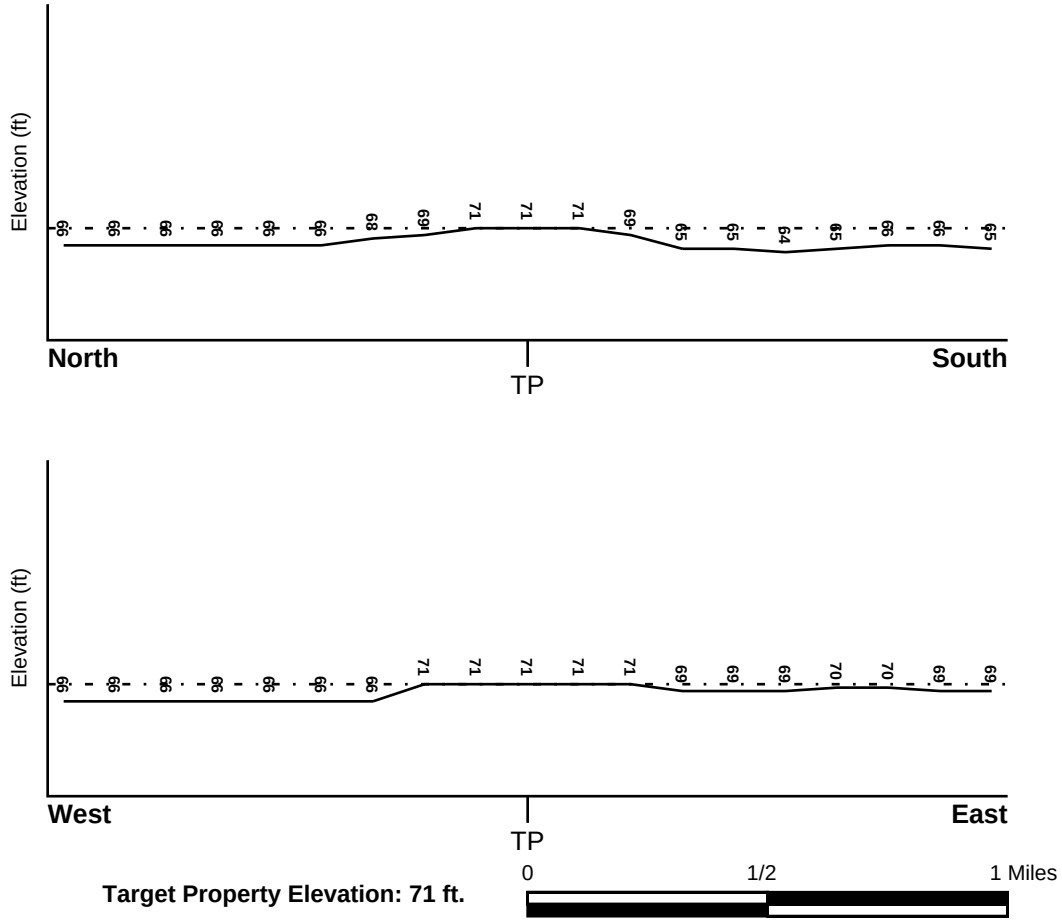
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
FORT BEND, TX	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 48157C0400J - FEMA Q3 Flood data

Additional Panels in search area: 48157C0425J - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SMITHERS LAKE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

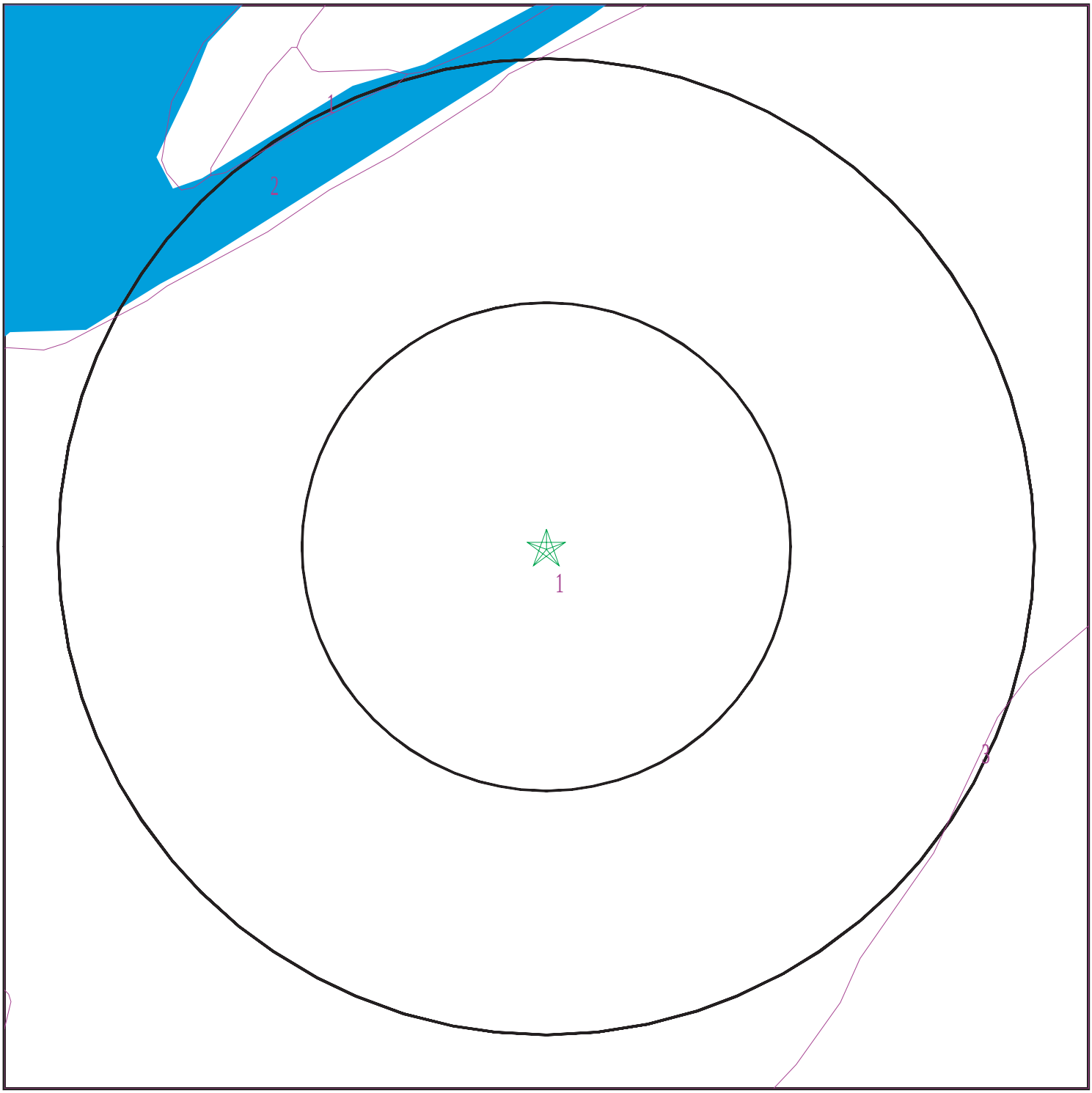
Era:	Cenozoic
System:	Quaternary
Series:	Holocene
Code:	Qh *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3220240.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	WA Parish Power Plant	CLIENT:	ERM - Southwest, Inc.
ADDRESS:	2500 Y.U. Jones Rd Richmond TX 77469	CONTACT:	Amanda Thronson
LAT/LONG:	29.4777 / 95.6350	INQUIRY #:	3220240.2s
		DATE:	December 07, 2011 11:30 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Bernard

Soil Surface Texture: clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.6
2	5 inches	53 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.6
3	53 inches	72 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.6

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Bernard

Soil Surface Texture: clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	5 inches	59 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.6
3	59 inches	77 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	2.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	2.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS2652560	1/8 - 1/4 Mile East
C6	USGS2652565	1/4 - 1/2 Mile NNW
C9	USGS2652393	1/4 - 1/2 Mile NNW
E14	USGS2652397	1/4 - 1/2 Mile North
F18	USGS2652402	1/4 - 1/2 Mile NNE
K32	USGS2652541	1/2 - 1 Mile WSW
34	USGS2652400	1/2 - 1 Mile ENE
L37	USGS2652508	1 - 2 Miles South
M44	USGS2652531	1 - 2 Miles ESE
N45	USGS2652443	1 - 2 Miles NNW
N47	USGS2652444	1 - 2 Miles NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	TXWDB3000021159	1/8 - 1/4 Mile East
B3	TXEQ20000002720	1/4 - 1/2 Mile NE
B4	TXFB10000000339	1/4 - 1/2 Mile NE
C5	TXEQ20000002726	1/4 - 1/2 Mile NNW
C7	TXWDB3000021230	1/4 - 1/2 Mile NNW
C8	TXFB10000000328	1/4 - 1/2 Mile NNW
C10	TXWDB3000021245	1/4 - 1/2 Mile NNW
D11	TXEQ20000002709	1/4 - 1/2 Mile West
D12	TXFB10000000364	1/4 - 1/2 Mile West
E13	TXWDB3000021261	1/4 - 1/2 Mile North
E15	TXFB10000000362	1/4 - 1/2 Mile North
E16	TXEQ20000002734	1/4 - 1/2 Mile North
E17	TXEQ20000002735	1/4 - 1/2 Mile North
F19	TXWDB3000021280	1/4 - 1/2 Mile NNE
G20	TXFB10000000332	1/2 - 1 Mile WSW
H21	TXFB10000000068	1/2 - 1 Mile NNE
G22	TXEQ20000002699	1/2 - 1 Mile WSW
H23	TXEQ20000002740	1/2 - 1 Mile NNE
H24	TXEQ20000002741	1/2 - 1 Mile NNE
25	TXFB10000000077	1/2 - 1 Mile ENE
I26	TXD1006374	1/2 - 1 Mile SW
I27	TXMON1000023511	1/2 - 1 Mile SW
J28	TXEQ20000002690	1/2 - 1 Mile WSW
J29	TXFB10000000300	1/2 - 1 Mile WSW
30	TXWDB3000021281	1/2 - 1 Mile ENE
31	TXPLU1000008108	1/2 - 1 Mile ENE
K33	TXWDB3000021085	1/2 - 1 Mile WSW
35	TXPLU1000007999	1/2 - 1 Mile SW
36	TXEQ20000002752	1 - 2 Miles NE
L38	TXWDB3000020903	1 - 2 Miles South
39	TXFB10000000251	1 - 2 Miles WSW
40	TXMON1000023924	1 - 2 Miles ENE
41	TXEQ20000002707	1 - 2 Miles East
42	TXFB10000000207	1 - 2 Miles East
M43	TXWDB3000021026	1 - 2 Miles ESE
N46	TXWDB3000021506	1 - 2 Miles NNW
N48	TXWDB3000021505	1 - 2 Miles NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

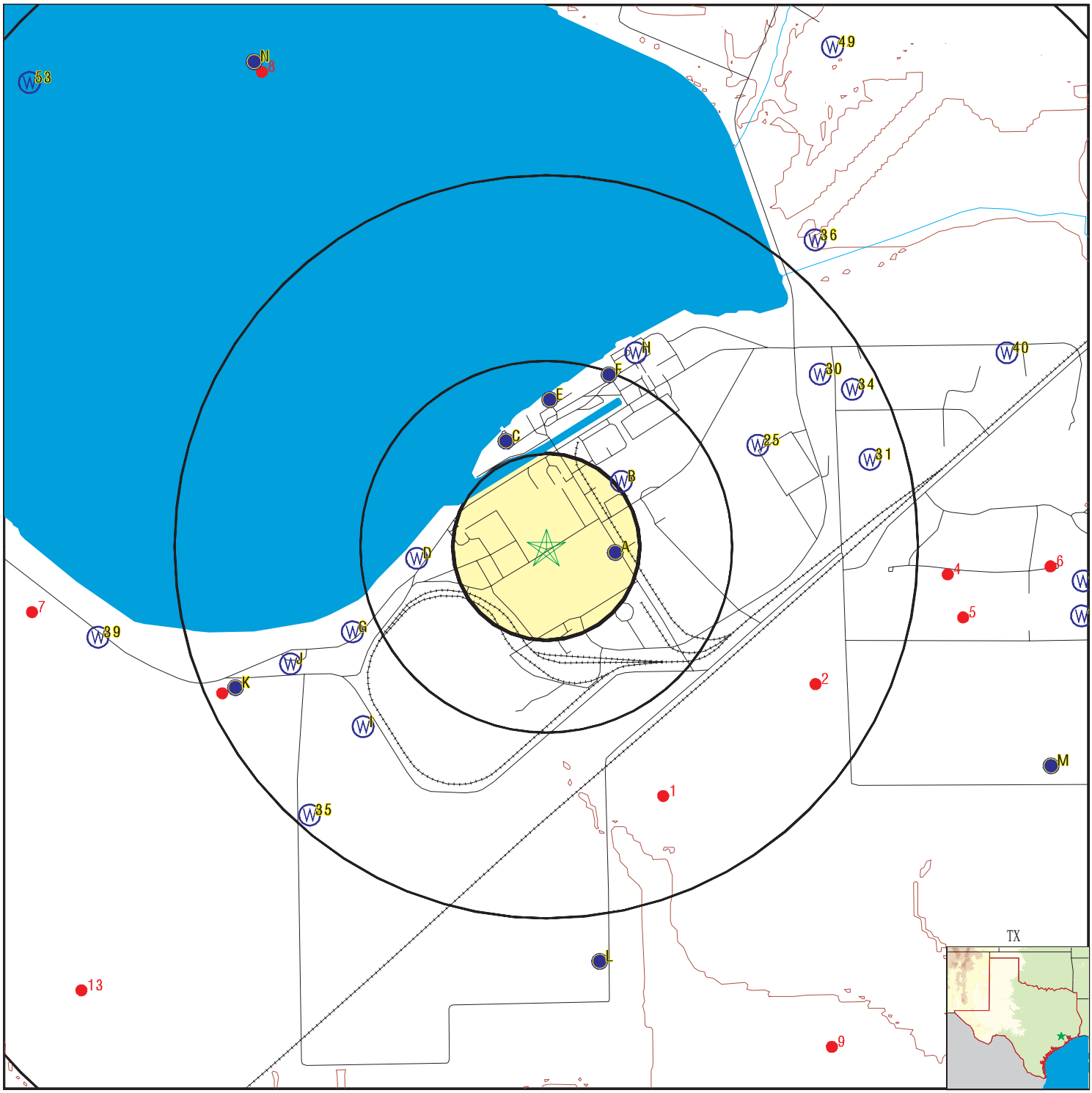
MAP ID	WELL ID	LOCATION FROM TP
49	TXFB10000000504	1 - 2 Miles NNE
50	TXFB10000000528	1 - 2 Miles NNE
51	TXFB10000000779	1 - 2 Miles NNE
52	TXFB10000000079	1 - 2 Miles WSW
53	TXPLU1000008207	1 - 2 Miles NW
54	TXPLU1000007944	1 - 2 Miles SE
55	TXPLU1000008206	1 - 2 Miles NW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	TXOG40000226265	1/2 - 1 Mile SSE
2	TXOG40000226631	1/2 - 1 Mile ESE
3	TXOG40000226593	1/2 - 1 Mile WSW
4	TXOG40000227082	1 - 2 Miles East
5	TXOG40000226895	1 - 2 Miles East
6	TXOG40000227110	1 - 2 Miles East
7	TXOG40000226916	1 - 2 Miles West
8	TXOG40000228722	1 - 2 Miles NNW
9	TXOG40000225370	1 - 2 Miles SSE
10	TXOG40000224917	1 - 2 Miles South
11	TXOG40000224951	1 - 2 Miles SSW
12	TXOG40000227449	1 - 2 Miles West
13	TXOG40000225548	1 - 2 Miles SW
A14	TXOG40000224801	1 - 2 Miles South
A15	TXOG40000224790	1 - 2 Miles South
16	TXOG40000226483	1 - 2 Miles WSW
17	TXOG40000226148	1 - 2 Miles ESE
18	TXOG40000226384	1 - 2 Miles ESE
19	TXOG40000225953	1 - 2 Miles ESE
B20	TXOG40000227098	1 - 2 Miles East
B21	TXOG40000227149	1 - 2 Miles East
22	TXOG40000224449	1 - 2 Miles South

PHYSICAL SETTING SOURCE MAP - 3220240.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil or gas wells

SITE NAME:	WA Parish Power Plant	CLIENT:	ERM - Southwest, Inc.
ADDRESS:	2500 Y.U. Jones Rd Richmond TX 77469	CONTACT:	Amanda Thronson
		INQUIRY #:	3220240.2s
LAT/LONG:	29.4777 / 95.6350	DATE:	December 07, 2011 11:30 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
East
1/8 - 1/4 Mile
Higher | **TX WELLS** | **TXWDB3000021159**

Source Agency:	Texas Water Development Board		
State well:	6535306	County:	Fort Bend
Basin:	Brazos River	Gma:	14
Rwpa:	H	Districtid:	198914HX
Previous w:	Not Reported	Latitude:	292839
Lat dec:	29.477499		
Longitude:	953755		
Long dec:	-95.631943		
Owner 1:	Houston Lighting and	Owner 2:	Power Co. Well 4
Driller 1:	Layne-Texas	Driller 2:	Not Reported
Coords Accuracy:	Not Reported		
Aquifer code:	112CEVG		
Aquifer id #1:	Gulf Coast	Aquifer id #2:	0
Aquifer id #3:	0	Elev of LSD:	70
Elev mmt method:	interpolated form topo map		
User code :	0		
Date drill:	1975	Well type:	withdrawal of water
Well depth:	851	Source of1:	Not Reported
Type of li:	Not Reported	Type of po:	Not Reported
Horsepower:	Not Reported	Primary Use:	industrial
Second Use:	Not Reported	Tertia Use:	Not Reported
Water leve:	M	Water qual:	Y
Well logs :	Not Reported	Other data:	Not Reported
Date coll :	Not Reported	Reporting :	02
Well sched:	Y	Construct :	Not Reported
Completion:	Not Reported	Casing mat:	Not Reported
Screen mat:	Not Reported	Todays dat:	08/20/1996
User name:	Not Reported		

Date:	10/27/1975	Sample number:	1
Storet code:	MANGANESE, TOTAL (UG/L AS MN)		
Flag:	Not Reported	Const val:	0.
Plus minus:	Not Reported		

Date:	10/27/1975	Sample number:	1
Storet code:	IRON, TOTAL (UG/L AS FE)		
Flag:	Not Reported	Const val:	100.
Plus minus:	Not Reported		

State well number:	6535306	Pn well visit mark:	P
Depth from lsd:	-120	Mm date:	10
Dd date:	22	Yy date:	1975
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535306	Mm date:	10
Dd date:	27	Yydate:	1975
Sample number:	1	Sample time:	Not Reported
Temp centigrade:	23	Top s interval:	Not Reported
Bottom s interval:	Not Reported	Samp int aqcode:	Not Reported
Collection remarks:	Not Reported	Reliability rem:	Not Reported
Collecting agency:	Not Reported	Lab code:	05
Bu wqanalysis:	B	Q00955 flag:	Not Reported
Q00955 silica mgl:	18	Q00910 flag:	Not Reported
Q00910 calcium mgl:	40	Q00920 flag:	Not Reported

Q00920 magnes mgl:	4	Q00929 flag:	Not Reported
Q00929 sodium mgl:	61	Q00937 flag:	Not Reported
Q00937 potass mgl:	Not Reported	Q01080 flag:	Not Reported
Q01080 strontium:	Not Reported	Q00445 carb mgl:	0
Q00440 bicarb mgl:	244.07	Q00945 flag:	Not Reported
Q00945 sulfate mgl:	13	Q00940 flag:	Not Reported
Q00940 chloride mg:	26	Q00951 flag:	Not Reported
Q00951 fluoride mg:	.3	Q71850 flag:	Not Reported
Q71850 nitrate mgl:	.6	Q00403 flag:	Not Reported
Q00403 ph:	7.5	Q70300 tds:	282
Q00415 flag:	Not Reported	Q00415 phen alk:	0
Q00410 flag:	Not Reported	Q00410 total alk:	200
Q00900 tot hardnes:	116	Q00932 percent na:	53
Q00931 sar:	2.46	Q71860 rsc:	1.68
Q00095 flag:	Not Reported	Q00095 spec cond:	470
Date entered:	Not Reported	User name:	pnordstr
Bu value:	Not Reported		

State well number:	6535306	Group number:	1
Remarks 1:	200 ft of screen from 460 to 832		
Remarks 2:	ft. Reported yield 1500 gpm with		

State well number:	6535306	Group number:	2
Remarks 1:	58 ft drawdown when drilled.		
Remarks 2:	Not Reported		

A2
East
1/8 - 1/4 Mile
Higher

FED USGS **USGS2652560**

Agency cd:	USGS	Site no:	292838095375401
Site name:	JY-65-35-306		
Latitude:	292838	EDR Site id:	USGS2652560
Longitude:	0953754	Dec lat:	29.47746126
Dec lon:	-95.63189113	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	48
State:	48	County:	157
Country:	US	Land net:	Not Reported
Location map:	Lake George, TX	Map scale:	24000
Altitude:	70		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Brazos. Texas. Area = 1650 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19750911
Date inventoried:	19761129	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined multiple aquifers		
Aquifer:	CHICOT AQUIFER,LOWER		
Well depth:	851	Hole depth:	Not Reported
Source of depth data:	logs		
Project number:	4648-00250		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1975-10-22	Ground water data end date:	1975-10-22
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1975-10-22	120	

B3
NE
1/4 - 1/2 Mile
Higher

TX WELLS **TXEQ20000002720**

Source Agency:	Texas Commission on Environmental Quality		
Pws id:	0790100	Water sour:	G0790100D
Fips count:	157	Quadrangle:	2995-243
Latitude:	292848.8125		
Longitude:	953753.8125		
Location a:	Not Reported	Agency:	TCEQ
Location m:	GPS-S	Horizontal:	83
Spatial re:	T	Horizont 1:	I
Horizont 2:	S	Elevation:	71
Elevation :	D	Vertical d:	29
Location d:	09/25/2006	Elevation1:	04/24/2008
Elevatio 1:	TCEQ	Elevatio 2:	G
Latdd:	29.4802303314		
Longdd:	-95.6316223145		
Gps certif:	97101008	Need bette:	No
Last chang:	04/26/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Well depth:	859	Depth agency:	DRILL
Depth source:	D	Aquifer:	112CHCT
Aquifer id:	31		
Aquifer name:	CHICOT		
Aquifer method:	S	Aquifer type:	1
Drill date:	19820800	Last change:	12/15/2004
Initials:	KDM		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Fips county code:	157	Quadrangle number:	2995-243
Latitude:	292848.8125		
Longitude:	953753.8125		
Location accuracy:	Not Reported	Agency:	TCEQ
Location method:	GPS-S	Horizontal datum:	83
Spatial reference code:	T	Horizontal accuracy:	I
Horizontal reference:	S	Elevation:	71
Elevation method:	D	Vertical datum:	29
Location date:	Not Reported	Elevation date:	04/24/2008

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elevation agency:	TCEQ	Elevation accuracy:	G
Latdd:	29.4802303314209		
Longdd:	95.6316223144531		
Gps certification number:	97101008	Need better location:	No
Last change:	04/26/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Date:	19810114	Depth from land surface:	-129.0
Agency:	USGS	Measuring method:	S
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	1	Well interval:	ANNULAR CEMENT
Top depth:	0	Bottom depth:	480
Depth positive:	Not Reported	Diameter:	29
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	2	Well interval:	CASING
Top depth:	0	Bottom depth:	480
Depth positive:	Not Reported	Diameter:	24
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	3	Well interval:	CASING
Top depth:	380	Bottom depth:	490
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	4	Well interval:	OPENING INTERVAL
Top depth:	490	Bottom depth:	516
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	26
Opening method:	1	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	5	Well interval:	CASING
Top depth:	516	Bottom depth:	530
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	6	Well interval:	WELL OPENINGS
Top depth:	530	Bottom depth:	620
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	90
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	7	Well interval:	CASING
Top depth:	620	Bottom depth:	630
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	8	Well interval:	WELL OPENINGS
Top depth:	630	Bottom depth:	640
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	9	Well interval:	CASING
Top depth:	640	Bottom depth:	650
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	10	Well interval:	WELL OPENINGS
Top depth:	650	Bottom depth:	666
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	16
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	11	Well interval:	CASING
Top depth:	666	Bottom depth:	672
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100D
Record number:	12	Well interval:	WELL OPENINGS
Top depth:	672	Bottom depth:	704
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	32
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	13	Well interval:	CASING
Top depth:	704	Bottom depth:	712
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	14	Well interval:	WELL OPENINGS
Top depth:	712	Bottom depth:	738
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	26
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	15	Well interval:	CASING
Top depth:	738	Bottom depth:	760
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	16	Well interval:	WELL OPENINGS
Top depth:	760	Bottom depth:	824
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	64
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	17	Well interval:	CASING
Top depth:	824	Bottom depth:	830
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100D
Record number:	18	Well interval:	WELL OPENINGS
Top depth:	830	Bottom depth:	844
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	14
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	19	Well interval:	CASING
Top depth:	844	Bottom depth:	859
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	20	Well interval:	ANNULAR GRAVEL PACK
Top depth:	480	Bottom depth:	859
Depth positive:	Not Reported	Diameter:	34
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100D
Record number:	1	Top depth:	0
Bottom depth:	20	Thickness:	20
Geologic description:	GRAY CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	2	Top depth:	20
Bottom depth:	25	Thickness:	5
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	3	Top depth:	25
Bottom depth:	75	Thickness:	50
Geologic description:	RED CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100D
Record number:	4	Top depth:	75
Bottom depth:	80	Thickness:	5
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	5	Top depth:	80
Bottom depth:	115	Thickness:	35
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	6	Top depth:	115
Bottom depth:	124	Thickness:	9
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	7	Top depth:	124
Bottom depth:	130	Thickness:	6
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	8	Top depth:	130
Bottom depth:	165	Thickness:	35
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	9	Top depth:	165
Bottom depth:	217	Thickness:	52
Geologic description:	shale blue clay		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	10	Top depth:	217
Bottom depth:	242	Thickness:	25
Geologic description:	sand & small gravel		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	11	Top depth:	242
Bottom depth:	250	Thickness:	8
Geologic description:	CLAY AND SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	12	Top depth:	250
Bottom depth:	274	Thickness:	24
Geologic description:	clay gravel		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	13	Top depth:	274
Bottom depth:	305	Thickness:	31
Geologic description:	shale and gravel		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	14	Top depth:	305
Bottom depth:	337	Thickness:	32
Geologic description:	BLUE CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	15	Top depth:	337
Bottom depth:	397	Thickness:	60
Geologic description:	BLUE CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	16	Top depth:	397
Bottom depth:	400	Thickness:	3
Geologic description:	GRAVEL		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	17	Top depth:	400
Bottom depth:	492	Thickness:	92
Geologic description:	BLUE CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	18	Top depth:	492
Bottom depth:	619	Thickness:	127
Geologic description:	SAND AND GRAVEL		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	19	Top depth:	619
Bottom depth:	631	Thickness:	12
Geologic description:	clay blue		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	20	Top depth:	631
Bottom depth:	640	Thickness:	9
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	21	Top depth:	640
Bottom depth:	649	Thickness:	9
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	22	Top depth:	649
Bottom depth:	707	Thickness:	58
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	23	Top depth:	707
Bottom depth:	711	Thickness:	4
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	24	Top depth:	711
Bottom depth:	844	Thickness:	133
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100D
Record number:	25	Top depth:	844
Bottom depth:	850	Thickness:	6
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

B4
NE
1/4 - 1/2 Mile
Higher

TX WELLS **TXFB10000000339**

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	133	Aggln:	127
Owner:	NRG Texas Power, LLC		
Attn:	C. E. Burch		
Corr:	W. A. Parish Electric Generating Station	Address:	P. O. Box 98
City:	Thompsons	State:	TX
Zip:	77481	Zipex:	Not Reported
Latd:	29		
Latm:	28		
Lats:	49		
Lond:	95		
Lonm:	37		

Lons:	54		
Stblk:	65		
Stquad:	35		
Stni:	3		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	490		
Totd:	859		
Diam:	24		
Alloc:	1090		
Active:	-1		
Agg2008:	7		
Pump2008:	787086000		
Agg2007:	7		
Pump2007:	863016000		
Agg2006:	7		
Pump2006:	861193000		
Agg2005:	7		
Pump2005:	795729000		
Agg2004:	7		
Pump2004:	947784000		
Agg2003:	7		
Pump2003:	727211000		
Agg2002:	7		
Pump2002:	693247000		
Agg2001:	7		
Pump2001:	759715000		
Agg2000:	7		
Pump2000:	893782000		
Agg1999:	7		
Pump1999:	852061000		
Agg1998:	7		
Pump1998:	651241000		
Agg1997:	7		
Pump1997:	772988000		
Agg1996:	7		
Pump1996:	857447000		
Agg1995:	7		
Pump1995:	913560000		
Agg1994:	7		
Pump1994:	938784000		
Agg1993:	7		
Pump1993:	715643000		
Agg1992:	7		
Pump1992:	735286000		
Agg1991:	7		
Pump1991:	732925000		
Agg1990:	7		
Pump1990:	950884300		

C5
NNW
1/4 - 1/2 Mile
Lower

TX WELLS **TXEQ20000002726**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Source Agency:	Texas Commission on Environmental Quality		
Pws id:	0790140	Water sour:	G0790140B
Fips count:	157	Quadrangle:	2995-243
Latitude:	292853.84375		
Longitude:	953813.1875		
Location a:	Not Reported	Agency:	TCEQ
Location m:	GPS-S	Horizontal:	83
Spatial re:	T	Horizont 1:	I
Horizont 2:	S	Elevation:	68
Elevation :	D	Vertical d:	29
Location d:	01/23/2007	Elevation1:	04/24/2008
Elevatio 1:	TCEQ	Elevatio 2:	G
Latdd:	29.4816207886		
Longdd:	-95.6370010376		
Gps certif:	97101008	Need bette:	Not Reported
Last chang:	05/07/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Well depth:	803	Depth agency:	DRILL
Depth source:	D	Aquifer:	112CHCT
Aquifer id:	31		
Aquifer name:	CHICOT		
Aquifer method:	S	Aquifer type:	1
Drill date:	19670726	Last change:	03/11/1996
Initials:	Not Reported		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Fips county code:	157	Quadrangle number:	2995-243
Latitude:	292853.84375		
Longitude:	953813.1875		
Location accuracy:	Not Reported	Agency:	TCEQ
Location method:	GPS-S	Horizontal datum:	83
Spatial reference code:	T	Horizontal accuracy:	I
Horizontal reference:	S	Elevation:	68
Elevation method:	D	Vertical datum:	29
Location date:	Not Reported	Elevation date:	04/24/2008
Elevation agency:	TCEQ	Elevation accuracy:	G
Latdd:	29.4816207885742		
Longdd:	95.6370010375977		
Gps certification number:	97101008	Need better location:	Not Reported
Last change:	05/07/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	1	Well interval:	ANNULAR CEMENT
Top depth:	0	Bottom depth:	450
Depth positive:	Not Reported	Diameter:	0
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140B
Record number:	2	Well interval:	CASING
Top depth:	0	Bottom depth:	450
Depth positive:	Not Reported	Diameter:	18
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140B
Record number:	3	Well interval:	CASING
Top depth:	344	Bottom depth:	466
Depth positive:	Not Reported	Diameter:	10.75
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140B
Record number:	4	Well interval:	WELL OPENINGS
Top depth:	466	Bottom depth:	569
Depth positive:	Not Reported	Diameter:	10.75
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	113
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140B
Record number:	5	Well interval:	CASING
Top depth:	569	Bottom depth:	585
Depth positive:	Not Reported	Diameter:	10.75
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140B
Record number:	6	Well interval:	WELL OPENINGS
Top depth:	585	Bottom depth:	605
Depth positive:	Not Reported	Diameter:	10.75
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	20
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140B
Record number:	7	Well interval:	CASING
Top depth:	605	Bottom depth:	650
Depth positive:	Not Reported	Diameter:	10.75
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140B
Record number:	8	Well interval:	WELL OPENINGS
Top depth:	650	Bottom depth:	670
Depth positive:	Not Reported	Diameter:	10.75
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	20
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140B
Record number:	9	Well interval:	CASING
Top depth:	670	Bottom depth:	700
Depth positive:	Not Reported	Diameter:	10.75
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140B
Record number:	10	Well interval:	WELL OPENINGS
Top depth:	700	Bottom depth:	720
Depth positive:	Not Reported	Diameter:	10.75
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	20
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140B
Record number:	11	Well interval:	CASING
Top depth:	720	Bottom depth:	760
Depth positive:	Not Reported	Diameter:	10.75
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140B
Record number:	12	Well interval:	WELL OPENINGS
Top depth:	760	Bottom depth:	790
Depth positive:	Not Reported	Diameter:	10.75
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	30
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140B
Record number:	13	Well interval:	CASING
Top depth:	790	Bottom depth:	802
Depth positive:	Not Reported	Diameter:	10.75
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140B
Record number:	14	Well interval:	ANNULAR GRAVEL PACK
Top depth:	450	Bottom depth:	802
Depth positive:	Not Reported	Diameter:	30
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	10/10/2006

Pws id:	0790140	Water source:	G0790140B
Record number:	1	Top depth:	0
Bottom depth:	2	Thickness:	2
Geologic description:	SOIL		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	2	Top depth:	2
Bottom depth:	11	Thickness:	9
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	3	Top depth:	11
Bottom depth:	22	Thickness:	11
Geologic description:	SAND AND CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	4	Top depth:	22
Bottom depth:	75	Thickness:	53
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	5	Top depth:	75
Bottom depth:	100	Thickness:	25
Geologic description:	CLAY AND SAND BREAKS		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140B
Record number:	6	Top depth:	100
Bottom depth:	120	Thickness:	20
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	7	Top depth:	120
Bottom depth:	136	Thickness:	16
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	8	Top depth:	136
Bottom depth:	163	Thickness:	27
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	9	Top depth:	163
Bottom depth:	177	Thickness:	14
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	10	Top depth:	177
Bottom depth:	237	Thickness:	60
Geologic description:	SAND AND GRAVEL		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	11	Top depth:	237
Bottom depth:	251	Thickness:	14
Geologic description:	GRAVEL AND SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140B
Record number:	12	Top depth:	251
Bottom depth:	283	Thickness:	32
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	13	Top depth:	283
Bottom depth:	301	Thickness:	18
Geologic description:	SAND - BROKEN		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	14	Top depth:	301
Bottom depth:	322	Thickness:	21
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	15	Top depth:	322
Bottom depth:	389	Thickness:	67
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	16	Top depth:	389
Bottom depth:	403	Thickness:	14
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	17	Top depth:	403
Bottom depth:	413	Thickness:	10
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	18	Top depth:	413
Bottom depth:	419	Thickness:	6
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	19	Top depth:	419
Bottom depth:	442	Thickness:	23
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	20	Top depth:	442
Bottom depth:	483	Thickness:	41
Geologic description:	SAND AND SMALL GRAVEL AND SHALE BREAKS		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	21	Top depth:	483
Bottom depth:	603	Thickness:	120
Geologic description:	SAND AND GRAVEL		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	22	Top depth:	603
Bottom depth:	613	Thickness:	10
Geologic description:	SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	23	Top depth:	613
Bottom depth:	633	Thickness:	20
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140B
Record number:	24	Top depth:	633
Bottom depth:	639	Thickness:	6
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	25	Top depth:	639
Bottom depth:	668	Thickness:	29
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	26	Top depth:	668
Bottom depth:	722	Thickness:	54
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	27	Top depth:	722
Bottom depth:	727	Thickness:	5
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	28	Top depth:	727
Bottom depth:	737	Thickness:	10
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	29	Top depth:	737
Bottom depth:	745	Thickness:	8
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	30	Top depth:	745
Bottom depth:	801	Thickness:	56
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140B
Record number:	31	Top depth:	801
Bottom depth:	803	Thickness:	2
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

C6
NNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS2652565**

Agency cd:	USGS	Site no:	292853095381301
Site name:	JY-65-35-303		
Latitude:	292853	EDR Site id:	USGS2652565
Longitude:	0953813	Dec lat:	29.48162788
Dec lon:	-95.63716906	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	48
State:	48	County:	157
Country:	US	Land net:	Not Reported
Location map:	Lake George, TX	Map scale:	24000
Altitude:	72		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	2.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Brazos. Texas. Area = 1650 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19560401
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	EVANGELINE AQUIFER		
Well depth:	803	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	4648-00250		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1956-04-16	Ground water data end date:	2003-01-22
Ground water data count:	94		

Ground-water levels, Number of Measurements: 94

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2003-01-22	128				
2002-01-17	188				
Note: The site was being pumped.					
2002-01-17	147		1997-01-15	131	
1995-12-13	124		1993-01-08	124	
1990-01-29	120		1989-01-06	123	
1988-01-22	127		1987-12-04	126	
1987-11-13	129		1987-09-25	127	
1987-08-14	129		1987-07-10	125	
1987-06-19	124		1987-05-09	123	
1987-04-03	124		1987-03-06	121	
1987-02-06	123		1987-01-09	123	
1986-12-12	124		1986-11-14	126	
1986-09-05	129		1986-08-08	126	
1986-07-11	126		1986-06-13	125	
1986-04-11	123		1986-02-21	124	
1986-01-10	127		1985-12-20	126	
1985-10-11	131		1985-09-13	132	
1985-08-16	129		1985-07-12	126	
1985-06-21	126		1985-05-17	126	
1985-04-26	119		1985-03-15	125	
1985-02-08	128		1985-01-11	125	
1984-12-07	128		1984-11-09	125	
1984-10-05	128		1984-09-07	128	
1984-07-13	129		1984-06-08	126	
1984-05-18	123		1984-04-06	123	
1984-03-16	121		1984-02-10	124	
1983-12-21	123		1983-11-04	123	
1983-10-14	126		1983-09-09	123	
1983-07-08	124		1983-06-24	123	
1983-05-27	123		1983-03-11	121	
1983-02-11	124		1983-01-07	125	
1982-11-05	125		1982-10-08	130	
1982-09-03	129		1982-08-06	128	
1982-07-06	123		1982-05-14	117	
1982-03-02	120		1982-02-12	126	
1981-10-09	121		1981-09-18	123	
1981-08-21	121		1981-06-26	120	
1981-05-15	116		1981-03-20	115	
1981-02-06	115		1980-10	116	
1980-01-18	111		1979-01-08	105	
1978-10-06	110		1978-09-22	110	
1978-08-18	111		1978-07-28	109	
1977-02-18	98		1977-01-07	99	
1975-12-05	95		1975-08-08	99	
1974-12-16	89		1974-06-14	95	
1974-01-04	96		1973-07-06	96	
1973-01-05	96		1972-08-04	100	
1969-01-20	85.18		1956-04-16	63	

C7
NNW
1/4 - 1/2 Mile
Lower

TX WELLS **TXWDB3000021230**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Source Agency:	Texas Water Development Board		
State well:	6535303	County:	Fort Bend
Basin:	Brazos River	Gma:	14
Rwpa:	H	Districtid:	198914HX
Previous w:	Not Reported	Latitude:	292854
Lat dec:	29.481666		
Longitude:	953814		
Long dec:	-95.637221		
Owner 1:	Houston Ltg & Pwr	Owner 2:	Not Reported
Driller 1:	Layne-TExas	Driller 2:	Not Reported
Coords Accuracy:	+/- second		
Aquifer code:	112CEVG		
Aquifer id #1:	Gulf Coast	Aquifer id #2:	0
Aquifer id #3:	0	Elev of LSD:	72
Elev mmt method:	interpolated form topo map		
User code :	0		
Date drill:	1956	Well type:	withdrawal of water
Well depth:	803	Source of1:	Not Reported
Type of li:	turbine pump	Type of po:	electric motor
Horsepower:	125.00	Primary Use:	industrial
Second Use:	Not Reported	Tertia Use:	Not Reported
Water leve:	U	Water qual:	N
Well logs :	Not Reported	Other data:	Not Reported
Date coll :	04252003	Reporting :	02
Well sched:	Y	Construct :	Not Reported
Completion:	Not Reported	Casing mat:	Not Reported
Screen mat:	Not Reported	Todays dat:	04/25/2003
User name:	Not Reported		

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-96	Mm date:	1
Dd date:	4	Yy date:	1974
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-96	Mm date:	1
Dd date:	5	Yy date:	1973
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	1
Dd date:	6	Yy date:	1989
Measurement number:	01	Measuring agency:	04
Method of meas:	A	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-99	Mm date:	1
Dd date:	7	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-125	Mm date:	1
Dd date:	7	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-105	Mm date:	1
Dd date:	8	Yy date:	1979
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-124	Mm date:	1
Dd date:	8	Yy date:	1993
Measurement number:	01	Measuring agency:	04
Method of meas:	3	Remark:	Not Reported
Date entered:	03/16/1994	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	1
Dd date:	9	Yy date:	1987
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-127	Mm date:	1
Dd date:	10	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-125	Mm date:	1
Dd date:	11	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-131	Mm date:	1
Dd date:	15	Yy date:	1997
Measurement number:	01	Measuring agency:	04
Method of meas:	2	Remark:	Not Reported
Date entered:	09/17/1997	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-147	Mm date:	1
Dd date:	17	Yy date:	2002
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	05/05/2003	User name:	drjones

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-188	Mm date:	1
Dd date:	17	Yy date:	2002
Measurement number:	02	Measuring agency:	04
Method of meas:	7	Remark:	02
Date entered:	05/06/2003	User name:	drjones

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-111	Mm date:	1
Dd date:	18	Yy date:	1980
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-85.18	Mm date:	1
Dd date:	20	Yy date:	1969
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-129	Mm date:	1
Dd date:	22	Yy date:	1988
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	1
Dd date:	22	Yy date:	2003
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	01/28/2004	User name:	drjones

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-120	Mm date:	1
Dd date:	29	Yy date:	1990
Measurement number:	01	Measuring agency:	04
Method of meas:	A	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-117	Mm date:	2
Dd date:	6	Yy date:	1981
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	2
Dd date:	8	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-124	Mm date:	2
Dd date:	10	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-124	Mm date:	2
Dd date:	11	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	2
Dd date:	12	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-98	Mm date:	2
Dd date:	18	Yy date:	1977
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-124	Mm date:	2
Dd date:	21	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-120	Mm date:	3
Dd date:	2	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-121	Mm date:	3
Dd date:	11	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-125	Mm date:	3
Dd date:	15	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-121	Mm date:	3
Dd date:	16	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-115	Mm date:	3
Dd date:	20	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	4
Dd date:	6	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	4
Dd date:	11	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-63	Mm date:	4
Dd date:	16	Yy date:	1956
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-119	Mm date:	4
Dd date:	26	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-117	Mm date:	5
Dd date:	14	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-116	Mm date:	5
Dd date:	15	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	5
Dd date:	17	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	5
Dd date:	18	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	5
Dd date:	27	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	6
Dd date:	8	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-125	Mm date:	6
Dd date:	13	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-95	Mm date:	6
Dd date:	14	Yy date:	1974
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	6
Dd date:	21	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	6
Dd date:	24	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-120	Mm date:	6
Dd date:	26	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-96	Mm date:	7
Dd date:	6	Yy date:	1973
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	7
Dd date:	6	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-124	Mm date:	7
Dd date:	8	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	7
Dd date:	11	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	7
Dd date:	12	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-129	Mm date:	7
Dd date:	13	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-109	Mm date:	7
Dd date:	28	Yy date:	1978
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-100	Mm date:	8
Dd date:	4	Yy date:	1972
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	8
Dd date:	6	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-99	Mm date:	8
Dd date:	8	Yy date:	1975
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	8
Dd date:	8	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-129	Mm date:	8
Dd date:	16	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-111	Mm date:	8
Dd date:	18	Yy date:	1978
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-121	Mm date:	8
Dd date:	21	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-129	Mm date:	9
Dd date:	3	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-129	Mm date:	9
Dd date:	5	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	9
Dd date:	7	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	9
Dd date:	9	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-132	Mm date:	9
Dd date:	13	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	9
Dd date:	18	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-110	Mm date:	9
Dd date:	22	Yy date:	1978
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-116	Mm date:	10
Dd date:	0	Yy date:	1980
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	10
Dd date:	5	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-110	Mm date:	10
Dd date:	6	Yy date:	1978
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-130	Mm date:	10
Dd date:	8	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-121	Mm date:	10
Dd date:	9	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-131	Mm date:	10
Dd date:	11	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	10
Dd date:	14	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	11
Dd date:	4	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-125	Mm date:	11
Dd date:	5	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-125	Mm date:	11
Dd date:	9	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	11
Dd date:	14	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-95	Mm date:	12
Dd date:	5	Yy date:	1975
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	12
Dd date:	7	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-124	Mm date:	12
Dd date:	12	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-124	Mm date:	12
Dd date:	13	Yy date:	1995
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	04/03/1997	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-89	Mm date:	12
Dd date:	16	Yy date:	1974
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	12
Dd date:	20	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535303	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	12
Dd date:	21	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

C8
NNW
1/4 - 1/2 Mile
Lower

TX WELLS **TXFB10000000328**

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	128	Aggln:	127
Owner:	NRG Texas Power, LLC		
Attn:	C. E. Burch		
Corr:	W. A. Parish Electric Generating Station	Addr1:	P. O. Box 98
City:	Thompsons	State:	TX
Zip:	77481	Zipex:	Not Reported
Latd:	29		
Latm:	28		
Lats:	54		
Lond:	95		
Lonm:	38		
Lons:	14		
Stblk:	65		
Stquad:	35		
Stni:	3		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	457		
Totd:	803		
Diam:	18		
Alloc:	1090		
Active:	-1		
Agg2008:	7		
Pump2008:	787086000		
Agg2007:	7		
Pump2007:	863016000		
Agg2006:	7		
Pump2006:	861193000		
Agg2005:	7		
Pump2005:	795729000		
Agg2004:	7		
Pump2004:	947784000		
Agg2003:	7		
Pump2003:	727211000		
Agg2002:	7		
Pump2002:	693247000		
Agg2001:	7		
Pump2001:	759715000		
Agg2000:	7		
Pump2000:	893782000		
Agg1999:	7		
Pump1999:	852061000		
Agg1998:	7		
Pump1998:	651241000		
Agg1997:	7		
Pump1997:	772988000		
Agg1996:	7		
Pump1996:	857447000		
Agg1995:	7		
Pump1995:	913560000		

Agg1994:	7
Pump1994:	938784000
Agg1993:	7
Pump1993:	715643000
Agg1992:	7
Pump1992:	735286000
Agg1991:	7
Pump1991:	732925000
Agg1990:	7
Pump1990:	950884300

C9
NNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS2652393**

Agency cd:	USGS	Site no:	292855095380901
Site name:	JY-65-35-308		
Latitude:	292855	EDR Site id:	USGS2652393
Longitude:	0953809	Dec lat:	29.48218341
Dec lon:	-95.63605793	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	48
State:	48	County:	157
Country:	US	Land net:	Not Reported
Location map:	Smithers Lake, TX	Map scale:	24000
Altitude:	71		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Brazos. Texas. Area = 1650 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19810114
Date inventoried:	19871105	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined single aquifer		
Aquifer:	EVANGELINE AQUIFER		
Well depth:	859	Hole depth:	859
Source of depth data:	driller		
Project number:	4648-00250		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1981-01-14	Ground water data end date:	1981-01-14
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1981-01-14	129	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C10
NNW
1/4 - 1/2 Mile
Lower

TX WELLS **TXWDB3000021245**

Source Agency:	Texas Water Development Board		
State well:	6535308	County:	Fort Bend
Basin:	Brazos River	Gma:	14
Rwpa:	H	Districtid:	198914HX
Previous w:	Not Reported	Latitude:	292856
Lat dec:	29.482221		
Longitude:	953810		
Long dec:	-95.63611		
Owner 1:	HOUSTON LIGHTING AND P	Owner 2:	OWER CO
Driller 1:	ALSAY-TEXAS	Driller 2:	PARISH PLANT
Coords Accuracy:	+/- second		
Aquifer code:	121EVGL		
Aquifer id #1:	Gulf Coast	Aquifer id #2:	0
Aquifer id #3:	0	Elev of LSD:	71
Elev mmt method:	interpolated form topo map		
User code :	0		
Date drill:	1981	Well type:	withdrawal of water
Well depth:	859	Source of1:	Drillers' log or well report
Type of li:	turbine pump	Type of po:	electric motor
Horsepower:	Not Reported	Primary Use:	industrial
Second Use:	Not Reported	Tertia Use:	Not Reported
Water leve:	M	Water qual:	N
Well logs :	Not Reported	Other data:	Not Reported
Date coll :	11051987	Reporting :	Not Reported
Well sched:	Not Reported	Construct :	H
Completion:	R	Casing mat:	S
Screen mat:	Not Reported	Todays dat:	10/07/2003
User name:	Not Reported		
State well number:	6535308	Pn well visit mark:	P
Depth from lsd:	-129	Mm date:	1
Dd date:	14	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

D11
West
1/4 - 1/2 Mile
Lower

TX WELLS **TXEQ20000002709**

Source Agency:	Texas Commission on Environmental Quality		
Pws id:	0790100	Water sour:	G0790100A
Fips count:	157	Quadrangle:	2995-243
Latitude:	292838.1875		
Longitude:	953826.5625		
Location a:	Not Reported	Agency:	TCEQ
Location m:	GPS-S	Horizontal:	83
Spatial re:	T	Horizont 1:	I
Horizont 2:	S	Elevation:	66
Elevation :	D	Vertical d:	29
Location d:	09/25/2006	Elevation1:	04/24/2008

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elevatio 1:	TCEQ	Elevatio 2:	G
Latdd:	29.4772701263		
Longdd:	-95.6407165527		
Gps certif:	97101008	Need bette:	No
Last chang:	04/26/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Well depth:	851	Depth agency:	DRILL
Depth source:	D	Aquifer:	112CHCT
Aquifer id:	31		
Aquifer name:	CHICOT		
Aquifer method:	S	Aquifer type:	1
Drill date:	19751027	Last change:	12/15/2004
Initials:	KDM		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Fips county code:	157	Quadrangle number:	2995-243
Latitude:	292838.1875		
Longitude:	953826.5625		
Location accuracy:	Not Reported	Agency:	TCEQ
Location method:	GPS-S	Horizontal datum:	83
Spatial reference code:	T	Horizontal accuracy:	I
Horizontal reference:	S	Elevation:	66
Elevation method:	D	Vertical datum:	29
Location date:	Not Reported	Elevation date:	04/24/2008
Elevation agency:	TCEQ	Elevation accuracy:	G
Latdd:	29.4772701263428		
Longdd:	95.6407165527344		
Gps certification number:	97101008	Need better location:	No
Last change:	04/26/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Date:	19751022	Depth from land surface:	-120.0
Agency:	UNK	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	1	Well interval:	ANNULAR CEMENT
Top depth:	0	Bottom depth:	445
Depth positive:	Not Reported	Diameter:	0
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	2	Well interval:	CASING
Top depth:	2	Bottom depth:	445
Depth positive:	+	Diameter:	24
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100A
Record number:	3	Well interval:	CASING
Top depth:	0	Bottom depth:	40
Depth positive:	Not Reported	Diameter:	30
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	4	Well interval:	CASING
Top depth:	445	Bottom depth:	460
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	5	Well interval:	OPENING INTERVAL
Top depth:	460	Bottom depth:	470
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	1	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	6	Well interval:	CASING
Top depth:	470	Bottom depth:	482
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	7	Well interval:	WELL OPENINGS
Top depth:	482	Bottom depth:	512
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	30
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	8	Well interval:	CASING
Top depth:	512	Bottom depth:	526
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100A
Record number:	9	Well interval:	WELL OPENINGS
Top depth:	526	Bottom depth:	566
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	40
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	10	Well interval:	CASING
Top depth:	566	Bottom depth:	595
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	11	Well interval:	WELL OPENINGS
Top depth:	595	Bottom depth:	610
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	15
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	12	Well interval:	CASING
Top depth:	610	Bottom depth:	618
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	13	Well interval:	WELL OPENINGS
Top depth:	618	Bottom depth:	628
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	14	Well interval:	CASING
Top depth:	628	Bottom depth:	660
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100A
Record number:	15	Well interval:	WELL OPENINGS
Top depth:	660	Bottom depth:	690
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	30
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	16	Well interval:	CASING
Top depth:	690	Bottom depth:	702
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	17	Well interval:	WELL OPENINGS
Top depth:	702	Bottom depth:	727
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	25
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	18	Well interval:	CASING
Top depth:	727	Bottom depth:	750
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	19	Well interval:	WELL OPENINGS
Top depth:	750	Bottom depth:	760
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	20	Well interval:	CASING
Top depth:	760	Bottom depth:	772
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	21	Well interval:	WELL OPENINGS
Top depth:	772	Bottom depth:	782
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	22	Well interval:	CASING
Top depth:	782	Bottom depth:	793
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	23	Well interval:	WELL OPENINGS
Top depth:	793	Bottom depth:	818
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	25
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	24	Well interval:	CASING
Top depth:	818	Bottom depth:	822
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	25	Well interval:	WELL OPENINGS
Top depth:	822	Bottom depth:	832
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	26	Well interval:	CASING
Top depth:	832	Bottom depth:	851
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100A
Record number:	27	Well interval:	ANNULAR GRAVEL PACK
Top depth:	445	Bottom depth:	851
Depth positive:	Not Reported	Diameter:	34
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100A
Record number:	1	Top depth:	0
Bottom depth:	17	Thickness:	17
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	2	Top depth:	17
Bottom depth:	33	Thickness:	16
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	3	Top depth:	33
Bottom depth:	62	Thickness:	29
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	4	Top depth:	62
Bottom depth:	83	Thickness:	21
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	5	Top depth:	83
Bottom depth:	92	Thickness:	9
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100A
Record number:	6	Top depth:	92
Bottom depth:	119	Thickness:	27
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	7	Top depth:	119
Bottom depth:	187	Thickness:	68
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	8	Top depth:	187
Bottom depth:	212	Thickness:	25
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	9	Top depth:	212
Bottom depth:	237	Thickness:	25
Geologic description:	SANDY SHALE AND SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	10	Top depth:	237
Bottom depth:	284	Thickness:	47
Geologic description:	SHALE AND SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	11	Top depth:	284
Bottom depth:	298	Thickness:	14
Geologic description:	sand & shale strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	12	Top depth:	298
Bottom depth:	319	Thickness:	21
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	13	Top depth:	319
Bottom depth:	326	Thickness:	7
Geologic description:	SAND AND SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	14	Top depth:	326
Bottom depth:	371	Thickness:	45
Geologic description:	shale & sand strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	15	Top depth:	371
Bottom depth:	403	Thickness:	32
Geologic description:	SAND AND SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	16	Top depth:	403
Bottom depth:	420	Thickness:	17
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	17	Top depth:	420
Bottom depth:	429	Thickness:	9
Geologic description:	SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	18	Top depth:	429
Bottom depth:	434	Thickness:	5
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	19	Top depth:	434
Bottom depth:	512	Thickness:	78
Geologic description:	sand & shale strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	20	Top depth:	512
Bottom depth:	519	Thickness:	7
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	21	Top depth:	519
Bottom depth:	548	Thickness:	29
Geologic description:	SAND AND SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	22	Top depth:	548
Bottom depth:	558	Thickness:	10
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	23	Top depth:	558
Bottom depth:	568	Thickness:	10
Geologic description:	sand & shale strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	24	Top depth:	568
Bottom depth:	580	Thickness:	12
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	25	Top depth:	580
Bottom depth:	610	Thickness:	30
Geologic description:	SAND AND SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	26	Top depth:	610
Bottom depth:	616	Thickness:	6
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	27	Top depth:	616
Bottom depth:	631	Thickness:	15
Geologic description:	sand & shale brks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	28	Top depth:	631
Bottom depth:	657	Thickness:	26
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	29	Top depth:	657
Bottom depth:	688	Thickness:	31
Geologic description:	sand & shale brks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	30	Top depth:	688
Bottom depth:	702	Thickness:	14
Geologic description:	shale & sand strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	31	Top depth:	702
Bottom depth:	728	Thickness:	26
Geologic description:	sand & shale strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	32	Top depth:	728
Bottom depth:	746	Thickness:	18
Geologic description:	SAND AND SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	33	Top depth:	746
Bottom depth:	761	Thickness:	15
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	34	Top depth:	761
Bottom depth:	765	Thickness:	4
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	35	Top depth:	765
Bottom depth:	785	Thickness:	20
Geologic description:	SAND AND SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	36	Top depth:	785
Bottom depth:	791	Thickness:	6
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	37	Top depth:	791
Bottom depth:	838	Thickness:	47
Geologic description:	SAND AND SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	38	Top depth:	838
Bottom depth:	843	Thickness:	5
Geologic description:	shale & sand strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	39	Top depth:	843
Bottom depth:	849	Thickness:	6
Geologic description:	SAND AND SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100A
Record number:	40	Top depth:	849
Bottom depth:	851	Thickness:	2
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

D12
West
1/4 - 1/2 Mile
Lower

TX WELLS **TXFB10000000364**

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	130	Aggln:	127
Owner:	NRG Texas Power, LLC		
Attn:	C. E. Burch		
Corr:	W. A. Parish Electric Generating Station	Address:	P. O. Box 98
City:	Thompsons	State:	TX
Zip:	77481	Zipex:	Not Reported
Latd:	29		
Latm:	28		
Lats:	38		
Lond:	95		
Lonm:	38		

Lons:	27		
Stblk:	65		
Stquad:	35		
Stni:	3		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	460		
Totd:	851		
Diam:	24		
Alloc:	1090		
Active:	-1		
Agg2008:	7		
Pump2008:	787086000		
Agg2007:	7		
Pump2007:	863016000		
Agg2006:	7		
Pump2006:	861193000		
Agg2005:	7		
Pump2005:	795729000		
Agg2004:	7		
Pump2004:	947784000		
Agg2003:	7		
Pump2003:	727211000		
Agg2002:	7		
Pump2002:	693247000		
Agg2001:	7		
Pump2001:	759715000		
Agg2000:	7		
Pump2000:	893782000		
Agg1999:	7		
Pump1999:	852061000		
Agg1998:	7		
Pump1998:	651241000		
Agg1997:	7		
Pump1997:	772988000		
Agg1996:	7		
Pump1996:	857447000		
Agg1995:	7		
Pump1995:	913560000		
Agg1994:	7		
Pump1994:	938784000		
Agg1993:	7		
Pump1993:	715643000		
Agg1992:	7		
Pump1992:	735286000		
Agg1991:	7		
Pump1991:	732925000		
Agg1990:	7		
Pump1990:	950884300		

E13
North
1/4 - 1/2 Mile
Lower

TX WELLS **TXWDB3000021261**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Source Agency:	Texas Water Development Board		
State well:	6535304	County:	Fort Bend
Basin:	Brazos River	Gma:	14
Rwpa:	H	Districtid:	198914HX
Previous w:	Not Reported	Latitude:	292859
Lat dec:	29.483054		
Longitude:	953806		
Long dec:	-95.634999		
Owner 1:	A.P. George	Owner 2:	Not Reported
Driller 1:	Texas Water Wells	Driller 2:	Not Reported
Coords Accuracy:	+/- second		
Aquifer code:	112CEVG		
Aquifer id #1:	Gulf Coast	Aquifer id #2:	0
Aquifer id #3:	0	Elev of LSD:	70
Elev mmt method:	interpolated form topo map		
User code :	0		
Date drill:	1967	Well type:	withdrawal of water
Well depth:	853	Source of1:	Not Reported
Type of li:	submersible pump	Type of po:	electric motor
Horsepower:	60.00	Primary Use:	industrial
Second Use:	Not Reported	Tertia Use:	Not Reported
Water leve:	U	Water qual:	Y
Well logs :	Not Reported	Other data:	Not Reported
Date coll :	Not Reported	Reporting :	02
Well sched:	Y	Construct :	Not Reported
Completion:	Not Reported	Casing mat:	Not Reported
Screen mat:	Not Reported	Todays dat:	08/20/1996
User name:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	TEMPERATURE, WATER (CELSIUS)		
Flag:	Not Reported	Const val:	24.2
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	PH (STANDARD UNITS), FIELD		
Flag:	Not Reported	Const val:	7.4
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	ARSENIC, DISSOLVED (UG/L AS AS)		
Flag:	<	Const val:	10.
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	BARIUM, DISSOLVED (UG/L AS BA)		
Flag:	Not Reported	Const val:	150.
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	CADMIUM, DISSOLVED (UG/L AS CD)		
Flag:	<	Const val:	10.
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	CHROMIUM, DISSOLVED (UG/L AS CR)		
Flag:	<	Const val:	20.
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	MERCURY, DISSOLVED (UG/L AS HG)		
Flag:	Not Reported	Const val:	0.6
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	IRON, DISSOLVED (UG/L AS FE)		
Flag:	Not Reported	Const val:	51.
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	LEAD, DISSOLVED (UG/L AS PB)		
Flag:	<	Const val:	50.
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	MANGANESE, DISSOLVED (UG/L AS MN)		
Flag:	Not Reported	Const val:	27.
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	SILVER, DISSOLVED (UG/L AS AG)		
Flag:	<	Const val:	10.
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	ZINC, DISSOLVED (UG/L AS ZN)		
Flag:	<	Const val:	20.
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	SELENIUM, DISSOLVED (UG/L AS SE)		
Flag:	<	Const val:	2.
Plus minus:	Not Reported		

Date:	7/20/1988	Sample number:	1
Storet code:	COPPER, DISSOLVED (UG/L AS CU)		
Flag:	<	Const val:	20.
Plus minus:	Not Reported		

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-102	Mm date:	1
Dd date:	4	Yy date:	1974
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-96	Mm date:	1
Dd date:	5	Yy date:	1973
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-110	Mm date:	1
Dd date:	6	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	1
Dd date:	6	Yy date:	1989
Measurement number:	01	Measuring agency:	04
Method of meas:	A	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-153	Mm date:	1
Dd date:	6	Yy date:	2004
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	02/10/2005	User name:	drjones

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-191	Mm date:	1
Dd date:	6	Yy date:	2005
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	04/06/2006	User name:	drjones

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-105	Mm date:	1
Dd date:	7	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-113	Mm date:	1
Dd date:	7	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	1
Dd date:	8	Yy date:	1979
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-115	Mm date:	1
Dd date:	9	Yy date:	1987
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-117	Mm date:	1
Dd date:	10	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	1
Dd date:	11	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-133	Mm date:	1
Dd date:	13	Yy date:	1998
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	04/07/1999	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-141	Mm date:	1
Dd date:	15	Yy date:	2007
Measurement number:	01	Measuring agency:	04
Method of meas:	8	Remark:	Not Reported
Date entered:	04/04/2008	User name:	banderso

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-158	Mm date:	1
Dd date:	17	Yy date:	2002
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	05/05/2003	User name:	drjones

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-191	Mm date:	1
Dd date:	17	Yy date:	2002
Measurement number:	02	Measuring agency:	04
Method of meas:	7	Remark:	02
Date entered:	05/06/2003	User name:	drjones

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-133	Mm date:	1
Dd date:	18	Yy date:	1999
Measurement number:	01	Measuring agency:	04
Method of meas:	4	Remark:	Not Reported
Date entered:	05/23/2000	User name:	jphillip

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-119	Mm date:	1
Dd date:	22	Yy date:	1988
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	1
Dd date:	22	Yy date:	2003
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	01/28/2004	User name:	drjones

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-137	Mm date:	1
Dd date:	25	Yy date:	1995
Measurement number:	01	Measuring agency:	04
Method of meas:	3	Remark:	Not Reported
Date entered:	08/21/1995	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-193	Mm date:	1
Dd date:	31	Yy date:	2001
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	02/12/2002	User name:	drjones

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-108	Mm date:	2
Dd date:	6	Yy date:	1981
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-100	Mm date:	2
Dd date:	8	Yy date:	1967
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	2
Dd date:	8	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-115	Mm date:	2
Dd date:	10	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-112	Mm date:	2
Dd date:	11	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-110	Mm date:	2
Dd date:	12	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-116	Mm date:	2
Dd date:	12	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-103	Mm date:	2
Dd date:	18	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-148	Mm date:	2
Dd date:	22	Yy date:	2000
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	03/15/2001	User name:	jhopkins

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-142	Mm date:	3
Dd date:	1	Yy date:	2006
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	04/04/2007	User name:	banderso

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-103	Mm date:	3
Dd date:	2	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-111	Mm date:	3
Dd date:	3	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-112	Mm date:	3
Dd date:	11	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-115	Mm date:	3
Dd date:	15	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-115	Mm date:	3
Dd date:	16	Yy date:	1984
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-103	Mm date:	3
Dd date:	17	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-108	Mm date:	3
Dd date:	20	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-114	Mm date:	4
Dd date:	6	Yy date:	1984
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-119	Mm date:	4
Dd date:	11	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-109	Mm date:	4
Dd date:	15	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-102	Mm date:	4
Dd date:	22	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-113	Mm date:	4
Dd date:	26	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-111	Mm date:	5
Dd date:	12	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-102	Mm date:	5
Dd date:	14	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-105	Mm date:	5
Dd date:	15	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-115	Mm date:	5
Dd date:	17	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-115	Mm date:	5
Dd date:	18	Yy date:	1984
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-103	Mm date:	5
Dd date:	20	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-110	Mm date:	5
Dd date:	27	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-116	Mm date:	6
Dd date:	8	Yy date:	1984
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	6
Dd date:	13	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-101	Mm date:	6
Dd date:	14	Yy date:	1974
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-105	Mm date:	6
Dd date:	17	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-104	Mm date:	6
Dd date:	17	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-116	Mm date:	6
Dd date:	21	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-112	Mm date:	6
Dd date:	24	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-108	Mm date:	7
Dd date:	2	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-97	Mm date:	7
Dd date:	6	Yy date:	1973
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-106	Mm date:	7
Dd date:	8	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-114	Mm date:	7
Dd date:	8	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-117	Mm date:	7
Dd date:	11	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-117	Mm date:	7
Dd date:	12	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-119	Mm date:	7
Dd date:	13	Yy date:	1984
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-115	Mm date:	7
Dd date:	28	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-100	Mm date:	8
Dd date:	4	Yy date:	1972
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-110	Mm date:	8
Dd date:	5	Yy date:	1977
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-111	Mm date:	8
Dd date:	6	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-102	Mm date:	8
Dd date:	8	Yy date:	1975
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	8
Dd date:	8	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-117	Mm date:	8
Dd date:	16	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-115	Mm date:	8
Dd date:	18	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-107	Mm date:	8
Dd date:	21	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-113	Mm date:	9
Dd date:	3	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-119	Mm date:	9
Dd date:	5	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-121	Mm date:	9
Dd date:	7	Yy date:	1984
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-111	Mm date:	9
Dd date:	9	Yy date:	1977
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-113	Mm date:	9
Dd date:	9	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-120	Mm date:	9
Dd date:	13	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-106	Mm date:	9
Dd date:	18	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-117	Mm date:	9
Dd date:	22	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-108	Mm date:	10
Dd date:	0	Yy date:	1980
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-116	Mm date:	10
Dd date:	5	Yy date:	1984
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	10
Dd date:	6	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-111	Mm date:	10
Dd date:	7	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-113	Mm date:	10
Dd date:	8	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-106	Mm date:	10
Dd date:	9	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	10
Dd date:	11	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-108	Mm date:	10
Dd date:	14	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-113	Mm date:	11
Dd date:	4	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-113	Mm date:	11
Dd date:	5	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-122	Mm date:	11
Dd date:	8	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-115	Mm date:	11
Dd date:	9	Yy date:	1984
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-113	Mm date:	11
Dd date:	10	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-117	Mm date:	11
Dd date:	14	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-102	Mm date:	12
Dd date:	0	Yy date:	1968
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-102	Mm date:	12
Dd date:	5	Yy date:	1975
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-117	Mm date:	12
Dd date:	7	Yy date:	1984
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-116	Mm date:	12
Dd date:	12	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-140	Mm date:	12
Dd date:	13	Yy date:	1995
Measurement number:	01	Measuring agency:	04
Method of meas:	2	Remark:	Not Reported
Date entered:	04/03/1997	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-93	Mm date:	12
Dd date:	16	Yy date:	1974
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-121	Mm date:	12
Dd date:	20	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Pn well visit mark:	P
Depth from lsd:	-113	Mm date:	12
Dd date:	21	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535304	Mm date:	1
Dd date:	20	Yydate:	1969
Sample number:	1	Sample time:	Not Reported
Temp centigrade:	Not Reported	Top s interval:	Not Reported
Bottom s interval:	Not Reported	Samp int aqcode:	Not Reported
Collection remarks:	Not Reported	Reliability rem:	Not Reported
Collecting agency:	Not Reported	Lab code:	Not Reported
Bu wqanalysis:	B	Q00955 flag:	Not Reported
Q00955 silica mgl:	19	Q00910 flag:	Not Reported
Q00910 calcium mgl:	42	Q00920 flag:	Not Reported
Q00920 magnes mgl:	7	Q00929 flag:	Not Reported
Q00929 sodium mgl:	55	Q00937 flag:	Not Reported
Q00937 potass mgl:	Not Reported	Q01080 flag:	Not Reported
Q01080 strontium:	Not Reported	Q00445 carb mgl:	0
Q00440 bicarb mgl:	246	Q00945 flag:	Not Reported
Q00945 sulfate mgl:	17	Q00940 flag:	Not Reported
Q00940 chloride mg:	26	Q00951 flag:	Not Reported
Q00951 fluoride mg:	.4	Q71850 flag:	Not Reported
Q71850 nitrate mgl:	.3	Q00403 flag:	Not Reported
Q00403 ph:	7.4	Q70300 tds:	287

Q00415 flag:	Not Reported	Q00415 phen alk:	0
Q00410 flag:	Not Reported	Q00410 total alk:	201.58
Q00900 tot hardnes:	133	Q00932 percent na:	47
Q00931 sar:	2.07	Q71860 rsc:	1.36
Q00095 flag:	Not Reported	Q00095 spec cond:	482
Date entered:	Not Reported	User name:	pnordstr
Bu value:	Not Reported		

State well number:	6535304	Mm date:	7
Dd date:	20	Yydate:	1988
Sample number:	1	Sample time:	Not Reported
Temp centigrade:	24	Top s interval:	Not Reported
Bottom s interval:	Not Reported	Samp int aqcode:	Not Reported
Collection remarks:	SAMPLED AT WELL HEAD	Reliability rem:	Not Reported
Collecting agency:	01	Lab code:	01
Bu wqanalysis:	B	Q00955 flag:	Not Reported
Q00955 silica mgl:	20	Q00910 flag:	Not Reported
Q00910 calcium mgl:	45	Q00920 flag:	Not Reported
Q00920 magnes mgl:	6.3	Q00929 flag:	Not Reported
Q00929 sodium mgl:	59	Q00937 flag:	Not Reported
Q00937 potass mgl:	2.2	Q01080 flag:	Not Reported
Q01080 strontium:	Not Reported	Q00445 carb mgl:	0
Q00440 bicarb mgl:	251.6	Q00945 flag:	Not Reported
Q00945 sulfate mgl:	15	Q00940 flag:	Not Reported
Q00940 chloride mg:	25	Q00951 flag:	Not Reported
Q00951 fluoride mg:	.4	Q71850 flag:	Not Reported
Q71850 nitrate mgl:	.09	Q00403 flag:	Not Reported
Q00403 ph:	7.4	Q70300 tds:	296
Q00415 flag:	Not Reported	Q00415 phen alk:	0
Q00410 flag:	Not Reported	Q00410 total alk:	206
Q00900 tot hardnes:	138	Q00932 percent na:	47
Q00931 sar:	2.18	Q71860 rsc:	1.35
Q00095 flag:	Not Reported	Q00095 spec cond:	484
Date entered:	Not Reported	User name:	pnordstr
Bu value:	Not Reported		

E14
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS2652397**

Agency cd:	USGS	Site no:	292859095380501
Site name:	JY-65-35-304		
Latitude:	292859	EDR Site id:	USGS2652397
Longitude:	0953805	Dec lat:	29.48329448
Dec lon:	-95.63494679	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	48
State:	48	County:	157
Country:	US	Land net:	Not Reported
Location map:	Lake George, TX	Map scale:	24000
Altitude:	70		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	2.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Brazos. Texas. Area = 1650 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19670208
Date inventoried:	Not Reported	Mean greenwich time offset:	CST

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	CHICOT AND EVANGELINE AQUIFERS		
Well depth:	853	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	8653-00250		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-02-08	Ground water data end date:	2005-01-06
Ground water data count:	109		

Ground-water levels, Number of Measurements: 109

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-06	191		2004-01-06	153	
2003-01-22	118				
2002-01-17	191				
Note: The site was being pumped.					
2002-01-17	158		2001-01-31	193	
1998-01-13	133		1995-12-13	140	
1995-01-25	137		1989-01-06	118	
1988-01-22	117		1987-12-04	113	
1987-11-13	118		1987-09-25	124	
1987-08-14	117		1987-07-10	115	
1987-06-19	115		1987-05-09	116	
1987-04-03	113		1987-03-06	114	
1987-02-06	116		1987-01-09	115	
1986-12-12	116		1986-11-14	117	
1986-09-05	119		1986-08-08	118	
1986-07-11	117		1986-06-13	118	
1986-04-11	119		1986-02-12	116	
1986-01-10	117		1985-12-20	121	
1985-11-08	122		1985-10-11	118	
1985-09-13	120		1985-08-16	117	
1985-07-12	117		1985-06-21	116	
1985-05-17	115		1985-04-26	113	
1985-03-15	115		1985-02-08	118	
1985-01-11	118		1984-12-07	117	
1984-11-09	115		1984-10-05	116	
1984-09-07	121		1984-07-13	119	
1984-06-08	116		1984-05-18	115	
1984-04-06	114		1984-03-16	115	
1984-02-10	115		1983-12-21	113	
1983-11-04	113		1983-10-14	108	
1983-09-09	113		1983-07-08	114	
1983-06-24	112		1983-05-27	110	
1983-04-15	109		1983-03-11	112	
1983-02-11	112		1983-01-07	113	
1982-11-05	113		1982-10-08	113	
1982-09-03	113		1982-08-06	111	
1982-07-02	108		1982-05-14	102	
1982-03-02	103		1982-02-12	110	
1981-10-09	106		1981-09-18	106	
1981-08-21	107		1981-06-17	104	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1981-05-15	105	
1981-02-06	108	
1979-01-08	118	
1978-09-22	117	
1978-07-28	115	
1978-03-03	111	
1977-11-10	113	
1977-09-09	111	
1977-07-08	106	
1977-05-20	103	
1977-03-17	103	
1977-01-07	105	
1975-08-08	102	
1974-06-14	101	
1973-07-06	97	
1972-08-04	100	
1967-02-08	100	
1981-03-20	108	
1980-10	108	
1978-10-06	118	
1978-08-18	115	
1978-05-12	111	
1978-01-06	110	
1977-10-07	111	
1977-08-05	110	
1977-06-17	105	
1977-04-22	102	
1977-02-18	103	
1975-12-05	102	
1974-12-16	93	
1974-01-04	102	
1973-01-05	96	
1968-12	102	

E15
North **TX WELLS** **TXFB10000000362**
1/4 - 1/2 Mile
Lower

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	129	Aggln:	127
Owner:	NRG Texas Power, LLC		
Attn:	C. E. Burch		
Corr:	W. A. Parish Electric Generating Station	Address:	P. O. Box 98
City:	Thompsons	State:	TX
Zip:	77481	Zipex:	Not Reported
Latd:	29		
Latm:	29		
Lats:	1		
Lond:	95		
Lonm:	38		
Lons:	5		
Stblk:	65		
Stquad:	35		
Stni:	3		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	457		
Totd:	803		
Diam:	18		
Alloc:	1090		
Active:	-1		
Agg2008:	7		
Pump2008:	787086000		
Agg2007:	7		
Pump2007:	863016000		
Agg2006:	7		
Pump2006:	861193000		
Agg2005:	7		
Pump2005:	795729000		

Agg2004:	7
Pump2004:	947784000
Agg2003:	7
Pump2003:	727211000
Agg2002:	7
Pump2002:	693247000
Agg2001:	7
Pump2001:	759715000
Agg2000:	7
Pump2000:	893782000
Agg1999:	7
Pump1999:	852061000
Agg1998:	7
Pump1998:	651241000
Agg1997:	7
Pump1997:	772988000
Agg1996:	7
Pump1996:	857477000
Agg1995:	7
Pump1995:	913560000
Agg1994:	7
Pump1994:	938784000
Agg1993:	7
Pump1993:	715643000
Agg1992:	7
Pump1992:	735286000
Agg1991:	7
Pump1991:	732925000
Agg1990:	7
Pump1990:	950884300

E16
North
1/4 - 1/2 Mile
Lower

TX WELLS **TXEQ20000002734**

Source Agency:	Texas Commission on Environmental Quality		
Pws id:	0790140	Water sour:	G0790140C
Fips count:	157	Quadrangle:	2995-243
Latitude:	292901.09375		
Longitude:	953805.1875		
Location a:	Not Reported	Agency:	TCEQ
Location m:	GPS-S	Horizontal:	83
Spatial re:	T	Horizont 1:	I
Horizont 2:	S	Elevation:	66
Elevation :	D	Vertical d:	29
Location d:	01/23/2007	Elevation1:	04/24/2008
Elevatio 1:	TCEQ	Elevatio 2:	G
Latdd:	29.4836406708		
Longdd:	-95.6347732544		
Gps certif:	97101008	Need bette:	Not Reported
Last chang:	05/07/2004	Initials:	DPT
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140C
Well depth:	853	Depth agency:	DRILL
Depth source:	D	Aquifer:	112CHCT
Aquifer id:	31		
Aquifer name:	CHICOT		
Aquifer method:	S	Aquifer type:	1
Drill date:	19670000	Last change:	02/28/2003
Initials:	JSA		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Fips county code:	157	Quadrangle number:	2995-243
Latitude:	292901.09375		
Longitude:	953805.1875		
Location accuracy:	Not Reported	Agency:	TCEQ
Location method:	GPS-S	Horizontal datum:	83
Spatial reference code:	T	Horizontal accuracy:	I
Horizontal reference:	S	Elevation:	66
Elevation method:	D	Vertical datum:	29
Location date:	Not Reported	Elevation date:	04/24/2008
Elevation agency:	TCEQ	Elevation accuracy:	G
Latdd:	29.4836406707764		
Longdd:	95.6347732543945		
Gps certification number:	97101008	Need better location:	Not Reported
Last change:	05/07/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	1	Well interval:	ANNULAR CEMENT
Top depth:	0	Bottom depth:	443
Depth positive:	Not Reported	Diameter:	0
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	2	Well interval:	CASING
Top depth:	0	Bottom depth:	443
Depth positive:	Not Reported	Diameter:	24
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	3	Well interval:	CASING
Top depth:	343	Bottom depth:	453
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140C
Record number:	4	Well interval:	WELL OPENINGS
Top depth:	453	Bottom depth:	464
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	11
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	5	Well interval:	CASING
Top depth:	464	Bottom depth:	489
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	6	Well interval:	WELL OPENINGS
Top depth:	489	Bottom depth:	512
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	23
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	7	Well interval:	CASING
Top depth:	512	Bottom depth:	540
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	8	Well interval:	WELL OPENINGS
Top depth:	540	Bottom depth:	572
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	32
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	9	Well interval:	CASING
Top depth:	572	Bottom depth:	614
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	10	Well interval:	WELL OPENINGS
Top depth:	614	Bottom depth:	632
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	18
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	11	Well interval:	CASING
Top depth:	632	Bottom depth:	648
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	12	Well interval:	WELL OPENINGS
Top depth:	648	Bottom depth:	673
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	25
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	13	Well interval:	CASING
Top depth:	673	Bottom depth:	678
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	14	Well interval:	WELL OPENINGS
Top depth:	678	Bottom depth:	688
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	15	Well interval:	CASING
Top depth:	688	Bottom depth:	708
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	16	Well interval:	WELL OPENINGS
Top depth:	708	Bottom depth:	728
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	20
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	17	Well interval:	CASING
Top depth:	728	Bottom depth:	768
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	18	Well interval:	WELL OPENINGS
Top depth:	768	Bottom depth:	778
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	19	Well interval:	CASING
Top depth:	778	Bottom depth:	792
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	20	Well interval:	WELL OPENINGS
Top depth:	792	Bottom depth:	836
Depth positive:	Not Reported	Diameter:	14
Opening type:	S	Casing material:	Not Reported
Opening material:	R	Opening length:	44
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140C
Record number:	21	Well interval:	CASING
Top depth:	836	Bottom depth:	853
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140C
Record number:	1	Top depth:	0
Bottom depth:	6	Thickness:	6
Geologic description:	GROUND LEVEL		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	2	Top depth:	6
Bottom depth:	8	Thickness:	2
Geologic description:	SURFACE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	3	Top depth:	8
Bottom depth:	12	Thickness:	4
Geologic description:	CLAY - SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	4	Top depth:	12
Bottom depth:	25	Thickness:	13
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	5	Top depth:	25
Bottom depth:	41	Thickness:	16
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	6	Top depth:	41
Bottom depth:	60	Thickness:	19
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140C
Record number:	7	Top depth:	60
Bottom depth:	97	Thickness:	37
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	8	Top depth:	97
Bottom depth:	116	Thickness:	19
Geologic description:	SAND - GRAVEL		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	9	Top depth:	116
Bottom depth:	142	Thickness:	26
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	10	Top depth:	142
Bottom depth:	167	Thickness:	25
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	11	Top depth:	167
Bottom depth:	185	Thickness:	18
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	12	Top depth:	185
Bottom depth:	219	Thickness:	34
Geologic description:	SAND - BROKEN		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	13	Top depth:	219
Bottom depth:	229	Thickness:	10
Geologic description:	SAND - GRAVEL		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	14	Top depth:	229
Bottom depth:	249	Thickness:	20
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	15	Top depth:	249
Bottom depth:	265	Thickness:	16
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	16	Top depth:	265
Bottom depth:	277	Thickness:	12
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	17	Top depth:	277
Bottom depth:	288	Thickness:	11
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	18	Top depth:	288
Bottom depth:	293	Thickness:	5
Geologic description:	SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

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Pws id:	0790140	Water source:	G0790140C
Record number:	19	Top depth:	293
Bottom depth:	308	Thickness:	15
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	20	Top depth:	308
Bottom depth:	314	Thickness:	6
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	21	Top depth:	314
Bottom depth:	324	Thickness:	10
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	22	Top depth:	324
Bottom depth:	367	Thickness:	43
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	23	Top depth:	367
Bottom depth:	376	Thickness:	9
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	24	Top depth:	376
Bottom depth:	446	Thickness:	70
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	25	Top depth:	446
Bottom depth:	466	Thickness:	20
Geologic description:	SAND - SHALE STRKS		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	26	Top depth:	466
Bottom depth:	488	Thickness:	22
Geologic description:	SHALE - SAND STRKS		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	27	Top depth:	488
Bottom depth:	575	Thickness:	87
Geologic description:	SAND - BROKEN		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	28	Top depth:	575
Bottom depth:	586	Thickness:	11
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	29	Top depth:	586
Bottom depth:	599	Thickness:	13
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	30	Top depth:	599
Bottom depth:	613	Thickness:	14
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	31	Top depth:	613
Bottom depth:	633	Thickness:	20
Geologic description:	SAND - BROKEN		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	32	Top depth:	633
Bottom depth:	643	Thickness:	10
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	33	Top depth:	643
Bottom depth:	689	Thickness:	46
Geologic description:	SAND BROKEN - SHALE STRKS		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	34	Top depth:	689
Bottom depth:	696	Thickness:	7
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	35	Top depth:	696
Bottom depth:	720	Thickness:	24
Geologic description:	SAND - SHALE STRKS		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	36	Top depth:	720
Bottom depth:	728	Thickness:	8
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	37	Top depth:	728
Bottom depth:	731	Thickness:	3
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	38	Top depth:	731
Bottom depth:	738	Thickness:	7
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	39	Top depth:	738
Bottom depth:	742	Thickness:	4
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	40	Top depth:	742
Bottom depth:	767	Thickness:	25
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	41	Top depth:	767
Bottom depth:	783	Thickness:	16
Geologic description:	SAND - BROKEN		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	42	Top depth:	783
Bottom depth:	791	Thickness:	8
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	43	Top depth:	791
Bottom depth:	804	Thickness:	13
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	44	Top depth:	804
Bottom depth:	807	Thickness:	3
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	45	Top depth:	807
Bottom depth:	837	Thickness:	30
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140C
Record number:	46	Top depth:	837
Bottom depth:	847	Thickness:	10
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	02/28/2003		
Remarks:	Not Reported		

E17
North
1/4 - 1/2 Mile
Lower

TX WELLS **TXEQ20000002735**

Source Agency:	Texas Commission on Environmental Quality		
Pws id:	0790140	Water sour:	G0790140E
Fips count:	157	Quadrangle:	2995-243
Latitude:	292901.09375		
Longitude:	953805.1875		
Location a:	Not Reported	Agency:	TCEQ
Location m:	GPS-S	Horizontal:	83
Spatial re:	T	Horizont 1:	I
Horizont 2:	S	Elevation:	0
Elevation :	Not Reported	Vertical d:	Not Reported
Location d:	01/23/2007	Elevation1:	05/21/2003
Elevatio 1:	Not Reported	Elevatio 2:	Not Reported
Latdd:	29.4836406708		
Longdd:	-95.6347732544		
Gps certif:	97101008	Need bette:	Not Reported
Last chang:	05/07/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140E
Well depth:	Not Reported	Depth agency:	Not Reported
Depth source:	Not Reported	Aquifer:	Not Reported
Aquifer id:	Not Reported		
Aquifer name:	Not Reported		
Aquifer method:	Not Reported	Aquifer type:	Not Reported
Drill date:	99999999	Last change:	Not Reported
Initials:	Not Reported		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140E
Fips county code:	157	Quadrangle number:	2995-243
Latitude:	292901.09375		
Longitude:	953805.1875		
Location accuracy:	Not Reported	Agency:	TCEQ
Location method:	GPS-S	Horizontal datum:	83
Spatial reference code:	T	Horizontal accuracy:	I
Horizontal reference:	S	Elevation:	Not Reported
Elevation method:	Not Reported	Vertical datum:	Not Reported
Location date:	Not Reported	Elevation date:	Not Reported
Elevation agency:	Not Reported	Elevation accuracy:	Not Reported
Latdd:	29.4836406707764		
Longdd:	95.6347732543945		
Gps certification number:	97101008	Need better location:	Not Reported
Last change:	05/07/2004	Initials:	DPT
Remarks:	Not Reported		

F18
NNE **FED USGS** **USGS2652402**
1/4 - 1/2 Mile
Lower

Agency cd:	USGS	Site no:	292903095375501
Site name:	JY-65-35-302		
Latitude:	292903	EDR Site id:	USGS2652402
Longitude:	0953755	Dec lat:	29.48440554
Dec lon:	-95.63216895	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	48
State:	48	County:	157
Country:	US	Land net:	Not Reported
Location map:	Lake George, TX	Map scale:	24000
Altitude:	74		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	2.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Brazos. Texas. Area = 1650 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	195604
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	CHICOT AQUIFER		
Well depth:	702	Hole depth:	1500
Source of depth data:	Not Reported		
Project number:	8653-00250		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

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Peak flow data count: 0
Water quality data end date: 0000-00-00
Ground water data begin date: 1956-04-00
Ground water data count: 115
Water quality data begin date: 0000-00-00
Water quality data count: 0
Ground water data end date: 2005-01-06

Ground-water levels, Number of Measurements: 115

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-01-06	116		2004-01-06	118	
2003-01-22	112		2002-01-17	114	
2002-01-17	142				
Note: The site was being pumped.					
2001-01-31	118		1998-01-13	112	
1997-01-15	126		1995-12-13	126	
1995-01-26	125		1994-01-13	126	
1993-01-08	124		1991-12-06	125	
1991-01-25	132		1990-01-29	127	
1989-01-06	132		1988-01-22	128	
1987-12-04	131		1987-11-13	132	
1987-09-25	132		1987-08-14	130	
1987-07-10	129		1987-06-19	129	
1987-05-09	130		1987-04-03	128	
1987-03-06	128		1987-02-06	127	
1987-01-09	128		1986-12-12	127	
1986-11-14	129		1986-09-05	133	
1986-08-08	132		1986-07-11	128	
1986-06-13	132		1986-04-11	130	
1986-02-21	128		1986-01-10	132	
1985-12-20	128		1985-11-08	133	
1985-10-11	134		1985-09-13	126	
1985-08-16	131		1985-07-12	131	
1985-06-21	130		1985-05-17	127	
1985-04-26	130		1985-03-15	133	
1985-02-08	132		1985-01-11	130	
1984-12-07	133		1984-11-09	129	
1984-10-05	131		1984-09-07	133	
1984-07-13	132		1984-06-08	128	
1984-05-18	128		1984-04-06	125	
1984-03-16	126		1984-02-10	128	
1983-12-21	128		1983-11-04	127	
1983-10-14	126		1983-09-09	128	
1983-07-08	128		1983-06-24	127	
1983-05-27	123		1983-04-15	124	
1983-03-11	125		1983-02-11	124	
1983-01-07	129		1982-11-05	128	
1982-10-08	128		1982-09-03	128	
1982-08-06	128		1982-07-02	124	
1982-05-14	118		1982-03-02	122	
1982-02-12	128		1981-10-09	123	
1981-09-18	125		1981-08-21	123	
1981-06-17	120		1981-05-15	118	
1981-03-20	119		1981-02-06	119	
1980-10	120		1980-01-18	113	
1979-01-08	114		1978-10-06	114	
1978-09-22	114		1978-08-18	113	
1978-07-28	112		1978-05-12	108	
1978-03-03	107		1978-01-06	108	
1977-12-09	108		1977-10-07	108.5	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1977-09-09	108		1977-08-05	108	
1977-07-08	105		1977-06-17	103	
1977-05-20	100		1977-04-22	100	
1977-03-17	103.5		1977-02-18	103	
1977-01-07	102		1975-12-05	99	
1975-08-08	97		1974-12-16	91	
1974-06-14	96		1974-01-04	97	
1973-07-06	93		1973-01-05	96	
1972-08-04	100		1956-04	54	

F19
NNE **TX WELLS** **TXWDB3000021280**
1/4 - 1/2 Mile
Lower

Source Agency:	Texas Water Development Board		
State well:	6535302	County:	Fort Bend
Basin:	Brazos River	Gma:	14
Rwpa:	H	Districtid:	198914HX
Previous w:	Not Reported	Latitude:	292904
Lat dec:	29.484444		
Longitude:	953756		
Long dec:	-95.632221		
Owner 1:	Houston Lt. & Pwr	Owner 2:	Not Reported
Driller 1:	Layne-Texas	Driller 2:	Not Reported
Coords Accuracy:	+/- second		
Aquifer code:	CHICOT AQUIFER,LOWER		
Aquifer id #1:	Gulf Coast	Aquifer id #2:	0
Aquifer id #3:	0	Elev of LSD:	74
Elev mmt method:	interpolated form topo map		
User code :	0		
Date drill:	1956	Well type:	withdrawal of water
Well depth:	702	Source of1:	Not Reported
Type of li:	submersible pump	Type of po:	electric motor
Horsepower:	25.00	Primary Use:	industrial
Second Use:	Not Reported	Tertia Use:	Not Reported
Water leve:	U	Water qual:	Y
Well logs :	Not Reported	Other data:	Not Reported
Date coll :	Not Reported	Reporting :	02
Well sched:	Y	Construct :	Not Reported
Completion:	Not Reported	Casing mat:	Not Reported
Screen mat:	Not Reported	Todays dat:	08/20/1996
User name:	Not Reported		
Date:	3/22/1956	Sample number:	1
Storet code:	IRON, TOTAL (UG/L AS FE)		
Flag:	Not Reported	Const val:	1400.
Plus minus:	Not Reported		
Date:	3/23/1956	Sample number:	1
Storet code:	IRON, TOTAL (UG/L AS FE)		
Flag:	Not Reported	Const val:	1800.
Plus minus:	Not Reported		

Date:	3/24/1956	Sample number:	1
Storet code:	IRON, TOTAL (UG/L AS FE)		
Flag:	Not Reported	Const val:	800.
Plus minus:	Not Reported		

Date:	4/7/1956	Sample number:	1
Storet code:	IRON, TOTAL (UG/L AS FE)		
Flag:	Not Reported	Const val:	200.
Plus minus:	Not Reported		

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-97	Mm date:	1
Dd date:	4	Yy date:	1974
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-96	Mm date:	1
Dd date:	5	Yy date:	1973
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-108	Mm date:	1
Dd date:	6	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-132	Mm date:	1
Dd date:	6	Yy date:	1989
Measurement number:	01	Measuring agency:	04
Method of meas:	A	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	1
Dd date:	6	Yy date:	2004
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	02/10/2005	User name:	drjones

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-116	Mm date:	1
Dd date:	6	Yy date:	2005
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	04/06/2006	User name:	drjones

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-102	Mm date:	1
Dd date:	7	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-129	Mm date:	1
Dd date:	7	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-114	Mm date:	1
Dd date:	8	Yy date:	1979
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-124	Mm date:	1
Dd date:	8	Yy date:	1993
Measurement number:	01	Measuring agency:	04
Method of meas:	3	Remark:	Not Reported
Date entered:	03/16/1994	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	1
Dd date:	9	Yy date:	1987
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-132	Mm date:	1
Dd date:	10	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-130	Mm date:	1
Dd date:	11	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	1
Dd date:	13	Yy date:	1994
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	03/16/1995	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-112	Mm date:	1
Dd date:	13	Yy date:	1998
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	04/07/1999	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	1
Dd date:	15	Yy date:	1997
Measurement number:	01	Measuring agency:	04
Method of meas:	2	Remark:	Not Reported
Date entered:	09/17/1997	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-120	Mm date:	1
Dd date:	15	Yy date:	2007
Measurement number:	01	Measuring agency:	04
Method of meas:	8	Remark:	Not Reported
Date entered:	04/04/2008	User name:	banderso

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-114	Mm date:	1
Dd date:	17	Yy date:	2002
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	05/05/2003	User name:	drjones

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-142	Mm date:	1
Dd date:	17	Yy date:	2002
Measurement number:	02	Measuring agency:	04
Method of meas:	7	Remark:	02
Date entered:	05/06/2003	User name:	drjones

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-113	Mm date:	1
Dd date:	18	Yy date:	1980
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-115	Mm date:	1
Dd date:	18	Yy date:	1999
Measurement number:	01	Measuring agency:	04
Method of meas:	4	Remark:	Not Reported
Date entered:	05/23/2000	User name:	jphillip

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-130	Mm date:	1
Dd date:	22	Yy date:	1988
Measurement number:	01	Measuring agency:	04
Method of meas:	A	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-112	Mm date:	1
Dd date:	22	Yy date:	2003
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	01/28/2004	User name:	drjones

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-132	Mm date:	1
Dd date:	25	Yy date:	1991
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-125	Mm date:	1
Dd date:	26	Yy date:	1995
Measurement number:	01	Measuring agency:	04
Method of meas:	3	Remark:	Not Reported
Date entered:	08/21/1995	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-127	Mm date:	1
Dd date:	29	Yy date:	1990
Measurement number:	01	Measuring agency:	04
Method of meas:	A	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	1
Dd date:	31	Yy date:	2001
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	02/12/2002	User name:	drjones

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-119	Mm date:	2
Dd date:	6	Yy date:	1981
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-132	Mm date:	2
Dd date:	8	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	2
Dd date:	10	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	2
Dd date:	11	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	2
Dd date:	12	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-103	Mm date:	2
Dd date:	18	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	2
Dd date:	21	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	2
Dd date:	22	Yy date:	2000
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	03/15/2001	User name:	jhopkins

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	3
Dd date:	1	Yy date:	2006
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	04/04/2007	User name:	banderso

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-122	Mm date:	3
Dd date:	2	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-107	Mm date:	3
Dd date:	3	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-125	Mm date:	3
Dd date:	11	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-133	Mm date:	3
Dd date:	15	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	3
Dd date:	16	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-103.5	Mm date:	3
Dd date:	17	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-119	Mm date:	3
Dd date:	20	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-54	Mm date:	4
Dd date:	0	Yy date:	1956
Measurement number:	01	Measuring agency:	07
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-125	Mm date:	4
Dd date:	6	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-130	Mm date:	4
Dd date:	11	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-124	Mm date:	4
Dd date:	15	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-100	Mm date:	4
Dd date:	22	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-130	Mm date:	4
Dd date:	26	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-108	Mm date:	5
Dd date:	12	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	5
Dd date:	14	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-118	Mm date:	5
Dd date:	15	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-127	Mm date:	5
Dd date:	17	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	5
Dd date:	18	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-100	Mm date:	5
Dd date:	20	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	5
Dd date:	27	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	6
Dd date:	8	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-132	Mm date:	6
Dd date:	13	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-96	Mm date:	6
Dd date:	14	Yy date:	1974
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-103	Mm date:	6
Dd date:	17	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-120	Mm date:	6
Dd date:	17	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-130	Mm date:	6
Dd date:	21	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-127	Mm date:	6
Dd date:	24	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-124	Mm date:	7
Dd date:	2	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-93	Mm date:	7
Dd date:	6	Yy date:	1973
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-105	Mm date:	7
Dd date:	8	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	7
Dd date:	8	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	7
Dd date:	11	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-131	Mm date:	7
Dd date:	12	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-132	Mm date:	7
Dd date:	13	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-112	Mm date:	7
Dd date:	28	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-100	Mm date:	8
Dd date:	4	Yy date:	1972
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-108	Mm date:	8
Dd date:	5	Yy date:	1977
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	8
Dd date:	6	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-97	Mm date:	8
Dd date:	8	Yy date:	1975
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-132	Mm date:	8
Dd date:	8	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-131	Mm date:	8
Dd date:	16	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-113	Mm date:	8
Dd date:	18	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	8
Dd date:	21	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	9
Dd date:	3	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-133	Mm date:	9
Dd date:	5	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-133	Mm date:	9
Dd date:	7	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-108	Mm date:	9
Dd date:	9	Yy date:	1977
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	9
Dd date:	9	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	9
Dd date:	13	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-125	Mm date:	9
Dd date:	18	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-114	Mm date:	9
Dd date:	22	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-120	Mm date:	10
Dd date:	0	Yy date:	1980
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-131	Mm date:	10
Dd date:	5	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-114	Mm date:	10
Dd date:	6	Yy date:	1978
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-108.5	Mm date:	10
Dd date:	7	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	10
Dd date:	8	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-123	Mm date:	10
Dd date:	9	Yy date:	1981
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-134	Mm date:	10
Dd date:	11	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-126	Mm date:	10
Dd date:	14	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-127	Mm date:	11
Dd date:	4	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	11
Dd date:	5	Yy date:	1982
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-133	Mm date:	11
Dd date:	8	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-129	Mm date:	11
Dd date:	9	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-129	Mm date:	11
Dd date:	14	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-99	Mm date:	12
Dd date:	5	Yy date:	1975
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-125	Mm date:	12
Dd date:	6	Yy date:	1991
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-133	Mm date:	12
Dd date:	7	Yy date:	1984
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-108	Mm date:	12
Dd date:	9	Yy date:	1977
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-127	Mm date:	12
Dd date:	12	Yy date:	1986
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-12.6	Mm date:	12
Dd date:	13	Yy date:	1995
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	04/03/1997	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-91	Mm date:	12
Dd date:	16	Yy date:	1974
Measurement number:	01	Measuring agency:	07
Method of meas:	3	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	12
Dd date:	20	Yy date:	1985
Measurement number:	01	Measuring agency:	04
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Pn well visit mark:	P
Depth from lsd:	-128	Mm date:	12
Dd date:	21	Yy date:	1983
Measurement number:	01	Measuring agency:	04
Method of meas:	7	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535302	Mm date:	3
Dd date:	22	Yydate:	1956
Sample number:	1	Sample time:	Not Reported
Temp centigrade:	Not Reported	Top s interval:	Not Reported
Bottom s interval:	Not Reported	Samp int aqcode:	Not Reported
Collection remarks:	Not Reported	Reliability rem:	Not Reported
Collecting agency:	Not Reported	Lab code:	Not Reported
Bu wqanalysis:	B	Q00955 flag:	Not Reported
Q00955 silica mgl:	10	Q00910 flag:	Not Reported
Q00910 calcium mgl:	45	Q00920 flag:	Not Reported
Q00920 magnes mgl:	7	Q00929 flag:	Not Reported
Q00929 sodium mgl:	52	Q00937 flag:	Not Reported
Q00937 potass mgl:	Not Reported	Q01080 flag:	Not Reported
Q01080 strontium:	Not Reported	Q00445 carb mgl:	0
Q00440 bicarb mgl:	244	Q00945 flag:	Not Reported
Q00945 sulfate mgl:	17	Q00940 flag:	Not Reported
Q00940 chloride mg:	26	Q00951 flag:	Not Reported
Q00951 fluoride mg:	Not Reported	Q71850 flag:	Not Reported
Q71850 nitrate mgl:	Not Reported	Q00403 flag:	Not Reported
Q00403 ph:	7.6	Q70300 tds:	276

Q00415 flag:	Not Reported	Q00415 phen alk:	0
Q00410 flag:	Not Reported	Q00410 total alk:	199.94
Q00900 tot hardnes:	141	Q00932 percent na:	44
Q00931 sar:	1.9	Q71860 rsc:	1.18
Q00095 flag:	Not Reported	Q00095 spec cond:	Not Reported
Date entered:	Not Reported	User name:	pnordstr
Bu value:	Not Reported		

State well number:	6535302	Mm date:	3
Dd date:	23	Yydate:	1956
Sample number:	1	Sample time:	Not Reported
Temp centigrade:	Not Reported	Top s interval:	Not Reported
Bottom s interval:	Not Reported	Samp int aqcode:	Not Reported
Collection remarks:	Not Reported	Reliability rem:	Not Reported
Collecting agency:	Not Reported	Lab code:	Not Reported
Bu wqanalysis:	B	Q00955 flag:	Not Reported
Q00955 silica mgl:	16	Q00910 flag:	Not Reported
Q00910 calcium mgl:	21	Q00920 flag:	Not Reported
Q00920 magnes mgl:	4	Q00929 flag:	Not Reported
Q00929 sodium mgl:	141	Q00937 flag:	Not Reported
Q00937 potass mgl:	Not Reported	Q01080 flag:	Not Reported
Q01080 strontium:	Not Reported	Q00445 carb mgl:	0
Q00440 bicarb mgl:	220	Q00945 flag:	Not Reported
Q00945 sulfate mgl:	49	Q00940 flag:	Not Reported
Q00940 chloride mg:	101	Q00951 flag:	Not Reported
Q00951 fluoride mg:	Not Reported	Q71850 flag:	Not Reported
Q71850 nitrate mgl:	Not Reported	Q00403 flag:	Not Reported
Q00403 ph:	8.1	Q70300 tds:	440
Q00415 flag:	Not Reported	Q00415 phen alk:	0
Q00410 flag:	Not Reported	Q00410 total alk:	180.28
Q00900 tot hardnes:	68	Q00932 percent na:	81
Q00931 sar:	7.39	Q71860 rsc:	2.23
Q00095 flag:	Not Reported	Q00095 spec cond:	Not Reported
Date entered:	Not Reported	User name:	pnordstr
Bu value:	Not Reported		

State well number:	6535302	Mm date:	3
Dd date:	24	Yydate:	1956
Sample number:	1	Sample time:	Not Reported
Temp centigrade:	Not Reported	Top s interval:	Not Reported
Bottom s interval:	Not Reported	Samp int aqcode:	Not Reported
Collection remarks:	Not Reported	Reliability rem:	Not Reported
Collecting agency:	Not Reported	Lab code:	Not Reported
Bu wqanalysis:	U	Q00955 flag:	Not Reported
Q00955 silica mgl:	18	Q00910 flag:	Not Reported
Q00910 calcium mgl:	18	Q00920 flag:	Not Reported
Q00920 magnes mgl:	4	Q00929 flag:	Not Reported
Q00929 sodium mgl:	189	Q00937 flag:	Not Reported
Q00937 potass mgl:	Not Reported	Q01080 flag:	Not Reported
Q01080 strontium:	Not Reported	Q00445 carb mgl:	Not Reported
Q00440 bicarb mgl:	244	Q00945 flag:	Not Reported
Q00945 sulfate mgl:	24	Q00940 flag:	Not Reported
Q00940 chloride mg:	176	Q00951 flag:	Not Reported
Q00951 fluoride mg:	Not Reported	Q71850 flag:	Not Reported
Q71850 nitrate mgl:	Not Reported	Q00403 flag:	Not Reported
Q00403 ph:	8.3	Q70300 tds:	548

Q00415 flag:	Not Reported	Q00415 phen alk:	Not Reported
Q00410 flag:	Not Reported	Q00410 total alk:	Not Reported
Q00900 tot hardnes:	61	Q00932 percent na:	87
Q00931 sar:	10.49	Q71860 rsc:	Not Reported
Q00095 flag:	Not Reported	Q00095 spec cond:	Not Reported
Date entered:	Not Reported	User name:	pnordstr
Bu value:	Not Reported		

State well number:	6535302	Mm date:	4
Dd date:	7	Yydate:	1956
Sample number:	1	Sample time:	Not Reported
Temp centigrade:	Not Reported	Top s interval:	Not Reported
Bottom s interval:	Not Reported	Samp int aqcode:	Not Reported
Collection remarks:	Not Reported	Reliability rem:	Not Reported
Collecting agency:	Not Reported	Lab code:	Not Reported
Bu wqanalysis:	B	Q00955 flag:	Not Reported
Q00955 silica mgl:	17	Q00910 flag:	Not Reported
Q00910 calcium mgl:	44	Q00920 flag:	Not Reported
Q00920 magnes mgl:	6	Q00929 flag:	Not Reported
Q00929 sodium mgl:	58	Q00937 flag:	Not Reported
Q00937 potass mgl:	Not Reported	Q01080 flag:	Not Reported
Q01080 strontium:	Not Reported	Q00445 carb mgl:	0
Q00440 bicarb mgl:	256	Q00945 flag:	Not Reported
Q00945 sulfate mgl:	13	Q00940 flag:	Not Reported
Q00940 chloride mg:	27	Q00951 flag:	Not Reported
Q00951 fluoride mg:	Not Reported	Q71850 flag:	Not Reported
Q71850 nitrate mgl:	Not Reported	Q00403 flag:	Not Reported
Q00403 ph:	7.5	Q70300 tds:	290
Q00415 flag:	Not Reported	Q00415 phen alk:	0
Q00410 flag:	Not Reported	Q00410 total alk:	209.78
Q00900 tot hardnes:	134	Q00932 percent na:	48
Q00931 sar:	2.18	Q71860 rsc:	1.51
Q00095 flag:	Not Reported	Q00095 spec cond:	Not Reported
Date entered:	Not Reported	User name:	pnordstr
Bu value:	Not Reported		

G20
WSW
1/2 - 1 Mile
Lower

TX WELLS **TXFB10000000332**

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	131	Aggln:	127
Owner:	NRG Texas Power, LLC		
Attn:	C. E. Burch		
Corr:	W. A. Parish Electric Generating Station	Address:	P. O. Box 98
City:	Thompsons	State:	TX
Zip:	77481	Zipex:	Not Reported
Latd:	29		
Latm:	28		
Lats:	28		
Lond:	95		
Lonm:	38		

Lons:	37		
Stblk:	65		
Stquad:	35		
Stni:	3		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	446		
Totd:	851		
Diam:	24		
Alloc:	1090		
Active:	-1		
Agg2008:	7		
Pump2008:	787086000		
Agg2007:	7		
Pump2007:	863016000		
Agg2006:	7		
Pump2006:	861193000		
Agg2005:	7		
Pump2005:	795729000		
Agg2004:	7		
Pump2004:	947784000		
Agg2003:	7		
Pump2003:	727211000		
Agg2002:	7		
Pump2002:	693247000		
Agg2001:	7		
Pump2001:	759715000		
Agg2000:	7		
Pump2000:	893782000		
Agg1999:	7		
Pump1999:	852061000		
Agg1998:	7		
Pump1998:	651241000		
Agg1997:	7		
Pump1997:	772988000		
Agg1996:	7		
Pump1996:	857447000		
Agg1995:	7		
Pump1995:	913560000		
Agg1994:	7		
Pump1994:	938784000		
Agg1993:	7		
Pump1993:	715643000		
Agg1992:	7		
Pump1992:	735286000		
Agg1991:	7		
Pump1991:	732925000		
Agg1990:	7		
Pump1990:	950884300		

H21
NNE
1/2 - 1 Mile
Lower

TX WELLS **TXFB10000000068**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	127	Aggln:	127
Owner:	NRG Texas Power, LLC		
Attn:	C. E. Burch		
Corr:	W. A. Parish Electric Generating Station	Address:	P. O. Box 98
City:	Thompsons	State:	TX
Zip:	77481	Zipex:	Not Reported
Latd:	29		
Latm:	29		
Lats:	7		
Lond:	95		
Lonm:	37		
Lons:	52		
Stblk:	65		
Stquad:	35		
Stni:	3		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	540		
Totd:	702		
Diam:	18		
Alloc:	1090		
Active:	-1		
Agg2008:	7		
Pump2008:	787086000		
Agg2007:	7		
Pump2007:	863016000		
Agg2006:	7		
Pump2006:	861193000		
Agg2005:	7		
Pump2005:	795729000		
Agg2004:	7		
Pump2004:	947784000		
Agg2003:	7		
Pump2003:	727211000		
Agg2002:	7		
Pump2002:	693247000		
Agg2001:	7		
Pump2001:	759715000		
Agg2000:	7		
Pump2000:	893782000		
Agg1999:	7		
Pump1999:	852061000		
Agg1998:	7		
Pump1998:	651241000		
Agg1997:	7		
Pump1997:	772988000		
Agg1996:	7		
Pump1996:	857447000		
Agg1995:	7		
Pump1995:	913560000		
Agg1994:	7		
Pump1994:	938784000		
Agg1993:	7		
Pump1993:	715643000		
Agg1992:	7		
Pump1992:	735286000		
Agg1991:	7		
Pump1991:	732925000		
Agg1990:	7		
Pump1990:	950884300		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G22
WSW
1/2 - 1 Mile
Higher | **TX WELLS** | **TXEQ20000002699**

Source Agency:	Texas Commission on Environmental Quality		
Pws id:	0790100	Water sour:	G0790100B
Fips count:	157	Quadrangle:	2995-243
Latitude:	292827.53125		
Longitude:	953837.25		
Location a:	Not Reported	Agency:	TCEQ
Location m:	GPS-S	Horizontal:	83
Spatial re:	T	Horizont 1:	I
Horizont 2:	S	Elevation:	68
Elevation :	D	Vertical d:	29
Location d:	09/25/2006	Elevation1:	04/24/2008
Elevatio 1:	TCEQ	Elevatio 2:	G
Latdd:	29.4743099213		
Longdd:	-95.6436767578		
Gps certif:	97101008	Need bette:	No
Last chang:	04/26/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Well depth:	851	Depth agency:	DRILL
Depth source:	D	Aquifer:	112CHCT
Aquifer id:	31		
Aquifer name:	CHICOT		
Aquifer method:	S	Aquifer type:	1
Drill date:	19751215	Last change:	12/15/2004
Initials:	KDM		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Fips county code:	157	Quadrangle number:	2995-243
Latitude:	292827.53125		
Longitude:	953837.25		
Location accuracy:	Not Reported	Agency:	TCEQ
Location method:	GPS-S	Horizontal datum:	83
Spatial reference code:	T	Horizontal accuracy:	I
Horizontal reference:	S	Elevation:	68
Elevation method:	D	Vertical datum:	29
Location date:	Not Reported	Elevation date:	04/24/2008
Elevation agency:	TCEQ	Elevation accuracy:	G
Latdd:	29.4743099212646		
Longdd:	95.6436767578125		
Gps certification number:	97101008	Need better location:	No
Last change:	04/26/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	1	Well interval:	ANNULAR CEMENT
Top depth:	0	Bottom depth:	436
Depth positive:	Not Reported	Diameter:	0
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	GLR	Last change:	02/24/2003

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100B
Record number:	2	Well interval:	CASING
Top depth:	2	Bottom depth:	446
Depth positive:	+	Diameter:	24
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	3	Well interval:	CASING
Top depth:	346	Bottom depth:	446
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	4	Well interval:	OPENING INTERVAL
Top depth:	446	Bottom depth:	482
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	S
Opening material:	R	Opening length:	36
Opening method:	1	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	5	Well interval:	CASING
Top depth:	482	Bottom depth:	490
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	6	Well interval:	WELL OPENINGS
Top depth:	490	Bottom depth:	500
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	7	Well interval:	CASING
Top depth:	500	Bottom depth:	516
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100B
Record number:	8	Well interval:	WELL OPENINGS
Top depth:	516	Bottom depth:	562
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	46
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	9	Well interval:	CASING
Top depth:	562	Bottom depth:	584
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	10	Well interval:	WELL OPENINGS
Top depth:	584	Bottom depth:	594
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	11	Well interval:	CASING
Top depth:	594	Bottom depth:	622
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	12	Well interval:	WELL OPENINGS
Top depth:	622	Bottom depth:	632
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	13	Well interval:	CASING
Top depth:	632	Bottom depth:	646
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100B
Record number:	14	Well interval:	WELL OPENINGS
Top depth:	646	Bottom depth:	690
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	44
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	15	Well interval:	CASING
Top depth:	690	Bottom depth:	712
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	16	Well interval:	WELL OPENINGS
Top depth:	712	Bottom depth:	732
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	20
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	17	Well interval:	CASING
Top depth:	732	Bottom depth:	754
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	18	Well interval:	WELL OPENINGS
Top depth:	754	Bottom depth:	772
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	18
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	19	Well interval:	CASING
Top depth:	772	Bottom depth:	786
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100B
Record number:	20	Well interval:	WELL OPENINGS
Top depth:	786	Bottom depth:	796
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	21	Well interval:	CASING
Top depth:	796	Bottom depth:	804
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	22	Well interval:	WELL OPENINGS
Top depth:	804	Bottom depth:	814
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	23	Well interval:	CASING
Top depth:	814	Bottom depth:	822
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	24	Well interval:	WELL OPENINGS
Top depth:	822	Bottom depth:	832
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	25	Well interval:	CASING
Top depth:	832	Bottom depth:	851
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100B
Record number:	26	Well interval:	ANNULAR GRAVEL PACK
Top depth:	436	Bottom depth:	851
Depth positive:	Not Reported	Diameter:	34
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100B
Record number:	1	Top depth:	0
Bottom depth:	10	Thickness:	10
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	2	Top depth:	10
Bottom depth:	30	Thickness:	20
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	3	Top depth:	30
Bottom depth:	36	Thickness:	6
Geologic description:	SAND AND ROCK		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	4	Top depth:	36
Bottom depth:	69	Thickness:	33
Geologic description:	clay & sandy rock		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	5	Top depth:	69
Bottom depth:	97	Thickness:	28
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100B
Record number:	6	Top depth:	97
Bottom depth:	112	Thickness:	15
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	7	Top depth:	112
Bottom depth:	118	Thickness:	6
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	8	Top depth:	118
Bottom depth:	166	Thickness:	48
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	9	Top depth:	166
Bottom depth:	185	Thickness:	19
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	10	Top depth:	185
Bottom depth:	193	Thickness:	8
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	11	Top depth:	193
Bottom depth:	206	Thickness:	13
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	12	Top depth:	206
Bottom depth:	226	Thickness:	20
Geologic description:	sand & shale strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	13	Top depth:	226
Bottom depth:	290	Thickness:	64
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	14	Top depth:	290
Bottom depth:	309	Thickness:	19
Geologic description:	SAND AND SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	15	Top depth:	309
Bottom depth:	327	Thickness:	18
Geologic description:	SHALE AND SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	16	Top depth:	327
Bottom depth:	351	Thickness:	24
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	17	Top depth:	351
Bottom depth:	371	Thickness:	20
Geologic description:	SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

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Pws id:	0790100	Water source:	G0790100B
Record number:	18	Top depth:	371
Bottom depth:	431	Thickness:	60
Geologic description:	sand & shale strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	19	Top depth:	431
Bottom depth:	433	Thickness:	2
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	20	Top depth:	433
Bottom depth:	505	Thickness:	72
Geologic description:	SAND AND SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	21	Top depth:	505
Bottom depth:	514	Thickness:	9
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	22	Top depth:	514
Bottom depth:	563	Thickness:	49
Geologic description:	sand & shale strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	23	Top depth:	563
Bottom depth:	579	Thickness:	16
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100B
Record number:	24	Top depth:	579
Bottom depth:	593	Thickness:	14
Geologic description:	SAND AND SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	25	Top depth:	593
Bottom depth:	615	Thickness:	22
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	26	Top depth:	615
Bottom depth:	642	Thickness:	27
Geologic description:	SAND AND SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	27	Top depth:	642
Bottom depth:	665	Thickness:	23
Geologic description:	SAND AND SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	28	Top depth:	665
Bottom depth:	672	Thickness:	7
Geologic description:	sandy shale & sand strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	29	Top depth:	672
Bottom depth:	688	Thickness:	16
Geologic description:	sand & shale strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

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Pws id:	0790100	Water source:	G0790100B
Record number:	30	Top depth:	688
Bottom depth:	708	Thickness:	20
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	31	Top depth:	708
Bottom depth:	729	Thickness:	21
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	32	Top depth:	729
Bottom depth:	750	Thickness:	21
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	33	Top depth:	750
Bottom depth:	769	Thickness:	19
Geologic description:	sand & shale brks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	34	Top depth:	769
Bottom depth:	785	Thickness:	16
Geologic description:	shale		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	35	Top depth:	785
Bottom depth:	794	Thickness:	9
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	36	Top depth:	794
Bottom depth:	801	Thickness:	7
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	37	Top depth:	801
Bottom depth:	811	Thickness:	10
Geologic description:	sand & hard strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	38	Top depth:	811
Bottom depth:	829	Thickness:	18
Geologic description:	SAND AND SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100B
Record number:	39	Top depth:	829
Bottom depth:	851	Thickness:	22
Geologic description:	shale & sand strks		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	KDM
Last change:	12/15/2004		
Remarks:	Not Reported		

H23
NNE
1/2 - 1 Mile
Lower

TX WELLS **TXEQ20000002740**

Source Agency:	Texas Commission on Environmental Quality		
Pws id:	0790140	Water sour:	G0790140A
Fips count:	157	Quadrangle:	2995-243
Latitude:	292907		
Longitude:	953751.4375		
Location a:	Not Reported	Agency:	TCEQ
Location m:	GPS-S	Horizontal:	83
Spatial re:	T	Horizont 1:	I
Horizont 2:	S	Elevation:	70
Elevation :	D	Vertical d:	29
Location d:	01/23/2007	Elevation1:	04/24/2008
Elevatio 1:	TCEQ	Elevatio 2:	G
Latdd:	29.4852790833		
Longdd:	-95.6309509277		
Gps certif:	97101008	Need bette:	Not Reported
Last chang:	05/07/2004	Initials:	DPT
Remarks:	Not Reported		

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Pws id:	0790140	Water source:	G0790140A
Well depth:	702	Depth agency:	DRILL
Depth source:	D	Aquifer:	112CHCT
Aquifer id:	31		
Aquifer name:	CHICOT		
Aquifer method:	S	Aquifer type:	1
Drill date:	19560319	Last change:	02/28/2003
Initials:	JSA		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Fips county code:	157	Quadrangle number:	2995-243
Latitude:	292907		
Longitude:	953751.4375		
Location accuracy:	Not Reported	Agency:	TCEQ
Location method:	GPS-S	Horizontal datum:	83
Spatial reference code:	T	Horizontal accuracy:	I
Horizontal reference:	S	Elevation:	70
Elevation method:	D	Vertical datum:	29
Location date:	Not Reported	Elevation date:	04/24/2008
Elevation agency:	TCEQ	Elevation accuracy:	G
Latdd:	29.485279083252		
Longdd:	95.6309509277344		
Gps certification number:	97101008	Need better location:	Not Reported
Last change:	05/07/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19560400	Depth from land surface:	-54.0
Agency:	DRILL	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19720804	Depth from land surface:	-100.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19730105	Depth from land surface:	-96.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19730706	Depth from land surface:	-93.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19740104	Depth from land surface:	-97.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19740614	Depth from land surface:	-96.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19741216	Depth from land surface:	-91.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19750808	Depth from land surface:	-97.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19751205	Depth from land surface:	-99.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19770107	Depth from land surface:	-102.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19770218	Depth from land surface:	-103.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19770317	Depth from land surface:	-103.5
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19770422	Depth from land surface:	-100.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19770520	Depth from land surface:	-100.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19770617	Depth from land surface:	-103.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19770708	Depth from land surface:	-105.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19770805	Depth from land surface:	-108.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19770909	Depth from land surface:	-108.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19771007	Depth from land surface:	-108.5
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19771209	Depth from land surface:	-108.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19780106	Depth from land surface:	-108.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19780303	Depth from land surface:	-107.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19780512	Depth from land surface:	-108.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19780728	Depth from land surface:	-112.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19780818	Depth from land surface:	-113.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19780922	Depth from land surface:	-114.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19781006	Depth from land surface:	-114.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19790108	Depth from land surface:	-114.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19800118	Depth from land surface:	-113.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19801000	Depth from land surface:	-120.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19810206	Depth from land surface:	-119.0
Agency:	DRILL	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19810320	Depth from land surface:	-119.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19810515	Depth from land surface:	-118.0
Agency:	USGS	Measuring method:	S
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19810617	Depth from land surface:	-120.0
Agency:	USGS	Measuring method:	S
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19810821	Depth from land surface:	-123.0
Agency:	USGS	Measuring method:	S
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19810918	Depth from land surface:	-125.0
Agency:	USGS	Measuring method:	S
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19811009	Depth from land surface:	-123.0
Agency:	USGS	Measuring method:	S
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19820212	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	S
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19820302	Depth from land surface:	-122.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19820514	Depth from land surface:	-118.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19820702	Depth from land surface:	-124.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19820806	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19820903	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19821008	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19821105	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19830107	Depth from land surface:	-129.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19830211	Depth from land surface:	-126.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19830311	Depth from land surface:	-125.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19830415	Depth from land surface:	-124.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19830527	Depth from land surface:	-123.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19830624	Depth from land surface:	-127.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19830708	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19830909	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19831014	Depth from land surface:	-126.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19831104	Depth from land surface:	-127.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19831221	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19840210	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19840316	Depth from land surface:	-126.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19840406	Depth from land surface:	-125.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19840518	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19840608	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19840713	Depth from land surface:	-132.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19840907	Depth from land surface:	-133.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19841005	Depth from land surface:	-131.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19841109	Depth from land surface:	-129.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19841207	Depth from land surface:	-133.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19850111	Depth from land surface:	-130.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19850208	Depth from land surface:	-132.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19850315	Depth from land surface:	-133.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19850426	Depth from land surface:	-130.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19850517	Depth from land surface:	-127.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19850621	Depth from land surface:	-130.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19850712	Depth from land surface:	-131.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19850816	Depth from land surface:	-131.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19850913	Depth from land surface:	-126.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19851011	Depth from land surface:	-134.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19851108	Depth from land surface:	-133.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19851220	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19860110	Depth from land surface:	-132.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19860221	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19860411	Depth from land surface:	-130.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19860613	Depth from land surface:	-132.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19860711	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19860808	Depth from land surface:	-132.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19860905	Depth from land surface:	-133.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19861114	Depth from land surface:	-129.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19861212	Depth from land surface:	-127.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19870109	Depth from land surface:	-128.0
Agency:	USGS	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19880122	Depth from land surface:	-130.0
Agency:	USGS	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19890106	Depth from land surface:	-132.0
Agency:	USGS	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19900129	Depth from land surface:	-127.0
Agency:	USGS	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19910125	Depth from land surface:	-132.0
Agency:	USGS	Measuring method:	S
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19911206	Depth from land surface:	-125.0
Agency:	USGS	Measuring method:	S
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19930108	Depth from land surface:	-124.0
Agency:	USGS	Measuring method:	A
Remarks:	Not Reported		

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Pws id:	0790140	Water source:	G0790140A
Date:	19940113	Depth from land surface:	-126.0
Agency:	USGS	Measuring method:	S
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19950126	Depth from land surface:	-125.0
Agency:	USGS	Measuring method:	A
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19951213	Depth from land surface:	-12.6
Agency:	USGS	Measuring method:	S
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Date:	19970115	Depth from land surface:	-126.0
Agency:	USGS	Measuring method:	T
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	1	Well interval:	ANNULAR CEMENT
Top depth:	0	Bottom depth:	530
Depth positive:	Not Reported	Diameter:	0
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140A
Record number:	2	Well interval:	CASING
Top depth:	0	Bottom depth:	300
Depth positive:	Not Reported	Diameter:	18
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140A
Record number:	3	Well interval:	CASING
Top depth:	300	Bottom depth:	530
Depth positive:	Not Reported	Diameter:	10.75
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140A
Record number:	4	Well interval:	CASING
Top depth:	430	Bottom depth:	540
Depth positive:	Not Reported	Diameter:	6.67500019073486
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

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Pws id:	0790140	Water source:	G0790140A
Record number:	5	Well interval:	WELL OPENINGS
Top depth:	540	Bottom depth:	580
Depth positive:	Not Reported	Diameter:	6.67500019073486
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	40
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140A
Record number:	6	Well interval:	CASING
Top depth:	580	Bottom depth:	650
Depth positive:	Not Reported	Diameter:	6.67500019073486
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140A
Record number:	7	Well interval:	WELL OPENINGS
Top depth:	650	Bottom depth:	690
Depth positive:	Not Reported	Diameter:	6.67500019073486
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	40
Opening method:	8	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140A
Record number:	8	Well interval:	CASING
Top depth:	690	Bottom depth:	702
Depth positive:	Not Reported	Diameter:	6.67500019073486
Opening type:	Not Reported	Casing material:	U
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	02/28/2003

Pws id:	0790140	Water source:	G0790140A
Record number:	9	Well interval:	ANNULAR GRAVEL PACK
Top depth:	530	Bottom depth:	702
Depth positive:	Not Reported	Diameter:	24
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	JSA	Last change:	10/10/2006

Pws id:	0790140	Water source:	G0790140A
Record number:	1	Top depth:	0
Bottom depth:	12	Thickness:	12
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

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Pws id:	0790140	Water source:	G0790140A
Record number:	2	Top depth:	12
Bottom depth:	33	Thickness:	21
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	3	Top depth:	33
Bottom depth:	37	Thickness:	4
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	4	Top depth:	37
Bottom depth:	48	Thickness:	11
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	5	Top depth:	48
Bottom depth:	62	Thickness:	14
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	6	Top depth:	62
Bottom depth:	72	Thickness:	10
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	7	Top depth:	72
Bottom depth:	77	Thickness:	5
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

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Pws id:	0790140	Water source:	G0790140A
Record number:	8	Top depth:	77
Bottom depth:	111	Thickness:	34
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	9	Top depth:	111
Bottom depth:	112	Thickness:	1
Geologic description:	ROCK		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	10	Top depth:	112
Bottom depth:	130	Thickness:	18
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	11	Top depth:	130
Bottom depth:	151	Thickness:	21
Geologic description:	SAND & ROCK LAYERS		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	12	Top depth:	151
Bottom depth:	154	Thickness:	3
Geologic description:	ROCK		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	13	Top depth:	154
Bottom depth:	181	Thickness:	27
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

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Pws id:	0790140	Water source:	G0790140A
Record number:	14	Top depth:	181
Bottom depth:	208	Thickness:	27
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	15	Top depth:	208
Bottom depth:	210	Thickness:	2
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	16	Top depth:	210
Bottom depth:	212	Thickness:	2
Geologic description:	ROCK		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	17	Top depth:	212
Bottom depth:	220	Thickness:	8
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	18	Top depth:	220
Bottom depth:	254	Thickness:	34
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	19	Top depth:	254
Bottom depth:	274	Thickness:	20
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

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Pws id:	0790140	Water source:	G0790140A
Record number:	20	Top depth:	274
Bottom depth:	291	Thickness:	17
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	21	Top depth:	291
Bottom depth:	311	Thickness:	20
Geologic description:	SHALE & SAND LAYERS		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	22	Top depth:	311
Bottom depth:	367	Thickness:	56
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	23	Top depth:	367
Bottom depth:	368	Thickness:	1
Geologic description:	ROCK		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	24	Top depth:	368
Bottom depth:	411	Thickness:	43
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	25	Top depth:	411
Bottom depth:	413	Thickness:	2
Geologic description:	ROCK		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140A
Record number:	26	Top depth:	413
Bottom depth:	419	Thickness:	6
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	27	Top depth:	419
Bottom depth:	433	Thickness:	14
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	28	Top depth:	433
Bottom depth:	460	Thickness:	27
Geologic description:	SAND & SHALE LAYERS		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	29	Top depth:	460
Bottom depth:	470	Thickness:	10
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	30	Top depth:	470
Bottom depth:	600	Thickness:	130
Geologic description:	SAND & SHALE STRKS		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	31	Top depth:	600
Bottom depth:	618	Thickness:	18
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140A
Record number:	32	Top depth:	618
Bottom depth:	626	Thickness:	8
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	33	Top depth:	626
Bottom depth:	655	Thickness:	29
Geologic description:	SHALE & SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	34	Top depth:	655
Bottom depth:	687	Thickness:	32
Geologic description:	SAND & STRKS OF SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	35	Top depth:	687
Bottom depth:	708	Thickness:	21
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	36	Top depth:	708
Bottom depth:	752	Thickness:	44
Geologic description:	SHALE & STRKS OF SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	37	Top depth:	752
Bottom depth:	782	Thickness:	30
Geologic description:	SAND & STRKS OF SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140A
Record number:	38	Top depth:	782
Bottom depth:	806	Thickness:	24
Geologic description:	HARD SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	39	Top depth:	806
Bottom depth:	828	Thickness:	22
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	40	Top depth:	828
Bottom depth:	847	Thickness:	19
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	41	Top depth:	847
Bottom depth:	866	Thickness:	19
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	42	Top depth:	866
Bottom depth:	936	Thickness:	70
Geologic description:	SAND & SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	43	Top depth:	936
Bottom depth:	951	Thickness:	15
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140A
Record number:	44	Top depth:	951
Bottom depth:	971	Thickness:	20
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	45	Top depth:	971
Bottom depth:	982	Thickness:	11
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	46	Top depth:	982
Bottom depth:	1005	Thickness:	23
Geologic description:	SHALE & STRKS OF SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	47	Top depth:	1005
Bottom depth:	1041	Thickness:	36
Geologic description:	SAND & STRKS OF SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	48	Top depth:	1041
Bottom depth:	1046	Thickness:	5
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	49	Top depth:	1046
Bottom depth:	1100	Thickness:	54
Geologic description:	SAND & STRKS OF SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790140	Water source:	G0790140A
Record number:	50	Top depth:	1100
Bottom depth:	1108	Thickness:	8
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	51	Top depth:	1108
Bottom depth:	1135	Thickness:	27
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	52	Top depth:	1135
Bottom depth:	1210	Thickness:	75
Geologic description:	SANDY SHALE & SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	53	Top depth:	1210
Bottom depth:	1244	Thickness:	34
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	54	Top depth:	1244
Bottom depth:	1271	Thickness:	27
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	55	Top depth:	1271
Bottom depth:	1289	Thickness:	18
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	56	Top depth:	1289
Bottom depth:	1360	Thickness:	71
Geologic description:	SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	57	Top depth:	1360
Bottom depth:	1379	Thickness:	19
Geologic description:	SAND & SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	58	Top depth:	1379
Bottom depth:	1404	Thickness:	25
Geologic description:	SANDY SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	59	Top depth:	1404
Bottom depth:	1413	Thickness:	9
Geologic description:	SAND & SHALE LAYERS		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140A
Record number:	60	Top depth:	1413
Bottom depth:	1503	Thickness:	Not Reported
Geologic description:	SANDY SHALE & SHALE		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	JSA
Last change:	10/09/2002		
Remarks:	Not Reported		

H24
NNE **TX WELLS** **TXEQ20000002741**
1/2 - 1 Mile
Lower

Source Agency:	Texas Commission on Environmental Quality		
Pws id:	0790140	Water sour:	G0790140D
Fips count:	157	Quadrangle:	2995-243
Latitude:	292907		
Longitude:	953751.4375		
Location a:	Not Reported	Agency:	TCEQ
Location m:	GPS-S	Horizontal:	83
Spatial re:	T	Horizont 1:	I
Horizont 2:	S	Elevation:	69
Elevation :	E	Vertical d:	29
Location d:	01/23/2007	Elevation1:	05/21/2003

Elevatio 1:	TCEQ	Elevatio 2:	Not Reported
Latdd:	29.4852790833		
Longdd:	-95.6309509277		
Gps certif:	97101008	Need bette:	Not Reported
Last chang:	05/07/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140D
Well depth:	Not Reported	Depth agency:	Not Reported
Depth source:	Not Reported	Aquifer:	Not Reported
Aquifer id:	Not Reported		
Aquifer name:	Not Reported		
Aquifer method:	Not Reported	Aquifer type:	Not Reported
Drill date:	99999999	Last change:	Not Reported
Initials:	Not Reported		
Remarks:	Not Reported		

Pws id:	0790140	Water source:	G0790140D
Fips county code:	157	Quadrangle number:	2995-243
Latitude:	292907		
Longitude:	953751.4375		
Location accuracy:	Not Reported	Agency:	TCEQ
Location method:	GPS-S	Horizontal datum:	83
Spatial reference code:	T	Horizontal accuracy:	I
Horizontal reference:	S	Elevation:	69
Elevation method:	E	Vertical datum:	29
Location date:	Not Reported	Elevation date:	05/21/2003
Elevation agency:	TCEQ	Elevation accuracy:	Not Reported
Latdd:	29.485279083252		
Longdd:	95.6309509277344		
Gps certification number:	97101008	Need better location:	Not Reported
Last change:	05/07/2004	Initials:	DPT
Remarks:	Not Reported		

25
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXFB10000000077**

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	120	Aggln:	120
Owner:	CenterPoint Energy Houston Electric, LLC		
Attn:	Douglas R Harris		
Corr:	Supervising Engineer-Environmental	Address:	P. O. Box 1700
City:	Houston	State:	TX
Zip:	77251	Zipex:	Not Reported
Latd:	29		
Latm:	28		
Lats:	54		
Lond:	95		
Lonm:	37		
Lons:	32		
Stblk:	65		
Stquad:	36		
Stni:	1		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	210		
Totd:	230		
Diam:	4		

Alloc:	1
Active:	-1
Agg2008:	1
Pump2008:	42000
Agg2007:	1
Pump2007:	42000
Agg2006:	1
Pump2006:	42000
Agg2005:	1
Pump2005:	42000
Agg2004:	1
Pump2004:	42000
Agg2003:	1
Pump2003:	42000
Agg2002:	1
Pump2002:	42000
Agg2001:	1
Pump2001:	42000
Agg2000:	1
Pump2000:	42000
Agg1999:	1
Pump1999:	42000
Agg1998:	1
Pump1998:	42000
Agg1997:	1
Pump1997:	42000
Agg1996:	1
Pump1996:	42000
Agg1995:	1
Pump1995:	42000
Agg1994:	1
Pump1994:	42000
Agg1993:	1
Pump1993:	42000
Agg1992:	1
Pump1992:	42000
Agg1991:	1
Pump1991:	42000
Agg1990:	1
Pump1990:	42000

I26
SW
1/2 - 1 Mile
Lower

TX WELLS **TXD1006374**

Source Agency:	Department of Licensing and Regulation		
Rec id:	15158		
Owner:	Sun Ranch	Owner well #:	Log 26381
Owner Address:	Lockwood Road	City state zip:	Thompsons ,TX
Grid:	65-35-3		
Well address:	Lockwood Road		
Well city state:	Thompsons ,TX	Latitude:	29° 28 14N
Well county:	Fort Bend	Longitude:	095° 38 35 W
Elevation:	No Data	Gps brand:	map

Type of work:	New Well	Use:	Public Supply; Plans Not Approved by TCEQ
Spud date:	3/20/2003	Completed date:	3/31/2003
Diameter:	9 in From Surface To 400 ft		
Drilling method:	Mud Rotary		
Borehole Completed:	Straight Wall		
Gravel Packed from:	Not Reported		
Pack size:	Not Reported		
1st interval:	From 395 ft to 0 ft with 53 (#sacks and material)		
2nd interval:	No Data		
3rd interval:	No Data		
Cement method:	Pressure	Cemented by:	ODCI
Distance to septic:	No Data	Dist. to property line:	No Data
Verify method:	No Data	Variance:	No Data
Surface completion:	Surface Slab Installed	Static level:	110 ft. below land surface on6/30/2003
Flow:	No Data		
Packers:	B P Seal	383	
Cement left in well:	No Data	Pump type:	Submersible
Pumpbowl depth:	210 ft	Well tests:	Pump
Yield:	88 GPM with 86 ft drawdown after 36 hours		
Water quality:	No Data		
Strata depth:	26 ft.		
Chem. analysis:	Yes	Undesirable:	No

Certification: The driller certified that the driller drilled this well (or the well was drilled under the drillers direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required

Company name:	ODay Drilling Company, Inc.		
Company address:	2357 Garden Road		
City state:	Pearland , TX 77581	Driller license #:	4884
Driller Signature:	Rogelio Meza	Apprentice signature:	No Data
Apprentice Reg. #:	No Data		

Comments: $dfs

Description: 0 3 Top Soil3 83 Clay83 102 Sand102 154 Clay154 174 Sand174 219 Clay219 248 Sand248 278 Clay278 296 Sand296 398 Clay398 424 Sand

Setting: 5 New PVC Casing 0 395 SDR173 New Galvanized Liner 383 404 WW3 New S/S Pipe Base Scrn 404 424 08

Old id : 548

I27
SW
1/2 - 1 Mile
Lower

TX WELLS **TXMON1000023511**

Source Agency:	Texas Water Development Board		
Trackno:	54419	Dateentere:	03/08/2005
Ownname:	Sun Ranch		
Ownstreet:	Lockwood Road		
Owncity:	Thompsons	Ownstate:	TX
Ownzip:	Not Reported	County:	Fort Bend
Wellstreet:	Lockwood Road		
Wellcity:	Thompsons	Wellzip:	Not Reported
Own:	Log 26381	Latitude:	292814
Lat dec:	29.470554		
Longitude:	953835		

Long dec:	-95.643055		
Elev:	0	Brandmodel:	map
Gn:	65353	Gn1:	65
Gn75:	35	Gn25:	3
Twn:	1	Twd:	0
Twr:	0	Twrp:	0
Twrg:	0	Um:	0
Ue:	0	Ud:	0
Uin:	0	Uir:	0
Ug:	0	Uij:	0
Up:	1	Udw:	0
Ut:	0	Us:	0
Pby:	0	Pbn:	1
Datestart:	03/20/2003	Datecomp:	03/31/2003
Dia1:	9	Dia1to:	400
Dia2:	6.5	Dia2from:	400
Dia2to:	424	Dia3:	Not Reported
Dia3from:	Not Reported	Dia3to:	Not Reported
Lith log:	0 3 Top Soil 3 83 Clay 83 102 Sand 102 154 Clay 154 174 Sand 174 219 Clay 219 248 Sand 248 278 Clay 278 296 Sand 296 398 Clay 398 424 Sand		
Dmdriven:	0	Dmairrotar:	0
Dmmudrotar:	1	Dmbored:	0
Dmairham:	0	Dmcabletoo:	0
Dmjetted:	0	Dmhollowst:	0
Dmrevcirc:	0	Dmotherck:	0
Dmother:	Not Reported	Bco:	0
Bcs:	1	Bcg:	0
Bcgs:	Not Reported	Bcu:	0
Bcoc:	0	Bcot:	Not Reported
Gpf:	Not Reported	Gpt:	Not Reported
Case Screen:	5 New PVC Casing 0 395 SDR17 3 New Galvanized Liner 383 404 WW 3 New S/S Pipe Base Scrn 404 424 08		
Cemfrom1:	395	Cemto1:	0
Nosacks1:	53	Cemfrom2:	Not Reported
Cemto2:	Not Reported	Nosacks2:	Not Reported
Cemfrom3:	Not Reported	Cemto3:	Not Reported
Nosacks3:	Not Reported	Cementmeth:	Pressure
Cementby:	ODCI	Ds:	Not Reported
Dpl:	Not Reported	Dsv:	Not Reported
Appvar:	Not Reported	Scs:	1
Scsv:	0	Scp:	0
Sca:	0	Watlev:	110
Watlevdate:	06/30/2003	Artflow:	Not Reported
Packers:	B P Seal	383'	
Wellplug48:	0		
Wptext:	Not Reported		
Tpturbine:	0	Tpjet:	0
Tpsubmersi:	1	Tpcylinder:	0
Tpotherck:	0	Tpother:	Not Reported
Pumpbowlde:	210	Wtpump:	1
Wtbailer:	0	Wtjetted:	0
Wtestimate:	0	Welltestyi:	88

Welltestdr:	86	Welltesthr:	36
Watqualund:	0	Watqualu 1:	1
Watertype:	Not Reported	Stratdepth:	26
Chemanaly:	1	Chemanaln:	0
Undnatural:	0	Untype:	Not Reported
Undhydro:	0	Undhaz:	0
Undotherck:	0		
Undother:	Not Reported		
Undcertify:	0	Compname:	O'Day Drilling Company, Inc.
Drllicno:	4884	Compstreet:	2357 Garden Road
Compcity:	Pearland	Compstate:	TX
Compzip:	77581	Drillernam:	Rogelio Meza
Traineenam:	Not Reported	Tnum:	Not Reported
Comments 1:	$dfs		

J28
WSW
1/2 - 1 Mile
Higher

TX WELLS **TXEQ20000002690**

Source Agency:	Texas Commission on Environmental Quality		
Pws id:	0790100	Water sour:	G0790100C
Fips count:	157	Quadrangle:	2995-243
Latitude:	292823.53125		
Longitude:	953847.125		
Location a:	Not Reported	Agency:	TCEQ
Location m:	GPS-S	Horizontal:	83
Spatial re:	T	Horizont 1:	I
Horizont 2:	S	Elevation:	70
Elevation :	D	Vertical d:	29
Location d:	09/25/2006	Elevation1:	04/24/2008
Elevatio 1:	TCEQ	Elevatio 2:	G
Latdd:	29.4731998444		
Longdd:	-95.6464233398		
Gps certif:	97101008	Need bette:	No
Last chang:	04/26/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100C
Well depth:	850	Depth agency:	DRILL
Depth source:	D	Aquifer:	112CHCT
Aquifer id:	31		
Aquifer name:	CHICOT		
Aquifer method:	S	Aquifer type:	1
Drill date:	19790615	Last change:	12/15/2004
Initials:	KDM		
Remarks:	No Geology		

Pws id:	0790100	Water source:	G0790100C
Fips county code:	157	Quadrangle number:	2995-243
Latitude:	292823.53125		
Longitude:	953847.125		
Location accuracy:	Not Reported	Agency:	TCEQ
Location method:	GPS-S	Horizontal datum:	83
Spatial reference code:	T	Horizontal accuracy:	I
Horizontal reference:	S	Elevation:	70
Elevation method:	D	Vertical datum:	29
Location date:	Not Reported	Elevation date:	04/24/2008

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elevation agency:	TCEQ	Elevation accuracy:	G
Latdd:	29.4731998443604		
Longdd:	95.6464233398438		
Gps certification number:	97101008	Need better location:	No
Last change:	04/26/2004	Initials:	DPT
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100C
Date:	19790607	Depth from land surface:	-115.0
Agency:	UNK	Measuring method:	R
Remarks:	Not Reported		

Pws id:	0790100	Water source:	G0790100C
Record number:	1	Well interval:	ANNULAR CEMENT
Top depth:	0	Bottom depth:	390
Depth positive:	Not Reported	Diameter:	0
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	GLR	Last change:	02/24/2003

Pws id:	0790100	Water source:	G0790100C
Record number:	2	Well interval:	CASING
Top depth:	3	Bottom depth:	390
Depth positive:	+	Diameter:	24
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	3	Well interval:	CASING
Top depth:	0	Bottom depth:	35
Depth positive:	Not Reported	Diameter:	30
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	4	Well interval:	CASING
Top depth:	310	Bottom depth:	400
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	5	Well interval:	OPENING INTERVAL
Top depth:	400	Bottom depth:	500
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	100
Opening method:	1	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100C
Record number:	6	Well interval:	CASING
Top depth:	500	Bottom depth:	520
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	7	Well interval:	WELL OPENINGS
Top depth:	520	Bottom depth:	530
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	8	Well interval:	CASING
Top depth:	530	Bottom depth:	540
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	9	Well interval:	WELL OPENINGS
Top depth:	540	Bottom depth:	560
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	20
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	10	Well interval:	CASING
Top depth:	560	Bottom depth:	585
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	11	Well interval:	WELL OPENINGS
Top depth:	585	Bottom depth:	600
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	15
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100C
Record number:	12	Well interval:	CASING
Top depth:	600	Bottom depth:	620
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	13	Well interval:	WELL OPENINGS
Top depth:	620	Bottom depth:	635
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	15
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	14	Well interval:	CASING
Top depth:	635	Bottom depth:	670
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	15	Well interval:	WELL OPENINGS
Top depth:	670	Bottom depth:	695
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	25
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	16	Well interval:	CASING
Top depth:	695	Bottom depth:	715
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	17	Well interval:	WELL OPENINGS
Top depth:	715	Bottom depth:	735
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	20
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790100	Water source:	G0790100C
Record number:	18	Well interval:	CASING
Top depth:	735	Bottom depth:	760
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	19	Well interval:	WELL OPENINGS
Top depth:	760	Bottom depth:	775
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	15
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	20	Well interval:	CASING
Top depth:	775	Bottom depth:	795
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	21	Well interval:	WELL OPENINGS
Top depth:	795	Bottom depth:	805
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	10
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	22	Well interval:	CASING
Top depth:	805	Bottom depth:	820
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	23	Well interval:	WELL OPENINGS
Top depth:	820	Bottom depth:	835
Depth positive:	Not Reported	Diameter:	14
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	15
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	24	Well interval:	CASING
Top depth:	835	Bottom depth:	850
Depth positive:	Not Reported	Diameter:	14
Opening type:	Not Reported	Casing material:	S
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

Pws id:	0790100	Water source:	G0790100C
Record number:	25	Well interval:	ANNULAR GRAVEL PACK
Top depth:	390	Bottom depth:	850
Depth positive:	Not Reported	Diameter:	34
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	KDM	Last change:	12/15/2004

J29
WSW **TX WELLS** **TXFB10000000300**
1/2 - 1 Mile
Higher

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	132	Aggln:	127
Owner:	NRG Texas Power, LLC		
Attn:	C. E. Burch		
Corr:	W. A. Parish Electric Generating Station	Address:	P. O. Box 98
City:	Thompsons	State:	TX
Zip:	77481	Zipex:	Not Reported
Latd:	29		
Latm:	28		
Lats:	23		
Lond:	95		
Lonm:	38		
Lons:	47		
Stblk:	65		
Stquad:	35		
Stni:	3		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	400		
Totd:	850		
Diam:	24		
Alloc:	1090		
Active:	-1		
Agg2008:	7		
Pump2008:	787086000		
Agg2007:	7		
Pump2007:	863016000		
Agg2006:	7		
Pump2006:	861193000		
Agg2005:	7		
Pump2005:	795729000		

Agg2004:	7
Pump2004:	947784000
Agg2003:	7
Pump2003:	727211000
Agg2002:	7
Pump2002:	693247000
Agg2001:	7
Pump2001:	759715000
Agg2000:	7
Pump2000:	893782000
Agg1999:	7
Pump1999:	852061000
Agg1998:	7
Pump1998:	651241000
Agg1997:	7
Pump1997:	772988000
Agg1996:	7
Pump1996:	857447000
Agg1995:	7
Pump1995:	913560000
Agg1994:	7
Pump1994:	938784000
Agg1993:	7
Pump1993:	715643000
Agg1992:	7
Pump1992:	735286000
Agg1991:	7
Pump1991:	732925000
Agg1990:	7
Pump1990:	950884300

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ENE **TX WELLS** **TXWDB3000021281**
1/2 - 1 Mile
Lower

Source Agency:	Texas Water Development Board		
State well:	6536103	County:	Fort Bend
Basin:	Brazos River	Gma:	14
Rwpa:	H	Districtid:	198914HX
Previous w:	Not Reported	Latitude:	292904
Lat dec:	29.484444		
Longitude:	953722		
Long dec:	-95.622777		
Owner 1:	Y.U. Jones Est	Owner 2:	Not Reported
Driller 1:	Gene Davis	Driller 2:	Not Reported
Coords Accuracy:	Not Reported		
Aquifer code:	CHICOT AQUIFER,UPPER		
Aquifer id #1:	Gulf Coast	Aquifer id #2:	0
Aquifer id #3:	0	Elev of LSD:	70
Elev mmt method:	interpolated form topo map		
User code :	0		
Date drill:	Not Reported	Well type:	withdrawal of water
Well depth:	209	Source of1:	Not Reported
Type of li:	none	Type of po:	Not Reported
Horsepower:	Not Reported	Primary Use:	unused
Second Use:	Not Reported	Tertia Use:	Not Reported
Water leve:	M	Water qual:	Y
Well logs :	Not Reported	Other data:	Not Reported

Date coll :	Not Reported	Reporting :	02
Well sched:	Y	Construct :	Not Reported
Completion:	Not Reported	Casing mat:	Not Reported
Screen mat:	Not Reported	Todays dat:	08/01/2006
User name:	banderso		

State well number:	6536103	Pn well visit mark:	P
Depth from lsd:	-40	Mm date:	0
Dd date:	0	Yy date:	1936
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6536103	Mm date:	4
Dd date:	4	Yydate:	1936
Sample number:	1	Sample time:	Not Reported
Temp centigrade:	Not Reported	Top s interval:	Not Reported
Bottom s interval:	Not Reported	Samp int aqcode:	Not Reported
Collection remarks:	Not Reported	Reliability rem:	Not Reported
Collecting agency:	Not Reported	Lab code:	Not Reported
Bu wqanalysis:	B	Q00955 flag:	Not Reported
Q00955 silica mgl:	Not Reported	Q00910 flag:	Not Reported
Q00910 calcium mgl:	56	Q00920 flag:	Not Reported
Q00920 magnes mgl:	12	Q00929 flag:	Not Reported
Q00929 sodium mgl:	41	Q00937 flag:	Not Reported
Q00937 potass mgl:	Not Reported	Q01080 flag:	Not Reported
Q01080 strontium:	Not Reported	Q00445 carb mgl:	0
Q00440 bicarb mgl:	275	Q00945 flag:	Not Reported
Q00945 sulfate mgl:	13	Q00940 flag:	Not Reported
Q00940 chloride mg:	26	Q00951 flag:	Not Reported
Q00951 fluoride mg:	Not Reported	Q71850 flag:	Not Reported
Q71850 nitrate mgl:	Not Reported	Q00403 flag:	Not Reported
Q00403 ph:	Not Reported	Q70300 tds:	283
Q00415 flag:	Not Reported	Q00415 phen alk:	0
Q00410 flag:	Not Reported	Q00410 total alk:	225.35
Q00900 tot hardnes:	189	Q00932 percent na:	32
Q00931 sar:	1.3	Q71860 rsc:	.73
Q00095 flag:	Not Reported	Q00095 spec cond:	Not Reported
Date entered:	Not Reported	User name:	pnordstr
Bu value:	Not Reported		

31
ENE
1/2 - 1 Mile
Lower

TX WELLS **TXPLU1000008108**

Source Agency:	Texas Water Development Board		
Plugtrackn:	14890	Dateentere:	01/15/2004
Ownname:	JETTA PRODUCTION CO.	Ownstreet:	777 TAYLOR ST.
Owncity:	FORT WORTH	Ownstate:	TX
Ownzip:	76102		
Wellstreet:	2 FM 2759		
Wellcity:	THOMPSONS	Wellzip:	Not Reported
County:	Fort Bend	Latitude:	292852
Lat dec:	29.48111		
Longitude:	953714		
Long dec:	-95.620554		

Brmod:	MAP	Gn:	65361
Gn1:	65	Gn75:	36
Gn25:	1	Ownwellno:	Not Reported
Typewater:	1	Typemon:	0
Typeinj:	0	Typedw:	0
Histdrille:	Not Reported	Histdrllic:	Not Reported
Histdatedr:	08/29/1985	Histtracki:	Not Reported
Histdiamin:	Not Reported	Histdepth:	Not Reported
Plugdate:	08/28/2003		
Plugmeth:	DG		
Plugopname:	PATRICK O'DAY	Plugoplic:	1827
Plugmeth1:	0	Plugmeth2:	0
Plugmeth3:	0	Plugmeth4:	1
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	2	Cfrom1:	0
Cto1:	90	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	90
Cbto1:	10	Cbsacks1:	2 GROUT
Cbfrom2:	10	Cbto2:	0
Cbsacks2:	1	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	O'DAY DRILLING	Compstreet:	2357 GARDEN
Compcity:	PEARLAND	Compstate:	TX
Compzip:	77581	Nameassig:	PAUL RHODES
Traineenam:	PAT O'DAY	Tnum:	Not Reported

K32
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS2652541**

Agency cd:	USGS	Site no:	292819095385501
Site name:	JY-65-35-307		
Latitude:	292819	EDR Site id:	USGS2652541
Longitude:	0953855	Dec lat:	29.4721838
Dec lon:	-95.64883599	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	48
State:	48	County:	157
Country:	US	Land net:	Not Reported
Location map:	Smithers Lake, TX	Map scale:	24000
Altitude:	70		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	2.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Brazos. Texas. Area = 1650 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19790426
Date inventoried:	19791012	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	CHICOT AQUIFER,LOWER		
Well depth:	850	Hole depth:	Not Reported
Source of depth data:	driller		
Project number:	4648-00250		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1979-06-07	Ground water data end date:	1979-06-07
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1979-06-07	115	

K33
WSW **TX WELLS** **TXWDB3000021085**
1/2 - 1 Mile
Higher

Source Agency:	Texas Water Development Board		
State well:	6535307	County:	Fort Bend
Basin:	Brazos River	Gma:	14
Rwpa:	H	Districtid:	198914HX
Previous w:	Not Reported	Latitude:	292820
Lat dec:	29.472221		
Longitude:	953856		
Long dec:	-95.648888		
Owner 1:	Houston Lighting and	Owner 2:	Power Co., Well 6
Driller 1:	Layne-Texas	Driller 2:	Not Reported
Coords Accuracy:	Not Reported		
Aquifer code:	112CHCT		
Aquifer id #1:	Gulf Coast	Aquifer id #2:	0
Aquifer id #3:	0	Elev of LSD:	70
Elev mmt method:	interpolated form topo map		
User code :	0		
Date drill:	1979	Well type:	withdrawal of water
Well depth:	850	Source of1:	Not Reported
Type of li:	turbine pump	Type of po:	electric motor
Horsepower:	Not Reported	Primary Use:	industrial
Second Use:	Not Reported	Tertia Use:	Not Reported
Water leve:	M	Water qual:	Y
Well logs :	Not Reported	Other data:	Not Reported
Date coll :	Not Reported	Reporting :	02
Well sched:	Y	Construct :	Not Reported
Completion:	Not Reported	Casing mat:	Not Reported
Screen mat:	Not Reported	Todays dat:	08/20/1996
User name:	Not Reported		

State well number:	6535307	Pn well visit mark:	P
Depth from lsd:	-115	Mm date:	6
Dd date:	7	Yy date:	1979
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535307	Mm date:	6
Dd date:	15	Yydate:	1979
Sample number:	1	Sample time:	Not Reported
Temp centigrade:	Not Reported	Top s interval:	Not Reported
Bottom s interval:	Not Reported	Samp int aqcode:	Not Reported
Collection remarks:	Not Reported	Reliability rem:	Not Reported
Collecting agency:	Not Reported	Lab code:	05
Bu wqanalysis:	B	Q00955 flag:	Not Reported
Q00955 silica mgl:	22	Q00910 flag:	Not Reported
Q00910 calcium mgl:	45	Q00920 flag:	Not Reported

Q00920 magnes mgl:	7	Q00929 flag:	Not Reported
Q00929 sodium mgl:	51	Q00937 flag:	Not Reported
Q00937 potass mgl:	Not Reported	Q01080 flag:	Not Reported
Q01080 strontium:	Not Reported	Q00445 carb mgl:	0
Q00440 bicarb mgl:	251	Q00945 flag:	Not Reported
Q00945 sulfate mgl:	12	Q00940 flag:	Not Reported
Q00940 chloride mg:	24	Q00951 flag:	Not Reported
Q00951 fluoride mg:	.4	Q71850 flag:	Not Reported
Q71850 nitrate mgl:	Not Reported	Q00403 flag:	Not Reported
Q00403 ph:	7.5	Q70300 tds:	284
Q00415 flag:	Not Reported	Q00415 phen alk:	0
Q00410 flag:	Not Reported	Q00410 total alk:	205.68
Q00900 tot hardnes:	141	Q00932 percent na:	44
Q00931 sar:	1.87	Q71860 rsc:	1.29
Q00095 flag:	Not Reported	Q00095 spec cond:	478
Date entered:	Not Reported	User name:	pnordstr
Bu value:	Not Reported		

State well number:	6535307	Group number:	1
Remarks 1:	255 ft of screen from 400 to 835		
Remarks 2:	ft. Reported yield 2030 gpm with		

State well number:	6535307	Group number:	2
Remarks 1:	40 ft drawdown drilled.		
Remarks 2:	Not Reported		

34
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS2652400**

Agency cd:	USGS	Site no:	292901095371601
Site name:	JY-65-36-103		
Latitude:	292901	EDR Site id:	USGS2652400
Longitude:	0953716	Dec lat:	29.48384988
Dec lon:	-95.62133533	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	48
State:	48	County:	157
Country:	US	Land net:	Not Reported
Location map:	Thompsons, TX	Map scale:	24000
Altitude:	70		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Brazos. Texas. Area = 1650 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	1900
Date inventoried:	19360404	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined single aquifer		
Aquifer:	CHICOT AQUIFER		
Well depth:	209	Hole depth:	209
Source of depth data:	other reported		
Project number:	4648-00250		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count: 0
Water quality data begin date: 0000-00-00
Water quality data end date: 0000-00-00
Water quality data count: 0
Ground water data begin date: 1900-00-00
Ground water data end date: 1936-00-00
Ground water data count: 2

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1936	40		1900	40	

35
SW
1/2 - 1 Mile
Lower

TX WELLS **TXPLU1000007999**

Source Agency:	Texas Water Development Board		
Plugtrackn:	12248	Dateentere:	05/29/2003
Ownname:	BASS ENTERPRISE	Ownstreet:	117 TURA
Owncity:	EL CAMPO	Ownstate:	TX
Ownzip:	77437		
Wellstreet:	FM 2759		
Wellcity:	THOMPSONS	Wellzip:	Not Reported
County:	Fort Bend	Latitude:	292802
Lat dec:	29.467221		
Longitude:	953844		
Long dec:	-95.645555		
Brmod:	MAP	Gn:	65353
Gn1:	65	Gn75:	35
Gn25:	3	Ownwellno:	8
Typewater:	1	Typemon:	0
Typeinj:	0	Typedw:	0
Histdrille:	R. MICHAEL CHANDLER	Histdrllic:	2102
Histdatedr:	08/01/2002	Histtracki:	Not Reported
Histdiamin:	7/78	Histdepth:	288
Plugdate:	04/09/2003		
Plugmeth:	ENTERED BY WLS		
Plugopname:	R. MICHAEL CHANDLER	Plugoplic:	2102
Plugmeth1:	1	Plugmeth2:	0
Plugmeth3:	0	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	4	Cfrom1:	5
Cto1:	288	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	5
Cbto1:	288	Cbsacks1:	30
Cbfrom2:	Not Reported	Cbto2:	Not Reported
Cbsacks2:	Not Reported	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	CHANDLER DRILLING , INC.	Compstreet:	966 FM 318 EAST
Compcity:	YOAKUM	Compstate:	TX
Compzip:	77995	Nameassig:	R. MICHAEL CHANDLER
Traineenam:	Not Reported	Tnum:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

36
NE
1 - 2 Miles
Lower | **TX WELLS** | **TXEQ20000002752**

Source Agency:	Texas Commission on Environmental Quality		
Pws id:	0790313	Water sour:	G0790313A
Fips count:	157	Quadrangle:	2995-244
Latitude:	292922		
Longitude:	953722		
Location a:	P	Agency:	TNRCC
Location m:	MAP-D1	Horizontal:	27
Spatial re:	C	Horizont 1:	U
Horizont 2:	S	Elevation:	0
Elevation :	Not Reported	Vertical d:	Not Reported
Location d:	01/01/1901	Elevation1:	04/24/2008
Elevatio 1:	Not Reported	Elevatio 2:	Not Reported
Latdd:	29.4894447327		
Longdd:	-95.6227798462		
Gps certif:	Not Reported	Need bette:	Not Reported
Last chang:	06/01/1992	Initials:	Not Reported
Remarks:	Not Reported		

Pws id:	0790313	Water source:	G0790313A
Well depth:	470	Depth agency:	TNRCC
Depth source:	U	Aquifer:	112CHCT
Aquifer id:	31		
Aquifer name:	CHICOT		
Aquifer method:	D	Aquifer type:	Not Reported
Drill date:	99999999	Last change:	06/01/1992
Initials:	Not Reported		
Remarks:	Not Reported		

Pws id:	0790313	Water source:	G0790313A
Fips county code:	157	Quadrangle number:	2995-244
Latitude:	292922		
Longitude:	953722		
Location accuracy:	P	Agency:	TNRCC
Location method:	MAP-D1	Horizontal datum:	27
Spatial reference code:	C	Horizontal accuracy:	U
Horizontal reference:	S	Elevation:	Not Reported
Elevation method:	Not Reported	Vertical datum:	Not Reported
Location date:	Not Reported	Elevation date:	Not Reported
Elevation agency:	Not Reported	Elevation accuracy:	Not Reported
Latdd:	29.489444732666		
Longdd:	95.6227798461914		
Gps certification number:	Not Reported	Need better location:	Not Reported
Last change:	06/01/1992	Initials:	Not Reported
Remarks:	Not Reported		

Pws id:	0790313	Water source:	G0790313A
Record number:	2	Well interval:	OPENING INTERVAL
Top depth:	450	Bottom depth:	470
Depth positive:	Not Reported	Diameter:	0
Opening type:	U	Casing material:	Not Reported
Opening material:	U	Opening length:	20
Opening method:	8	Packer material:	Not Reported
Initials:	JEM	Last change:	01/28/2002

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L37
South
1 - 2 Miles
Lower

FED USGS **USGS2652508**

Agency cd:	USGS	Site no:	292741095375701
Site name:	JY-65-35-319		
Latitude:	292741	EDR Site id:	USGS2652508
Longitude:	0953757	Dec lat:	29.46162831
Dec lon:	-95.63272442	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	48
State:	48	County:	157
Country:	US	Land net:	Not Reported
Location map:	Smithers Lake, TX	Map scale:	24000
Altitude:	64		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	2.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Brazos. Texas. Area = 1650 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19900605
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	CHICOT AQUIFER		
Well depth:	210	Hole depth:	210
Source of depth data:	driller		
Project number:	4648-00250		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

L38
South
1 - 2 Miles
Lower

TX WELLS **TXWDB3000020903**

Source Agency:	Texas Water Development Board		
State well:	6535319	County:	Fort Bend
Basin:	Brazos River	Gma:	14
Rwpa:	H	Districtid:	198914HX
Previous w:	Not Reported	Latitude:	292741
Lat dec:	29.461388		
Longitude:	953757		
Long dec:	-95.632499		
Owner 1:	Ash Management	Owner 2:	Not Reported
Driller 1:	Not Reported	Driller 2:	Not Reported

Coords Accuracy:	0		
Aquifer code:	112CHCT		
Aquifer id #1:	Gulf Coast	Aquifer id #2:	0
Aquifer id #3:	0	Elev of LSD:	64
Elev mmt method:	interpolated form topo map		
User code :	0		
Date drill:	Not Reported	Well type:	withdrawal of water
Well depth:	210	Source of1:	Another agency
Type of li:	Not Reported	Type of po:	Not Reported
Horsepower:	Not Reported	Primary Use:	public supply
Second Use:	Not Reported	Tertia Use:	Not Reported
Water leve:	N	Water qual:	N
Well logs :	Not Reported	Other data:	Not Reported
Date coll :	11042003	Reporting :	02
Well sched:	Y	Construct :	Not Reported
Completion:	Not Reported	Casing mat:	Not Reported
Screen mat:	Not Reported	Todays dat:	11/04/2003
User name:	drjones		

State well number:	6535319	Group number:	1
C s o indicator:	C	Diameter csg scn:	4
Top depth:	0	Bottom depth:	190

State well number:	6535319	Group number:	2
C s o indicator:	S	Diameter csg scn:	4
Top depth:	190	Bottom depth:	210

39
WSW **TX WELLS** **TXFB10000000251**
1 - 2 Miles
Lower

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	1030	Agglin:	862
Owner:	SIENNA POINT HOMEOWNERS ASSOC.		
Attn:	Not Reported		
Corr:	GENE ARENSBERG	Address:	2502 SCALAN ROAD
City:	MISSOURICITY	State:	TX
Zip:	77459	Zipex:	Not Reported
Latd:	29		
Latm:	28		
Lats:	27		
Lond:	95		
Lonm:	39		
Lons:	18		
Stblk:	65		
Stquad:	37		
Stni:	1		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	240		
Totd:	280		
Diam:	4		

Alloc:	70
Active:	-1
Agg2008:	0
Pump2008:	0
Agg2007:	0
Pump2007:	0
Agg2006:	0
Pump2006:	0
Agg2005:	0
Pump2005:	0
Agg2004:	0
Pump2004:	0
Agg2003:	0
Pump2003:	0
Agg2002:	3
Pump2002:	5332100
Agg2001:	1
Pump2001:	0
Agg2000:	0
Pump2000:	0
Agg1999:	0
Pump1999:	0
Agg1998:	0
Pump1998:	0
Agg1997:	0
Pump1997:	0
Agg1996:	0
Pump1996:	0
Agg1995:	0
Pump1995:	0
Agg1994:	0
Pump1994:	0
Agg1993:	0
Pump1993:	0
Agg1992:	0
Pump1992:	0
Agg1991:	0
Pump1991:	0
Agg1990:	0
Pump1990:	0

40
ENE **TX WELLS** **TXMON1000023924**
1 - 2 Miles
Lower

Source Agency:	Texas Water Development Board		
Trackno:	140129	Dateentere:	04/22/2008
Ownname:	Sharon White		
Ownstreet:	2003 Y U Jones		
Owncity:	Richmond	Ownstate:	TX
Ownzip:	77469	County:	Fort Bend
Wellstreet:	2003		
Wellcity:	Richmond	Wellzip:	77469
Own:	Not Reported	Latitude:	292907
Lat dec:	29.485277		
Longitude:	953652		

Long dec:	-95.614444		
Elev:	0	Brandmodel:	Nextel
Gn:	65361	Gn1:	65
Gn75:	36	Gn25:	1
Twn:	1	Twd:	0
Twr:	0	Twrp:	0
Twrg:	0	Um:	0
Ue:	0	Ud:	1
Uin:	0	Uir:	0
Ug:	0	Uij:	0
Up:	0	Udw:	0
Ut:	0	Us:	0
Pby:	0	Pbn:	0
Datestart:	03/07/2008	Datecomp:	03/09/2008
Dia1:	7	Dia1to:	220
Dia2:	4	Dia2from:	220
Dia2to:	232	Dia3:	Not Reported
Dia3from:	Not Reported	Dia3to:	Not Reported
Lith log:	0------20---black gumbo-clay 20----80---red & white clay 80----100-red clay & sand 100--140-sand 160--180-red clay 180-232-sand		
Dmdriven:	0	Dmairrotar:	0
Dmmudrotar:	1	Dmbored:	0
Dmairham:	0	Dmcabletoo:	0
Dmjetted:	0	Dmhollowst:	0
Dmrevcirc:	0	Dmotherck:	0
Dmother:	Not Reported	Bco:	0
Bcs:	0	Bcg:	0
Bcgs:	Not Reported	Bcu:	0
Bcoc:	0	Bcot:	2 string
Gpf:	Not Reported	Gpt:	Not Reported
Case Screen:	4 new pvc 0-------220 sch-40 2.5 new pvc 215----221 sch-80 2.5 new ssrb AMI 221----231 008 2.5 new st		
Cemfrom1:	220	Cemto1:	0
Nosacks1:	12	Cemfrom2:	0
Cemto2:	25	Nosacks2:	4
Cemfrom3:	Not Reported	Cemto3:	Not Reported
Nosacks3:	Not Reported	Cementmeth:	Haliburton
Cementby:	G.D.I.	Ds:	155
Dpl:	25	Dsv:	owner measured
Appvar:	Not Reported	Scs:	0
Scsv:	0	Scp:	1
Sca:	0	Watlev:	75
Watlevdate:	03/17/2008	Artflow:	Not Reported
Packers:	formation packer 25 Bp seal 215		
Wellplug48:	0		
Wptext:	Not Reported		
Tpturbine:	0	Tpjet:	0
Tpsubmersi:	1	Tpcylinder:	0
Tpotherck:	0	Tpother:	Not Reported
Pumpbowlde:	140	Wtpump:	0
Wtbailer:	0	Wtjetted:	1
Wtestimate:	0	Welltestyi:	45
Welltestdr:	Not Reported	Welltesthr:	Not Reported
Watqualund:	0	Watqualu 1:	1
Watertype:	good	Stratdepth:	30
Chemanaly:	0	Chemanaln:	1
Undnatural:	0	Untype:	Not Reported
Undhydro:	0	Undhaz:	0
Undotherck:	0		
Undother:	Not Reported		
Undcertify:	0	Compname:	Geophysical Drilling Inc.
Drllicno:	2888	Compstreet:	Po Box 664

Compcity:	Fulshear	Compstate:	TX
Compzip:	77441	Drillernam:	Greg Hill
Traineenam:	Not Reported	Tnum:	Not Reported
Comments 1:	Not Reported		

41
East
1 - 2 Miles
Higher

TX WELLS **TXEQ20000002707**

Source Agency:	Texas Commission on Environmental Quality		
Pws id:	0790428	Water sour:	G0790428A
Fips count:	157	Quadrangle:	2995-244
Latitude:	292834.91		
Longitude:	953639.75		
Location a:	G	Agency:	TCEQ
Location m:	GIS-M3	Horizontal:	83
Spatial re:	C	Horizont 1:	J
Horizont 2:	S	Elevation:	0
Elevation :	U	Vertical d:	00
Location d:	11/14/2008	Elevation1:	01/01/1901
Elevatio 1:	UNK	Elevatio 2:	U
Latdd:	29.4763638889		
Longdd:	-95.6110416667		
Gps certif:	99999999	Need bette:	Yes
Last chang:	11/14/2008	Initials:	TLC
Remarks:	NBL		

Pws id:	0790428	Water source:	G0790428A
Well depth:	424	Depth agency:	DRILL
Depth source:	D	Aquifer:	112CHCT
Aquifer id:	31		
Aquifer name:	CHICOT		
Aquifer method:	T	Aquifer type:	0
Drill date:	20030331	Last change:	11/14/2008
Initials:	TLC		
Remarks:	N\A		

Pws id:	0790428	Water source:	G0790428A
Fips county code:	157	Quadrangle number:	2995-244
Latitude:	292834.91		
Longitude:	953639.75		
Location accuracy:	G	Agency:	TCEQ
Location method:	GIS-M3	Horizontal datum:	83
Spatial reference code:	C	Horizontal accuracy:	J
Horizontal reference:	S	Elevation:	0
Elevation method:	U	Vertical datum:	00
Location date:	11/14/2008	Elevation date:	01/01/1901
Elevation agency:	UNK	Elevation accuracy:	U
Latdd:	29.4763638888889		
Longdd:	95.6110416666667		
Gps certification number:	99999999	Need better location:	Yes
Last change:	11/14/2008	Initials:	TLC
Remarks:	NBL		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790428	Water source:	G0790428A
Record number:	1	Well interval:	ANNULAR CEMENT
Top depth:	0	Bottom depth:	395
Depth positive:	Not Reported	Diameter:	9
Opening type:	Not Reported	Casing material:	Not Reported
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	TLC	Last change:	11/14/2008

Pws id:	0790428	Water source:	G0790428A
Record number:	2	Well interval:	CASING
Top depth:	0	Bottom depth:	395
Depth positive:	Not Reported	Diameter:	5
Opening type:	Not Reported	Casing material:	P
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	TLC	Last change:	11/14/2008

Pws id:	0790428	Water source:	G0790428A
Record number:	3	Well interval:	CASING
Top depth:	383	Bottom depth:	404
Depth positive:	Not Reported	Diameter:	3
Opening type:	Not Reported	Casing material:	H
Opening material:	Not Reported	Opening length:	Not Reported
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	TLC	Last change:	11/14/2008

Pws id:	0790428	Water source:	G0790428A
Record number:	4	Well interval:	WELL OPENINGS
Top depth:	404	Bottom depth:	424
Depth positive:	Not Reported	Diameter:	3
Opening type:	R	Casing material:	Not Reported
Opening material:	R	Opening length:	20
Opening method:	Not Reported	Packer material:	Not Reported
Initials:	TLC	Last change:	11/14/2008

Pws id:	0790428	Water source:	G0790428A
Record number:	1	Top depth:	0
Bottom depth:	3	Thickness:	3
Geologic description:	TOP SOIL		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	TLC
Last change:	11/14/2008		
Remarks:	Not Reported		

Pws id:	0790428	Water source:	G0790428A
Record number:	2	Top depth:	3
Bottom depth:	83	Thickness:	80
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	TLC
Last change:	11/14/2008		
Remarks:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pws id:	0790428	Water source:	G0790428A
Record number:	3	Top depth:	83
Bottom depth:	102	Thickness:	19
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	TLC
Last change:	11/14/2008		
Remarks:	Not Reported		

Pws id:	0790428	Water source:	G0790428A
Record number:	4	Top depth:	102
Bottom depth:	154	Thickness:	52
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	TLC
Last change:	11/14/2008		
Remarks:	Not Reported		

Pws id:	0790428	Water source:	G0790428A
Record number:	5	Top depth:	154
Bottom depth:	174	Thickness:	20
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	TLC
Last change:	11/14/2008		
Remarks:	Not Reported		

Pws id:	0790428	Water source:	G0790428A
Record number:	6	Top depth:	174
Bottom depth:	219	Thickness:	45
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	TLC
Last change:	11/14/2008		
Remarks:	Not Reported		

Pws id:	0790428	Water source:	G0790428A
Record number:	7	Top depth:	219
Bottom depth:	248	Thickness:	29
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	TLC
Last change:	11/14/2008		
Remarks:	Not Reported		

Pws id:	0790428	Water source:	G0790428A
Record number:	8	Top depth:	248
Bottom depth:	278	Thickness:	30
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	TLC
Last change:	11/14/2008		
Remarks:	Not Reported		

Pws id:	0790428	Water source:	G0790428A
Record number:	9	Top depth:	278
Bottom depth:	296	Thickness:	18
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	TLC
Last change:	11/14/2008		
Remarks:	Not Reported		

Pws id:	0790428	Water source:	G0790428A
Record number:	10	Top depth:	296
Bottom depth:	398	Thickness:	102
Geologic description:	CLAY		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	TLC
Last change:	11/14/2008		
Remarks:	Not Reported		

Pws id:	0790428	Water source:	G0790428A
Record number:	11	Top depth:	398
Bottom depth:	424	Thickness:	26
Geologic description:	SAND		
Geologic correction:	Not Reported		
Source geologic data:	7	Initials:	TLC
Last change:	11/14/2008		
Remarks:	Not Reported		

42
East
1 - 2 Miles
Higher

TX WELLS **TXFB10000000207**

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	1012	Agglin:	1012
Owner:	Sebesta Realty, Ron		
Attn:	Not Reported		
Corr:	Aucoin & Associates, Inc.	Address:	8765 Spring Cypress Rd., Suite L173
City:	Spring	State:	TX
Zip:	77379	Zipex:	Not Reported
Latd:	29		
Latm:	28		
Lats:	30		
Lond:	95		
Lonm:	36		
Lons:	40		
Stblk:	65		
Stquad:	36		
Stni:	1		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	250		
Totd:	400		
Diam:	6		

Alloc:	5
Active:	-1
Agg2008:	1
Pump2008:	1050900
Agg2007:	1
Pump2007:	795100
Agg2006:	1
Pump2006:	436000
Agg2005:	1
Pump2005:	961000
Agg2004:	1
Pump2004:	0
Agg2003:	1
Pump2003:	0
Agg2002:	1
Pump2002:	0
Agg2001:	1
Pump2001:	0
Agg2000:	0
Pump2000:	0
Agg1999:	0
Pump1999:	0
Agg1998:	0
Pump1998:	0
Agg1997:	0
Pump1997:	0
Agg1996:	0
Pump1996:	0
Agg1995:	0
Pump1995:	0
Agg1994:	0
Pump1994:	0
Agg1993:	0
Pump1993:	0
Agg1992:	0
Pump1992:	0
Agg1991:	0
Pump1991:	0
Agg1990:	0
Pump1990:	0

M43
ESE
1 - 2 Miles
Lower

TX WELLS **TXWDB3000021026**

Source Agency:	Texas Water Development Board		
State well:	6536104	County:	Fort Bend
Basin:	Brazos River	Gma:	14
Rwpa:	H	Districtid:	198914HX
Previous w:	Not Reported	Latitude:	292809
Lat dec:	29.469166		
Longitude:	953645		
Long dec:	-95.6125		
Owner 1:	Rudolph Gubbles	Owner 2:	Not Reported
Driller 1:	Not Reported	Driller 2:	Not Reported

Coords Accuracy:	Not Reported		
Aquifer code:	112GLFC		
Aquifer id #1:	Gulf Coast	Aquifer id #2:	0
Aquifer id #3:	0	Elev of LSD:	69
Elev mmt method:	interpolated form topo map		
User code :	0		
Date drill:	1919	Well type:	withdrawal of water
Well depth:	185	Source of1:	Not Reported
Type of li:	none	Type of po:	Not Reported
Horsepower:	Not Reported	Primary Use:	unused
Second Use:	Not Reported	Tertia Use:	Not Reported
Water leve:	M	Water qual:	Y
Well logs :	Not Reported	Other data:	Not Reported
Date coll :	Not Reported	Reporting :	02
Well sched:	Y	Construct :	Not Reported
Completion:	Not Reported	Casing mat:	Not Reported
Screen mat:	Not Reported	Todays dat:	08/01/2006
User name:	Not Reported		

State well number:	6536104	Pn well visit mark:	P
Depth from lsd:	-20	Mm date:	0
Dd date:	0	Yy date:	1936
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6536104	Mm date:	5
Dd date:	12	Yydate:	1936
Sample number:	1	Sample time:	Not Reported
Temp centigrade:	Not Reported	Top s interval:	Not Reported
Bottom s interval:	Not Reported	Samp int aqcode:	Not Reported
Collection remarks:	Not Reported	Reliability rem:	Not Reported
Collecting agency:	Not Reported	Lab code:	Not Reported
Bu wqanalysis:	B	Q00955 flag:	Not Reported
Q00955 silica mgl:	Not Reported	Q00910 flag:	Not Reported
Q00910 calcium mgl:	50	Q00920 flag:	Not Reported
Q00920 magnes mgl:	12	Q00929 flag:	Not Reported
Q00929 sodium mgl:	55	Q00937 flag:	Not Reported
Q00937 potass mgl:	Not Reported	Q01080 flag:	Not Reported
Q01080 strontium:	Not Reported	Q00445 carb mgl:	0
Q00440 bicarb mgl:	305	Q00945 flag:	Not Reported
Q00945 sulfate mgl:	10	Q00940 flag:	Not Reported
Q00940 chloride mg:	30	Q00951 flag:	Not Reported
Q00951 fluoride mg:	Not Reported	Q71850 flag:	Not Reported
Q71850 nitrate mgl:	Not Reported	Q00403 flag:	Not Reported
Q00403 ph:	Not Reported	Q70300 tds:	306
Q00415 flag:	Not Reported	Q00415 phen alk:	0
Q00410 flag:	Not Reported	Q00410 total alk:	249.93
Q00900 tot hardnes:	174	Q00932 percent na:	40
Q00931 sar:	1.81	Q71860 rsc:	1.52
Q00095 flag:	Not Reported	Q00095 spec cond:	Not Reported
Date entered:	Not Reported	User name:	pnordstr
Bu value:	Not Reported		

M44
ESE
1 - 2 Miles
Lower

FED USGS **USGS2652531**

Agency cd:	USGS	Site no:	292808095364401
Site name:	JY-65-36-104		
Latitude:	292808	EDR Site id:	USGS2652531
Longitude:	0953644	Dec lat:	29.4691279
Dec lon:	-95.61244614	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	48
State:	48	County:	157
Country:	US	Land net:	Not Reported
Location map:	Thompsons, TX	Map scale:	24000
Altitude:	69		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Brazos. Texas. Area = 1650 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	1919
Date inventoried:	19360512	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined single aquifer		
Aquifer:	CHICOT AQUIFER,UPPER		
Well depth:	185	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	4648-00250		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1936-00-00	Ground water data end date:	1936-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1936	20	

N45
NNW
1 - 2 Miles
Lower

FED USGS **USGS2652443**

Agency cd:	USGS	Site no:	292947095385101
Site name:	JY-65-35-305		
Latitude:	292947	EDR Site id:	USGS2652443
Longitude:	0953851	Dec lat:	29.49662763
Dec lon:	-95.64772496	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	48
State:	48	County:	157
Country:	US	Land net:	Not Reported
Location map:	Lake George, TX	Map scale:	24000
Altitude:	60		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Brazos. Texas. Area = 1650 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19461014
Date inventoried:	19691008	Mean greenwich time offset:	CST

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	8147	Hole depth:	Not Reported
Source of depth data:	logs		
Project number:	4648-00250		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

N46
NNW **TX WELLS** **TXWDB3000021506**
1 - 2 Miles
Lower

Source Agency:	Texas Water Development Board		
State well:	6535305	County:	Fort Bend
Basin:	Brazos River	Gma:	14
Rwpa:	H	Districtid:	198914HX
Previous w:	Not Reported	Latitude:	292948
Lat dec:	29.496666		
Longitude:	953852		
Long dec:	-95.647777		
Owner 1:	A.P. George	Owner 2:	Not Reported
Driller 1:	Humble Oil & Ref	Driller 2:	Not Reported
Coords Accuracy:	Not Reported		
Aquifer code:	AQUIFER CODE IS NOT APPLICABLE TO THIS WELL		
Aquifer id #1:	0	Aquifer id #2:	0
Aquifer id #3:	0	Elev of LSD:	0
Elev mmt method:	interpolated form topo map		
User code :	0		
Date drill:	1946	Well type:	oil or gas
Well depth:	8147	Source of1:	Not Reported
Type of li:	Not Reported	Type of po:	Not Reported
Horsepower:	Not Reported	Primary Use:	Not Reported
Second Use:	Not Reported	Tertia Use:	Not Reported
Water leve:	N	Water qual:	N
Well logs :	Not Reported	Other data:	Not Reported
Date coll :	Not Reported	Reporting :	02
Well sched:	Y	Construct :	Not Reported
Completion:	Not Reported	Casing mat:	Not Reported
Screen mat:	Not Reported	Todays dat:	08/20/1996
User name:	Not Reported		

N47
NNW **FED USGS** **USGS2652444**
1 - 2 Miles
Lower

Agency cd:	USGS	Site no:	292947095385301
Site name:	JY-65-35-301		
Latitude:	292947	EDR Site id:	USGS2652444
Longitude:	0953853	Dec lat:	29.49662764
Dec lon:	-95.64828053	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	48
State:	48	County:	157
Country:	US	Land net:	Not Reported
Location map:	Lake George, TX	Map scale:	24000
Altitude:	61		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Brazos. Texas. Area = 1650 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	194608
Date inventoried:	19470429	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined single aquifer		
Aquifer:	CHICOT AQUIFER,LOWER		
Well depth:	302	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	4648-00250		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1947-04-30	Ground water data end date:	1949-09-06
Ground water data count:	3		

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1949-09-06	18		1948-10-30	21.12	
1947-04-30	12.09				

N48
NNW
1 - 2 Miles
Lower

TX WELLS **TXWDB3000021505**

Source Agency:	Texas Water Development Board		
State well:	6535301	County:	Fort Bend
Basin:	Brazos River	Gma:	14
Rwpa:	H	Districtid:	198914HX
Previous w:	Not Reported	Latitude:	292948
Lat dec:	29.496666		
Longitude:	953854		
Long dec:	-95.648333		
Owner 1:	Humble Oil & Ref	Owner 2:	Not Reported
Driller 1:	L. Patterson Inc	Driller 2:	Not Reported

Coords Accuracy:	Not Reported		
Aquifer code:	CHICOT AQUIFER,LOWER		
Aquifer id #1:	Gulf Coast	Aquifer id #2:	0
Aquifer id #3:	0	Elev of LSD:	61
Elev mmt method:	interpolated form topo map		
User code :	0		
Date drill:	1946	Well type:	withdrawal of water
Well depth:	302	Source of1:	Not Reported
Type of li:	none	Type of po:	Not Reported
Horsepower:	Not Reported	Primary Use:	unused
Second Use:	Not Reported	Tertia Use:	Not Reported
Water leve:	M	Water qual:	N
Well logs :	Not Reported	Other data:	Not Reported
Date coll :	Not Reported	Reporting :	02
Well sched:	Y	Construct :	Not Reported
Completion:	Not Reported	Casing mat:	Not Reported
Screen mat:	Not Reported	Todays dat:	04/27/2005
User name:	Not Reported		

State well number:	6535301	Pn well visit mark:	P
Depth from lsd:	-12.1	Mm date:	4
Dd date:	30	Yy date:	1947
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535301	Pn well visit mark:	P
Depth from lsd:	-18.2	Mm date:	9
Dd date:	6	Yy date:	1949
Measurement number:	01	Measuring agency:	Not Reported
Method of meas:	Not Reported	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

State well number:	6535301	Pn well visit mark:	P
Depth from lsd:	-21.12	Mm date:	10
Dd date:	30	Yy date:	1948
Measurement number:	01	Measuring agency:	04
Method of meas:	1	Remark:	Not Reported
Date entered:	Not Reported	User name:	Not Reported

49
NNE
1 - 2 Miles
Lower

TX WELLS **TXFB10000000504**

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	278	Aggln:	278
Owner:	HOUSTON LIGHTING & POWER COMPANY		
Attn:	EDWARD A. FEITH		
Corr:	ENVIRONMENTAL DEPARTMENT	Address:	P.O. BOX 1700
City:	HOUSTON	State:	TX
Zip:	77251	Zipex:	Not Reported
Latd:	29		
Latm:	29		
Lats:	50		
Lond:	95		
Lonm:	37		

Lons:	20		
Stblk:	65		
Stquad:	36		
Stni:	1		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	10		
Totd:	230		
Diam:	4		
Alloc:	.5		
Active:	0		
Agg2008:	0		
Pump2008:	0		
Agg2007:	0		
Pump2007:	0		
Agg2006:	0		
Pump2006:	0		
Agg2005:	0		
Pump2005:	0		
Agg2004:	0		
Pump2004:	0		
Agg2003:	0		
Pump2003:	0		
Agg2002:	0		
Pump2002:	0		
Agg2001:	0		
Pump2001:	0		
Agg2000:	0		
Pump2000:	0		
Agg1999:	0		
Pump1999:	0		
Agg1998:	0		
Pump1998:	0		
Agg1997:	0		
Pump1997:	0		
Agg1996:	0		
Pump1996:	0		
Agg1995:	0		
Pump1995:	0		
Agg1994:	0		
Pump1994:	0		
Agg1993:	0		
Pump1993:	0		
Agg1992:	0		
Pump1992:	0		
Agg1991:	1		
Pump1991:	28896		
Agg1990:	1		
Pump1990:	100000		

50
NNE
1 - 2 Miles
Lower

TX WELLS **TXFB10000000528**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	277	Aggln:	277
Owner:	RELIANT ENERGY, INCORPORATED		
Attn:	EDWARD A. FEITH		
Corr:	ENVIRONMENTAL DEPARTMENT	Address:	P.O. BOX 1700
City:	HOUSTON	State:	TX
Zip:	77251	Zipex:	Not Reported
Latd:	29		
Latm:	29		
Lats:	56		
Lond:	95		
Lonm:	37		
Lons:	20		
Stblk:	65		
Stquad:	36		
Stni:	1		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	0		
Totd:	0		
Diam:	4		
Alloc:	1		
Active:	0		
Agg2008:	0		
Pump2008:	0		
Agg2007:	0		
Pump2007:	0		
Agg2006:	0		
Pump2006:	0		
Agg2005:	0		
Pump2005:	0		
Agg2004:	0		
Pump2004:	0		
Agg2003:	0		
Pump2003:	0		
Agg2002:	0		
Pump2002:	0		
Agg2001:	0		
Pump2001:	0		
Agg2000:	1		
Pump2000:	0		
Agg1999:	1		
Pump1999:	28000		
Agg1998:	1		
Pump1998:	42000		
Agg1997:	1		
Pump1997:	42000		
Agg1996:	1		
Pump1996:	42000		
Agg1995:	1		
Pump1995:	100000		
Agg1994:	1		
Pump1994:	100000		
Agg1993:	1		
Pump1993:	42000		
Agg1992:	1		
Pump1992:	100000		
Agg1991:	1		
Pump1991:	100000		
Agg1990:	1		
Pump1990:	100000		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
51 **NNE** **1 - 2 Miles** **Lower**	**TX WELLS**	**TXFB10000000779**

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	607	Aggln:	607
Owner:	NRG Texas LP		
Attn:	C. E. Burch		
Corr:	Not Reported	Address:	P. O. Box 98
City:	Thompsons	State:	TX
Zip:	77481	Zipex:	Not Reported
Latd:	29		
Latm:	29		
Lats:	56		
Lond:	95		
Lonm:	37		
Lons:	13		
Stblk:	65		
Stquad:	36		
Stni:	1		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	290		
Totd:	300		
Diam:	4		
Alloc:	1		
Active:	-1		
Agg2008:	2		
Pump2008:	166100		
Agg2007:	2		
Pump2007:	182600		
Agg2006:	2		
Pump2006:	217200		
Agg2005:	2		
Pump2005:	84000		
Agg2004:	1		
Pump2004:	42000		
Agg2003:	1		
Pump2003:	42000		
Agg2002:	1		
Pump2002:	42000		
Agg2001:	1		
Pump2001:	42000		
Agg2000:	1		
Pump2000:	42000		
Agg1999:	1		
Pump1999:	42000		
Agg1998:	1		
Pump1998:	42000		
Agg1997:	1		
Pump1997:	42000		
Agg1996:	1		
Pump1996:	42000		
Agg1995:	1		
Pump1995:	42000		

Agg1994:	1
Pump1994:	42000
Agg1993:	1
Pump1993:	42000
Agg1992:	1
Pump1992:	104832
Agg1991:	1
Pump1991:	58800
Agg1990:	1
Pump1990:	0

52
WSW **TX WELLS** **TXFB10000000079**
1 - 2 Miles
Higher

Source Agency:	Harris-Galveston Coastal Subsidence District		
Well:	1207	Aggln:	1207
Owner:	Bass Enterprises Production Co.		
Attn:	Cline Johnson		
Corr:	Not Reported	Address:	117 Tura St. (GR# 16)
City:	El Campo	State:	TX
Zip:	77437	Zipex:	Not Reported
Latd:	29		
Latm:	28		
Lats:	17		
Lond:	95		
Lonm:	39		
Lons:	45		
Stblk:	65		
Stquad:	35		
Stni:	3		
Cnty:	Not Reported	Newra:	Not Reported
Grp:	Not Reported	Use :	Not Reported
Yrdrl:	Not Reported		
Dtfs:	200		
Totd:	250		
Diam:	4		
Alloc:	0		
Active:	0		
Agg2008:	0		
Pump2008:	0		
Agg2007:	0		
Pump2007:	0		
Agg2006:	1		
Pump2006:	0		
Agg2005:	1		
Pump2005:	516600		
Agg2004:	0		
Pump2004:	0		
Agg2003:	0		
Pump2003:	0		
Agg2002:	0		
Pump2002:	0		
Agg2001:	0		
Pump2001:	0		
Agg2000:	0		
Pump2000:	0		

Agg1999:	0
Pump1999:	0
Agg1998:	0
Pump1998:	0
Agg1997:	0
Pump1997:	0
Agg1996:	0
Pump1996:	0
Agg1995:	0
Pump1995:	0
Agg1994:	0
Pump1994:	0
Agg1993:	0
Pump1993:	0
Agg1992:	0
Pump1992:	0
Agg1991:	0
Pump1991:	0
Agg1990:	0
Pump1990:	0

53
NW **TX WELLS** **TXPLU1000008207**
1 - 2 Miles
Lower

Source Agency:	Texas Water Development Board		
Plugtrackn:	16237	Dateentere:	04/21/2004
Ownname:	BASS ENTERPRISES	Ownstreet:	117 TURA
Owncity:	EL CAMPO	Ownstate:	TX
Ownzip:	77437		
Wellstreet:	FM 762		
Wellcity:	ROSENBERG	Wellzip:	Not Reported
County:	Fort Bend	Latitude:	292945
Lat dec:	29.495833		
Longitude:	953929		
Long dec:	-95.658055		
Brmod:	MAP	Gn:	65353
Gn1:	65	Gn75:	35
Gn25:	3	Ownwellno:	Not Reported
Typewater:	1	Typemon:	0
Typeinj:	0	Typedw:	0
Histdrille:	MICHAEL CHANDLER	Histdrllic:	2102
Histdatedr:	11/14/2003	Histtracki:	Not Reported
Histdiamin:	4	Histdepth:	221
Plugdate:	01/21/2004		
Plugmeth:	DG		
Plugopname:	JOHN MICAN	Plugoplic:	4409
Plugmeth1:	1	Plugmeth2:	0
Plugmeth3:	0	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	4	Cfrom1:	4
Cto1:	221	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	4
Cbto1:	221	Cbsacks1:	31

Cbfrom2:	Not Reported	Cbto2:	Not Reported
Cbsacks2:	Not Reported	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	CHANDLER DRILLING	Compstreet:	966 FM 318 EAST
Compcity:	YOAKUM	Compstate:	TX
Compzip:	77995	Nameassig:	JOHN MICAN
Traineenam:	Not Reported	Tnum:	Not Reported

54
SE **TX WELLS** **TXPLU1000007944**
1 - 2 Miles
Lower

Source Agency:	Texas Water Development Board		
Plugtrackn:	3464	Dateentere:	10/09/2001
Ownname:	Jetta Production	Ownstreet:	777 Taylor street
Owncity:	Ft Worth	Ownstate:	Tx
Ownzip:	76102		
Wellstreet:	Edwards Riggins #5		
Wellcity:	Thompson	Wellzip:	77481
County:	Fort Bend	Latitude:	292737
Lat dec:	29.460277		
Longitude:	953637		
Long dec:	-95.610277		
Brmod:	Not Reported	Gn:	65361
Gn1:	65	Gn75:	36
Gn25:	1	Ownwellno:	Not Reported
Typewater:	1	Typemon:	0
Typeinj:	0	Typedw:	0
Histdrille:	John Davidson	Histdrllic:	2268
Histdatedr:	06/08/2000	Histtracki:	Not Reported
Histdiamin:	4	Histdepth:	271
Plugdate:	07/10/2001		
Plugmeth:	logged by TF		
Plugopname:	John Davidson	Plugoplic:	2268
Plugmeth1:	0	Plugmeth2:	1
Plugmeth3:	0	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	4	Cfrom1:	0
Cto1:	271	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	271
Cbto1:	2	Cbsacks1:	6 BEN
Cbfrom2:	2	Cbto2:	0
Cbsacks2:	2CEM	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	O'Day Drilling Co.	Compstreet:	2357 Garden Road
Compcity:	Pearland	Compstate:	Tx
Compzip:	77581	Nameassig:	John Davidson
Traineenam:	Not Reported	Tnum:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
55 **NW** **1 - 2 Miles** **Lower**	**TX WELLS**	**TXPLU1000008206**

Source Agency:	Texas Water Development Board		
Plugtrackn:	5727	Dateentere:	03/28/2002
Ownname:	BASS ENTERPRISE	Ownstreet:	117 TURA
Owncity:	EL CAMPO	Ownstate:	TX
Ownzip:	77437		
Wellstreet:	SAME		
Wellcity:	Not Reported	Wellzip:	Not Reported
County:	Fort Bend	Latitude:	292945
Lat dec:	29.495833		
Longitude:	953935		
Long dec:	-95.659722		
Brmod:	MAP	Gn:	65353
Gn1:	65	Gn75:	35
Gn25:	3	Ownwellno:	#5
Typewater:	1	Typemon:	0
Typeinj:	0	Typedw:	0
Histdrille:	R. MICHAEL CHANDLER	Histdrllic:	2102
Histdatedr:	10/29/2001	Histtracki:	Not Reported
Histdiamin:	4	Histdepth:	221
Plugdate:	01/18/2002		
Plugmeth:	ENTERED BY WLS		
Plugopname:	R. MICHAEL CHANDLER	Plugoplic:	2102
Plugmeth1:	1	Plugmeth2:	0
Plugmeth3:	0	Plugmeth4:	0
Plugmethot:	0	Plugvar:	Not Reported
Cdiam1:	4	Cfrom1:	4
Cto1:	221	Cdiam2:	Not Reported
Cfrom2:	Not Reported	Cto2:	Not Reported
Cdiam3:	Not Reported	Cfrom3:	Not Reported
Cto3:	Not Reported	Cbfrom1:	4
Cbto1:	221	Cbsacks1:	17
Cbfrom2:	Not Reported	Cbto2:	Not Reported
Cbsacks2:	Not Reported	Cbfrom3:	Not Reported
Cbto3:	Not Reported	Cbsacks3:	Not Reported
Cbfrom4:	Not Reported	Cbto4:	Not Reported
Cbsacks4:	Not Reported	Cbfrom5:	Not Reported
Cbto5:	Not Reported	Cbsacks5:	Not Reported
Compname:	CHANDLER DRILLING, INC.	Compstreet:	966 FM 318 EAST
Compcity:	YOAKUM	Compstate:	TX
Compzip:	77995	Nameassig:	R. MICHAEL CHANDLER
Traineenam:	Not Reported	Tnum:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
SSE **OIL_GAS** **TXOG40000226265**
1/2 - 1 Mile

Surface id:	174807		
Well Type:	Dry Hole	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.62955908		
Latn:	29.46772644		
Site id:	TXOG40000226265		

Surface id:	174807		
Well Type:	Dry Hole	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.6295591		
Latn:	29.4677264		

2
ESE **OIL_GAS** **TXOG40000226631**
1/2 - 1 Mile

Surface id:	175115		
Well Type:	Canceled Location	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.62276361		
Latn:	29.47209582		
Site id:	TXOG40000226631		

Surface id:	175115		
Well Type:	Canceled Location	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.6227636		
Latn:	29.4720958		

3
WSW **OIL_GAS** **TXOG40000226593**
1/2 - 1 Mile

Surface id:	174806		
Well Type:	Dry Hole	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.64923482		
Latn:	29.47174023		
Site id:	TXOG40000226593		

Surface id:	174806		
Well Type:	Dry Hole	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.6492348		
Latn:	29.4717402		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

4
East **OIL_GAS** **TXOG40000227082**
1 - 2 Miles

Surface id:	175102		
Well Type:	Dry Hole	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.61686165		
Latn:	29.47638482		
Site id:	TXOG40000227082		

Surface id:	175102		
Well Type:	Dry Hole	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.61686165		
Latn:	29.47638482		

5
East **OIL_GAS** **TXOG40000226895**
1 - 2 Miles

Surface id:	1145542		
Well Type:	Plugged Oil Well	Api:	15702642
Reliab:	Operator reported location (distances without plat or plat without distances).		
Longn:	-95.61617604		
Latn:	29.47470187		
Site id:	TXOG40000226895		

Surface id:	1145542		
Well Type:	Plugged Oil Well	Apinum:	4215702642
Out fips:	N	Reliab:	Operator reported location (distances without plat or plat wit
Cwellnum:	2	Radioact:	Not Reported
Longn:	-95.61617604		
Latn:	29.47470187		

6
East **OIL_GAS** **TXOG40000227110**
1 - 2 Miles

Surface id:	175281		
Well Type:	Permitted Location	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.61227636		
Latn:	29.476695		
Site id:	TXOG40000227110		

Surface id:	175281		
Well Type:	Permitted Location	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.61227636		
Latn:	29.476695		

Map ID
Direction
Distance

Database EDR ID Number

7
West **OIL_GAS** **TXOG40000226916**
1 - 2 Miles

Surface id:	1177366		
Well Type:	Sidetrack Well Surface Location	Api:	15732515
Reliab:	Coordinate (operator reported).		
Longn:	-95.65772274		
Latn:	29.47490854		
Site id:	TXOG40000226916		
Surface id:	1177366		
Well Type:	Gas Well	Apinum:	4215732515D1
Out fips:	N	Reliab:	Operator reported location (distances and plat).
Cwellnum:	2	Radioact:	Not Reported
Longn:	-95.65542484		
Latn:	29.48037677		

8
NNW **OIL_GAS** **TXOG40000228722**
1 - 2 Miles

Surface id:	174808		
Well Type:	Dry Hole	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.64746358		
Latn:	29.49600627		
Site id:	TXOG40000228722		
Surface id:	174808		
Well Type:	Dry Hole	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.6474636		
Latn:	29.4960063		

9
SSE **OIL_GAS** **TXOG40000225370**
1 - 2 Miles

Surface id:	175103		
Well Type:	Dry Hole	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.6220315		
Latn:	29.45792705		
Site id:	TXOG40000225370		
Surface id:	175103		
Well Type:	Dry Hole	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.6220315		
Latn:	29.4579271		

Map ID
Direction
Distance

Database EDR ID Number

10
South
1 - 2 Miles

OIL_GAS **TXOG40000224917**

Surface id:	174793		
Well Type:	Dry Hole	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.63086434		
Latn:	29.45351193		
Site id:	TXOG40000224917		

Surface id:	174793		
Well Type:	Dry Hole	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.6308643		
Latn:	29.4535119		

11
SSW
1 - 2 Miles

OIL_GAS **TXOG40000224951**

Surface id:	174795		
Well Type:	Dry Hole	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.64085578		
Latn:	29.45375442		
Site id:	TXOG40000224951		

Surface id:	174795		
Well Type:	Dry Hole	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.6408558		
Latn:	29.4537544		

12
West
1 - 2 Miles

OIL_GAS **TXOG40000227449**

Surface id:	174804		
Well Type:	Dry Hole	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.6632734		
Latn:	29.48003658		
Site id:	TXOG40000227449		

Surface id:	174804		
Well Type:	Dry Hole	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	Not Reported	Radioact:	Not Reported
Longn:	-95.6632734		
Latn:	29.4800366		

Map ID
Direction
Distance

Database EDR ID Number

13
SW
1 - 2 Miles

OIL_GAS **TXOG40000225548**

Surface id:	174797		
Well Type:	Dry Hole	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.65551751		
Latn:	29.46013507		
Site id:	TXOG40000225548		

Surface id:	174797		
Well Type:	Dry Hole	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.6555175		
Latn:	29.4601351		

A14
South
1 - 2 Miles

OIL_GAS **TXOG40000224801**

Surface id:	1107068		
Well Type:	Sidetrack Well Surface Location	Api:	15732285
Reliab:	Operator reported location (distances and plat).		
Longn:	-95.63842658		
Latn:	29.4524145		
Site id:	TXOG40000224801		

Surface id:	1107068		
Well Type:	Dry Hole	Apinum:	4215732285D1
Out fips:	N	Reliab:	Operator reported location (distances and plat).
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.63436532		
Latn:	29.44550928		

A15
South
1 - 2 Miles

OIL_GAS **TXOG40000224790**

Surface id:	174794		
Well Type:	Dry Hole	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.63780446		
Latn:	29.45227678		
Site id:	TXOG40000224790		

Surface id:	174794		
Well Type:	Dry Hole	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.6378045		
Latn:	29.4522768		

Map ID
Direction
Distance

Database EDR ID Number

16
WSW **OIL_GAS** **TXOG40000226483**
1 - 2 Miles

Surface id:	174805		
Well Type:	Dry Hole	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.66369902		
Latn:	29.47040446		
Site id:	TXOG40000226483		

Surface id:	174805		
Well Type:	Dry Hole	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.663699		
Latn:	29.4704045		

17
ESE **OIL_GAS** **TXOG40000226148**
1 - 2 Miles

Surface id:	175282		
Well Type:	Permitted Location	Api:	15731583
Reliab:	RRC Hardcopy Map		
Longn:	-95.60650644		
Latn:	29.46649685		
Site id:	TXOG40000226148		

Surface id:	175282		
Well Type:	Permitted Location	Apinum:	4215731583
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	59D	Radioact:	Not Reported
Longn:	-95.6065064		
Latn:	29.4664968		

18
ESE **OIL_GAS** **TXOG40000226384**
1 - 2 Miles

Surface id:	175242		
Well Type:	Permitted Location	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.60501172		
Latn:	29.46944659		
Site id:	TXOG40000226384		

Surface id:	175242		
Well Type:	Permitted Location	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.60501172		
Latn:	29.46944659		

Map ID
Direction
Distance

Database EDR ID Number

19
ESE
1 - 2 Miles

OIL_GAS **TXOG40000225953**

Surface id:	175228		
Well Type:	Injection/Disposal Well	Api:	15731582
Reliab:	RRC Hardcopy Map		
Longn:	-95.60685711		
Latn:	29.46452101		
Site id:	TXOG40000225953		

Surface id:	175228		
Well Type:	Injection/Disposal Well	Apinum:	4215731582
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	58D	Radioact:	Not Reported
Longn:	-95.6068571		
Latn:	29.464521		

B20
East
1 - 2 Miles

OIL_GAS **TXOG40000227098**

Surface id:	175262		
Well Type:	Canceled Location	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.60314904		
Latn:	29.47660446		
Site id:	TXOG40000227098		

Surface id:	175262		
Well Type:	Canceled Location	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	2	Radioact:	Not Reported
Longn:	-95.60314904		
Latn:	29.47660446		

B21
East
1 - 2 Miles

OIL_GAS **TXOG40000227149**

Surface id:	175263		
Well Type:	Canceled Location	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.6031036		
Latn:	29.47708102		
Site id:	TXOG40000227149		

Surface id:	175263		
Well Type:	Canceled Location	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.6031036		
Latn:	29.47708102		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

	Database	EDR ID Number
22 **South** **1 - 2 Miles**	**OIL_GAS**	**TXOG40000224449**

Surface id:	174792		
Well Type:	Dry Hole	Api:	157
Reliab:	RRC Hardcopy Map		
Longn:	-95.63187647		
Latn:	29.44933073		
Site id:	TXOG40000224449		

Surface id:	174792		
Well Type:	Dry Hole	Apinum:	42157
Out fips:	N	Reliab:	RRC Hardcopy Map
Cwellnum:	1	Radioact:	Not Reported
Longn:	-95.6318765		
Latn:	29.4493307		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: TX Radon

Radon Test Results

County	Mean	Total Sites	%>4 pCi/L	%>20 pCi/L	Min pCi/L	Max pCi/L
FORT BEND	<.5	23	.0	.0	<.5	1.5

Federal EPA Radon Zone for FORT BEND County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 77469

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.400 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Public Water Supply Sources Databases
Source: Texas Commission on Environmental Quality
Telephone: 512-239-6199
Locations of public drinking water sources maintained by the TCEQ

Groundwater Database
Source: Texas Water Development Board
Telephone: 512-936-0837

Well Report Database
Source: Department of Licensing and Regulation
Telephone: 512-936-0833

Water Well Database
Source: Harris-Galveston Coastal Subsidence District
Telephone: 281-486-1105

Submitted Driller's Reports Database
Source: Texas Water Development Board
Telephone: 512-936-0833
The Submitted Driller's Reports Database is populated from the online Texas Well Report Submission and Retrieval System which is a cooperative Texas Department of Licensing and Regulation (TDLR) and Texas Water Development Board (TWDB) application that registered water-well drillers use to submit their required reports.

OTHER STATE DATABASE INFORMATION

Texas Oil and Gas Wells:
Source: Texas Railroad Commission
Telephone: 512-463-6882
Oil and gas well locations

RADON

State Database: TX Radon
Source: Department of Health
Telephone: 512-834-6688
Rinal Report of the Texas Indoor Radon Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MISSOURI CITY QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Planimetry by photogrammetric methods from aerial photographs taken 1968. Topography enlarged from 1:62 500 scale map of Sugar Land quadrangle dated 1955. Topography by planetable surveys. Field checked 1970

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Texas coordinate system, south central zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Fine red dashed lines indicate selected fence lines

To place on the predicted North American Datum 1983 move the projection lines 21 meters south and 22 meters east as shown by dashed corner ticks

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Revisions shown in purple compiled from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1980

Purple tint indicates extension of urban areas

SCALE 1:24 000

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

TEXAS
QUADRANGLE LOCATION

2995–311

ROAD CLASSIFICATION

Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route
U. S. Route
State Route

MISSOURI CITY, TEX.

29095-E5-TF-024

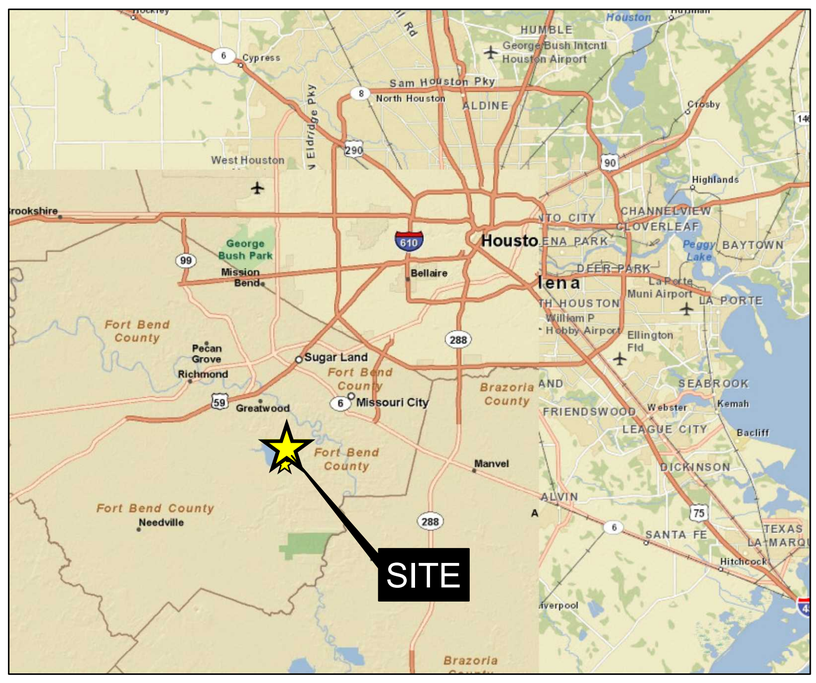
1970
PHOTOREVISED 1980
DMA 6843 II SE–SERIES V882

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1991

Figure 2
Missouri City 1:24,000 USGS Quadrangle

Legend

- Outfall Location
- Streams from Outfall/Discharge Location to 1-Mile Downstream
- NRG Texas Power LLC



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SMITHERS LAKE QUADRANGLE
TEXAS–FORT BEND CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

SMITHERS LAKE

BIG CREEK OIL FIELD

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Culture and drainage in part compiled from aerial photographs taken 1946, 1947, and 1951. Topography by plane-table surveys by U.S. Bureau of Reclamation 1947, and by the Geological Survey 1953

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Texas coordinate system, south central zone
1000-meter Universal Transverse Mercator grid, zone 15
The difference between 1927 North American Datum and North American Datum of 1983 (NAD 83) for 7.5 minute intersections is given in USGS Bulletin 1875. The NAD 83 is shown by dashed corner ticks

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Revisions shown in purple compiled from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1980

SCALE 1:24 000

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

ROAD CLASSIFICATION

Heavy-duty
Medium-duty
4 LANE | 5 LANE Light-duty
4 LANE | 5 LANE Unimproved dirt
U. S. Route
State Route

TEXAS
QUADRANGLE LOCATION

2995–243

SMITHERS LAKE, TEX.
29095-D6-TF-024

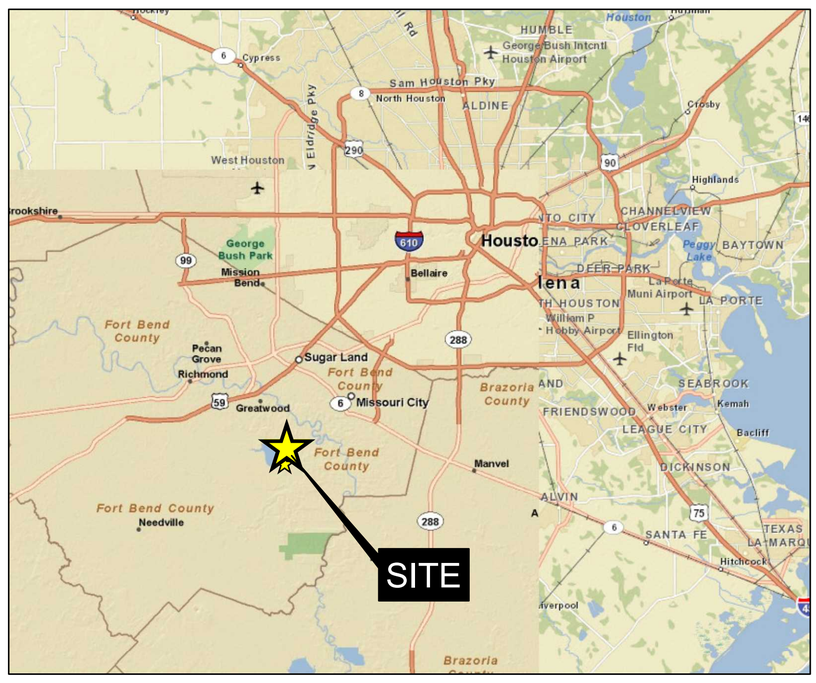
1953
PHOTOREVISED 1980
DMA 6842 I NW–SERIES V882

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1992

Figure 2
Smithers Lake 1:24,000 USGS Quadrangle

Legend

- Outfall Location
- Streams from Outfall/Discharge Location to 1-Mile Downstream
- NRG Texas Power LLC



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUGAR LAND QUADRANGLE
TEXAS—FORT BEND CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

6843 II NE (RICHMOND)
6843 II NE (ALIEF)
6843 II NW (CLODINE)
6842 IV NE (NEEDVILLE)
6842 I NE (THOMPSONS)
6842 I NW (SMITHERS LAKE)
6843 II SE (RICHMOND)
6843 II SW (MISSOURI CITY)

95° 45′ 234 000m E. 42′ 30″ 40′ 3 070 000 FEET 95° 37′ 30″
29° 37′ 30″ 3280 000m N. 660 000 FEET 29° 30′ 630 000 FEET 3245 000m E.

JESTER STATE PRISON FARM
CENTRAL STATE PRISON FARM
STATE PRISON FARM
Sugar Land
Harlem
Thompson Chapel
Crabb
Booth
Jones Cem
Sandberry Cem
Mt Moriah Ch
Mt Zion Ch
Zion Hill Ch
Pilgrim Journey Ch
Zion Ch
Rest Area
Roadside Park
Gravel Pit
Old River Lake
Horseshoe Lake
Cleveland Lake
Venetian Lake
Brooks Lake
Char Lake
Pumping Sta
Water Tank
Gaging Sta
Hull Field
Radio Tower
Sewage Disposal
New Home Cem
Substa
Jones Creek
Bullhead Bayou
Oyster Creek
Alcorn Bayou
Rabbs Bayou
Middle Bayou
Gapps Slough
Browns Bayou
Dry Creek
Horse Bayou
Private Bayou
Missouri Pacific
Southern Pacific
Atchison Topeka and Santa Fe
Brazos River
Crabb River
Pitts Road
Ransom Road
Benton Road
Meyers Road
Beretti Road
Macek Road
Rigefield Road
Jones River Rd
Pipeline
Private
Mesurance
Beltz Road
Agnes Road
Landing Strip
C S P F
ROSENBERG 4.2 MI. RICHMOND 6.8 MI.
ROSENBERG (TEX. 36) 3.7 MI.
STAFFORD 4.4 MI. TO INTERSTATE 610
3 MI. TO U.S. 90A
CLODINE 6 MI.
ADDICKS 11 MI.
6 MI. TO TEX. 1994
THOMPSONS 2.5 MI.
SMITHERS LAKE

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Planimetry by photogrammetric methods from aerial photographs taken 1968. Topography enlarged from 1:62 500 scale map of Sugar Land quadrangle dated 1955. Topography by planetable surveys. Field checked 1970

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Texas coordinate system, south central zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Fine red dashed lines indicate selected fence lines

To place on the predicted North American Datum 1983 move the projection lines 21 meters south and 23 meters east as shown by dashed corner ticks

GN MN 1°20′ 24 MILS 7° 124 MILS
UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Revisions shown in purple compiled from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1980

SCALE 1:24 000
1 MILE
7000 FEET
1 KILOMETER
CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

TEXAS
QUADRANGLE LOCATION

2995–312

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route U. S. Route State Route

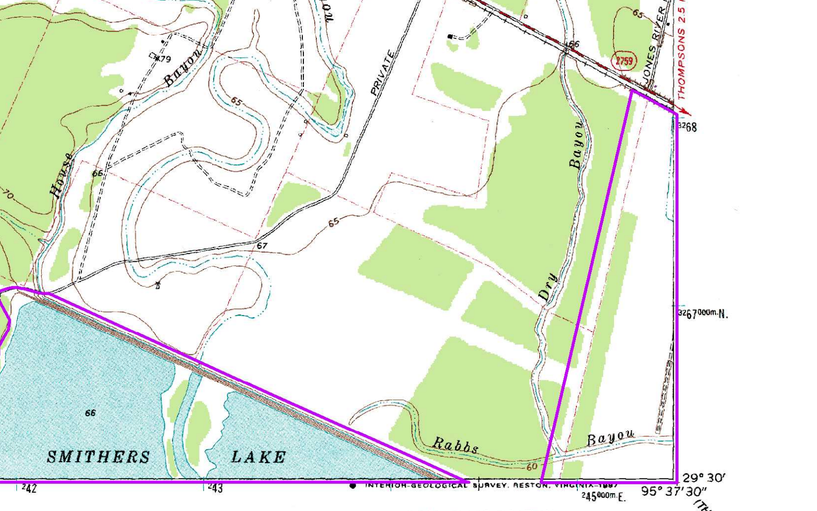
SUGAR LAND, TEX.
29095–E6–TF–024
1970
PHOTOREVISED 1980
DMA 6843 II SW–SERIES V882

INTERIOR–GEOLOGICAL SURVEY, RESTON, VIRGINIA–1980

Figure 2
Sugar Land 1:24,000 USGS Quadrangle

Legend

- Outfall Location
- Streams from Outfall/Discharge Location to 1-Mile Downstream
- NRG Texas Power LLC



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

THOMPSONS QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS, NOS/NOAA, and Texas GLO
State Reclamation Department

Culture and drainage in part compiled from aerial photographs taken 1951. Topography by plane-table surveys 1953

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Texas coordinate system, south central zone.

1000-meter Universal Transverse Mercator grid, zone 15

To place on the predicted North American Datum 1983 move the projection lines 21 meters south and 22 meters east as shown by dashed corner ticks

Revisions shown in purple compiled from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1980

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

ROAD CLASSIFICATION
Heavy-duty — 4 LANE | 6 LANE — Light-duty
Medium-duty — 4 LANE | 6 LANE — Unimproved dirt
U. S. Route — State Route

TEXAS
QUADRANGLE LOCATION

2995–244

THOMPSONS, TEX.
29095-D5-TF-024

1953
PHOTOREVISED 1980
DMA 6842 I NE–SERIES V882

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1991

Figure 2
Thompsons 1:24,000 USGS Quadrangle

Legend

- Outfall Location
- Streams from Outfall/Discharge Location to 1-Mile Downstream
- NRG Texas Power LLC

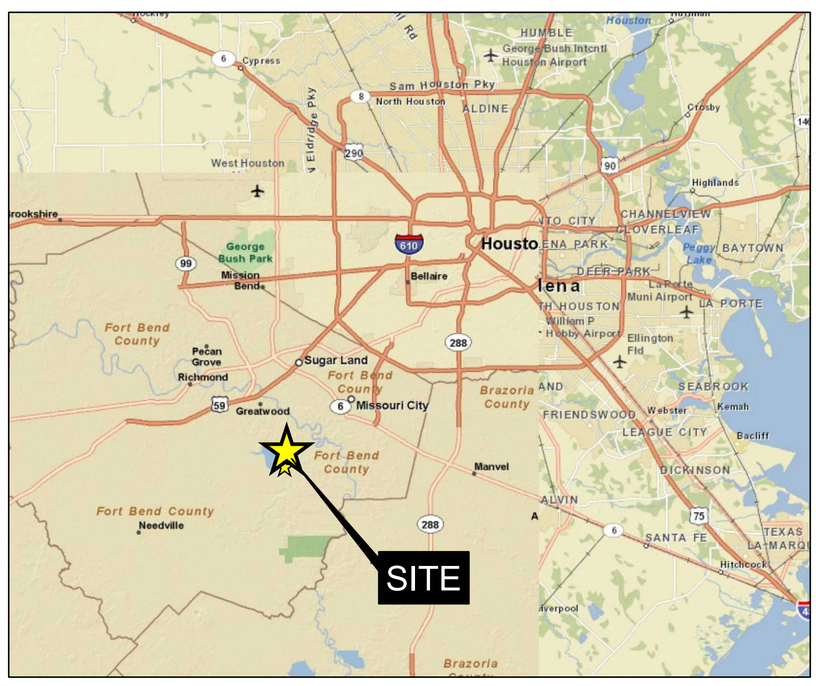
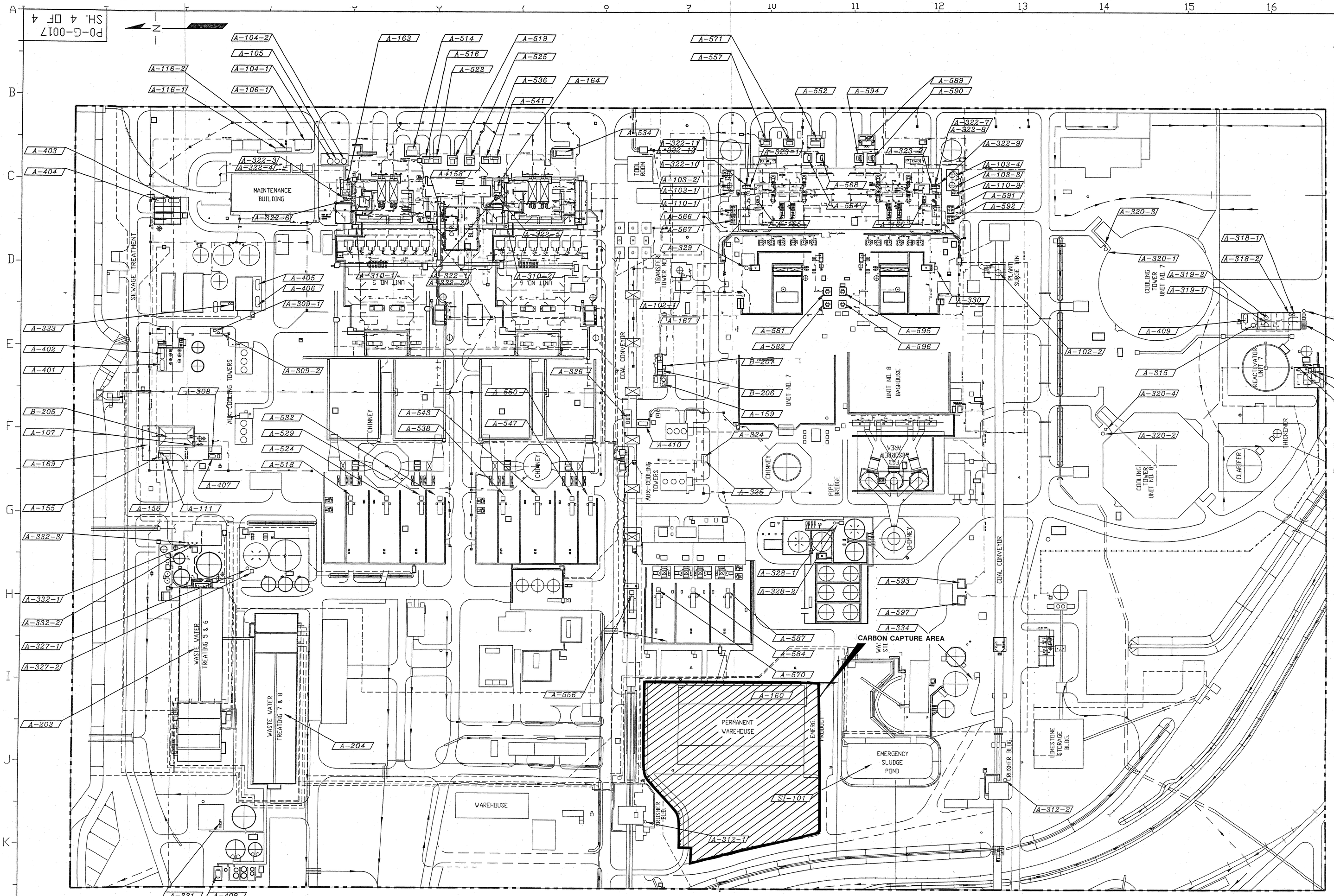




Figure 3
Site Location



ACID AND CAUSTIC STORAGE

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)●	SECONDARY CONTAINMENT VOLUME (GALLONS)●
A-401	"B" DEMINERALIZER ACID STORAGE TANK	SULFURIC ACID	12,684	2,898
A-402	"B" DEMINERALIZER CAUSTIC STORAGE TANK	CAUSTIC	12,684	2,898
A-403	UNIT 5 & 6 DEMINERALIZED ACID STORAGE TANK	SULFURIC ACID	12,684	3,234
A-404	UNIT 5 & 6 DEMINERALIZER CAUSTIC STORAGE TANK	CAUSTIC	12,684	3,234
A-405	UNIT 7 & 8 DEMINERALIZER ACID STORAGE TANK	SULFURIC ACID	12,684	3,738
A-406	UNIT 7 & 8 DEMINERALIZER CAUSTIC STORAGE TANK	CAUSTIC	12,684	3,738
A-407	UNIT 5 & 6 AUX C.T. ACID STORAGE TANK	SULFURIC ACID	6,342	5,292
A-408	UNIT 7 & 8 WASTEWATER ACID STORAGE TANK	SULFURIC ACID	11,760	11,130
A-409	PRETREATMENT ACID STORAGE TANK	SULFURIC ACID	11,760	13,650
A-410	UNIT 7 & 8 AUX. C.T. ACID TANK	SULFURIC ACID	9,500	10,100

ELECTRICAL EQUIPMENT

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)●	SECONDARY CONTAINMENT VOLUME (GALLONS)●
A-514	5 MAIN TRANSFORMER	MINERAL OIL	14,400	CURBED
A-516	5A AUXILIARY TRANSFORMER	MINERAL OIL	4,100	CURBED
A-518	5A ISOLATION TRANSFORMER	MINERAL OIL	1,085	CURBED
A-519	5A STANDBY TRANSFORMER	MINERAL OIL	8,364	CURBED
A-522	5B AUXILIARY TRANSFORMER	MINERAL OIL	4,100	CURBED
A-524	5B ISOLATION TRANSFORMER	MINERAL OIL	1,085	CURBED
A-525	5B STANDBY TRANSFORMER	MINERAL OIL	8,364	CURBED
A-529	5C ISOLATION TRANSFORMER	MINERAL OIL	1,085	CURBED
A-532	5D ISOLATION TRANSFORMER	MINERAL OIL	1,085	CURBED
A-534	6 MAIN POWER TRANSFORMER	MINERAL OIL	20,640	CURBED
A-536	6A AUXILIARY TRANSFORMER	MINERAL OIL	2,716	CURBED
A-538	5A ISOLATION TRANSFORMER	MINERAL OIL	1,085	CURBED
A-541	6B AUXILIARY TRANSFORMER	MINERAL OIL	2,716	CURBED
A-543	5B ISOLATION TRANSFORMER	MINERAL OIL	1,085	CURBED
A-547	6C ISOLATION TRANSFORMER	MINERAL OIL	1,085	CURBED
A-550	6D ISOLATION TRANSFORMER	MINERAL OIL	1,085	CURBED
A-552	7 MAIN TRANSFORMER	MINERAL OIL	16,900	CURBED
A-594	7A AUXILIARY TRANSFORMER	MINERAL OIL	3,500	CURBED
A-556	7A ISOLATION TRANSFORMER	MINERAL OIL	1,000	CURBED
A-557	7A STANDBY TRANSFORMER	MINERAL OIL	5,790	CURBED

● UNLESS OTHERWISE SPECIFIED

ELECTRICAL EQUIPMENT CONT'D

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)●	SECONDARY CONTAINMENT VOLUME (GALLONS)●
A-566	7A-1 STATION SERVICE TRANSFORMER	MINERAL OIL	1,458	CURBED
A-567	7A-2 STATION SERVICE TRANSFORMER	MINERAL OIL	1,459	CURBED
A-568	7B AUXILIARY TRANSFORMER	MINERAL OIL	3,500	CURBED
A-570	7B ISOLATION TRANSFORMER	MINERAL OIL	1,000	CURBED
A-571	7B STANDBY TRANSFORMER	MINERAL OIL	5,790	CURBED
A-581	7B-1 STATION SERVICE TRANSFORMER	MINERAL OIL	1,458	CURBED
A-582	7B-2 STATION SERVICE TRANSFORMER	MINERAL OIL	1,459	CURBED
A-584	7C ISOLATION TRANSFORMER	MINERAL OIL	1,000	CURBED
A-587	7D ISOLATION TRANSFORMER	MINERAL OIL	1,000	CURBED
A-595	8 MAIN POWER TRANSFORMER	MINERAL OIL	16,900	CURBED
A-590	8A AUXILIARY TRANSFORMER	MINERAL OIL	3,660	CURBED
A-591	8A-1 STATION SERVICE TRANSFORMER	MINERAL OIL	1,458	CURBED
A-592	8A-2 STATION SERVICE TRANSFORMER	MINERAL OIL	1,459	CURBED
A-593	8A-3 LOAD CENTER TRANSFORMER	MINERAL OIL	2,870	CURBED
A-594	8B AUXILIARY TRANSFORMER	MINERAL OIL	3,660	CURBED
A-595	8B-1 STATION SERVICE TRANSFORMER	MINERAL OIL	1,459	CURBED
A-596	8B-2 STATION SERVICE TRANSFORMER	MINERAL OIL	1,459	CURBED
A-597	8B-3 LOAD CENTER TRANSFORMER	MINERAL OIL	2,870	CURBED
A-598	138 KV TRANSFORMER	MINERAL OIL	5,231	NONE
A-599	345 KV SPARE TRANSFORMER	MINERAL OIL	17,967	NONE

OIL CONTAINING TANKS

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)●	SECONDARY CONTAINMENT VOLUME (GALLONS)●
A-101-1	COAL PLANT FUEL OIL TANK # 2	FUEL OIL	55,000 BBLS	~150,000 BBLS
A-101-2	COAL PLANT FUEL OIL TANK # 3	FUEL OIL	55,000 BBLS	~150,000 BBLS
A-102-1	UNIT 7 FUEL OIL DAY TANK	FUEL OIL	8,820	47,872
A-102-2	UNIT 8 FUEL OIL DAY TANK	FUEL OIL	8,820	47,872
A-103-1	UNIT 7 CLEAN LUBE OIL BATCH TANK	LUBE OIL	15,960	26,928
A-103-2	UNIT 7 DIRTY LUBE OIL BATCH TANK	LUBE OIL	15,960	26,928
A-103-3	UNIT 8 CLEAN LUBE OIL BATCH TANK	LUBE OIL	15,960	26,928
A-103-4	UNIT 8 DIRTY LUBE OIL BATCH TANK	LUBE OIL	15,960	26,928
A-104-1	UNIT 5 DIRTY LUBE OIL TANK	LUBE OIL	18,480	14,364
A-104-2	UNIT 6 DIRTY LUBE OIL TANK	LUBE OIL	18,480	14,364
A-105	UNIT 5 & 6 CLEAN LUBE OIL TANKS	LUBE OIL	16,170	14,364
A-106-1	UNIT 5 & 6 OIL HOUSE	LUBE OIL SOLVENTS	VARIES	CONTAINED IN BUILDING
A-107	UNIT 5 & 6 WASTE OIL TANK	WASTE OIL	2,016	115,314 (RETENTION POND)
A-110-1	UNIT 7 EMERGENCY DIESEL TANK	DIESEL OIL	250	898
A-110-2	UNIT 8 EMERGENCY DIESEL TANK	DIESEL OIL	250	4,039
A-111	DIESEL TANK AT 5 & 6 OILY WASTE	DIESEL FUEL	756	5,554
A-112	DIESEL TANK (ASH MANAGEMENT AREA)	DIESEL OIL	10,000	19,074
A-116-1	GASOLINE TANK AT UNIT 5/6 MAINTENANCE SHOP	GASOLINE	2,016	1,176
A-116-2	GASOLINE TANK AT UNIT 5/6 MAINTENANCE SHOP	GASOLINE	2,016	1,176
A-117	FIRE WATER SYSTEM DIESEL TANK	DIESEL OIL	100	NONE
A-119	GASOLINE TANK (COAL PILE AREA)	GASOLINE	1,008	1,676
A-120-1	COAL HANDLING PRODUCT OIL TANK	LUBE OIL	1,008	1,403
A-120-2	COAL HANDLING PRODUCT OIL TANK	LUBE OIL	1,008	1,403
A-123	FUEL HANDLING AREA DRUM STORAGE	PRODUCT OILS	VARIES	41,874
A-151	GASOLINE TANK (ASH MANAGEMENT AREA)	GASOLINE	5,000	19,074
A-153	MOTOR OILS (ASH MANAGEMENT AREA)	MOTOR OILS	VARIES	STORED IN COVERED SHED
A-154	DIESEL (COAL PILE AREA)	DIESEL OIL	12,012	15,558
A-155	DIESEL TANK AT 5 & 6 OILY WASTE	DIESEL OIL	2,016	5,554
A-156	GASOLINE TANK AT 5 & 6 OILY WASTE	GASOLINE	1,008	5,554
A-158	UNIT 5 & 6 EMERGENCY GEN. DIESEL TANK	DIESEL	504	898
A-159	UNIT 7 & 8 TRICELLERATOR WASTE OIL TANK	WASTE OIL	1,260	NONE
A-160	WAREHOUSE 100 DRUM STORAGE AREA	PRODUCT OIL	VARIES	STORED IN COVERED WAREHOUSE
A-163	UNIT 5 LUBE OIL RESERVOIR	LUBE OIL	15,960	NONE
A-164	UNIT 6 LUBE OIL RESERVOIR	LUBE OIL	15,960	NONE
A-165	UNIT 7 LUBE OIL RESERVOIR	LUBE OIL	15,960	NONE

OIL CONTAINING TANKS CONT'D

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)●	SECONDARY CONTAINMENT VOLUME (GALLONS)●
A-166	UNIT 8 LUBE OIL RESERVOIR	LUBE OIL	15,960	NONE
A-167	UNIT 7/8 API SEPARATOR WASTE OIL TANK	WASTE OIL	1,034	NONE
A-169	UNIT 5 & 6 HAZARDOUS WASTE DRUM STORAGE	WASTE	VARIES	SLOPED

TREATMENT SYSTEMS & LARGE BASINS

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)●	SECONDARY CONTAINMENT VOLUME (GALLONS)●
A-203	UNITS 5 & 6 WASTEWATER TREATMENT SYS. BASINS	WASTEWATER	2,700,000	NONE
A-204	UNITS 7 & 8 WASTEWATER TREATMENT SYS. BASINS	WASTEWATER	2,500,000	NONE
B-205	UNITS 5 & 6 OILY WATER TREATMENT SYS. BASINS	WASTEWATER	224,000	BELOW GRADE BASIN
B-206	UNITS 7 & 8 API SEPARATOR	WASTEWATER	75,000	BELOW GRADE BASIN
B-207	UNIT 7 & 8 WASTE OIL SUMP	WASTE OIL	5,980	NONE

CHEMICAL STORAGE

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)●	SECONDARY CONTAINMENT VOLUME (GALLONS)●
A-308	5 & 6 AUX. COOLING TOWER CHLORINE	CHLORINE	1 TON	NONE
A-309-1	UNIT #5 AUX. TOWER CHEMICAL TANK	SCALE/CORROSION INHIBITOR.	1,100	NONE
A-309-2	UNIT 5,6 AUX. C.T. CHEMICAL TANK	CORROSION INHIBITOR.	560	NONE
A-310-1	UNIT #5 OXYGEN SCAVENGER STORAGE	ELIMINOX	504	NONE
A-310-2	UNIT #6 OXYGEN SCAVENGER STORAGE	ELIMINOX	504	NONE
A-312-1	UNIT 5 & 6 CRUSHER POLYMER STORAGE TANK	DUSTBLOC SURFACTANT	3,654	NONE
A-312-2	UNIT 7 & 8 CRUSHER POLYMER STORAGE TANK	DUSTBLOC SURFACTANT	4,000	NONE
A-315	PRETREATMENT FERRIC SULFATE STORAGE TANK	FERRIC SULFATE	29,832	2,656
A-316	PRETREATMENT CHLORINE TANKS	CHLORINE (GASEOUS)	8 X 1 TON	NONE
A-317	CPRO POLYMER TANK	POLYMER	1,386	CONTAINED IN BUILDING
A-318-1	PRETREATMENT POLYMER STORAGE TANK	POLYMER	1,008	CONTAINED IN BUILDING
A-318-2	PRETREATMENT POLYMER STORAGE TANK	POLYMER	1,008	CONTAINED IN BUILDING
A-319-1	PRETREATMENT LIME STORAGE TANK	LIME SLURRY	588	CONTAINED IN BUILDING
A-319-2	PRETREATMENT LIME STORAGE TANK	LIME SLURRY	588	CONTAINED IN BUILDING
A-320-1	UNIT 7 C.T. CHEMICAL STORAGE TANK	SCALE/CORROSION INHIBITOR	3,000	NONE
A-320-2	UNIT 8 C.T. CHEMICAL STORAGE TANK	SCALE/CORROSION INHIBITOR	3,000	NONE
A-320-3	UNIT 7 C.T. CHEMICAL STORAGE TANK	SCALE/CORROSION INHIBITOR	300	NONE

CHEMICAL STORAGE CONT'D

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)●	SECONDARY CONTAINMENT VOLUME (GALLONS)●
A-320-4	UNIT 8 C.T. CHEMICAL STORAGE TANK	SCALE/CORROSION INHIBITOR	3,000	NONE
A-321	PRETREATMENT POLYMER STORAGE TANK	POLYMER	2,520	NONE
A-322-1	UNIT 6 AMMONIA STORAGE TANK	AMMONIA	252	NONE
A-322-2	UNIT 6 AMMONIA STORAGE TANK	AMMONIA	252	NONE
A-322-3	UNIT 5 AMMONIA STORAGE TANK	AMMONIA	252	NONE
A-322-4	UNIT 5 AMMONIA STORAGE TANK	AMMONIA	252	NONE
A-322-5	UNIT 6 AMMONIA CYLINDERS (2)	AMMONIA	2 X 150 LB.	NONE
A-322-6	UNIT 5 AMMONIA CYLINDERS (2)	AMMONIA	2 X 150 LB.	NONE
A-322-7	UNIT 8 AMMONIA STORAGE	AMMONIA	211	NONE
A-322-8	UNIT 8 AMMONIA STORAGE	AMMONIA	211	NONE
A-322-9	UNIT 8 AMMONIA CYLINDER	AMMONIA	150 LB.	NONE
A-322-10	UNIT 7 AMMONIA CYLINDER	AMMONIA	150 LB.	NONE
A-322-11	UNIT 7 AMMONIA STORAGE TANK	AMMONIA	211	NONE
A-322-12	UNIT 7 AMMONIA STORAGE TANK	AMMONIA	211	NONE
A-323-1	UNIT 7 OXYGEN SCAVENGER TANK	ELIMINOX	6,510	NONE
A-323-2	UNIT 8 OXYGEN SCAVENGER TANK	ELIMINOX	6,510	NONE
A-324	UNIT 7 & 8 AUX. C.T. STORAGE TANK	SCALE INHIBITOR	1,092	1,764
A-325	UNIT 7 & 8 AUX. C.T. STORAGE TANK	SCALE INHIBITOR	1,092	1,764
A-326	UNIT 7 & 8 AUX. C.T. CHLORINE TANK	CHLORINE	1 TON	N/A
A-327-1	UNITS 5 & 6 B.A. CHEMICAL TANK	SCALE INHIBITOR	1,550	NONE
A-327-2	UNITS 5 & 6 B.A. CHEMICAL TANK	SCALE INHIBITOR	400	NONE
A-328-1	UNITS 7 & 8 B.A. CHEMICAL TANK	SCALE INHIBITOR	1,550	NONE
A-328-2	UNITS 7 & 8 B.A. CHEMICAL TANK	SCALE INHIBITOR	400	NONE
A-329	UNIT 7 TEMULOSE TANK	TEMULOSE	6,500	NONE
A-330	UNIT 8 TEMULOSE TANK	TEMULOSE	6,500	NONE
A-331	UNITS 7 & 8 WASTEWATER POLYMER TANK	POLYMER	60	NONE
A-332-1	UNITS 5 & 6 WASTEWATER POLYMER TANK	POLYMER	82	NONE
A-332-2	UNITS 5 & 6 WASTEWATER POLYMER TANK	POLYMER	288	NONE
A-332-3	UNITS 5 & 6 WASTEWATER POLYMER TANK	POLYMER	288	NONE
A-333	POTABLE WATER CHLORINE	CHLORINE	2 X 150 LBS.	NONE
A-334	SCRUBBER WASTE POLYMER TANK	POLYMER	360	NONE
A-336	CPRO POLYMER TANK	POLYMER	2,444	NONE
A-337	CPRO POLYMER TANK	POLYMER	1,625	NONE

● UNLESS OTHERWISE SPECIFIED

-100 0 100 200 300 400 500
SCALE IN FEET

FIGURE 6
W.A. PARISH ELEC. GEN. STATION
INT[illegible] 'LAN

APPENDIX TR-1e
Figure 4 of 4
Facility Map

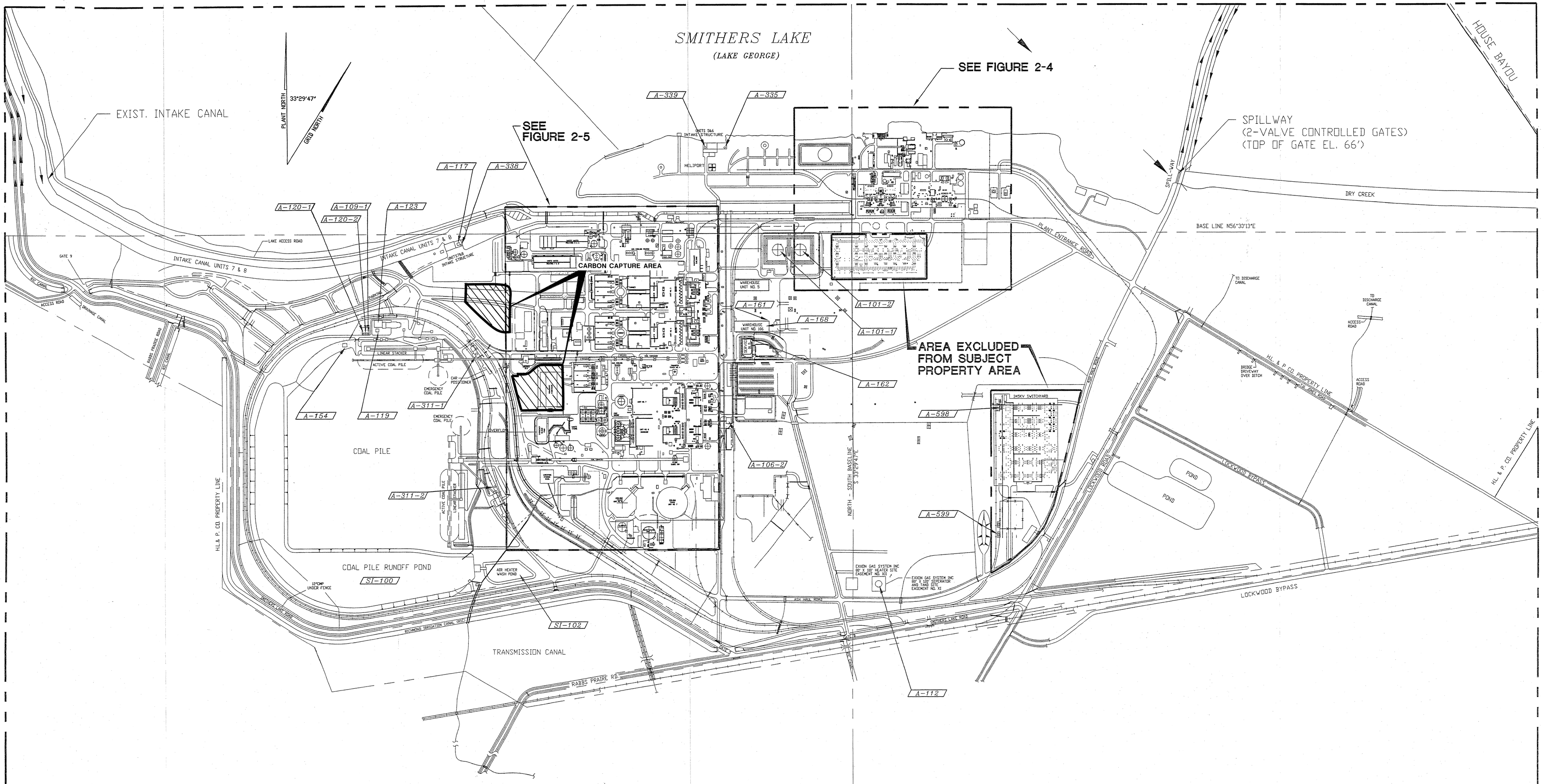
W. A. Parish Electric Generating Station
TPDES Permit No. 01038

DRAWN	1[illegible]
CHECKED	
APPROVED	
APPROVED	
DISK ID:	FILE NAME: P0G0017.DWG

100'-0"
INBER

PO-G-0017
SH. 4 OF 4

NO.	DATE	REVISION	BY	CHK.	APP.	APP.
0		ISSUED FOR FACILITY RESPONSE PLAN				



OIL CONTAINING TANKS

TANK NO.	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)•	SECONDARY CONTAINMENT VOLUME (GALLONS)•
A-101-1	COAL PLANT FUEL OIL TANK #2	FUEL OIL	55,000 BBLS	~150,000 BBLS
A-101-2	COAL PLANT FUEL OIL TANK #3	FUEL OIL	55,000 BBLS	~150,000 BBLS
A-106-2	UNIT 7 & 8 OIL HOUSE	LUBE OIL SOLVENTS	VARIES	CONTAINED IN BUILDING
A-109-1	WASTE OIL TANK (COAL PILE AREA)	WASTE OIL	294	1,596
A-112	DIESEL TANK (ASH MANAGEMENT AREA)	DIESEL OIL	10,000	19,074
A-117	FIRE WATER SYSTEM DIESEL TANK	DIESEL OIL	100	NONE
A-119	GASOLINE TANK (COAL PILE AREA)	GASOLINE	1,008	1,676
A-120-1	COAL HANDLING PRODUCT OIL TANK	LUBE OIL	1,008	1,403
A-120-2	COAL HANDLING PRODUCT OIL TANK	LUBE OIL	1,008	1,403
A-123	FUEL HANDLING AREA DRUM STORAGE	PRODUCT OILS	VARIES	41,874
A-154	DIESEL (COAL PILE AREA)	DIESEL OIL	12,012	15,558
A-161	WAREHOUSE 106 DRUM STORAGE AREA	KEROSENE OIL	VARIES	NONE
A-162	EMERGENCY DIESEL TANK FOR TELEPHONE	DIESEL OIL	100	NONE
A-168	PCB DRUM STORAGE (WAREHOUSE 106)	PCB OIL	VARIES	CURBED/COVERED

CHEMICAL STORAGE

TANK NO.	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)•	SECONDARY CONTAINMENT VOLUME (GALLONS)•
A-311-1	PHASE I DUMPER POLYMER STORAGE TANK	DUSTBLOC SURFACTANT	3,108	NONE
A-311-2	PHASE II DUMPER POLYMER STORAGE TANK	DUSTBLOC SURFACTANT	4,000	NONE
A-338	UNITS 7 & 8 INTAKE CHLORINE TANK	CHLORINE	1 TON	NONE
A-339	UNITS 5 & 6 INTAKE CHLORINE TANK	CHLORINE	6 X 1 TON	NONE
A-335	UNITS 5 & 6 INTAKE CHEMICAL TANK	SCALE INHIBITOR	3,900	NONE

ELECTRICAL EQUIPMENT

TANK NO.	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)•	SECONDARY CONATINMENT VOLUME (GALLONS)•
A-598	138 KV TRANSFORMER	MINERAL OIL	5,231	NONE
A-599	345 KV SPARE TRANSFORMER	MINERAL OIL	17,967	NONE

SURFACE IMPOUNDMENTS (SI)

TANK NO.	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)•
SI-100	COAL PILE RUNOFF POND	WASTEWATER	25,000,000
SI-102	AIR HEATER WASH POND	WASTEWATER	871,000

-350 0 350 700 1050 1400 1750
SCALE IN FEET

FIGURE 6
W.A. PARISH ELECT. GEN. STATION IN PLAN

APPENDIX TR-1e
Figure 2 of 4
Facility Map

W. A. Parish Electric Generating Station
TPDES Permit No. 01038

0		ISSUED FOR FACILITY RESPONSE PLAN					
NO.	DATE	REVISION	BY	CHK.	APP.	APP.	DISK ID•

DRAWN	1"=350'-0"
CHECKED	NUMBER
APPROVED	
APPROVED	P0-G-0015
FILE NAME• P0G0015.DWG	SH. 2 OF 4

PO-G-0016
SH. 3 OF 4

SMITHERS LAKE

N

BOAT RAMP

DOCK

A-308 A-305 A-304 A-202 A-203 A-310 A-115 A-114 A-111 A-113 A-402 A-204 A-306 A-307 A-401 A-403 A-309 A-116 A-106 A-201 A-122 A-121 A-107 A-105 A-123 A-518 A-520 A-519 A-521 A-311 A-512 A-312 A-117 A-118 A-523 A-535 A-537 A-533 A-102-1 A-525 A-524 A-511 A-120 A-119 A-103-1 A-103-2 A-103-3 A-513 A-528 A-110 A-109 A-522 A-538 A-536 A-534 A-508 A-102-2 A-539

SUMP #6 SUMP #8

F.O TRANS. PUMPS AREA

PIT C PIT B PIT G

PIPE TRENCH

LIMESTONE ROCKS

2" SP DIESEL TANK SLAB

STATION "B" 50' - 110' HEIGHT

(DRAINAGE OVERFLOW) NO OUTLET THIS AREA

CONCRETE DITCH

GRAVEL PARKING AREA

DISCHARGE CANAL

HEADWALL WINGWALLS & APRON

SLOPE RECESSED APRON & WINGWALLS

LARGE SWALE

2-10" CAPPED CSP

5/8" IR IN CONC.

CB #32

(DRAINAGE OVERFLOW) THIS AREA NO-OUTLET

PLUGGED SMALL DITCH

PAVED PARKING AREA

COURSE GRAVEL PARKING AREA ADDITION

AREA EXCLUDED FROM SUBJECT PROPERTY AREA

138 KV SWITCHYARD

OIL CONTAINING TANKS

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)*	SECONDARY CONTAINMENT VOLUME (GALLONS)*
A-101-0	FUEL OIL STORAGE TANK #1	FUEL OIL	0	60,000 BBLS
A-102-1	UNITS 1 & 2 CLEAN LUBE OIL STORAGE TANK	LUBE OIL	5,000	NONE
A-102-2	UNITS 1 & 2 DIRTY LUBE OIL STORAGE TANK	LUBE OIL	0	NONE
A-103-1	UNITS 3 & 4 CLEAN LUBE OIL BATCH TANK	LUBE OIL	0	NONE
A-103-2	UNITS 3 & 4 DIRTY LUBE OIL BATCH TANK	LUBE OIL	1,000	NONE
A-103-3	UNITS 5 & 6 DIRTY LUBE OIL BATCH TANK	LUBE OIL	1,000	NONE
A-105	GAS TURBINE DIESEL TANK	DIESEL OIL	200	1,122
A-106	MOTOR WASH AREA	OILS/SOLVENTS	VARIES	NONE
A-107	OIL WAREHOUSE	LUBE OILS	VARIES	NONE
A-109	GCNG SEPARATOR LIQUIDS TANK	DISTILLATE	2,000	20,196
A-110	TENNECO SEPARATOR LIQUIDS TANK	DISTILLATE	2,000	20,196
A-111	TRANSPORTATION DIESEL TANK	DIESEL OIL	250	1,683
A-113	TRANSPORTATION GASOLINE STORAGE TANK	GASOLINE	300	1,683
A-114	CONTRACTOR DIESEL TANK	DIESEL OIL	0	2,525
A-115	CONTRACTOR GASOLINE STORAGE	GASOLINE	0	2,016
A-116	CONTRACTOR DIESEL TANK	DIESEL	500	3,029
A-117	UNIT 1 LUBE OIL RESERVOIR	LUBE OIL	4,559	CURBED
A-118	UNIT 2 LUBE OIL RESERVOIR	LUBE OIL	4,559	CURBED
A-119	UNIT 3 LUBE OIL RESERVOIR	LUBE OIL	5,007	CURBED
A-120	UNIT 4 LUBE OIL RESERVOIR	LUBE OIL	10,325	CURBED
A-121	UNIT 4A BFP TURBINE OIL RESERVOIR	LUBE OIL	1,200	CURBED
A-122	UNIT 4B BFP TURBINE OIL RESERVOIR	LUBE OIL	1,200	CURBED
A-123	GAS TURBINE LUBE OIL RESERVOIR	LUBE OIL	1,500	NONE

* UNLESS OTHERWISE SPECIFIED

TREATMENT SYSTEMS & LARGE BASINS

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)*	SECONDARY CONTAINMENT VOLUME (GALLONS)*
A-201	ASBESTOS STORAGE BUILDING	ASBESTOS	NA	CONTAINED IN BUILDING
A-202	API SEPARATOR	WASTEWATER	500,000	NONE
A-203	STORMWATER SURGE TANK	WASTEWATER	500,000	NONE
A-204	TRICELLERATOR	WASTEWATER	12,000	NONE

* UNLESS OTHERWISE SPECIFIED

CHEMICAL STORAGE

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)*	SECONDARY CONTAINMENT VOLUME (GALLONS)*
A-304	"B" INTAKE SCALE INHIBITOR TANK	CALGON THRUGUARD 800	3,990	NONE
A-305	"A" INTAKE SCALE INHIBITOR TANK	CALGON THRUGUARD 800	2,016	NONE
A-306	UNITS 1 & 2 OXYGEN SCAVENGER TANK	ELMINOX	550	6,30
A-307	UNITS 1 & 2 OXYGEN SCAVENGER TANK	MORPHOLINE	550	6,30
A-310	AUX. C.T. CHEMICAL STORAGE TANK	SCALE/CORROSION INHIBITOR	1,008	420
A-311	UNIT #4 OXYGEN SCAVENGER STORAGE TANK	ELMINOX	550	NONE
A-312	UNIT #3 OXYGEN SCAVENGER STORAGE TANK	MORPHOLINE	550	NONE
		SODIUM HYPOCHLORITE	5	NO

* UNLESS OTHERWISE SPECIFIED

ACID AND CAUSTIC STORAGE

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)*	SECONDARY CONTAINMENT VOLUME (GALLONS)*
A-401	DEMINERALIZER ACID STORAGE TANK	SULFURIC ACID	12,684	NONE
A-402	AUX. C.T. ACID STORAGE TANK	DILUTE ACID	5,992	1,974
A-403	DEMINERALIZER CAUSTIC STORAGE TANK	CAUSTIC	12,684	NONE

* UNLESS OTHERWISE SPECIFIED

ELECTRICAL EQUIPMENT

TANK	DESCRIPTION	SUBSTANCE STORED (OIL AND HAZARDOUS SUBSTANCES)	MAXIMUM Capacity (GALLONS)*	SECONDARY CONTAINMENT VOLUME (GALLONS)*
A-508	GAS TURBINE TRANSFORMER	MINERAL OIL	5,962	NONE
A-511	3A MAIN POWER TRANSFORMER	MINERAL OIL	9,334	NONE
A-512	4 AUXILIARY TRANSFORMER	MINERAL OIL	1,620	NONE
A-513	B STANDBY TRANSFORMER	MINERAL OIL	3,550	NONE
A-518	2A AUXILIARY TRANSFORMER	MINERAL OIL	1,628	NONE
A-519	2B AUXILIARY TRANSFORMER	MINERAL OIL	1,628	NONE
A-520	1A AUXILIARY TRANSFORMER	MINERAL OIL	1,628	NONE
A-521	1B AUXILIARY TRANSFORMER	MINERAL OIL	1,628	NONE
A-522	A STANDBY TRANSFORMER	MINERAL OIL	5,560	NONE
A-523	C STANDBY TRANSFORMER	MINERAL OIL	4,230	NONE
A-524	3B AUXILIARY TRANSFORMER	MINERAL OIL	1,700	NONE
A-525	3A AUXILIARY TRANSFORMER	MINERAL OIL	1,700	NONE
A-528	4 MAIN POWER TRANSFORMER	MINERAL OIL	11,870	NONE
A-533	2A MAIN POWER TRANSFORMER	MINERAL OIL	3,646	NONE
A-534	1C MAIN TRANSFORMER	MINERAL OIL	3,650	NONE
A-535	2C MAIN POWER TRANSFORMER	MINERAL OIL	3,650	NONE
A-536	1B MAIN TRANSFORMER	MINERAL OIL	3,650	NONE
A-537	2B MAIN POWER TRANSFORMER	MINERAL OIL	3,650	NONE
A-538	1A MAIN TRANSFORMER	MINERAL OIL	3,650	NONE
A-539	26-138 KV - OCB'S	MINERAL OIL	3,210 EA.	NONE

* UNLESS OTHERWISE SPECIFIED

-60 0 60 120 180 240 300
SCALE IN FEET

FIGURE 6
W.A. PARISH ELECT. GEN. STATION
INT PLAN

APPENDIX TR-1e
Figure 3 of 4
Facility Map

W. A. Parish Electric Generating Station
TPDES Permit No. 01038

DRAWN	
CHECKED	
APPROVED	
APPROVED	
DISK ID	FILE NAME: PO0016.DWG

'=60'-0"
NUMBER
PO-G-0016
SH. 3 OF 4

NO.	DATE	REVISION	BY	CHK.	APP.	APP.
0		ISSUED FOR FACILITY RESPONSE PLAN				

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PO-G-0014
SH. 1 OF 4

OIL CONTAINING TANKS

TANK NO.	DESCRIPTION	SUBSTANCE STORED	MAXIMUM CAPACITY (gallons)•	CONTAINMENT VOLUME (gallons)•
A-108	WASTE OIL TANK (ASH MANAGEMENT AREA)	WASTE OIL	94	1,596
A-112	DIESEL TANK (ASH MANAGEMENT AREA)	DIESEL OIL	10,000	19,074
A-151	GASOLINE TANK (ASH MANAGEMENT AREA)	GASOLINE	5,000	19,074
A-153	MOTOR OILS (ASH MANAGEMENT AREA)	MOTOR OILS	VARIES	STORED IN COVERED SHED
A-157	UTT SEPARATOR LIQUIDS TANK AT INTAKE CANAL	DISTILLATE	8,820	8,700

• UNLESS OTHERWISE SPECIFIED

N

FM 762

UNDEVELOPED LAND

PRIVATE DAD

END OF SMITHERS LAKE DAM @ NATURAL GRADE

HOUSE BAYOU

EXIST. H L & P PROPERTY LINE

DRY CREEK

WEIR (2-VALVE CONTROLLED GATES) (TOP OF WEIK EL. 65')

3-30"RCP & 1-60"CS TANK CYLINDER

FROM RICHMOND RICE FIELDS TO INTAKE CANAL

CLASS III LANDFILL (CONSTRUCTION DEBRIS)

L.M. DIKE

21"RCP

2-36"RCP

LAKE ACCESS ROAD

UNDEVELOPED LAND

21"RCP

SMITHERS LAKE ROAD

2-36"RCP

FROM RICHMOND RICE FIELDS TO INTAKE CANAL

SMITHERS LAKE

L.M. DIKE

SEE FIGURE 2-3

A-157

18"CSP @ ENTERENCE TO GAS METERING STATION

21"CMP

1-14"RCP (DISCHARGE IN INTAKE CANAL UNDER ROAD)

EXIST. INTAKE CANAL

UNDEVELOPED LAND

UNDEVELOPED LAND

GEORGE RANCH (PROPERTY UNDEVELOPED)

GOLF COURSE

OPENING UNDER RR

2-RECT. CULVERTS UNDER THOMPSON ROAD

24" RCP UNDER ROADWAY TO CORTEZ RD

OPENING UNDER RR

ASH LANDFILL

ASH LANDFILL

STORMWATER RETENTION POND

CLASS II LANDFILL (CELL 1B)

CORTEZ RD

STORMWATER RETENTION POND

BOTTOM ASH LANDFILL

RABBS BAYOU

RABBS BAYOU

BRIDGE 1-36" & 1-42"RCP

ASH LANDFILL (CLOSED)

A-112

A-151

OVERFLOW POND (CLOSED)

FUTURE ASH DISPOSAL AREA

PUMP FACILITY FROM OVERFLOW POND TO LAKE

BRIDGE 3-48"CMP

ASH UNLOAD BLD.

LAKE DAM ROAD

A-108

36"RCP W/HEAD & WING WALLS TO RABBS BAYOU (BLOCKED)

BRIDGE

A-153

DITCH BETWEEN DAM & ASH HAUL ROAD DRAIN TO HOUSE BAYOU

H. L. & P. EASEMENT

UNDEVELOPED LAND

SMITHERS LAKE
(LAKE GEORGE)

HOUSE BAYOU

SPILLWAY (2-VALVE CONTROLLED GATES) (TOP OF GATE EL. 66')

DRY CREEK

COAL PILE

COAL PILE RUNOFF POND

TRANSMISSION CANAL

MISSOURI PACIFIC RR

LOCKWOODS BYPASS

RESIDENTIAL PROPERTY

POND

POND

OPENING UNDER BRIDGE

BRIDGE

UNDEVELOPED LAND

Production, Maintenance and Material Handling Areas

Wastewater Treatment Systems

Material Storage and Material Disposal Area

-700 0 700 1400 2100 2800 3500

SCALE IN FEET

FIGURE 6
W.A. PARISH ELECT. GEN. STATION IN PLAN

APPENDIX TR-1e
Figure 1 of 4
Facility Map

W. A. Parish Electric Generating Station
TPDES Permit No. 01038

DRAWN	1"=700'-0"
CHECKED	
APPROVED	
APPROVED	
DISK ID:	FILE NAME: PDG0014.DWG

J NUMBER

PO-G-0014
SH. 1 OF 4

NO.	DATE	REVISION	BY	CHK.	APP.	APP.
0		ISSUED FOR FACILITY RESPONSE PLAN				

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2.a. List any physical, chemical, and/or biological treatment process that you use for the treatment of wastewater at your facility. Include a description of each treatment process starting with initial treatment and finishing with the discharge point.

System and Outfall	Unit Dimensions	Processes
Outfall 001 Cooling Reservior	Smithers Lake ≈2,430 acres ≈16,300 acre-feet	Heat Dissipation Equalization
Outfall 002 Coal Pile Runoff Treatment System	Coal Pile Runoff Pond ≈76 acres ≈76.7 acre-feet	Sedimentation
Outfall 003 Circulating Water System	Discharge Canal ≈2500 ft. in length	Heat Dissipation Neutralization*
Outfall 004 Stormwater Treatment System	Cell 2A ≈6.1 acre pond ≈6.8 million gallons	Equalization Sedimentation
	Cell 1B ≈2.1 acre pond ≈2.2 million gallons	Equalization Sedimentation
	Cell 3 ≈5.9 acre pond ≈4.8 million gallons	Equalization Sedimentation
Outfall 005 1-4 Oily Waste Treatment System	Stormwater Tank ≈45 ft. diam. x 42 ft. ≈500,000 gallons	Equalization
	API Separator ≈20 ft. x 15 ft. x 8 ft. ≈18,000 gallons	Sedimentation Flotation Skimming*
	Tricellerator ≈16 ft. diam. x 12 ft. ≈18,000 gallons	Dissolved Air Flotation Skimming Coagulation* Flocculation*
Outfall 006 1-4 Auxiliary Cooling Tower System	Cooling Tower Basin 57ft. x 29 ft. x 5 ft. 62,000 gallons	Sedimentation Neutralization

Appendix TR-2a
Cross Reference Technical Report, page 3

System and Outfall	Unit Dimensions	Processes
Outfall 103 1-6 Metal Cleaning Waste Treatment System	5/6 West OAC Basin ≈99 ft. x 31 ft. x 10 ft. ≈230,000 gallons	Equalization
	5/6 East OAC Basin ≈99 ft. x 31 ft. x 10 ft. ≈230,000 gallons	Equalization
	5/6 North MCW Basin ≈271 ft. x 48 ft. x 10 ft. ≈973,000 gallons	Equalization Aeration* Chemical Precipitation*
	5/6 South MCW Basin ≈271 ft. x 50 ft. x 10 ft. ≈1,014,000 gallons	Equalization Aeration* Chemical Precipitation*
	MCW Primary Reaction Tank ≈6 ft. diam. x 8 ft.	pH Adjustment Mixing
	MCW Secondary Reaction Tank ≈6 ft. diam. x 8 ft.	pH Adjustment Mixing
	MCW Clarifer ≈28 ft. diam. x 13.5 ft. ≈62,000 gallons	Sedimentation Skimming Coagulation* Flocculation* Chemical Precipitation*
	Final pH Adjustment Tank No. 1 ≈12 ft. diam. x 5.5 ft.	Neutralization
	Final pH Adjustment Tank No. 2 ≈12 ft. diam. x 5.5 ft.	Neutralization

Appendix TR-2a
Cross Reference Technical Report, page 3

System and Outfall	Unit Dimensions	Processes
Outfall 203 1-6 Low Volume Treatment System	5/6 West LVW Basin ≈99 ft. x 37 ft. x 10 ft. ≈274,000 gallons	Equalization
	5/6 East LVW Basin ≈99 ft. x 37 ft. x 10 ft. ≈274,000 gallons	Equalization
	7/8 West LVW Basin ≈99 ft. x 44.5 ft. x 12.6 ft. ≈424,000 gallons	Equalization
	7/8 East LVW Basin ≈99 ft. x 44.5 ft. x 12.6 ft. ≈415,000 gallons	Equalization
	5/6 North MCW Basin ≈271 ft. x 48 ft. x 10 ft. ≈973,000 gallons	Equalization
	5/6 South MCW Basin ≈271 ft. x 50 ft. x 10 ft. ≈1,014,000 gallons	Equalization
	LVW Primary Reaction Tank ≈8 ft. diam. x 9 ft.	pH Adjustment Mixing
	LVW Secondary Reaction Tank ≈8 ft. diam. x 9 ft.	pH Adjustment Mixing
	LVW Clarifer ≈40 ft. diam. x 13.5 ft. ≈127,000 gallons	Sedimentation Skimming Coagulation* Flocculation*
	MCW Primary Reaction Tank ≈45 ft. diam. x 15 ft. ≈160,000 gallons	pH Adjustment Mixing
	MCW Secondary Reaction Tank ≈6 ft. diam. x 8 ft.	pH Adjustment Mixing
	MCW Clarifier ≈28 ft. diam. x 13.5 ft. ≈62,000 gallons	Sedimentation Skimming Coagulation* Flocculation*
	5-8 Primary Reaction Tank	pH Adjustment Mixing
	5-8 Secondary Reaction Tank	pH Adjustment Mixing
	5-8 Clarifer ≈60 ft. diam. x 10 ft. ≈211,000 gallons	Coagulation* Flocculation* Sedimentation*
	Final pH Adjustment Tank No. 1 ≈12 ft. diam. x 5.5 ft.	Neutralization
	Final pH Adjustment Tank No. 2 ≈12 ft. diam. x 5.5 ft.	Neutralization

Appendix TR-2a
Cross Reference Technical Report, page 3

System and Outfall	Unit Dimensions	Processes
Outfall 303 5/6 Oily Waste Treatment System	Oil Separator ≈82 ft. x 45 ft. x 10 ft. ≈151,000 gallons	Sedimentation Floatation Skimming*
	Tricellerator ≈9.4 ft. diam. x 10 ft. ≈5,000 gallons	Dissolved Air Flotation Skimming Coagulation* Flocculation*
Outfall 403 5/6 Auxiliary Cooling Tower Water System	Cooling Tower Basin ≈61.5 ft. x 40.5 ft.	Sedimentation Neutralization
Outfall 503 Main Cooling Tower System	Unit 7 Cooling Tower Basin ≈48 ft. x 38 ft.	Sedimentation Neutralization
	Unit 8 Cooling Tower Basin ≈60 ft. x 42 ft.	Sedimentation Neutralization
Outfall 603 7/8 Metal Cleaning Waste Treatment System	7/8 North MCW Basin ≈47.5 ft. x 320 ft. x 12.6 ft. ≈1 million gallons	Equalization Aeration* Chemical Precipitation*
	7/8 South MCW Basin ≈47.5 ft. x 320 ft. x 12.6 ft. ≈1million gallons	Equalization Aeration* Chemical Precipitation*
	7/8 MCW Primary Reaction Tank ≈7.5 ft. diam. x 7.5 ft.	pH Adjustment Mixing
	7/8 MCW Secondary Reaction Tank ≈7.5 ft. diam. x 7.5 ft.	ph Adjustment Mixing
	7/8 MCW Clarifier ≈32 ft. diam. x 22 ft. ≈105,000 gallons	Sedimentation Skimming Coagulation* Flocculation* Chemical Precipitation*
	7/8 Final pH Adjustment Tank No. 1 ≈12 ft. diam. x 22 ft. ≈105,000 gallons	Neutralization
	7/8 Final pH Adjustment Tank No. 2 ≈12 ft. diam. x 22 ft. ≈105,000 gallons	Neutralization

Appendix TR-2a
Cross Reference Technical Report, page 3

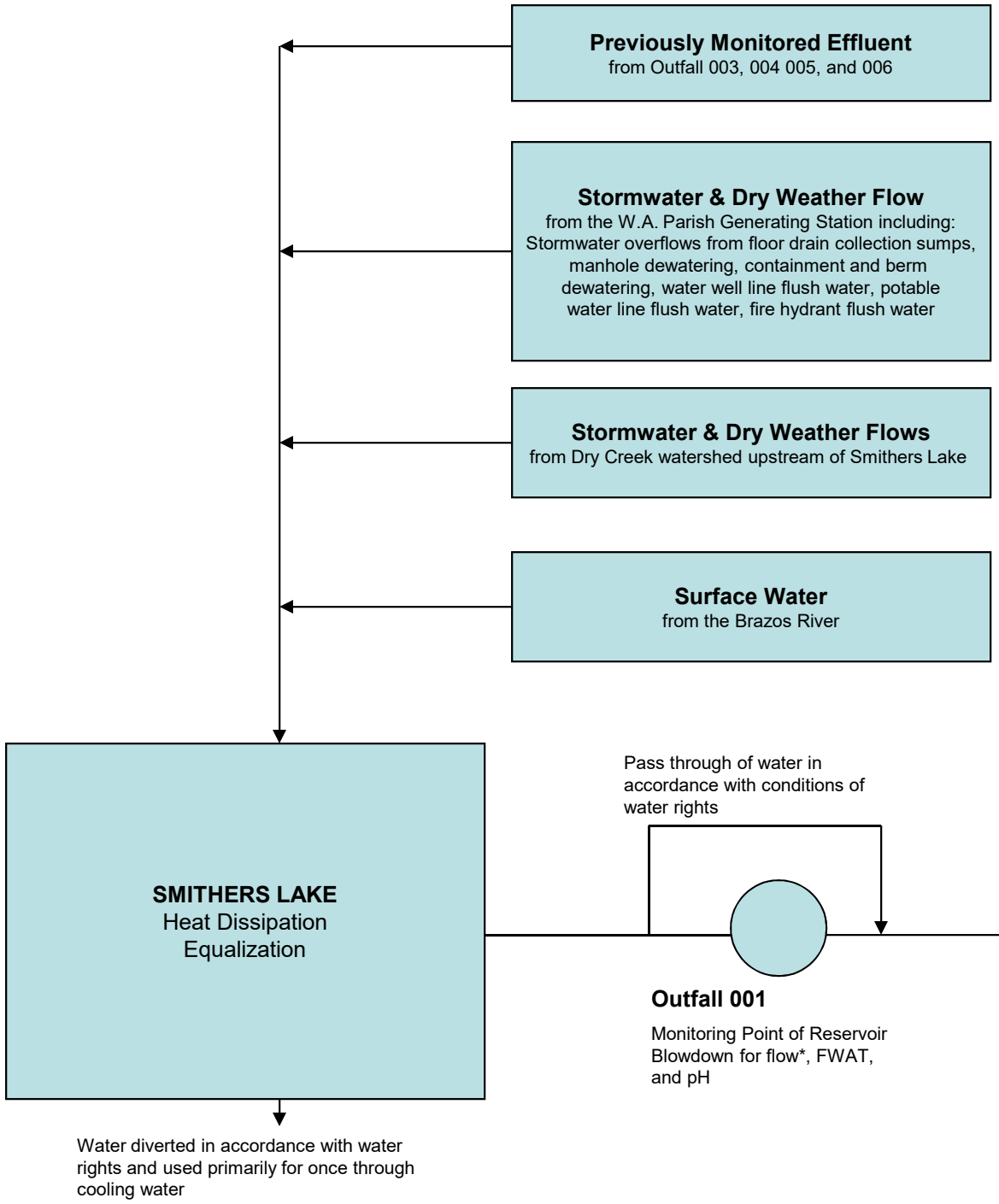
System and Outfall	Unit Dimensions	Processes
Outfall 703 7/8 Low Volume Treatment System	7/8 West LVW Basin ≈99 ft. x 44.5 ft. x 12.6 ft. ≈424,000 gallons	Equalization
	7/8 East LVW Basin ≈99 ft. x 44.5 ft. x 12.6 ft. ≈415,000 gallons	Equalization
	7/8 North MCW Basin ≈47.5 ft. x 320 ft. x 12.6 ft. ≈1 million gallons	Equalization
	7/8 South MCW Basin ≈47.5 ft. x 320 ft. x 12.6 ft. ≈1 million gallons	Equalization
	7/8 LVW Primary Reaction Tank ≈9 ft. diam. x 10 ft. ≈4,500 gallons	pH Adjustment Mixing
	7/8 LVW Secondary Reaction Tank ≈9 ft. diam. x 10ft. ≈4,500 gallons	ph Adjustment Mixing
	7/8 LVW Clarifier ≈45 ft. diam. x 14.6 ft. ≈173,000 gallons	Sedimentation Skimming Coagulation* Flocculation*
	7/8 MCW Primary Reaction Tank ≈7.5 ft. diam x 7.5 ft. ≈2,250 gallons	pH Adjustment Mixing
	7/8 MCW Secondary Reaction Tank ≈7.5 ft. diam. x 7.5 ft. ≈2,250 gallons	pH Adjustment Mixing
	7/8 MCW Clarifier ≈31.9 ft. diam. x 21.3 ft. ≈127,000 gallons	Sedimentation Skimming Coagulation* Flocculation*
	7/8 Final pH Adjustment Tank No. 1 ≈12 ft. diam. x 8.5 ft. ≈6,760 gallons	Neutralization
	7/8 Final pH Adjustment Tank No. 2 ≈12 ft. diam. x 8.5 ft. ≈6,760 gallons	Neutralization

Outfall 803 7/8 Oily waste Treatment System	API Separator ≈45 ft. x 12.2 ft. x 8 ft. ≈33,000 gallons	Sedimentation Floatation Skimming*
	Tricellerator ≈9 ft. diam. x 8 ft. ≈3,800 gallons	Dissolved Air Floatation Skimming Coagulation* Flocculation*

Appendix TR-2a
Cross Reference Technical Report, page 3

System and Outfall	Unit Dimensions	Processes
Outfall 903 Gas Side Sewage Treatment System	Aeration Chamber ≈20 ft. x 8 ft. x 8 ft. ≈9,600 gallons	Extended Aeration/Activated Sludge
	Clarifier ≈8 ft. x 8 ft. x 5 ft. ≈2,400 gallons	Sedimentation
	Chlorine Contact Chamber No. 1 ≈4 ft. diam. x 5 ft. ≈470 gallons	Disinfection
	Chlorine Contact Chamber No. 2 ≈4 ft. diam. x 5 ft. ≈470 gallons	Disinfection
	Chlorine Contact Chamber No. 3 ≈4 ft. diam. x 5 ft. ≈470 gallons	Disinfection
Outfall 113 Coal Side Sewage Treatment System	Combinutor	Screening Grinding
	Surge Chamber ≈20,000 gallons	Equalization
	Aeration Chamber ≈30,000 gallons	Extended Aeration/Activated Sludge
	Settling Chamber ≈6,200 gallons	Sedimentation
	Chlorine Contact Chamber ≈900 gallons	Disinfection
	Sludge Holding Chamber ≈4,000 gallons	N/A
Outfall 123 Carbon Capture System Cooling Tower System	CCS Cooling Tower Basin ≈48 ft. x 38 ft.	Sedimentation Neutralization

* Treatment process may be used based on effluent characteristics.



Notes:

- Continuous Flow – however during drought conditions or rainfall events, blowdown may be dicontinued.
- Two year average of DLY AVG FLOW = 2.717MGD

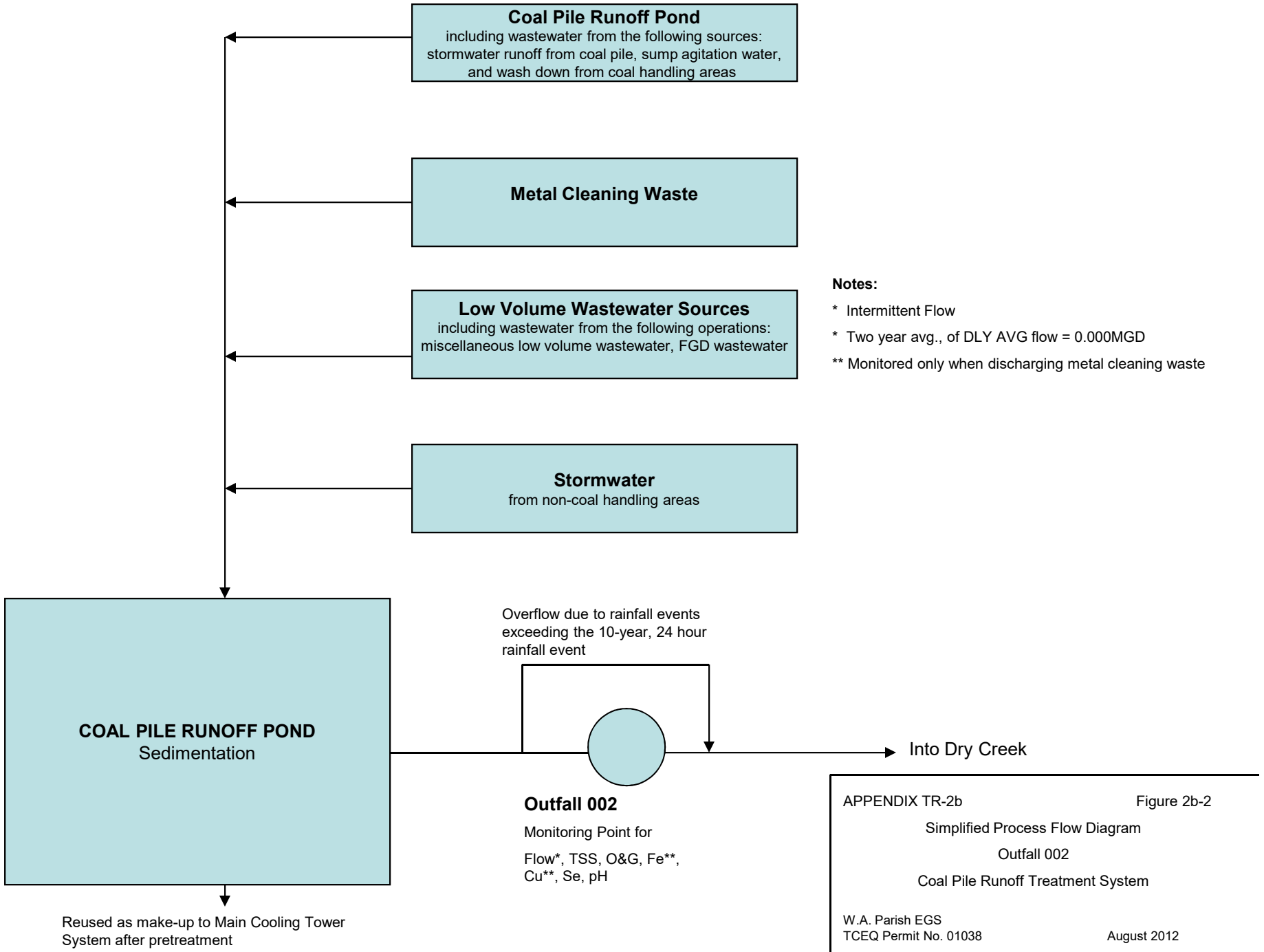
APPENDIX TR-2b Figure 2b-1

Simplified Process Flow Diagram

Outfall 001

Cooling Reservoir/Reservoir Blowdown

W.A. Parish EGS
TCEQ Permit No. 01038 August 2012



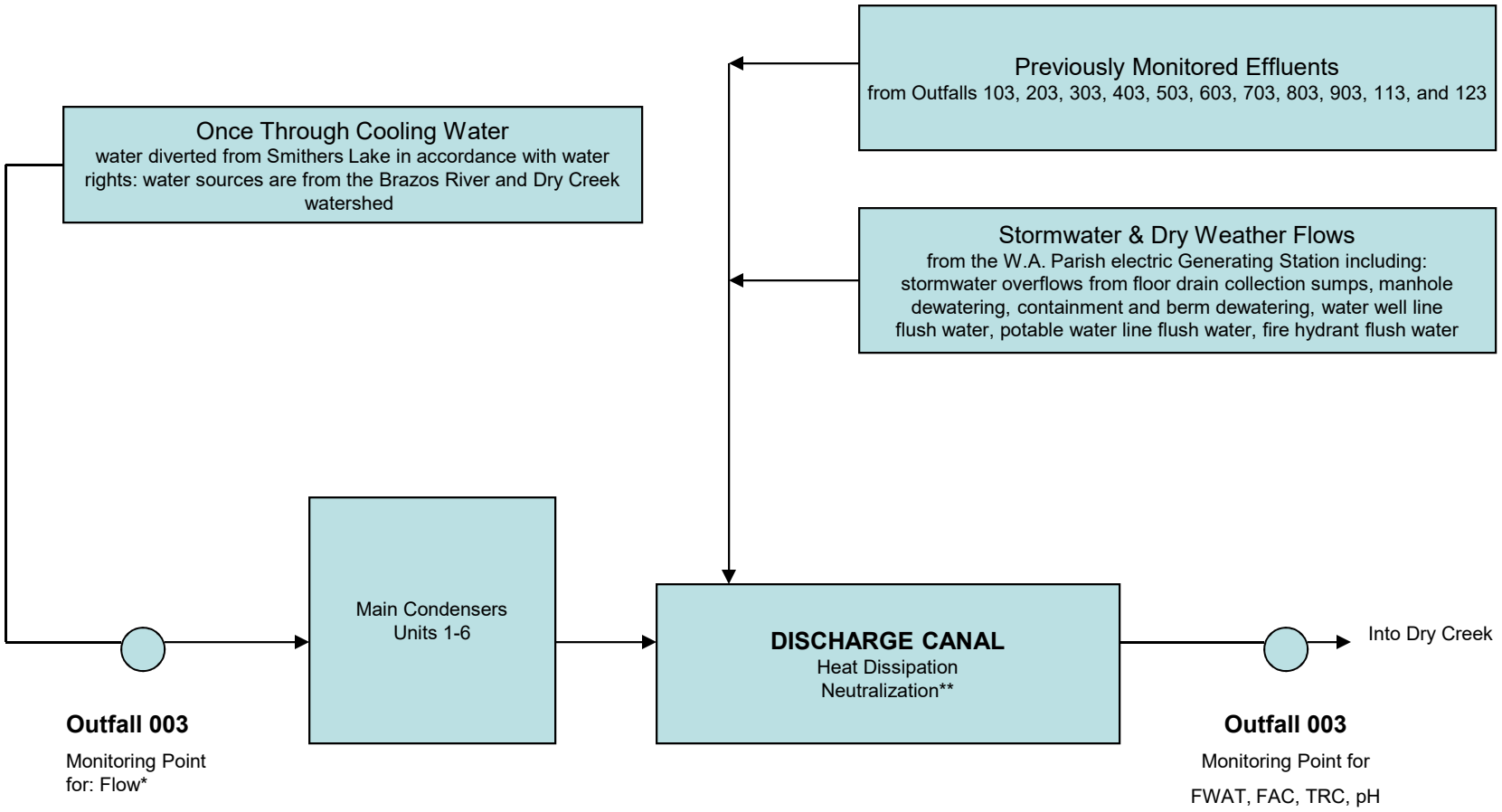
APPENDIX TR-2b Figure 2b-2

Simplified Process Flow Diagram

Outfall 002

Coal Pile Runoff Treatment System

W.A. Parish EGS
TCEQ Permit No. 01038 August 2012



Notes:

* Continuous Flow

* Two year average of DLY AVG Flow = 1325.668 MGD

* Flow estimated based on the numbers of hours each circulating pump for Units 1-6 is operated and the pump curve for these pumps. Additionally, the flow from Outfall 503 is added in.

** Treatment process may be used based on influent characteristics

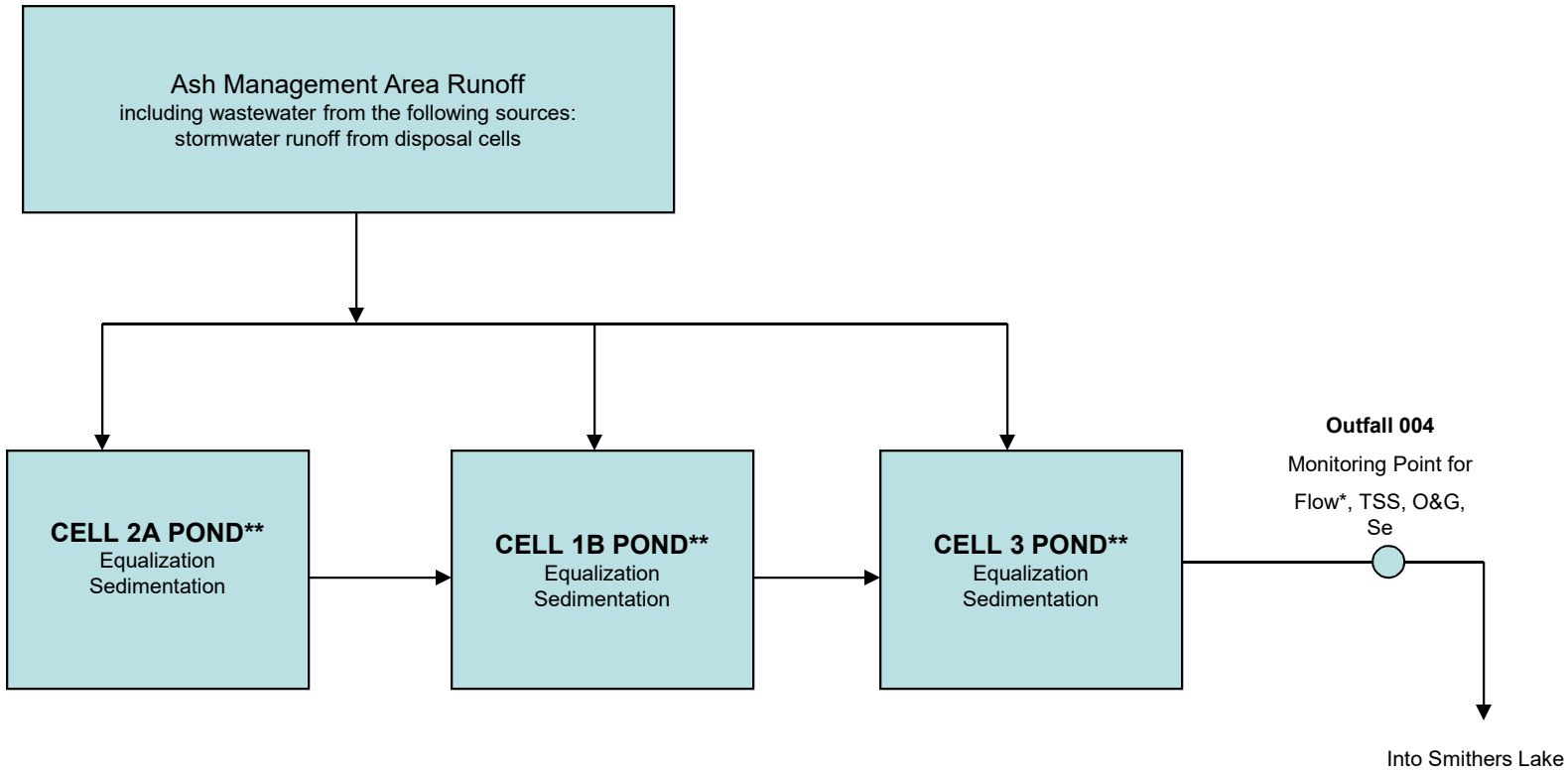
APPENDIX TR-2b Figure 2b-3

Simplified Process Flow Diagram

Outfall 003

Circulating Water System/Once Through Cooling Water

W.A. Parish EGS
TCEQ Permit No. 01038 August 2012



Notes:

* Intermittent Flow

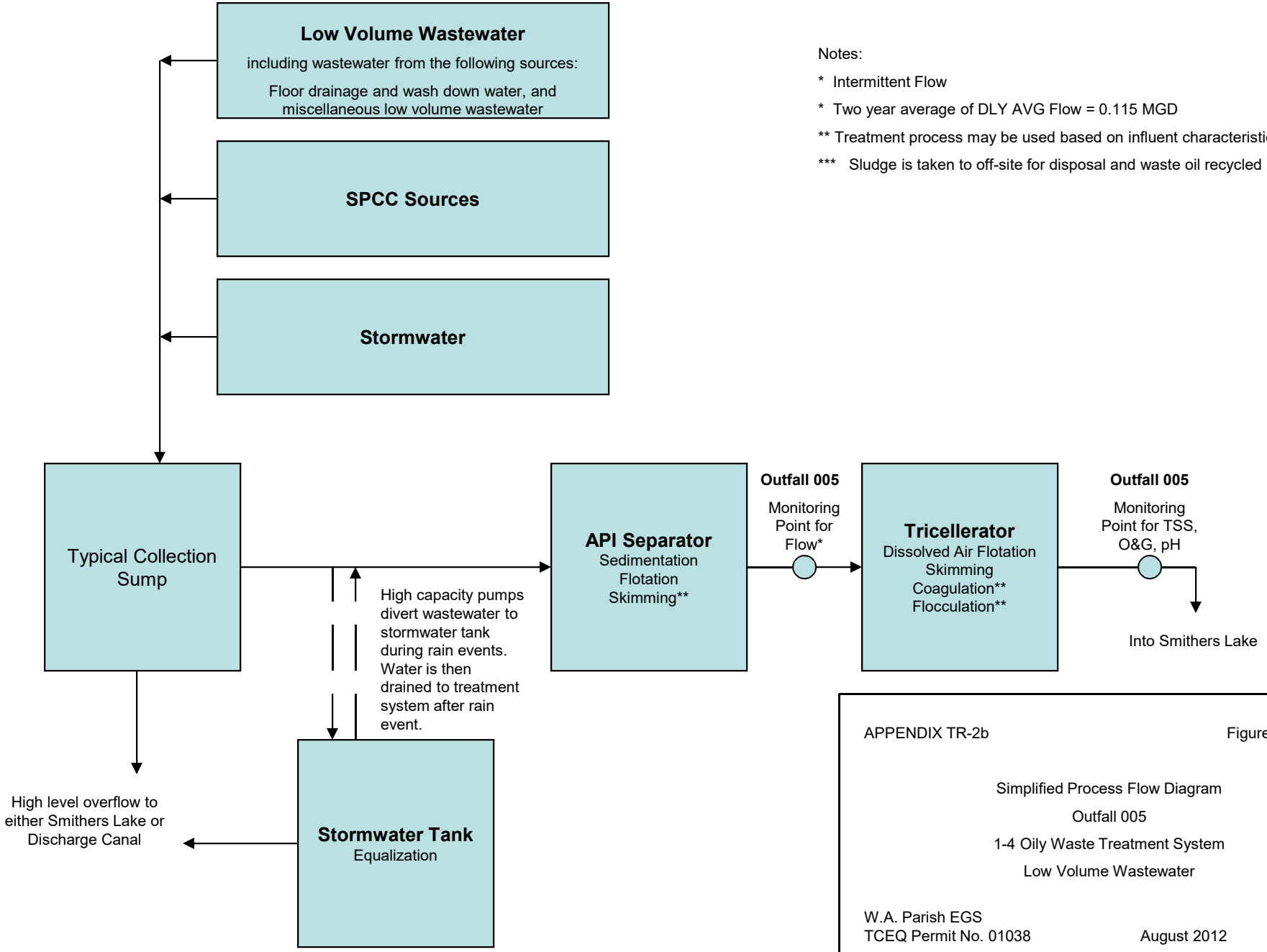
* Two year average of DLY AVG Flow = 0.861 MGD

** These ponds are low spots in disposal cells where runoff collects during rainfall

APPENDIX TR-2b Figure 2b-4

Simplified Process Flow Diagram
Outfall 004
Stormwater Treatment System/Ash Management Area Runoff

W.A. Parish EGS
TCEQ Permit No. 01038 August 2012



Notes:

* Intermittent Flow

* Two year average of DLY AVG Flow = 0.115 MGD

** Treatment process may be used based on influent characteristics

*** Sludge is taken to off-site for disposal and waste oil recycled

APPENDIX TR-2b Figure 2b-5

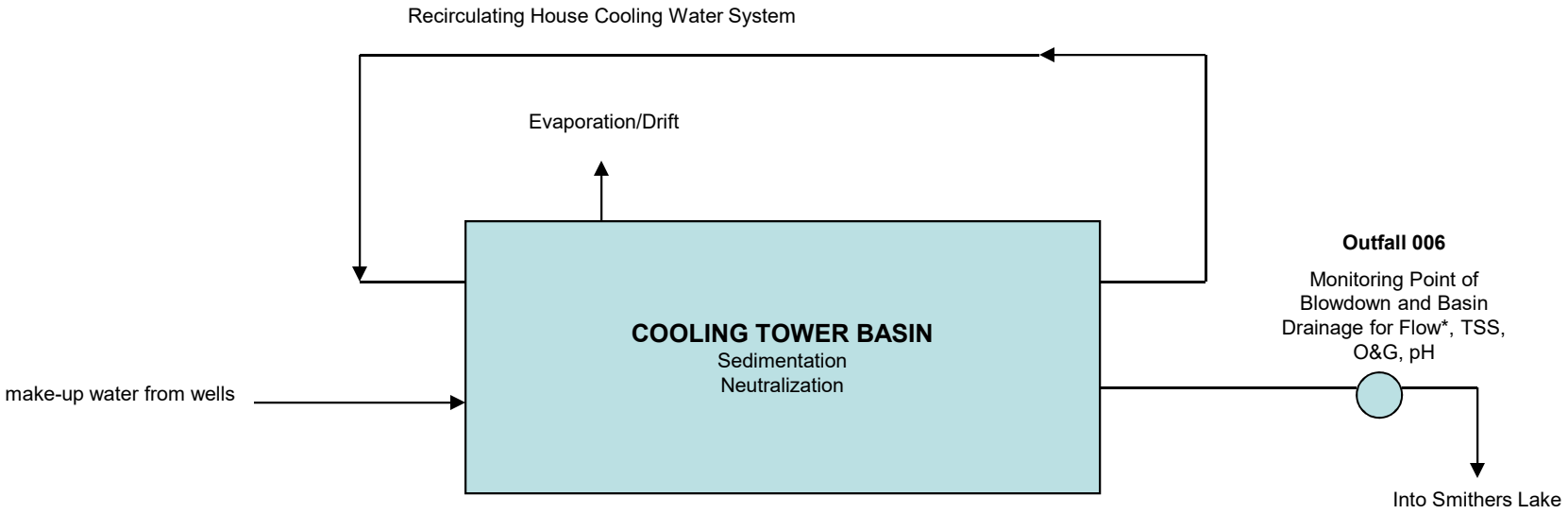
Simplified Process Flow Diagram

Outfall 005

1-4 Oily Waste Treatment System

Low Volume Wastewater

W.A. Parish EGS
TCEQ Permit No. 01038 August 2012



Notes:

* Intermittent Flow
* Two year average od DLY AVG Flow = 0.048 MGD

APPENDIX TR-2b Figure 2b-6

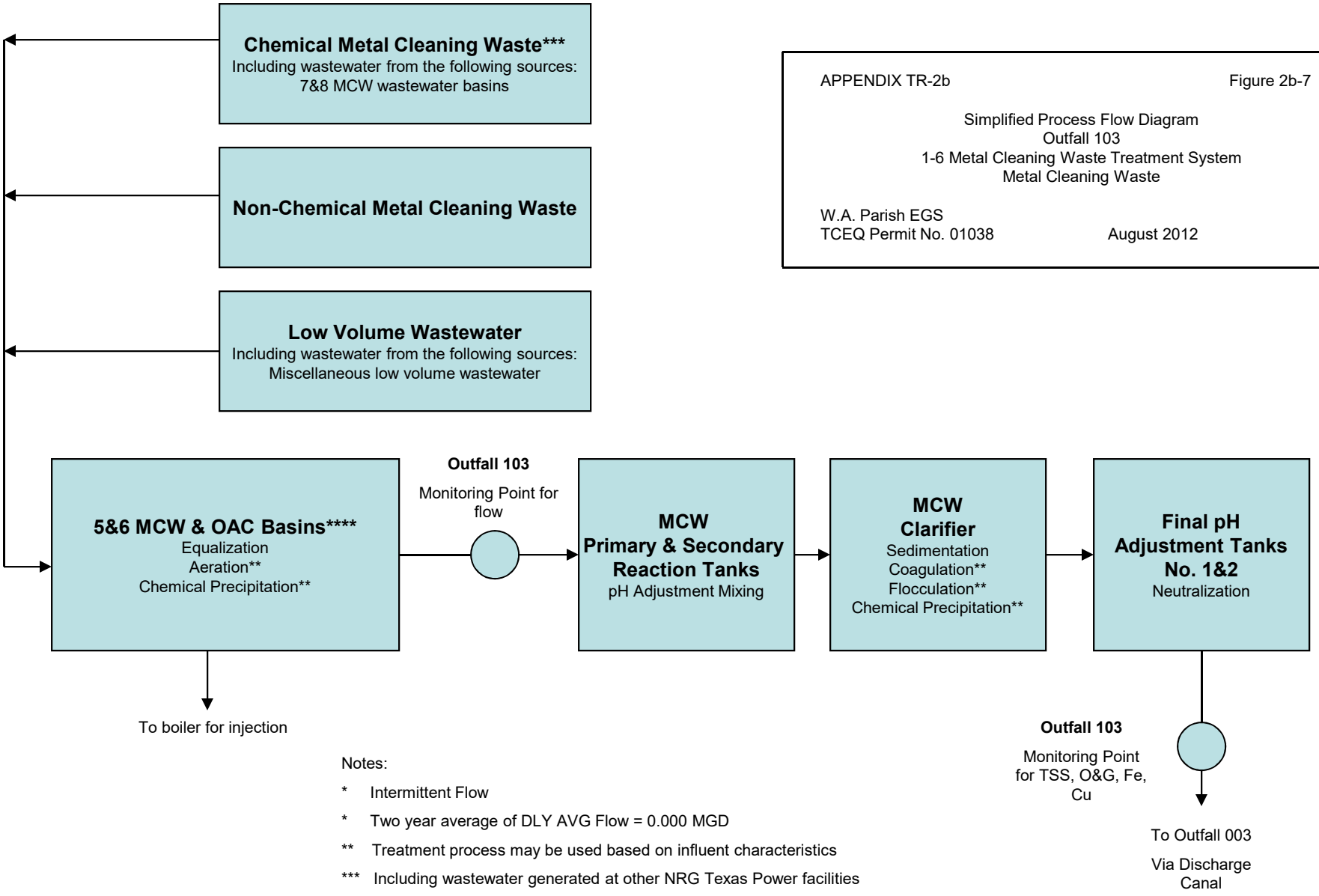
Simplified Process Flow Diagram
Outfall 006
1-4 Auxiliary Cooling Tower System
Low Volume Wastewater

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APPENDIX TR-2b Figure 2b-7

Simplified Process Flow Diagram
Outfall 103
1-6 Metal Cleaning Waste Treatment System
Metal Cleaning Waste

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TCEQ Permit No. 01038 August 2012



Notes:

* Intermittent Flow

* Two year average of DLY AVG Flow = 0.000 MGD

** Treatment process may be used based on influent characteristics

*** Including wastewater generated at other NRG Texas Power facilities

**** 5&6 MCW & OAC basins consist of four individual basins – the wastewater can be transferred between the basins. Wastewater can also be transferred to 7&8 MCW wastewater basins.

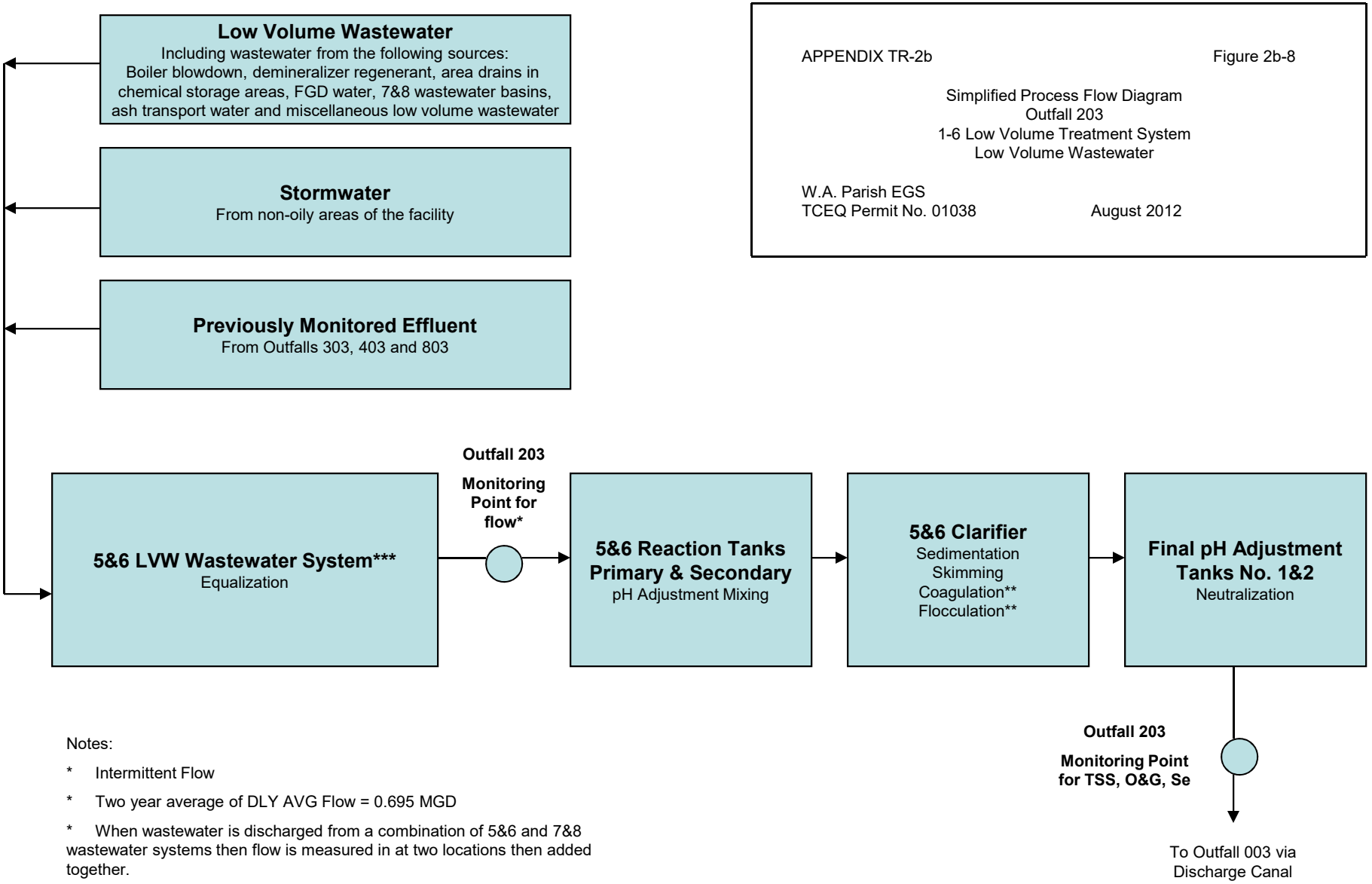
APPENDIX TR-2b

Figure 2b-8

Simplified Process Flow Diagram
Outfall 203
1-6 Low Volume Treatment System
Low Volume Wastewater

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August 2012



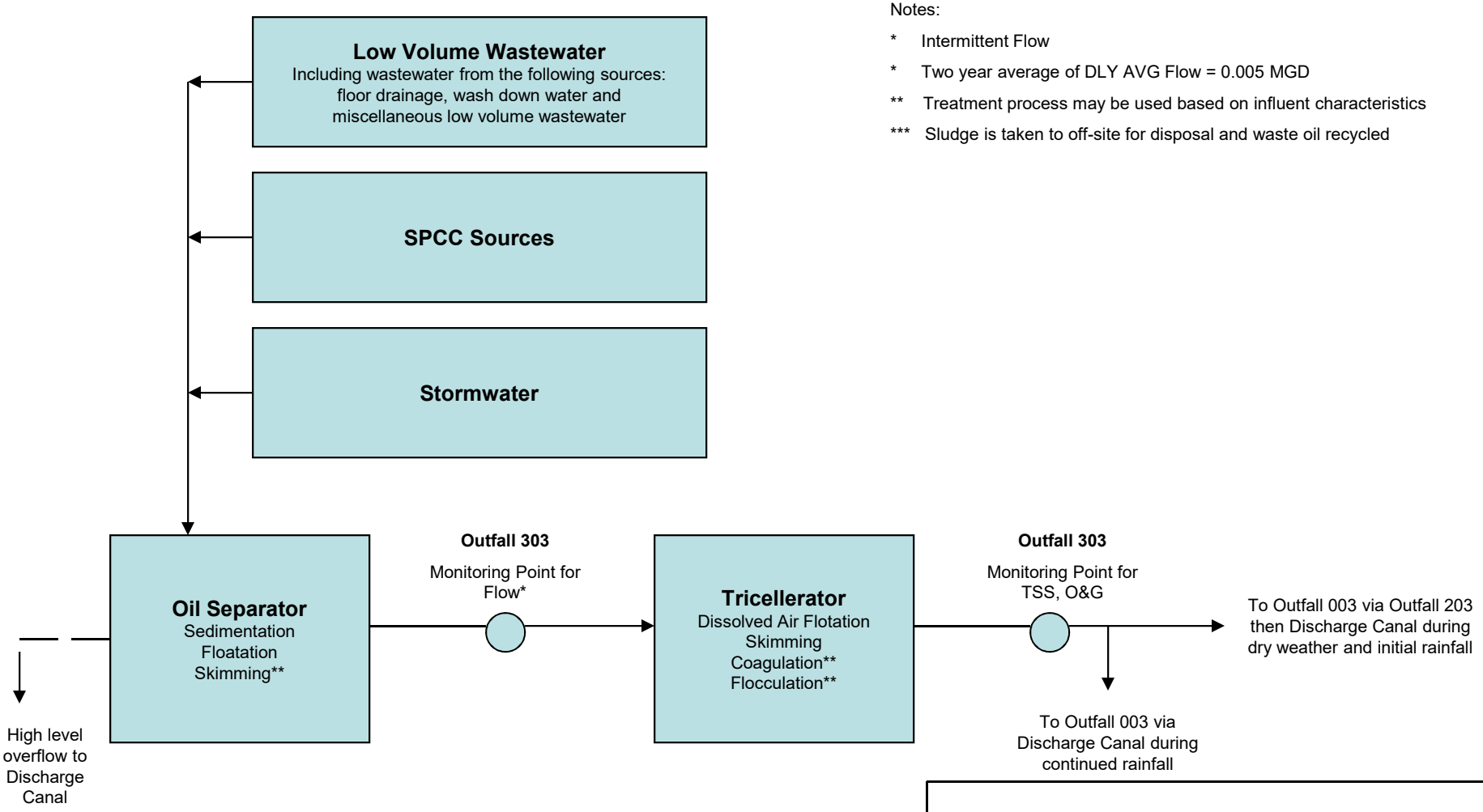
Notes:

* Intermittent Flow

* Two year average of DLY AVG Flow = 0.695 MGD

* When wastewater is discharged from a combination of 5&6 and 7&8 wastewater systems then flow is measured in at two locations then added together.

*** 5&6 LVW basins consist of four individual basins – the wastewater can be transferred between the basins. Wastewater can also be transferred between 7&8 wastewater basins.



Notes:

* Intermittent Flow

* Two year average of DLY AVG Flow = 0.005 MGD

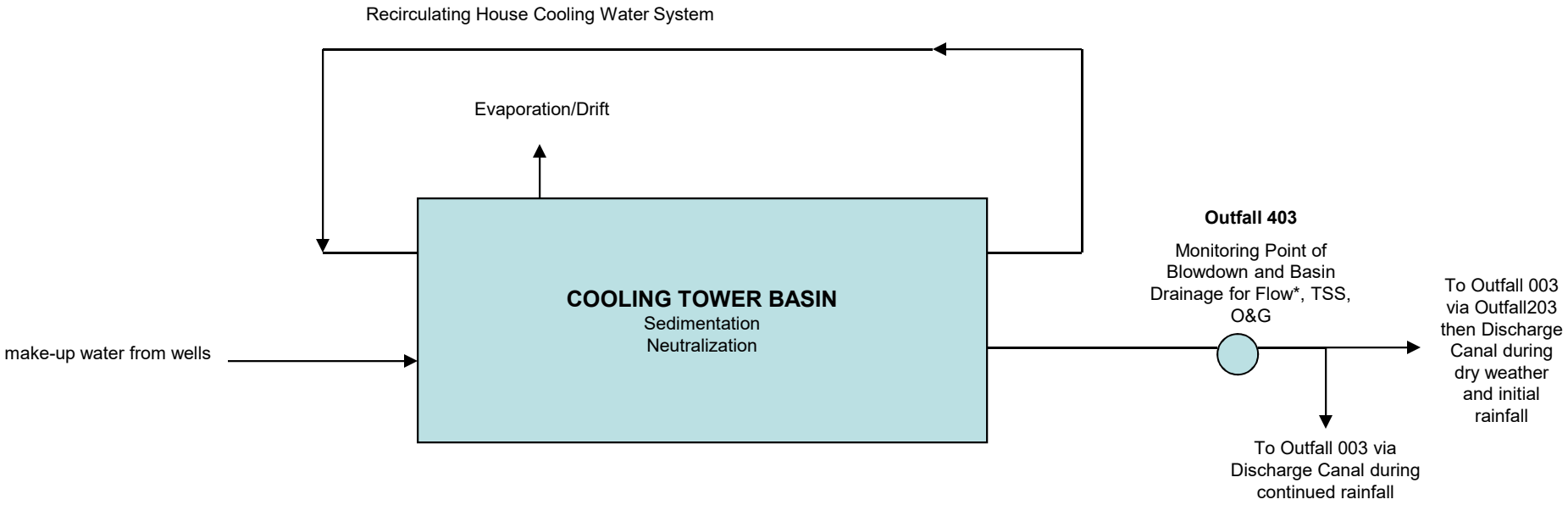
** Treatment process may be used based on influent characteristics

*** Sludge is taken to off-site for disposal and waste oil recycled

APPENDIX TR-2b Figure 2b-9

Simplified Process Flow Diagram
Outfall 303
5&6 Oily Waste Treatment System
Low Volume Wastewater

W.A. Parish EGS
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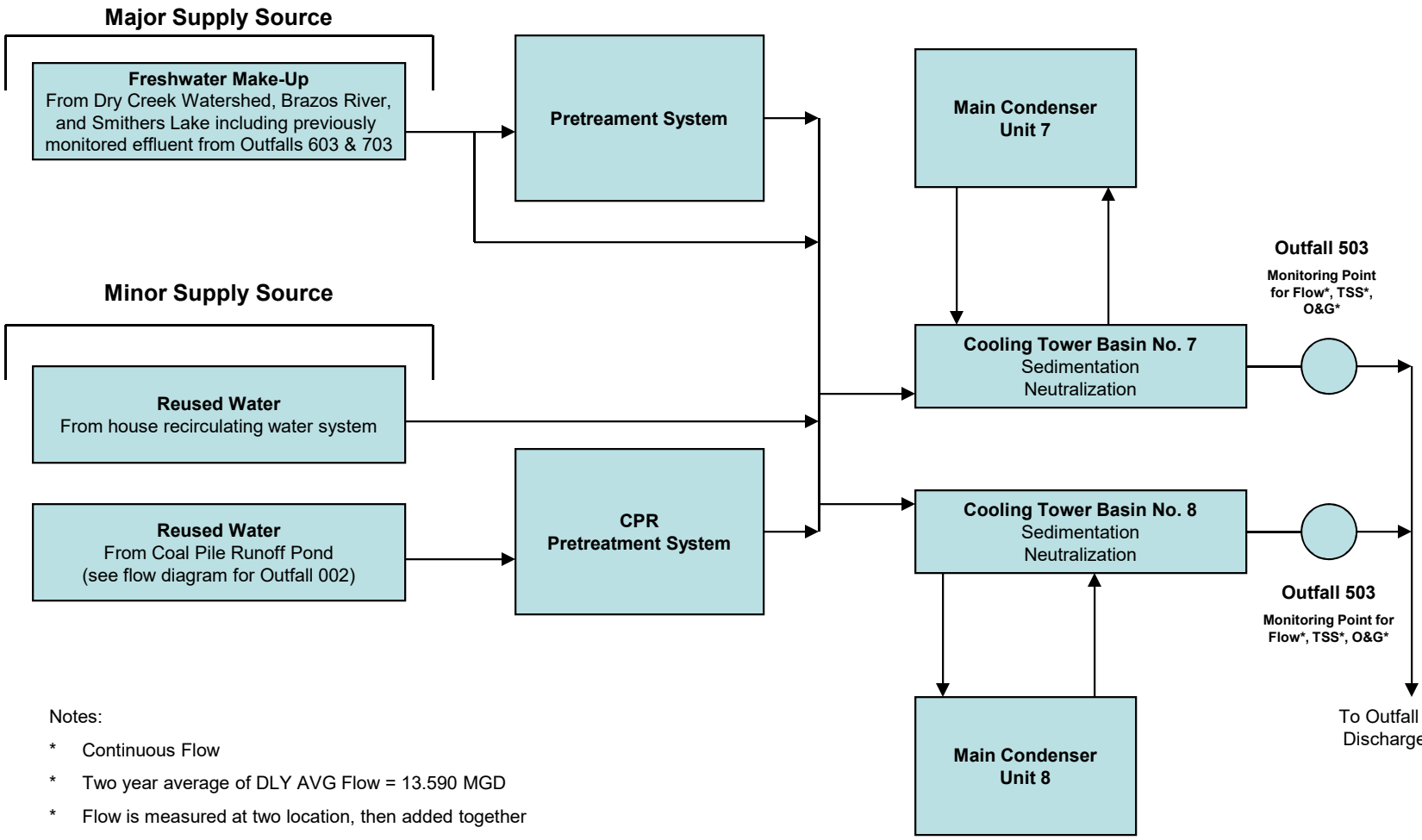
Notes:

* Intermittent Flow
* Two year average od DLY AVG Flow = 0.078 MGD

APPENDIX TR-2b Figure 2b-10

Simplified Process Flow Diagram
Outfall 403
5&6 Auxiliary Cooling Tower System
Low Volume Wastewater

W.A. Parish EGS
TCEQ Permit No. 01038 August 2012



Notes:

* Continuous Flow
* Two year average of DLY AVG Flow = 13.590 MGD
* Flow is measured at two location, then added together
* TSS and O&G are only collected from the basin(s) that are being drained or cleaned.

APPENDIX TR-2b Figure 2b-11

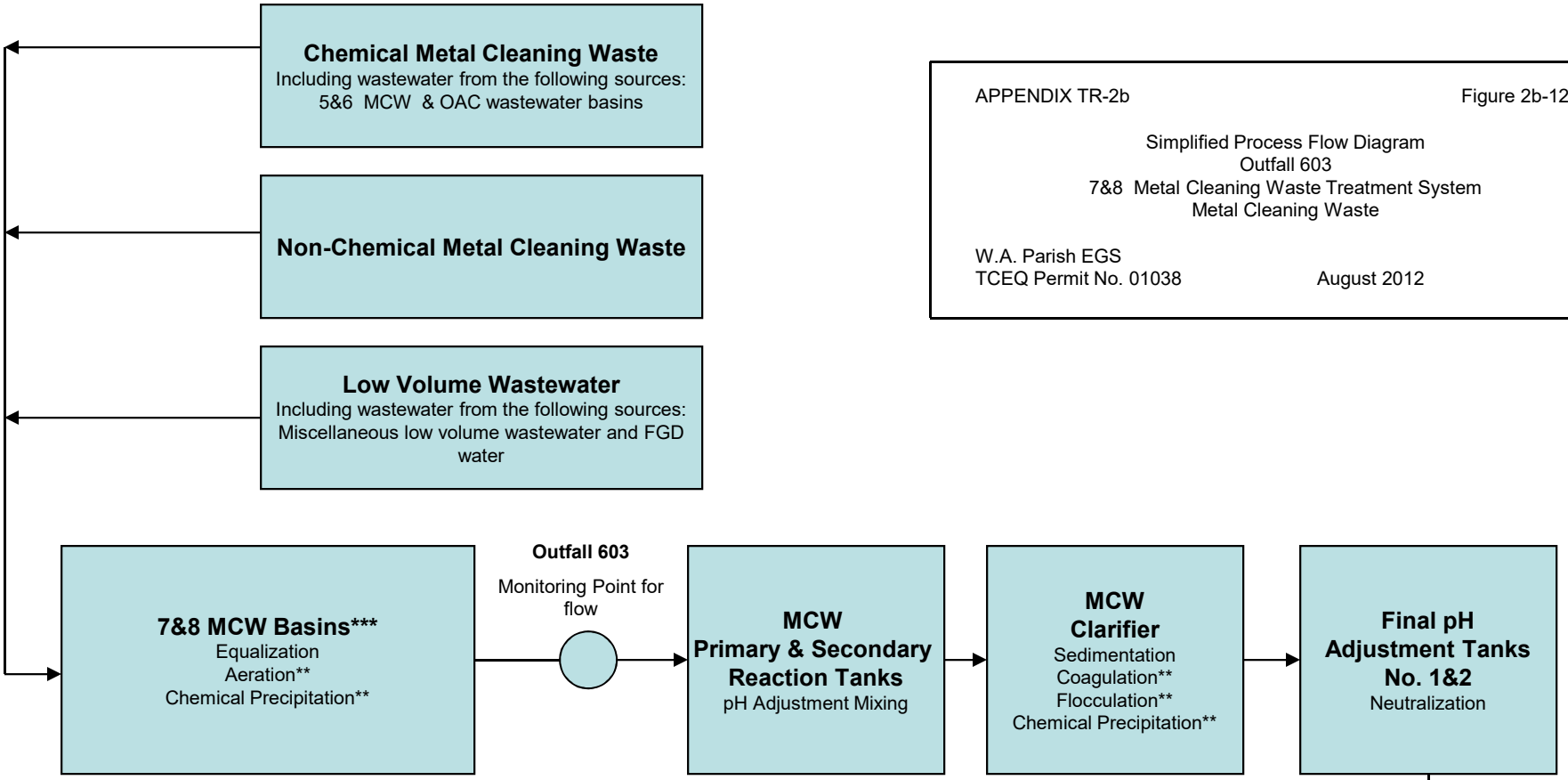
Simplified Process Flow Diagram
Outfall 503
Main Cooling Tower System
Cooling Tower Blowdown

W.A. Parish EGS
TCEQ Permit No. 01038 August 2012

APPENDIX TR-2b Figure 2b-12

Simplified Process Flow Diagram
Outfall 603
7&8 Metal Cleaning Waste Treatment System
Metal Cleaning Waste

W.A. Parish EGS
TCEQ Permit No. 01038 August 2012



Notes:

* Intermittent Flow

* Two year average of DLY AVG Flow = 0.000 MGD

** Treatment process may be used based on influent characteristics

*** 7&8 MCW basins consist of four individual basins – the wastewater can be transferred between. Wastewater can also be transferred to 5&6 MCW & OAC wastewater basins.

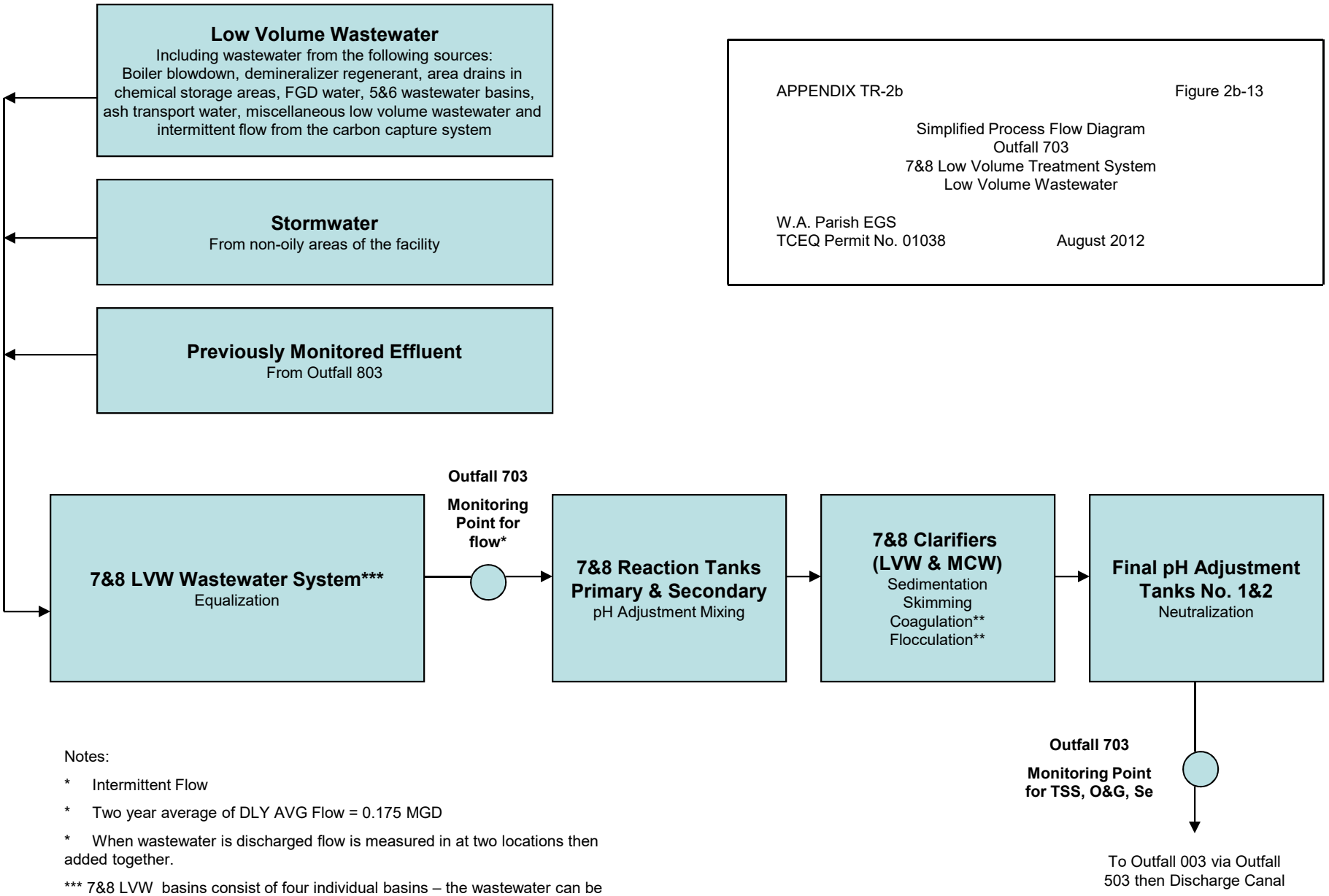
APPENDIX TR-2b

Figure 2b-13

Simplified Process Flow Diagram
Outfall 703
7&8 Low Volume Treatment System
Low Volume Wastewater

W.A. Parish EGS
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August 2012



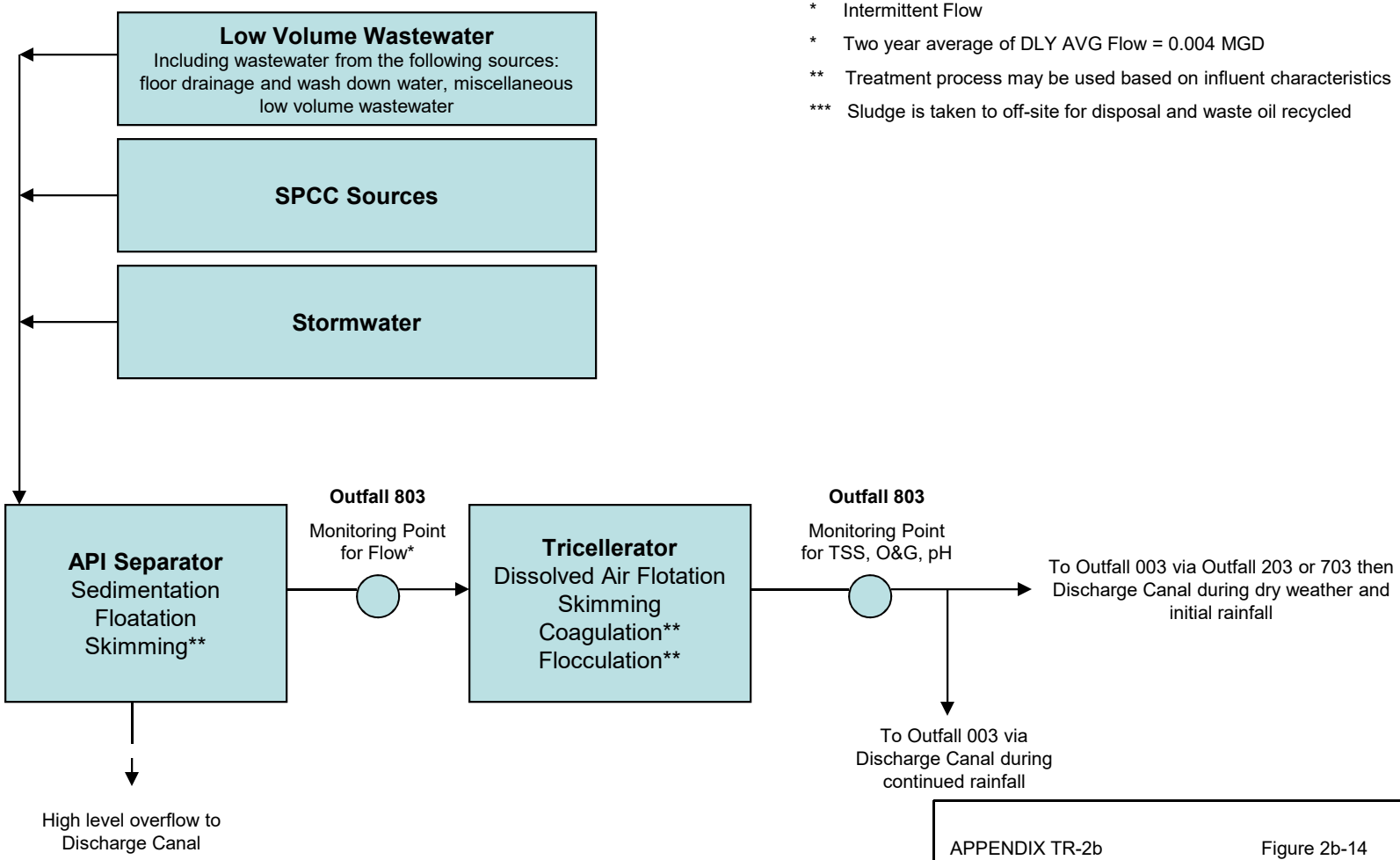
Notes:

* Intermittent Flow

* Two year average of DLY AVG Flow = 0.175 MGD

* When wastewater is discharged flow is measured in at two locations then added together.

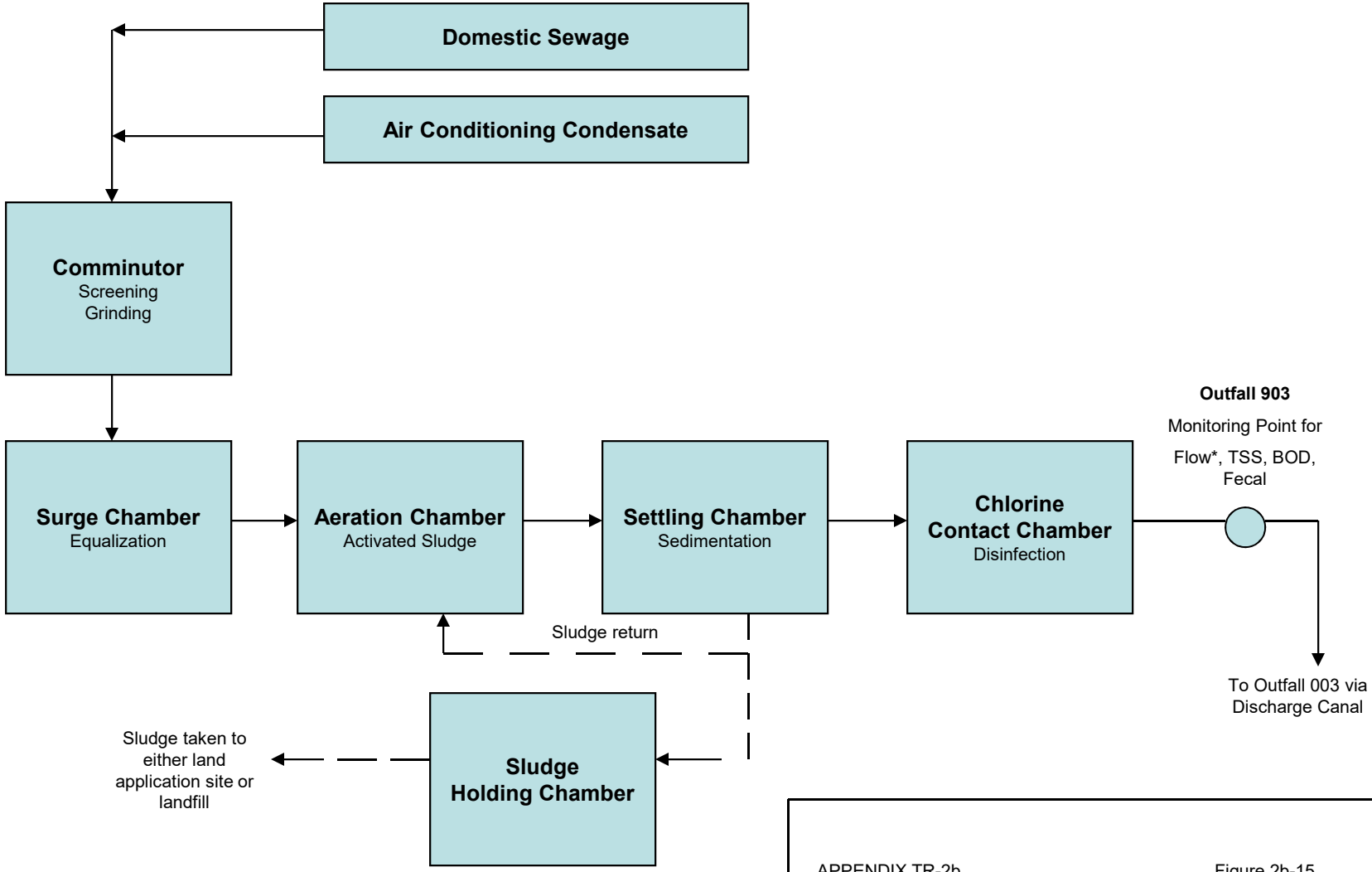
*** 7&8 LVW basins consist of four individual basins – the wastewater can be transferred between. Wastewater can also be transferred between the 5&6 wastewater basins.



APPENDIX TR-2b Figure 2b-14

Simplified Process Flow Diagram
Outfall 803
7&8 Oily Waste Treatment System
Low Volume Wastewater

W.A. Parish EGS
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Notes:

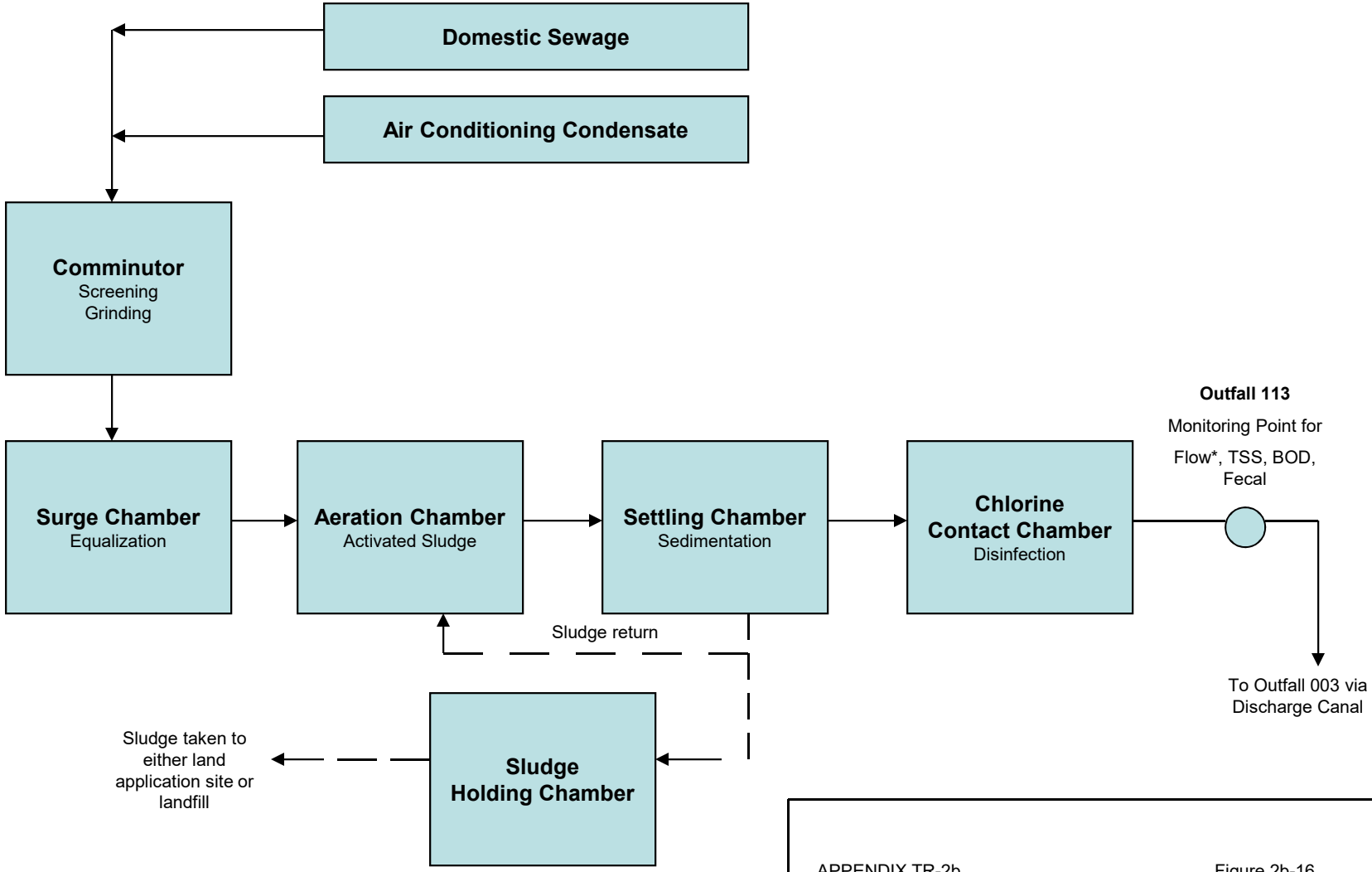
* Intermittent Flow

* Two year average of DLY AVG Flow = 0.002MGD

APPENDIX TR-2b Figure 2b-15

Simplified Process Flow Diagram
Outfall 903
Gas Side Sewage Treatment System
Domestic Wastewater

W.A. Parish EGS
TCEQ Permit No. 01038 August 2012



Notes:

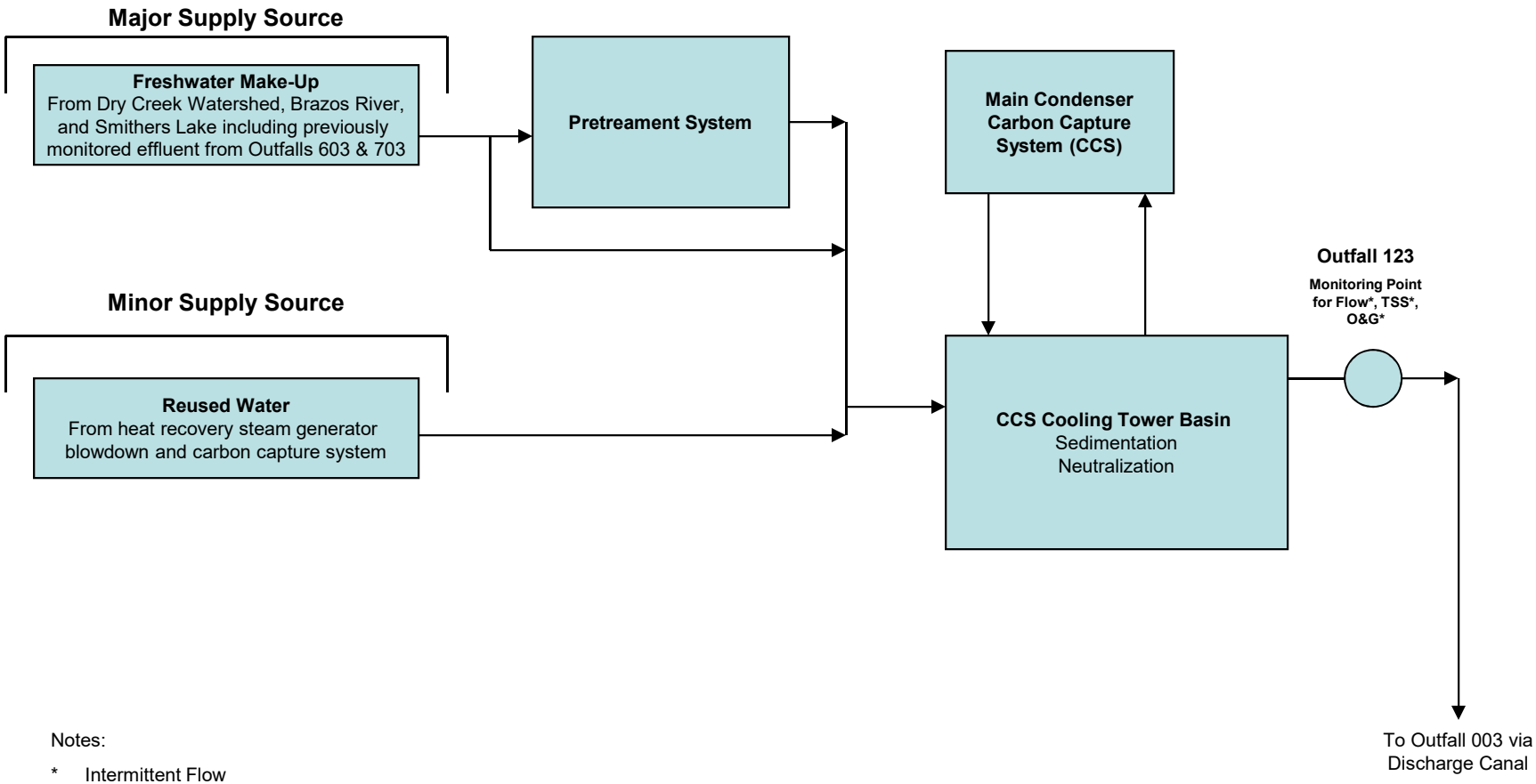
* Intermittent Flow

* Two year average of DLY AVG Flow = 0.005 MGD

APPENDIX TR-2b Figure 2b-16

Simplified Process Flow Diagram
Outfall 113
Coal Side Sewage Treatment System
Domestic Wastewater

W.A. Parish EGS
TCEQ Permit No. 01038 August 2012



Notes:

* Intermittent Flow

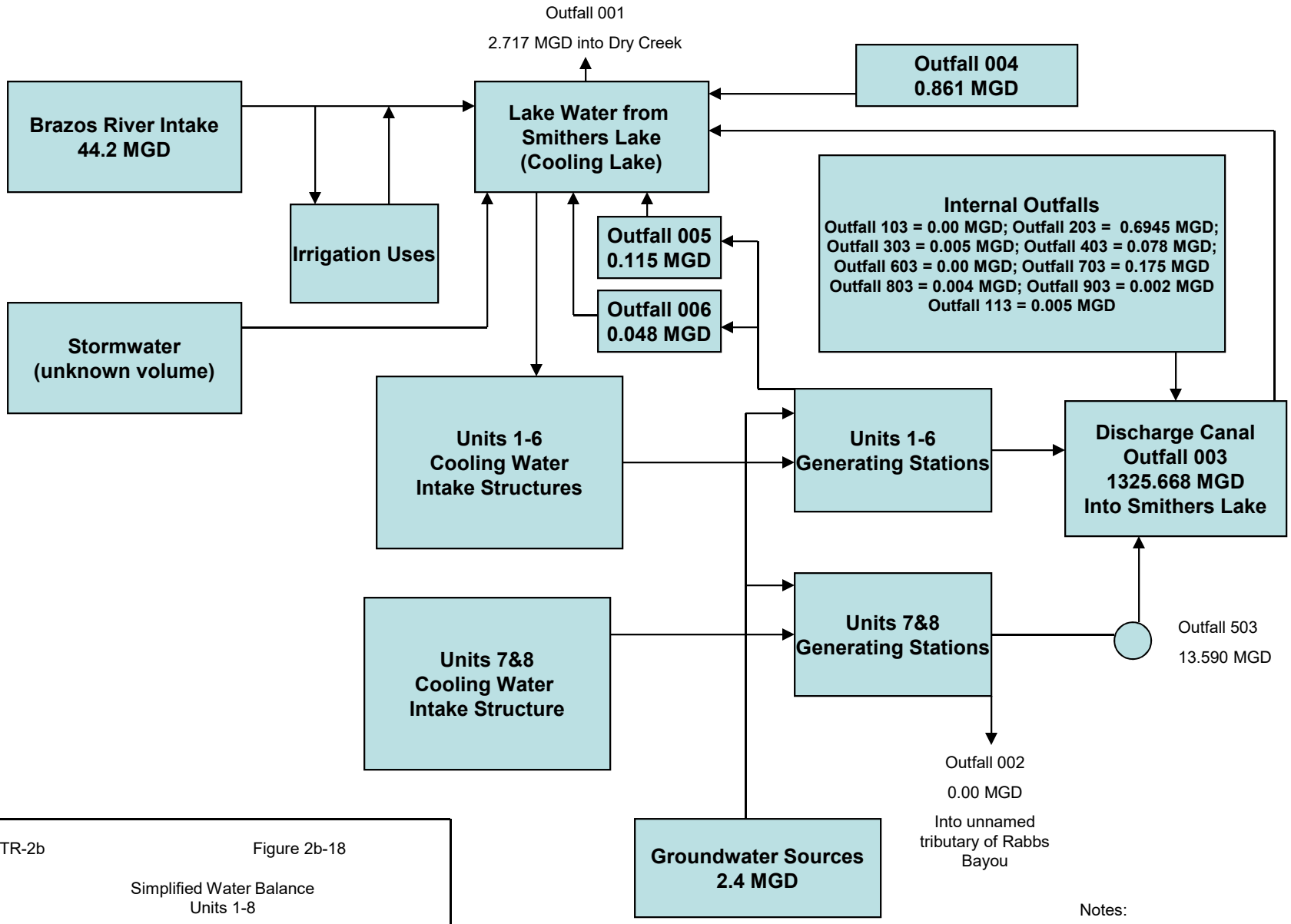
* Estimated DLY AVG Flow = 1.4 MGD

* TSS and O&G are only collected from a basin that is being drained or cleaned.

APPENDIX TR-2b Figure 2b-17

Simplified Process Flow Diagram
Outfall 123
Carbon Capture System Cooling Tower System
Cooling Tower Blowdown

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TCEQ Permit No. 01038 August 2012



APPENDIX TR-2b Figure 2b-18

Simplified Water Balance
Units 1-8

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TCEQ Permit No. 01038 August 2012

APPENDIX TR-5c

Boiler Chemicals Additives

These are products used as of December 2008 and are typical of the products anticipated to be used in the future. Products may be changed based on availability, cost, and effectiveness.

TR-5c Questions	Ammonia
Manufacture Product Number	Ammonia, Anhydrous
Product Use	pH adjustment
Chemical Composition w/ CAS #	Inorganic, gas CAS#7664-41-7
Product Classification	Not Available
Product Half-life	Not Available
Frequency of Product Use	Continuous feed while unit in operation
Toxicity Data	Not Available
Product Concentration	Automated feed to maintain pH range of 9.2-9.6

TR-5c Questions	BL 1794
Manufacture Product Number	Chemtreat BL 1794
Product Use	Corrosion/Scale Inhibition
Chemical Composition w/ CAS #	Sodium Phosphate, tribasic CAS #7601-54-9
Product Classification	Not Available
Product Half-life	Not Available
Frequency of Product Use	Pumped as needed
Toxicity Data	Oral LD50 – 7400 mg/kg (rats)
Product Concentration	2-15 ppm as orthosphosphate

TR-5c Questions	BL 1517
Manufacture Product Number	Chemtreat BL-1517
Product Use	Boiler feedwater pH control
Chemical Composition w/ CAS #	Morpholine CAS # 110-91-8
Product Classification	Not available
Product Half-life	Not available
Frequency of Product Use	Continuous during unit operation
Toxicity Data	Oral LD50 (rats) = 1050 mg/kg; Dermal LD50 (rabbits) = 500 mg/kg; TLV = 20 ppm (skin) ACGIH/OSHA
Product Concentration	Variable federate to maintain a pH range of 8.8-9.0

Boiler Chemicals Continued

TR-5c Questions	BL 1260
Manufacture Product Number	Chemtreat BL -1260
Product Use	Oxygen scavenger/metal passivation
Chemical Composition w/ CAS #	Carbohydrazide CAS # 497-18-7
Product Classification	Not Available
Product Half-life	Not Available
Frequency of Product Use	Continuous during unit operation
Toxicity Data	Not Available
Product Concentration	0.5-1.5 ppm

Cooling Tower Chemical Additives

These are products used as of May 2002 and are typical of the products anticipated to be used in the future. Products may be changed based on availability, cost, and effectiveness.

TR-5c Questions	CL 4896
Manufacture Product Number	ChemTreat, Inc CL 4896
Product Use	Dispersant and scale inhibitor
Chemical Composition w/ CAS #	2-Phosphono-1,2,4-butanetricarboxylic acid: CAS # 37971-36-1
	Polymer/copolymer blend: Proprietary
Product Classification	Non-persistent
Product Half-life	Organic ingredients biodegrade slowly
Frequency of Product Use	Continuous feed while unit in operation
Toxicity Data	Not tested
Product Concentration	Once-through = 50-100 ppb; Main Cooling Towers = 15-25 ppm

TR-5c Questions	CT 708
Manufacture Product Number	ChemTreat, Inc. CT 708
Product Use	Corrosion control
Chemical Composition w/ CAS #	Sodium hexametaphosphate CAS # 10124-56-8
Product Classification	Not Available
Product Half-life	Not Available
Frequency of Product Use	Continuous or as required during unit operation
Toxicity Data	Oral LD50 (rats) 2.9 g/kg
Product Concentration	5-10 ppm

Cooling Tower Chemical Additives – con't

TR-5c Questions	CL 4892
Manufacture Product Number	ChemTreat, Inc CL 4892
Product Use	Dispersant and scale inhibitor
Chemical Composition w/ CAS #	Potassium Hydroxide: CAS # 1310-58-3
	Tolytriazole, Sodium Salt: CAS # 64665-57-2
	1-Hydroxyethylidene-1, 1-Diphosphonic Acid, Tetrapotassium Salt:
	CAS # 14860-53-8
Product Classification	Non-persistent
Product Half-life	Organic ingredients biodegrade slowly
Frequency of Product Use	Continuous feed while unit in operation
Toxicity Data	Fathead Minnow 96 hour LC50 676 mg/L
	Ceriodaphnia Dubia 48 hour LC 50 >1000 mg/L
Product Concentration	100-150 ppm

TR-5c Questions	CL 241
Manufacture Product Number	Chemtreat CL-241
Product Use	Defoamer
Chemical Composition w/ CAS #	Dimethylpolysiloxane CAS# (Mixture)
Product Classification	Not Available
Product Half-life	Not Available
Frequency of Product Use	Intermittent dosing as required
Toxicity Data	Not Available
Product Concentration	2-10 ppm

TR-5c Questions	Sulfuric Acid
Manufacture Product Number	93% Sulfuric Acid
Product Use	pH adjustment
Chemical Composition w/ CAS #	Sulfuric Acid CAS# 7664939
Product Classification	Not Available
Product Half-life	Not Available
Frequency of Product Use	Continuous feed while unit in operation
Toxicity Data	Not Available
Product Concentration	Automated feed to maintain pH range of 7.8-8.2

Cooling Tower Chemical Additives – con't

TR-5c Questions	Bleach (12%)
Manufacture Product Number	AQUACHLOR – Sodium Hypochlorite Solution
Product Use	Biocide
Chemical Composition w/ CAS #	Sodium Hypochlorite: CAS # 7681-52-9
	Sodium Hydroide: CAS # 1310-73-2
Product Classification	Not Available
Product Half-life	Not Available
Frequency of Product Use	One to three times per day / unit
Toxicity Data	Not Available
Product Concentration	0.2-0.8 ppm free available chlorine

W. A. Parish Chemical Application Index:

Boilers:

Ammonia: Units 4-8
BL 1794: Units 1-3
BL 1517: Units 1-3
BL 1260: Units 1-3

Cooling Towers:

CL 4896: Units 1-6 Main Condenser Once-through and Units 7&8 Main Cooling Towers
CT 708: Units 1-4 Aux. Cooling Tower and Units 5-8 Aux Cooling Towers (4)
CT 4892: Units 1-4 Aux. Cooling Tower and Units 5-8 Aux Cooling Towers (4)
CL 241: Units 7&8 Main Cooling Towers
Sulfuric Acid: All five Aux. Cooling Towers and Units 7&8 Main Cooling Towers
Bleach: Units 1-6 Main Condenser Once-through, Units 7&8 Main Cooling Towers and Units 1-8 Aux. Cooling Towers

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: AMMONIA
HAZMIN Number: 7716

Company Data

Current Company: LAROCHE INDUSTRIES, INC.
1100 JOHNSON FERRY ROAD N.E.
ATLANTA, GA 30342
Emergency Phone: 800-528-4963
Information Phone: 877-474-4643

Manufacturer/Supplier: LAROCHE INDUSTRIES INC.
1100 JOHNSON FERRY ROAD N.E.
ATLANTA, GA 30342-
Information Phone: 404-851-0300

Product Data

Synonym 1: AMMONIA
Synonym 2: ANHYDROUS AMMONIA
MSDS Prepared: 2/15/1998
Revised: 2/15/1998

Physical and Chemical Data

Boiling Point: = -28.1°F
Specific Gravity: = 00.62 **NOTE:** @ 60'F
Vapor Density: = 00.60 **NOTE:** @ 32'F
Melt/Freeze Point: = -107.9
pH: ~ 011.6 **NOTE:** for 1 N Soln. in H2O
% Volatile: = 00100
Vapor Pressure: = 4802.9 @ 60 **NOTE:** mm Hg
Solubility in Water: High
Appearance/Odor: Colorless (pungent) gas
Hazard Rating A: HMIS Internal Rating: CHRONIC Health = 3
Flammability = 1 Reactivity = 0
Personal Protective Equipment: Face Shield, CR Clothes, Apprvd Resp. (Depends on Use)
Target Organs According to Consultant
Target Organ 1: EYES
Target Organ 2: GI TRACT
Target Organ 3: LUNGS
Target Organ 4: MUCOUS MEMBRANES

Target Organ 5: SKIN
Target Organ 6: URS

Fire and DOT Data

Flash Point Closed: NOTE: Not Applicable
Flash Point Open: NOTE: Not Applicable
LEL/LFL: = 00016
UEL/UFL: = 00025
Preparer Information: Corporate Office of Regulatory Affairs

UN Number: 1005
DOT Class: 2.2 nonflammable gas
Proper Shipping Name: Ammonia, Anhydrous, Liquefied

Component Data

Component: AMMONIA
Cas No: 7664417
Product: No
Trade Secret: No
Percent: = 99.5
EPCRA 313 Chemical: No
Extremely Hazardous Substance: No
OSHA TWA (ppm): 50
OSHA STEL (ppm): 35
Limit Note: ACGIH STEL / NIOSH: 25 PPM / PERCENT: C-GRADE; (P-GRADE: 99.995)

Component: WATER
Cas No: 7732185
Product: No
Trade Secret: No
Percent: = .4
EPCRA 313 Chemical: No
Extremely Hazardous Substance: No
OSHA TWA (ppm): NONE
ACGIH TWA (ppm): NONE
Limit Note: NIOSH: NONE / PERCENT: C-GRADE; (P-GRADE: 33 PPM)

Component: OIL
Product: No
Trade Secret: No
Percent: = .1

EPCRA 313 Chemical: No
Extremely Hazardous Substance: No
OSHA TWA (ppm): NONE
ACGIH TWA (ppm): NONE
Limit Note: NIOSH: NONE / PERCENT: C-GRADE; (P-GRADE: 2 PPM)

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

TRADE NAMES/SYNONYMS: Ammonia

CHEMICAL NAME: Anhydrous Ammonia

PRODUCT CODE: 5B81-83

Material Safety Data Sheet # 4001

LAST REVISION: 2/15/98

EMERGENCY TELEPHONE NUMBERS:

TRANSPORTATION (CHEMTREC): (800) 424-9300
ENVIRONMENTAL/HEALTH/SAFETY: (800) 528-4963
CUSTOMER SERVICE: (404) 491-7987

MANUFACTURER AND/OR DISTRIBUTOR:

LAROCHE INDUSTRIES INC.
1100 JOHNSON FERRY RD., NE
ATLANTA, GA 30342

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

SEE COMPONENT PAGE(S) FOR ADDITIONAL INFORMATION.

CHEMICAL FORMULA IDLH

Ammonia NH3 300ppm
Water H2O
Oil -

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: 1) Colorless gas or compressed liquid with extremely pungent odor 2) Liquid ammonia reacts violently with water. Vapor cloud is produced 3) Avoid contact with liquid and vapor 4) Stay upwind and use water spray to absorb vapor 5) Not flammable under conditions likely to be encountered outdoors 6) Stop discharge if possible

POTENTIAL HEALTH EFFECT:

ROUTES OF ENTRY: Inhalation, Skin Contact, Eye Contact, Ingestion

TARGET ORGANS: Eyes, skin and respiratory system

EYE CONTACT: Exposure to liquid or high concentrations of vapor can cause painful, instant and possibly irreversible damage to tissue such as the conjunctiva, cornea and lens.

SKIN CONTACT: Prolonged contact with high concentrations can cause painful tissue damage, frostbite and serious chemical burns.

INHALATION: Depending on exposure concentration and durations, effects can vary from none or only mild irritation, to obstruction of breathing from laryngeal and bronchial spasm, to edema and severe damage of the mucous membranes of the respiratory tract with possible fatal results. Latent edema and residual reduction in pulmonary function may occur.

INGESTION: Tissue damage, chemical burns, nausea and vomiting can occur. Ammonia is a gas under normal atmospheric conditions and ingestion is unlikely.

CARCINOGENICITY:

NTP? No
IARC? No
OSHA? No

SECTION 4: FIRST AID MEASURES

EYE CONTACT: Flush with large amount of water for at least 15 minutes then

immediately seek medical aid.

SKIN CONTACT: Immediately flush with large quantities of water for at least 15 minutes while removing clothing. Clothing frozen to the skin should be thawed with water before removal. Seek immediate medical aid.

INHALATION: Remove from exposure. If breathing has stopped or is difficult, administer artificial respiration or oxygen as needed. Seek immediate medical aid.

INGESTION: Do not induce vomiting. Have the victim drink large quantities of water if conscious. Immediately seek medical aid. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED): Not Applicable

FLAMMABLE LIMITS: 16-25% in air

EXTINGUISHING MEDIA: With a source of ignition, ammonia will burn in the range of 16-25% in air. Stop flow of gas or liquid.

SPECIAL FIRE FIGHTING PROCEDURES: Move containers from fire zone if possible; if not, use water to cool fire exposed containers.

Use water spray to control vapors. Do not put water directly on liquid ammonia. Personnel must be equipped with appropriate protective clothing and respiratory protection.

NFPA HAZARD CLASSIFICATION:

HEALTH: 3
FLAMMABILITY: 1
REACTIVITY: 0

(least-0 <-> 4-highest)

SECTION 6: ACCIDENTAL RELEASE MEASURES

Release of 100 lbs. or more of ammonia within 24 hours must be immediately (within minutes) reported to the National Response Center at (800) 424-8802, as well as appropriate local and state agencies. Suggested Local Action: Stop leak if feasible. Avoid breathing ammonia. Evacuate personnel not equipped with protective clothing and equipment. Use copious amounts of water spray or fog to absorb ammonia vapor. DO NOT put water on liquid ammonia. Contain run-off to prevent ammonia from entering a stream, lake, sewer, or ditch. Any release of this material, during the course of loading, transporting, unloading or temporary storage, must be reported to U.S. D.O.T. as required by 49 CFR 171.15 and 171.16.

SECTION 7: HANDLING AND STORAGE

Refer to the ANSI K61.1 standard for storage and handling information. Protect containers from physical damage and temperatures exceeding 120'F. Use only approved storage systems. Zinc, copper, silver, cadmium and their alloys must not be used in ammonia systems since they can be rapidly corroded by it. Avoid hydrostatic pressure, which can cause equipment rupture, by adhering to proper filling procedures and the use of hydrostatic pressure relief valves where appropriate.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Respiratory protection approved by NIOSH/MSHA for ammonia must be used when exposure limits are exceeded. Whether a chemical cartridge respirator or a self-contained breathing apparatus is sufficient for effective respiratory protection

SKIN PROTECTION: Rubber gloves and rubber or other types of approved protective clothing should be used to prevent skin contact. A face shield should be used for increased protection from contact with liquid.

EYE PROTECTION: Chemical splash goggles, approved for use with ammonia, must be worn to prevent eye contact with liquid or vapor. A face shield should be used for increased protection from contact with liquid.

VENTILATION: Local positive pressure and/or exhaust ventilation should be used to reduce vapor concentrations in confined spaces. Ammonia vapor, being lighter than air, can be expected to dissipate to the upper atmosphere.

Ammonia concentrations may also be reduced by the use of an appropriate absorbent or reactant material.

OTHER EQUIPMENT: Emergency eye wash stations and deluge safety showers must be available in the work area. Post a list of emergency response contacts and telephone numbers.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Material generally considered stable. However, heating above ambient temperatures causes the vapor pressure of ammonia to increase rapidly.

INCOMPATIBILITY (MATERIALS TO AVOID): Ammonia can react violently with strong acids. Under certain conditions, ammonia reacts with bromine, chlorine, fluorine or iodine to form compounds which explode spontaneously. Reactions of ammonia with gold, silver or mercury to form explosive fulminate-like compounds have been reported.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen on heating to over 850'F. The decomposition temperature may be lowered to 575'F by contact with certain metals such as iron or nickel.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Not applicable.

SECTION 11: TOXICOLOGICAL INFORMATION

Ammonia is a strong alkali and readily damages all body tissues. Ammonia is not a cumulative metabolic poison.

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY: 2.0-2.5 ppm/ 1-4 days/ goldfish and yellow perch/LC; 60-80 ppm/ 3 days/ crayfish/LC100; 8.2 ppm/ 96/ fathead minnow/TLm

WATERFOWL TOXICITY: 120 ppm

BIOCHEMICAL OXYGEN DEMAND: Not pertinent

FOOD CHAIN CONCENTRATION POTENTIAL: None

SECTION 13: DISPOSAL CONSIDERATIONS

Recover ammonia if feasible. Otherwise, let ammonia evaporate if appropriate. Only personnel experienced in ammonia spills should add water to liquid ammonia. Dispose of diluted ammonia as a fertilizer or in an industrial process. For Hazardous Waste Regulations call (800) 424-9346, the RCRA Hotline.

SECTION 14: TRANSPORT INFORMATION

DOMESTIC SHIPMENTS INTERNATIONAL SHIPMENTS

PROPER SHIPPING NAME: Ammonia, Anhydrous, Ammonia, Anhydrous, Liquefied Liquefied

DOT HAZARD CLASS: 2.2 (nonflammable gas) 2.3 (poison gas)

IDENTIFICATION NUMBER: UN1005 UN1005

PACKING GROUP: None None

SECTION 15: REGULATORY INFORMATION

NOTICE: This product is subject to the reporting requirements of SARA (1986, Section 313 of Title III) and 40 CFR Part 370.

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200: Ammonia is considered a hazardous chemical.

TOXIC SUBSTANCE CONTROL ACT: This material is listed in the TSCA Inventory.

EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT (SARA, TITLE III):

Section 302 Extremely Hazardous Substance: Yes; Section 311/312 Hazardous Categories: Immediate (acute) health hazards; Section 313 Toxic Chemical: Yes

CERCLA/SUPERFUND, 40 CFR 117,302: This product contains ammonia which if released to the environment in quantities of 100 lbs. or more requires notification to the National Response Center in Washington, DC at 1-800-424-8802.

WHMIS: One Percent (1%)

CALIFORNIA PROPOSITION 65:

Reproductive: No
Carcinogen: No

OSHA PROCESS SAFETY MANAGEMENT, 29 CFR 1910.119: This product is subject to the Process Safety Management requirements of 29 CFR 1910.119 if maintained on-site in quantities of 10,000 lbs. or greater.

EPA CHEMICAL ACCIDENT RELEASE PREVENTION, 40 CFR PART 68: This product is subject to the Risk Management Plan requirements of 40 CFR Part 68 if maintained on-site in quantities of 10,000 lbs. or greater.

DRINKING WATER: Maximum use dosage in potable water is 5 mg/l.

SECTION 16: OTHER INFORMATION

REASON FOR REVISION: 1) New reduced size format 2) Additives of drinking standard information to section 15 3) Supersedes MSDS Code dated 3/01/95.

MSDS PREPARED BY: LaRoche Industries Inc.'s Corporate Office of Regulatory Affairs

This information is taken from sources or based upon data believed to be reliable, however, LaRoche Industries Inc. makes no warranty ...

HAZMIN Version: 2 / Last Edited on 3/15/2002 7:01:16 AM

Report: 3/6/2003 8:54:29 AM

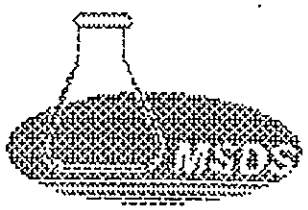
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TXGENW MSDS # 1

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ChemTreat, Inc.



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

CHEMTREAT BL-1794

Manufacturer's Name	Emergency Telephone Number
ChemTreat, Inc.	(800) 424-9300
Address (Number, Street, City, State, and ZIP Code)	Telephone Number For Information
Corporate Headquarters: 4301 Dominion Blvd. Glen Allen, Va. 23060	(800) 648-4579
	Date Prepared March 14, 2002 (NEW)
	Signature of Preparer Timothy H. Reid

Section 2. Composition / Hazardous Ingredients

Component	CAS No.	Wt. %
Sodium phosphate, tribasic	7601-54-9	1- 10

Section 3. Hazards Identification

EMERGENCY OVERVIEW:

Water clear liquid; mild odor. Not flammable.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

Irritating to skin.

INHALATION:

Irritating to mucous membranes.

SKIN CONTACT:

Irritating to skin.

INGESTION:

Harmful if swallowed.

CARCINOGENICITY/CHRONIC EFFECTS:

None known. Persons with pre-existing skin conditions may be more susceptible to the effects of this product.

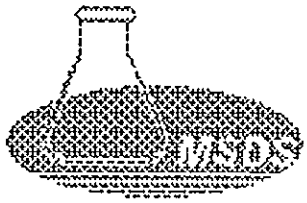
Section 4. First Aid Measures

INHALATION:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

EYE CONTACT:

Immediately flush eyes with plenty of water, holding eyelids open to ensure flushing of entire eye surface. Seek medical attention.



SKIN CONTACT:

Immediately flush skin with plenty of water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

INGESTION:

If swallowed, do not induce vomiting. Give large quantities of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

Section 5. Fire Fighting Measures

Not flammable. Use extinguishing media appropriate to the surrounding fire.

Protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear.

Section 6. Accidental Release Measures

Small Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the material. Wearing appropriate personal protective equipment, move the leaking container to a containment area or plug the leak. Neutralize with lime or other base, then absorb on inert material. Shovel up and dispose of according to local, state, and federal regulations.

Large Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the product. Wearing appropriate personal protective equipment, close or cap valves and/or block or plughole in leaking container and transfer to another container for proper disposal.

Section 7. Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Avoid contact with skin, eyes or clothing. Keep container securely closed when not in use.

Section 8. Exposure Controls / Personal Protection

Use protective equipment in accordance with 29 CFR 1910 Subpart I. Good general ventilation should be sufficient to control airborne levels. Wear chemical splash goggles or safety glasses with full-face shield. Wear rubber gloves. Wash them after each use and replace as necessary. If conditions warrant, wear impervious protective clothing such as boots, aprons, and coveralls to prevent skin contact. Maintain eyewash fountain and quick-drench facilities in work area.

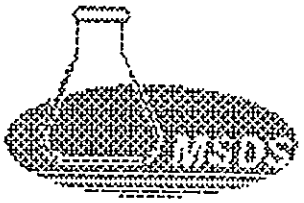
Section 9. Physical and Chemical Properties

APPEARANCE:	Clear colorless	PHYSICAL STATE:	Liquid
BOILING POINT:	~ 212 F	SOLUBILITY IN WATER:	Complete
EVAPORATION RATE:	<1	SPECIFIC GRAVITY:	~ 1.04
FREEZING POINT:	N/A	VAPOR DENSITY:	N/A
MELTING POINT:	N/A	VAPOR PRESSURE:	Negligible
MOLECULAR WT.:	N/A	VISCOSITY:	N/A
ODOR:	Mild	% VOCs:	None
pH:	~ 11.9		

Section 10. Stability and Reactivity

CHEMICAL STABILITY:	Stable at normal temperatures & pressures
INCOMPATIBILITY:	Strong acids; strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of phosphorous
HAZARDOUS POLYMERIZATION:	Will not occur



Section 11. Toxicological Information

Oral LD50 - 7400 mg/kg (rats)

Section 12. Ecological Information

Not tested

Section 13. Disposal Considerations

Does not meet the criteria of a hazardous waste as described in 40 CFR 261. Observe all federal, state and local regulations when disposing of this product.

Section 14. Transport Information (Not meant to be all inclusive)

Not D.O.T. Regulated

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

TSCA STATUS: All ingredients listed

CERCLA REPORTABLE QUANTITY: 5000 lbs. - sodium phosphate tribasic

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 313 TOXIC CHEMICALS: None

CALIFORNIA PROPOSITION 65: None

Section 16. Other Information

Hazard Ratings		Sara Hazard Categories - Section 311/312	
Health	1	Acute	Y
Flammability	0	Fire	N
Reactivity	0	Reactive	N
		Sudden Release	N

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon Information. NO REPRESENTATION OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

ChemTreat, Inc.



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name

CHEMTREAT BL-1517

Manufacturer's Name	Emergency Telephone Number
ChemTreat, Inc.	(800) 424-9300
Address (Number, Street, City, State, and ZIP Code)	Telephone Number For Information
Corporate Headquarters: 4301 Dominion Blvd. Glen Allen, Va. 23060	(800) 648-4579
	Date Prepared April 19, 2002 (NEW)
	Signature of Preparer Timothy H. Reid

Section 2. Composition / Information on Ingredients

Component	CAS Registry #	Wt. %
Morpholine	110-91-8	1 - 10

Section 3. Hazards Identification

EMERGENCY OVERVIEW:

Clear, colorless liquid with mild odor.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

Causes irritation, possibly severe, or burns to the eye.

INHALATION:

May cause severe irritation to nose, respiratory tract, and lungs if mist is inhaled.

SKIN CONTACT:

May cause irritation or burns.

INGESTION:

Harmful if ingested. May cause nausea and vomiting.

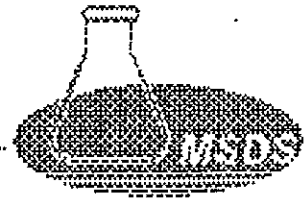
CHRONIC EFFECTS / CARCINOGENICITY:

No information on significant long-term effects.

Section 4. First Aid Measures

INHALATION:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.



EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of entire eye surface. Get immediate medical attention.

SKIN CONTACT:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Thoroughly wash or discard clothing and shoes before reuse.

INGESTION:

If swallowed, do NOT induce vomiting. Give victim large quantities of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5. Fire Fighting Measures

FLAMMABLE PROPERTIES

FLASH POINT: 141 F METHOD USED: PMCT

FLAMMABLE LIMITS:

LFL: Not determined UFL: Not determined

FIRE & EXPLOSION HAZARDS:

Use alcohol, foam, carbon dioxide, or water spray when fighting fires involving this material. As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear.

Section 6. Accidental Release Measures

Small Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the material. Wearing appropriate personal protective equipment, move the leaking container to a containment area or plug the leak. Neutralize with lime or other base, then absorb on inert material. Shovel up and dispose of according to local, state, and federal regulations.

Large Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the product. Wearing appropriate personal protective equipment, close or cap valves and/or block or plug hole in leaking container and transfer to another container for proper disposal.

Section 7. Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin and clothing. Keep containers closed and properly labeled. Keep away from heat, sparks and flame.

Section 8. Exposure Controls / Personal Protection

Use protective equipment in accordance with 29 CFR 1910 Subpart I. Good general ventilation should be sufficient to control airborne levels. Wear chemical splash goggles or safety glasses with full face shield. Wear rubber gloves. Wash them after each use and replace as necessary. If conditions warrant, wear impervious protective clothing such as boots, aprons, and coveralls to prevent skin contact. Maintain eyewash fountain and quick-drench facilities in work area.



Section 9. Physical and Chemical Properties

APPEARANCE:	Clear colorless	PHYSICAL STATE:	Liquid
BOILING POINT:	~212 F	SOLUBILITY IN WATER:	100%
EVAPORATION RATE:	N/A	SPECIFIC GRAVITY	~1.04
FREEZING POINT:	N/A	VAPOR DENSITY:	N/E
MELTING POINT:	N/E	VAPOR PRESSURE:	N/E
MOLECULAR WT.:	Mixture	VISCOSITY:	N/E
ODOR:	Fishy amine	% VOLATILE:	100 %
pH:	~12.2		

Section 10. Stability and Reactivity

CHEMICAL STABILITY: Stable

INCOMPATIBILITY: Strong oxidizers, acids

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide; carbon dioxide; ammonia; nitric oxides

HAZARDOUS POLYMERIZATION: Will not occur

Section 11. Toxicological Information

Morpholine - Oral LD50 (rats) = 1,050 mg/kg; Dermal LD50 (rabbits) = 500 mg/kg; TLV = 20 ppm (skin) ACGIH/OSHA

Section 12. Ecological Information

Not tested

Section 13. Disposal Considerations

This material may be considered to be hazardous under RCRA 261.22 (Corrosivity Criteria) and under RCRA 40 CFR 261.21 (Ignitable Criteria). Dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information (Not meant to be all inclusive)

D.O.T. SHIPPING NAME: Not D.O.T. Regulated

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

TSCA STATUS : All ingredients listed

CERCLA REPORTABLE QUANTITY: None

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 313 TOXIC CHEMICALS: None

CALIFORNIA PROPOSITION 65: None



Section 16. Other Information

Hazard Ratings

Health	2
Flammability	0
Reactivity	0

Sara Hazard Categories - Section 311/312

Acute	Yes
Chronic	No
Fire	No
Reactive	No
Sudden Release	No

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MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name

CHEMTREAT BL-1260

Manufacturer's Name	Emergency Telephone Number
ChemTreat, Inc.	(800) 424-9300
Address (Number, Street, City, State, and ZIP Code)	Telephone Number For Information
Corporate Headquarters: 4301 Dominion Blvd. Glen Allen, Va. 23060	(800) 648-4579
	Date Prepared January 21, 2002
	Signature of Preparer Timothy H. Reid

Section 2. Composition / Hazardous Ingredients

Component	CAS Registry #	Wt. %
Carbohydrazide	497-18-7	8-15%

Section 3. Hazards Identification

EMERGENCY OVERVIEW:

Colorless liquid. May cause irritation to eyes and skin

EYE CONTACT:

May cause irritation

INHALATION:

Harmful if inhaled

SKIN CONTACT:

May cause irritation

INGESTION:

Harmful if swallowed

CHRONIC EFFECTS / CARCINOGENICITY:

None known

TARGET ORGANS: Eyes & Skin

Section 4. First Aid Measures

INHALATION:

Remove to fresh air, give oxygen, consult a physician.

EYE CONTACT:

Flush with water for at least 15 minutes. If irritation persists, consult a physician.

SKIN CONTACT:

Wash with water, then soap and water. Remove and launder contaminated clothing before reuse. If irritation persists, consult a physician.



INGESTION:
Make patient drink excess water and induce vomiting. Call a physician.

Section 5. Fire Fighting Measures

FLAMMABLE PROPERTIES Not flammable

FLASH POINT: METHOD USED:

FLAMMABLE LIMITS:

LFL: UFL:

FIRE & EXPLOSION HAZARDS:
If involved in a fire, may release hydrazine, CO, CO_2

Section 6. Accidental Release Measures

Contain spill and place into containers for disposal. Not a RCRA regulated waste.

Section 7. Handling and Storage

Store at room temperature. Keep away from heat. Avoid contact with acids, oxidizers, hydrogen peroxide.

Section 8. Exposure Controls / Personal Protection

Use in a well ventilated area. Wear rubber gloves. Wear chemical splash goggles. A safety shower and eye wash station should be available.

Section 9. Physical and Chemical Properties

APPEARANCE:	Clear	PHYSICAL STATE :	Liquid
BOILING POINT:	N/A	SOLUBILITY IN WATER :	Complete
EVAPORATION RATE:	N/A	SPECIFIC GRAVITY:	1.02
FREEZING POINT:	N/A	VAPOR DENSITY :	As water
MELTING POINT:	N/A	VAPOR PRESSURE :	As water
MOLECULAR WT.:	N/A	VISCOSITY :	3.2 CPS
ODOR:	Musty	% VOLATILE :	100%
pH:	6.6—7.9		

Section 10. Stability and Reactivity

CHEMICAL STABILITY:
Stable
INCOMPATIBILITY:
Acids, oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS:
Hydrazine, CO, CO_2
HAZARDOUS POLYMERIZATION:
Will not occur

Section 11. Toxicological Information

Not tested. Low order of toxicity expected.

Section 12. Ecological Information

Not Tested

Section 13. Disposal Considerations

Dispose of according to local, state, and federal regulations.



Section 14. Transport Information (Not meant to be all inclusive)

D.O.T. SHIPPING NAME: Not D.O.T. Regulated

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

TSCA STATUS :	All ingredients listed.
CERCLA REPORTABLE QUANTITY:	None
SARA TITLE III:	
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES:	None
SECTION 313 TOXIC CHEMICALS:	None
SECTION 312/313:	None
CALIFORNIA PROPOSITION 65:	No

Section 16. Other Information

Hazard Ratings

Health	1
Flammability	0
Reactivity	1

Sara Hazard Categories - Section 311/312

Acute	Y
Chronic	N
Fire	N
Reactive	N
Sudden Release	N

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APR 0 7 2003

ChemTreat, Inc.



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name

ChemTreat CL-4896

Manufacturer's Name	Emergency Telephone Number
ChemTreat, Inc.	**(800) 424-9300**
Address (Number, Street, City, State, and ZIP Code)	Telephone Number For Information
Corporate Headquarters: 4301 Dominion Blvd. Glen Allen, Va. 23060	**(800) 648-4579**
	Date Prepared
	January 15, 2002 (NEW)
	Signature of Preparer
	Timothy H. Reid

Section 2. Composition / Information on Ingredients

Component	CAS Registry #	Wt. %
2-Phosphono-1,2,4-butanetricarboxylic acid	37971-36-1	1 - 10
Polymer/copolymer blend	Proprietary	20 - 40

Section 3. Hazards Identification

EMERGENCY OVERVIEW:

Dark, straw colored liquid. Highly irritating to eyes, skin and respiratory tract. Not flammable.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

Highly irritating upon contact.

INHALATION:

Exposure to mist can produce respiratory tract irritation.

SKIN CONTACT:

May be highly irritating to skin.

INGESTION:

May cause irritation to gastrointestinal tract.

CHRONIC EFFECTS / CARCINOGENICITY:

Similar to acute effects.



Section 4. First Aid Measures

INHALATION:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT:

Immediately flush with large amounts of water. Use soap, if available. Remove contaminated clothing, including shoes, after flushing has begun. Get prompt medical attention.

INGESTION:

If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5. Fire Fighting Measures

FLAMMABLE PROPERTIES

FLASH POINT: Not flammable METHOD USED: NA

FLAMMABLE LIMITS:

LFL: NA UFL: NA

FIRE & EXPLOSION HAZARDS:

Material will not burn. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6. Accidental Release Measures

Small Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the material. Wearing appropriate personal protective equipment, move the leaking container to a containment area or plug the leak. Neutralize with lime or other base, then absorb on inert material. Shovel up and dispose of according to local, state, federal regulations.

Large Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the product. Wearing appropriate personal protective equipment, close or cap valves and/or block or plug hold in leaking container and transfer to another container for proper disposal.

Section 7. Handling and Storage

Wash thoroughly after handling. Use only in a well-ventilated area. Keep containers closed and properly labeled. Do not get in eyes, on skin, or on clothing. Keep from freezing. Keep away from food and drinking water.

Section 8. Exposure Controls / Personal Protection

Use protective equipment in accordance with 29 CFR 1910 Subpart I. Good general ventilation should be sufficient to control airborne levels. Wear chemical splash goggles or safety glasses with full-face shield. Wear rubber gloves. Wash them after each use and replace as necessary. If conditions warrant, wear impervious protective clothing such as boots, aprons, and coveralls to prevent skin contact. Maintain eyewash fountain and quick-drench facilities in work area.



Section 9. Physical and Chemical Properties

APPEARANCE:	Hazy straw colored	PHYSICAL STATE:	Liquid
BOILING POINT:	~212F	SOLUBILITY IN WATER:	Complete
EVAPORATION RATE:	As water	SPECIFIC GRAVITY	~ 1.130
FREEZING POINT:	Not tested	VAPOR DENSITY:	As water
MELTING POINT:	Not applicable	VAPOR PRESSURE:	As water
MOLECULAR WT.:	Mixture	VISCOSITY:	Not applicable
ODOR:	Mild	% VOCs:	None
pH:	~ 3.4		

Section 10. Stability and Reactivity

CHEMICAL STABILITY: Stable at normal temperature and pressure
INCOMPATIBILITY: Strong bases; oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, carbon, and phosphorous
HAZARDOUS POLYMERIZATION: Will not polymerize

Section 11. Toxicological Information

2-Phosphono-1,2,4-butanetricarboxylic acid	Oral LD50 (rats)	<6,000 mg/kg

Section 12. Ecological Information

Not tested

Section 13. Disposal Considerations

Not a RCRA-regulated waste

Section 14. Transport Information (Not meant to be all inclusive)

D.O.T. SHIPPING NAME: Not D.O.T. Regulated

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

TSCA STATUS: All ingredients listed
CERCLA REPORTABLE QUANTITY: None
SARA TITLE III:
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None
SECTION 313 TOXIC CHEMICALS: None
CALIFORNIA PROPOSITION 65: No



Section 16. Other Information

Hazard Ratings

Health	**2**
Flammability	**0**
Reactivity	**0**

Sara Hazard Categories - Section 311/312

Acute	**Y**
Chronic	**N**
Fire	**N**
Reactive	**N**
Sudden Release	**N**

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MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name

ChemTreat CT-708

Manufacturer's Name	Emergency Telephone Number
ChemTreat, Inc.	**(800) 424-9300**
Address (Number, Street, City, State, and ZIP Code)	Telephone Number For Information
Corporate Headquarters: 4301 Dominion Blvd. Glen Allen, Va. 23060	**(800) 648-4579**
	Date Prepared **February 11, 2002 (revision)**
	Signature of Preparer Timothy H. Reid

Section 2. Composition / Information on Ingredients

Component	CAS Registry #	Wt. %
Sodium hexametaphosphate	10124-56-8	>1

Section 3. Hazards Identification

EMERGENCY OVERVIEW:

Water clear liquid; mild odor. Not flammable.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

May produce irritation upon contact with eyes.

INHALATION:

Mists may be irritating to the respiratory tract.

SKIN CONTACT:

May produce irritation, drying of the skin and dermatitis upon repeated or prolonged contact with the skin.

INGESTION:

Harmful if swallowed.

CHRONIC EFFECTS / CARCINOGENICITY:

No significant information found on long-term effects.

Section 4. First Aid Measures

INHALATION:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of entire eye surface. Seek medical attention.



SKIN CONTACT:
In case of contact, immediately wash skin with plenty of water while removing contaminated clothing and shoes. Get medical attention immediately. Thoroughly wash and decontaminate clothing before reuse.
INGESTION:
If swallowed, do NOT induce vomiting. Give large quantities of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5. Fire Fighting Measures

FIRE & EXPLOSION HAZARDS:
Not flammable. Use extinguishing media appropriate to the surrounding fire. If product is involved in a fire, firefighters should wear full protective clothing, including a NIOSH-approved, self-contained breathing apparatus. Keep containers cool with water spray to minimize the potential of decomposition.

Section 6. Accidental Release Measures

Wearing appropriate protection equipment, contain spill. Using an inert chemical absorbent, collect spilled material and place in a properly labeled container for disposal. Report spills as required to appropriate authorities.

Section 7. Handling and Storage

Avoid contact with eyes, skin and clothing. Do not breathe vapor or mist. Wash thoroughly after handling. Keep away from heat & oxidizers. Keep container securely closed when not in use. Use with adequate ventilation. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations.

Section 8. Exposure Controls / Personal Protection

Respiratory protection is not required under normal conditions of use.
Eye protection - chemical splash goggles
Ventilation - local exhaust
Skin protection - rubber gloves, apron and boots
Other protection - eye wash fountain and safety shower

Section 9. Physical & Chemical Properties

Appearance:	Water clear liquid	Form:	Liquid
Boiling Point:	~212F	Vapor Pressure:	<17.5
Vapor Density:	Not applicable	Solubility:	Complete
Specific Gravity:	~1.29	% Volatile:	70
Evaporation Rate:	<1	pH:	~5.7
Odor:	Mild		

Section 10. Stability and Reactivity

CHEMICAL STABILITY:	Product is stable at normal temperatures and pressure
INCOMPATIBILITY:	None known
HAZARDOUS DECOMPOSITION PRODUCTS:	None known

HAZARDOUS POLYMERIZATION:	Will not polymerize



Section 11. Toxicological Information

oral rat LD50 - 2.9 g/kg

Section 12. Ecological Information

Mysid shrimp - 48 hour LC50 = >1000 mg/L
Sheepshead minnow - 96 hour LC50 = >1000 mg/L

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. Does not meet the criteria of a hazardous waste as described in 40 CFR 261.

Section 14. Transport Information (Not meant to be all inclusive)

D.O.T. SHIPPING NAME: Not D.O.T. Regulated

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

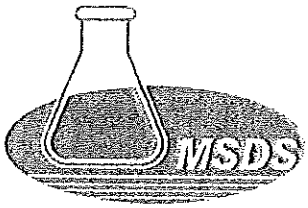
TSCA STATUS :	All ingredients listed
CERCLA REPORTABLE QUANTITY:	None
SARA TITLE III:	
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES:	None
SECTION 313 TOXIC CHEMICALS:	None
CALIFORNIA PROPOSITION 65:	None

Section 16. Other Information

Hazard Ratings	
Health	1
Flammability	0
Reactivity	0
SARA Hazard Categories - Section 311/312	
Acute	Yes
Chronic	No
Fire	No
Reactive	No
Sudden Release	No

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ChemTreat, Inc.



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name:	**ChemTreat CL-4892**
Manufacturer's Name:	ChemTreat, Inc.
Emergency Telephone Number:	(800) 424-9300
Address (Corporate Headquarters)	4461 Cox Road, Glen Allen, VA 23060
Telephone Number for Information:	(800) 648-4579
Date of MSDS:	May 19, 2003

Section 2. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt. %
Potassium hydroxide	1310-58-3	< 10
Tolytriazole, sodium salt	64665-57-2	< 10
Quadrasperse® polymer	Proprietary	10 - 40
1-Hydroxyethylidene-1,1-diphosphonic acid, tetrapotassium salt	14860-53-8	< 10

Section 3. Hazards Identification

Emergency Overview: Clear, amber colored liquid. Corrosive to eyes, skin, and respiratory tract. Not flammable.

Potential Health Effects:

Eyes - Will cause corrosive effects (burns or irreversible damage) to the eyes.

Skin - Will cause corrosive effects (burns or irreversible damage) to the skin.

Inhalation - Will cause corrosive effects (burns or irreversible damage) to the lungs, upper respiratory tract, and nose.

Ingestion: Will cause corrosive effects (burns or irreversible damage) to the mouth, throat, or digestive tract.

Chronic Effects/Carcinogenicity: No information available on significant long-term effects.

Section 4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

Skin: Immediately flush with large amounts of water. Use soap, if available. Remove contaminated clothing, including shoes, after flushing has begun. Get prompt medical attention.
Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5. Fire Fighting Measures

Flammable Properties: Not flammable
Suitable Extinguishing Media: Use extinguishing media appropriate to surrounding fire.
Fire & Explosion Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Protective Equipment: If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH-approved, self-contained breathing apparatus.

Section 6. Accidental Release Measures

Small Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the material. Wearing appropriate personal protective equipment, move the leaking container to a containment area or plug the leak. Absorb on inert material, then shovel up and dispose of according to local, state, federal regulations.
Large Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the product. Wearing appropriate personal protective equipment, close or cap valves and/or block or plug hold in leaking container and transfer to another container for proper disposal.

Section 7. Handling and Storage

Keep from freezing. Use only in a well-ventilated area. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Avoid breathing mists. Do not ingest. Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For industrial use only.

Section 8. Exposure Controls/Personal Protection

Use protective equipment in accordance with 29 CFR 1910 Subpart I. Good general ventilation should be sufficient to control airborne levels. Wear chemical splash goggles or safety glasses with full-face shield. Wear rubber gloves. Wash them after each use and replace as necessary. If conditions warrant, wear impervious protective clothing such as boots, aprons, and coveralls to prevent skin contact. Maintain eyewash fountain and quick-drench facilities in work area.

Section 9. Physical and Chemical Properties

Appearance: Clear, amber colored	Physical state: Liquid
Boiling Point: ~212 F	Solubility in Water: Complete
Evaporation Rate: As water	Specific Gravity: ~1.212

Freezing Point: 21 F
Melting Point: N/A
Molecular Weight: Mixture
Odor: Mild
pH: ~13.9

Vapor Density: As water
Vapor Pressure: As water
Viscosity: N/A
% VOCs:

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.
Incompatibility: Strong acids, oxidizers
Hazardous Decomposition Products: Oxides of nitrogen, carbon and phosphorus
Hazardous Polymerization: Will not occur

Section 11. Toxicological Information

Potassium hydroxide: Oral LD50 (rats) = 365 mg/kg

Section 12. Ecological Information

Not tested

Section 13. Disposal Considerations

Dispose of as an unlisted hazardous waste, characteristic of corrosivity, D002.

Section 14. Transport Information (not meant to be all inclusive)

D.O.T. Shipping Name: Potassium hydroxide solution
Hazard Class: 8; UN/NA#: UN1814; D.O.T. Label: Corrosive; Packing Group: II

Section 15. Regulatory Information (*Not meant to be all inclusive - selected regulation represented)*

TSCA Status: All ingredients listed
CERCLA Reportable Quantity: Yes - Potassium hydroxide 1000 lbs.
SARA Title III:
Section 302 Extremely Hazardous Substances: None
Section 313 Toxic Chemicals: None
CALIFORNIA PROPOSITION 65: None

Section 16. Other Information

Hazard (NFPA) Rating:
Health 3 Flammability 0 Reactivity 1

SARA Hazard Categories - Section 311/312
Acute - Yes Chronic - No Fire - No Reactive - No Sudden Release - No

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Timothy H. Reid

Director, Regulatory Affairs

ChemTreat, Inc.



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name:	**ChemTreat CL-241**
Manufacturer's Name:	ChemTreat, Inc.
Emergency Telephone Number:	(800) 424-9300
Address (Corporate Headquarters)	4461 Cox Road, Glen Allen, VA 23060
Telephone Number for Information:	(800) 648-4579
Date of MSDS:	October 29, 2003

Section 2. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt. %
Dimethylpolysiloxane	Mixture	5 - 10

Section 3. Hazards Identification

Emergency Overview: Milky white, opaque liquid; odorless.
Potential Health Effects:
Eyes – May produce oil film, causing brief reversible dimness of sight.
Skin – Single, prolonged exposure (hours) causes no known effect. Several repeated, prolonged exposures may cause slight irritation.
Inhalation – No irritation to nose or throat expected. No injury is likely from relatively short exposure.
Ingestion – Amounts transferred to the mouth by fingers, etc., during normal operations should not cause any injury.
Chronic Effects/Carcinogenicity: No known adverse chronic health effects.

Section 4. First Aid Measures

Inhalation: Move person to fresh air. If person is not breathing, get medical assistance, then give artificial respiration, preferably mouth-to-mouth.
Eyes: Hold eyes open and rinse slowly and gently with water for 15 – 20 minutes. Get medical attention if irritation develops or persists.
Skin: Wash with soap and water. Get medical attention if irritation develops or persists.
Ingestion: Never give anything by mouth to an unconscious person. Consult a physician.

Section 5. Fire Fighting Measures

Flammable Properties: Flash Point – 212 F (PMCC)

Suitable Extinguishing Media: Use extinguishing media appropriate to surrounding fire.
Fire & Explosion Hazards: This product contains methyl-polysiloxane which can generate formaldehyde at approximately 300 F (150 C) and above in atmospheres that contain oxygen. Other decomposition products are carbon oxides, sulfur oxides, nitrogen oxides, and silica (crystalline).
Protective Equipment: Wear full protective clothing including a positive-pressure, NIOSH-approved, self-contained breathing apparatus.

Section 6. Accidental Release Measures

Small Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the material. Wearing appropriate personal protective equipment, move the leaking container to a containment area or plug the leak. Absorb on inert material, then shovel up and dispose of according to local, state, federal regulations.
Large Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the product. Wearing appropriate personal protective equipment, close or cap valves and/or block or plug hold in leaking container and transfer to another container for proper disposal.

Section 7. Handling and Storage

Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Avoid breathing mists. Do not ingest. Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For industrial use only.

Section 8. Exposure Controls/Personal Protection

Use protective equipment in accordance with 29 CFR 1910 Subpart I. Good general ventilation should be sufficient to control airborne levels. Wear chemical splash goggles or safety glasses with full-face shield. Wear rubber gloves. Wash them after each use and replace as necessary. If conditions warrant, wear impervious protective clothing such as boots, aprons, and coveralls to prevent skin contact. Maintain eyewash fountain and quick-drench facilities in work area.

Section 9. Physical and Chemical Properties

Appearance: Opaque milky white
Boiling Point: N/D
Evaporation Rate: N/D
Freezing Point: 32 F
Melting Point: N/A
Molecular Weight: N/D
Odor: Mild
pH: ~ 4.0
Physical state: Liquid
Solubility in Water: Dispersible
Specific Gravity: ~1.008
Vapor Density: N/D
Vapor Pressure: N/D
Viscosity: 2000
% VOCs: N/D

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility: Strong oxidizers
Hazardous Decomposition Products: None known
Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

No information furnished

Section 12. Ecological Information

Not tested

Section 13. Disposal Considerations

Not a RCRA-regulated waste. Observe all federal, state and local regulations when disposing of this product.

Section 14. Transport Information (not meant to be all inclusive)

D.O.T. Shipping Name: Not D.O.T. Regulated

Section 15. Regulatory Information (*Not meant to be all inclusive - selected regulation represented)*

TSCA Status: All ingredients listed
CERCLA Reportable Quantity: None
SARA Title III:
Section 302 Extremely Hazardous Substances: None
Section 313 Toxic Chemicals: None
CALIFORNIA PROPOSITION 65: None
KOSHER: This product is certified by the Orthodox Union as kosher pareve.

Section 16. Other Information

Hazard (NFPA) Rating:
Health 0 Flammability 0 Reactivity 1

SARA Hazard Categories - Section 311/312
Acute - No Chronic - No Fire - No Reactive - No Sudden Release - No

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Timothy H. Reid
Director, Regulatory Affairs

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SULFURIC ACID
HAZMIN Number: 6380

Company Data

Current Company: SHRIEVE CHEMICAL CO.
1717 WOODSTEAD CT.
THE WOODLANDS , TX 77380
Emergency Phone: 800-367-4226

Manufacturer/Supplier: SHRIEVE CHEMICAL CO.
1717 WOODSTEAD CT.
THE WOODLANDS, TX 77380-
Emergency Phone: 800-367-4226

Product Data

Stock ID 1: SULFURIC ACID #6380-E14
Stock ID 2: SULFURIC ACID #4365-E14
Stock ID 3: SULFURIC ACID #1058-A14
Stock ID 4: SULFURIC ACID #2007-A14
Stock ID 5: SULFURIC ACID #2406-A14
Stock ID 6: SULFURIC ACID #3673-A14
Stock ID 7: SULFURIC ACID, 96% #3512-A14
Stock ID 8: SULFURIC ACID #4365-A14
Stock ID 9: SULFURIC ACID #6380-A14
MSDS Prepared: 2/29/1996
Revised: 2/29/1996

Physical and Chemical Data

Boiling Point: Between 00600 And 00640°C **NOTE:** 315-338'C.
Specific Gravity: = 01.84
Vapor Density: = 002.8
Melt/Freeze Point: **NOTE:** NOT DETERMINED.
pH: **NOTE:** NOT DETERMINED.
Vapor Pressure: @ **NOTE:** NOT DETERMINED.
Solubility in Water: TOTALLY SOLUBLE.
Appearance/Odor: LIQUID, CLEAR, COLORLESS, ODORLESS.
Hazard Rating A: HMIS Internal Rating: CHRONIC Health = 3
Flammability = 0 Reactivity = 2
Personal Protective Equipment: Goggles, CR Gloves and Clothing (Depends on Use)

Target Organs According to Consultant
Target Organ 1: EYES
Target Organ 2: GI TRACT
Target Organ 3: MUCOUS MEMBRANES
Target Organ 4: SKIN
Target Organ 5: URS
Target Organ 6: ESOPHAGUS

Fire and DOT Data

Flash Point Closed: **NOTE:** NOT APPLICABLE.
Flash Point Open: **NOTE:** NOT APPLICABLE.
Auto Ignition: °C **NOTE:** NOT DETERMINED.
LEL/LFL: **NOTE:** NOT DETERMINED.
UEL/UFL: **NOTE:** NOT DETERMINED.
Preparer Information: ENVIRONMENT, HEALTH AND SAFETY DEPARTMENT

UN Number: 1830
DOT Class: 8
Proper Shipping Name: SULFURIC ACID

Component Data

Component: SULFURIC ACID
Cas No: 7664939
Product: No
Trade Secret: No
Percent: = 100
EPCRA 313 Chemical: No
Extremely Hazardous Substance: No
OSHA TWA (mg/M3): 1
OSHA STEL (mg/M3): 3
ACGIH TWA (mg/M3): 1
Limit Note: ACGIH STEL.

1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SULFURIC ACID

EMERGENCY HEALTH INFORMATION: 1 (800) 367-4226
EMERGENCY SPILL INFORMATION: 1 (800) 424-9300 CHEMTREC (USA)

SUPPLIER:

SHRIEVE CHEMICAL COMPANY
1717 WOODSTEAD COURT
THE WOODLANDS, TX 77380

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

SEE COMPONENT PAGE(S) FOR ADDITIONAL INFORMATION.

(See Section 8.0 "Exposure Controls/Personal Protection", for exposure guidelines)

3.0 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Danger! Causes eye damage and skin burns.

MIST: Causes respiratory irritation.

VAPOR: Causes respiratory irritation. Harmful if inhaled. Harmful or fatal if swallowed.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Causes eye damage.

SKIN CONTACT: Causes skin burns.

INHALATION: Causes respiratory irritation. See "Toxicology Information" section (Section 11.0).

INGESTION: Causes severe irritation or burns of the mouth, throat, and esophagus.

HMIS CODE:

HEALTH: 3
FLAMMABILITY: 0
REACTIVITY: 2 WATER REACTIVE

NFPA CODE:

HEALTH: 3
FLAMMABILITY: 0
REACTIVITY: 2 WATER REACTIVE

4.0 FIRST AID MEASURES

EYE: Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

SKIN: Immediately flush in cool water for at least 15 minutes. Remove contaminated clothing, including shoes, and thoroughly clean and dry before reuse. Get immediate medical attention.

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Give oxygen if breathing is difficult. Get immediate medical attention.

INGESTION: If swallowed, drink plenty of water, do NOT induce vomiting. Get immediate medical attention.

5.0 FIRE FIGHTING MEASURES

FLASHPOINT: Not applicable.

UEL: Not determined.
LEL: Not determined.

AUTOIGNITION TEMPERATURE: Not determined.

FLAMMABILITY CLASSIFICATION: Not Flammable.

EXTINGUISHING MEDIA: Dry chemical can be used. Do NOT use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Under fire conditions, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Capable of igniting finely divided combustibles on contact. Reacts violently with water and organic materials with evolution of heat. Reacts with many metals to form highly flammable hydrogen gas. The rate of hydrogen generation increases wit decreasing concentration.

FIRE FIGHTING EQUIPMENT: Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

PRECAUTIONS: Concentrated vapors of sulfur acid are extremely irritating to the respiratory tract and may cause breathing difficulty and pulmonary edema. Prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate nonessential personnel from the fire area. Maintain a safe distance from the fire and storage area because excessive heat may cause tank to rupture. Wear full-face, self-contained breathing apparatus and impervious clothing (such as gloves, hoods, suits and rubber boots).

HAZARDOUS COMBUSTION PRODUCTS: Burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

6.0 ACCIDENTAL RELEASE MEASURES

Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. Use adequate ventilation or wear an air-supplied respirator to prevent inhalation contact. Wear suitable protective clothing to prevent skin and eye contact. Use the following procedures. Any leaks occurring in pipelines or equipment should be considered an acid leak and treated with extreme caution until the leak is proven not to be an acid stream. Adjust all appropriate valves to isolate the system and stop further leakage. The contaminated area should be thoroughly flushed down with copious quantities of water. Soda ash or lime should be spread around to neutralize any remaining acidity on the surface of the ground or concrete pad. If water is not available, the contaminated area should be covered with sand or gravel, and acidity neutralized with soda ash or lime. Sulfuric acid leaks, spills, or drainings must not come in contact with any acid soluble sulfide wastes (such as in sewers), because of the danger of evolving hydrogen sulfide gas.

7.0 HANDLING AND STORAGE

HANDLING: When diluting, always add the acid slowly to water. Do not add water to acid because a large amount of heat will be produced and localized boiling and spattering may occur.

STORAGE: Protect against physical damage and water. Separate from carbides, chlorates, fulminates, nitrates, picrates, powdered metals, and other combustible materials. Attacks many metals, releasing hydrogen.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE: Do not get in eyes. Wear chemical goggles and face shield.

SKIN: Do not get on skin or clothing. Wear clothing, gloves and footwear that cannot be penetrated by chemicals or oil. Butyl rubber is resistant to this product.

INHALATION: If ventilation is inadequate, use NIOSH/MSHA certified respirator that will protect against acid gas/mist.

ENGINEERING CONTROLS: Control airborne concentrations below the exposure guidelines.

EXPOSURE GUIDELINES:

COMPONENT CAS# EXPOSURE LIMITS

Sulfuric acid 7664-93-9 OSHA PEL: 1 mg/m3 (1989(1971)
ACGIH TLV-TWA: 1 mg/m3
ACGIH TLV-STEL: 3 mg/m3

9.0 CHEMICAL AND PHYSCIAL PROPERTIES

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

10.0 STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: Avoid exposure to water.

MATERIALS TO AVOID: Reacts violently with water and organic materials with evolution of heat. Extremely hazardous in contact with many materials, particularly carbides, chlorates, fulminates, nitrates, picrates, powdered metals, and other combustible materials. Attacks many metals, releasing hydrogen.

HAZARDOUS DECOMPOSITION: None identified.

HAZARDOUS POLYMERIZATION: Will not occur.

11.0 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY DATA:

EYE IRRITATION: Testing not conducted. See Other Toxicity Data.

SKIN IRRITATION: testing not conducted. See Other Toxicity Data.

DERMAL LD50: Testing not conducted. See Other Toxicity Data.

ORAL LD50: Testing not conducted. See Other Toxicity Data.

INHALATION LC50: Testing not conducted. See Other Toxicity Data.

OTHER TOXICITY DATA: Sulfuric acid is highly corrosive and irritating to eyes, skin, and mucous membranes of the gastrointestinal and respiratory tract. Dental erosion has been observed as a result of industrial exposure to acid mists.

The International Agency for Research on Cancer (IARC) has listed occupational exposures to strong inorganic acid mists containing sulfuric acid as Group 1, carcinogenic to humans. IARC based their conclusion on a review of several epidemiology studies involving industries in which strong inorganic acids are manufactured or used in a manufacturing process. These industries include isopropanol manufacture, synthetic ethanol manufacture, pickling and other acid treatment of metal, sulfuric acid manufacture, soap and detergent manufacture, nitric acid manufacture, phosphate fertilizer manufacture and lead battery manufacture. IARC monographs indicated a positive association between exposure to strong inorganic-acid mists containing sulfuric acid and an increase in cancer of the nasal sinus, larynx, and lung.

12.0 ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

13.0 DISPOSAL INFORMATION

Disposal must be in accordance with applicable federal, state, or local regulations.

14.0 TRANSPORTATION INFORMATION

U.S. DEPT OF TRANSPORTATION:

SHIPPING NAME: Sulfuric Acid
HAZARD CLASS: 8
IDENTIFICATION NUMBER: UN1830
PACKING GROUP: II
RQ: RQ

INTERNATIONAL INFORMATION:

SEA (IMO/IMDG):

SHIPPING NAME: Not determined.

AIR (ICAO/IATA):

SHIPPING NAME: Not determined.

EUROPEAN ROAD/RAIL (ADR/RID):

SHIPPING NAME: Not determined.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

SHIPPING NAME: Not determined.

15.0 REGULATORY INFORMATION

CERCLA SECTIONS 102A/103 HAZARDOUS SUBSTANCES (40 CFR PART 302.4): This product is reportable under 40 CFR Part 302.4 because it contains the following substance(s):

COMPONENT/CAS NUMBER WEIGHT % COMPONENT REPORTABLE QUANTITY (RQ)

Sulfuric acid 7664-93-9 100 1,000 lbs.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR PART 355):
This product contains the following substance(s), which is on the Extremely Hazardous Substances List (Appendix A of 40 CFR Part 355):

COMPONENT/CAS NUMBER COMPONENT THRESHOLD COMPONENT REPORTABLE
PLANNING QUANTITY (TPQ) REPORTABLE QUANTITY (RQ)

Sulfuric acid 7664-93-9 1,000 lbs 1,000 lbs

SARA TITLE III SECTIONS 311/312 HAZARDOUS CATEGORIZATION (40 CFR PART 370):
This product is defined as hazardous by OSHA under 29 CFR Part 1910.1200(d).

SARA TITLE III SECTION 313 (40 CFR PART 372): This product is not regulated under Section 313 of SARA and 40 CFR Part 372.

U.S. INVENTORY (TSCA): Listed on inventory.

OSHA HAZARD COMMUNICATION STANDARD: Corrosive. Water reactive.

EC INVENTORY (EINECS/ELINCS): Not determined.

JAPAN INVENTORY (MITI): Not determined.

AUSTRALIA INVENTORY (AICS): Not determined.

KOREA INVENTORY (ECL): Not determined.

CANADA INVENTORY (DSL): Not determined.

PHILIPPINE INVENTORY (PICCS): Not determined.

16.0 OTHER INFORMATION

PREPARED BY: Environment, Health and Safety Department

ISSUED: February 29, 1996

SUPERSEDES: October 05, 1993

This material Safety Data Sheet conforms to the requirements of ANSI Z400.1.

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

HAZMIN Version: 2 / Last Edited on 2/28/2002 10:51:38 AM

Report: 3/5/2003 2:29:20 PM

HAZMIN

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Material Safety Data Sheet

AQUACHLOR™
Sodium Hypochlorite Solution

ALTIVIA

Revised: 08/09/01

ALTIVIA Corporation
1100 Louisiana, Suite 3160
Houston, Texas 77002-5217

Emergency(Chemtrec): (800) 424-9300
Product Information: (713) 658-9000

HAZARDOUS INGREDIENTS/IDENTIFY INFORMATION

Hazardous Components	OSHA PEL	ACGIH TLV	CAS#
Sodium Hypochlorite	0.5 ppm as Cl_2	0.5 ppm as Cl_2	7681-52- 9
Sodium Hydroxide	2 mg/m^3	2 mg/m^3	1310-73-2

PHYSICAL / CHEMICAL CHARACTERISTICS

Specific Gravity	1.15-1.20	Evaporation rate:	N/A
Boiling Point (°C):	Decomposes	Vapor Pressure (mmHg):	17.5 @ 20°C
Melting Point (°C):	N/A	Vapor Density (Air = 1):	N/A
Solubility in Water:	Complete		
Appearance/Color:	Clear, pale yellow or slightly green		

FIRE AND EXPLOSION HAZARDS

Flash Point:	Non-Flammable	LEL:	N/A
Flammable Limits:	N/A	UEL:	N/A
Extinguishing Media:	N/A		
Special Fire Fighting Procedure/Precaution:	Use extinguishing media that is appropriate for the surrounding fire. Use water spray to cool fire exposed containers. Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing if involved in a fire. Protection is needed against corrosive fumes if liquid is released.		
Unusual Fire/Explosion Hazards:	Sodium hypochlorite is an oxidizing agent. Keep away from oxidizable materials in a fire situation. Decomposition can be caused by heat. If possible, remove containers from fire area to prevent over pressurization and rupture.		

REACTIVITY DATA

Reactivity:	Reaction with acids, ammoniacal compounds, oxidizable materials, and metals.
Stability:	Stable under proper storage conditions.
Incompatibility:	Any acid metal, ammonia, urea, oxidizable materials, and metals (nickel, copper, tin, aluminum, and iron).
Hazardous Decomposition/Byproducts:	Chlorine gas (Cl_2) rate of decomposition increases with the concentration and with temperatures above 85F.
Hazardous Polymerization:	Will not occur
Condition to Avoid:	Keep away from high heat, and sunlight or ultra-violet light. Do not store above 85F.

HEALTH HAZARDS & MEDICAL PROCEDURES

The common recognized injury from sodium hypochlorite is tissue irritation.

ROUTES OF ENTRY

Inhalation:	Irritation of the respiratory system. Mist or fumes may cause bronchial irritation, coughing, difficult breathing, nausea and pulmonary edema.
Ingestion:	Oral or gastrointestinal irritation. Corrosion of mucous membranes, perforation of esophagus and stomach may follow.
Skin-Eye Contact:	Liquid or mist contact can produce severe eye irritation. Liquid contact can cause blistering and eczema.

MEDICAL PROCEDURES

Inhalation:	Remove victim from contaminated atmosphere. If breathing has stopped, give artificial respiration. Weak breathing may be supplemented with a bag-mask respirator or a manually operated air supply that delivers at least 1 Liter/sec.
Ingestion:	CALL PHYSICIAN IMMEDIATELY. Rinse mouth with water. Immediately dilute swallowed material by orally administering large amounts of water or milk. **DO NOT INDUCE VOMITING**. Do not use acidic antidotes or sodium bicarbonate.
Skin-Eye Contact:	CALL PHYSICIAN IMMEDIATELY. For eyes, immediately flush victim's eyes with running water for at least 15 minutes. For skin, immediately remove contaminated clothing under a safety shower. Flush skin with running water for at least 15 minutes. Contact a physician for burns. Launder clothing before reuse.
Carcinogenicy:	Sodium Hypochlorite is not listed as a carcinogen by NTP, IARC, ACGIH, or OSHA
Toxicity:	The acute oral LD50 (rat) is 12 g/kg.

CONTROL MEASURES

PERSONAL SAFETY EQUIPMENT

Respiratory:	Cartridges must be NIOSH/MSHA approved against chlorine. In case of fire, use SCBA for rescue.
Hands:	Rubber gloves
Body:	Acid Suit or Duster Style Long PVC Slicker Suit.
Face-Eyes:	Face Shield with Safety Glasses or Clear Goggles

HANDLING AND STORAGE

Storage:	Stainless steel or fiberglass tanks are recommended. Keep product away from heat sources and direct sunlight. Do not reuse storage containers unless properly reconditioned.
Spill or Leak:	Prevent liquid from entering sewers or waterways. Sodium hypochlorite can be neutralized with weak reducing agents. Adequate ventilation is required when containing spills/leaks.
Disposal:	Contact state or federal agencies for disposal procedures that are in accordance with environmental regulations for a large or uncontained spill. Wear appropriate protective gear.

OTHER INFORMATION

TRANSPORTATION INFORMATION

DOT Shipping Name: Hypochlorite Solution
Class: 8 UN#: 1791 Packing Group: PG III RQ: 100 lbs.

SARA TITLE III INFORMATION

Extremely Hazardous Substances: Not Listed

Section 311 & 312 – Health and Physical Hazards

Immediate	Delayed	Fire	Pressure	Reactivity
(yes)	(no)	(no)	(no)	(no)

NFPA RATING

Health: 2 Fire: 0 Reactivity: 2

Disclaimer of Warranty:

The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. ALTIVIA provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. ALTIVIA knows of no medical condition, other than those noted on this material safety data sheet, which are generally recognized as being aggravated by exposure to this product.

Spill/Exposure Overview

Product: AQUACHLOR SODIUM HYPOCHLORITE SOLUTION

Company: ALTIVIA CORP.

HAZMIN Number: 19079

Overview

- Wear suitable personal protective equipment to avoid unprotected contact. Provide adequate ventilation.
- May cause eye, skin, and/or respiratory irritation.
- Will cause illness if ingested, inhaled, and/or absorbed through the skin.
- May explode if heated, exposed to open flame, or sparks, and/or by reaction with an oxidizer or acids/alkalies.
- Will cause chemical burns to eyes, skin, and/or respiratory system.
- Product is or contains a strong oxidizer. Avoid contact with oils, fuels, greases, organic materials and reducing agents. Contact with these materials may cause ignition.
- May become unstable at elevated temperatures and pressure and/or may react with oxidizers or concentrated acids/alkalies.
- Contain spilled material to prevent spreading. Recover spilled material using an inert absorbent.

Hazard Label Ratings

HEALTH: 3
FLAMMABILITY 0
REACTIVITY: 2
Chronic: C
Legend 0 Minimal, 1 Slight, 2 Moderate, 3 Serious, 4 Severe, C Chronic

PPE: Face Shield, CR Clothes, Apprvd Resp. (Depends on Use)

Mfg Emergency Phone No.: 800-424-9300

Components

Component: SODIUM HYPOCHLORITE
RQ: **Component:** 100 Pounds, **MSDS:** 100.0 Pounds or 10.4 Gallons

Component: SODIUM HYDROXIDE
RQ: **Component:** 1000 Pounds, **MSDS:** 1,000.0 Pounds or 104.2 Gallons

RQ is Reportable Quantity.

Reliant must report all unauthorized spills and releases to the environment of hazardous substances that exceed the Reportable Quantity (RQ) for the MSDS. Please notify your plant or divisional environmental staff immediately so that proper notifications can be made to federal and state environmental agencies. Provide the available MSDS information and the quantity released.

Report: 3/5/2003 2:25:43 PM

HAZMIN

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