REVIEWED BY : L.D. Wright 11-24-80 OK01589

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION 6 | SITE NUMBER (to be assigned by HQ) [redacted]

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Tack Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME: Vickers Petroleum Soil Farm
B. STREET (or other identifier): P.O. Box 188 S/2, N/2, NW/4 Sec 16 T4S, R2E
C. CITY: Ardmore
D. STATE: OK
E. ZIP CODE: 73401
F. COUNTY NAME: Carter

G. SITE OPERATOR INFORMATION
1. NAME: Vickers Petroleum Corp. - Bell Refinery
2. TELEPHONE NUMBER: (405) 223-0534
3. STREET: 142 By Pass
4. CITY: Ardmore
5. STATE: OK
6. ZIP CODE: 73401

H. REALTY OWNER INFORMATION (if different from operator of site)
1. NAME: Same Vickers Petro. Co.
2. TELEPHONE NUMBER: unknown
3. CITY: P.O. Box 2240 Wichita
4. STATE: Ks
5. ZIP CODE: 67201

I. SITE DESCRIPTION: petroleum Refinery Soil farm

J. TYPE OF OWNERSHIP
☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.): 9/30/80
B. APPARENT SERIOUSNESS OF PROBLEM
☐ 1. HIGH ☒ 2. MEDIUM ☐ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION
1. NAME: Gary McDonald
2. TELEPHONE NUMBER: (405) 271-5338
3. DATE (mo., day, & yr.): 9/15/80

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION
1. NAME: Gary McDonald
2. TITLE: Field Inspector
3. ORGANIZATION: OSDH
4. TELEPHONE NO. (area code & no.): (405) 271-5338

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Vernon Bolz	Johnston County H.D.	(405) 371-2490
Andy Monson	Carter County Health Dept	(405) 223-9705
Randy Gay	OSDH	(405) 271-7060

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
William E George	Env. Supervisor (405) 223-0534	Same as above Total Petroleum Corp (Vickers Petroleum) OKD057705972

SUPERFUND FILE
OCT 21 1992
REORGANIZED

29

9532462

Continued From Front

III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Vickers Bell Refinery		Same as above P.O. Box 188 Ardmore	Oily wastes

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Taylor Constr.	(405) 223-2331	76 Broadlawn, Ardmore	Oily wastes

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
N/A		

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY: (credentials must be shown in all cases)
9/11/80	1300	[X] 1. PERMISSION [ ] 2. WARRANT

J. WEATHER (describe) clear to partly cloudy hot

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE		N/A	
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)			

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
	N/A	

 Continue On Page 3

Continued From Page 2

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS: [X] a. GROUND [X] b. AERIAL

2. PHOTOS IN CUSTODY OF: a. CIW Files-OSDH b. Vickers

D. SITE MAPPED?

[X] YES. SPECIFY LOCATION OF MAPS: SOLID & Industrial Waste Files - OSDH Permit & Incomplete Disposal Plan Files

E. COORDINATES

1. LATITUDE (deg.-min.-sec.) 34° 12' 55"

2. LONGITUDE (deg.-min.-sec.) 97° 6' 05"

V. SITE INFORMATION

A. SITE STATUS

[X] 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

[ ] 2. INACTIVE (Those sites which no longer receive wastes.)

[ ] 3. OTHER (specify): (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

[ ] 1. NO [X] 2. YES (specify generator's four-digit SIC Code): 2911

C. AREA OF SITE (in acres): 7.038

D. ARE THERE BUILDINGS ON THE SITE?

[ ] 1. NO [X] 2. YES (specify): Refinery buildings

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

'X'	A. TRANSPORTER	'X'	B. STORER	'X'	C. TREATER	'X'	D. DISPOSER
X		X				X	
	1. RAIL	X	1. PILE		1. FILTRATION		1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION	X	2. LANDFARM
	3. BARGE		3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
X	4. TRUCK		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
	5. PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY		8. OTHER (specify):
					9. OTHER (specify):		

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

[X] 1. STORAGE [ ] 2. INCINERATION [ ] 3. LANDFILL [ ] 4. SURFACE IMPOUNDMENT [ ] 5. DEEP WELL

[ ] 6. CHEM/BIO/PHYS TREATMENT [X] 7. LANDFARM [ ] 8. OPEN DUMP [ ] 9. TRANSPORTER [ ] 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

[X] 1. LIQUID [ ] 2. SOLID [X] 3. SLUDGE [ ] 4. GAS

B. WASTE CHARACTERISTICS

[ ] 1. CORROSIVE [ ] 2. IGNITABLE [ ] 3. RADIOACTIVE [ ] 4. HIGHLY VOLATILE

[X] 5. TOXIC [ ] 6. REACTIVE [ ] 7. INERT [ ] 8. FLAMMABLE

[ ] 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

yes, old Reports on manifests & disposal plans

Continued From Front

VII. WASTE RELATED INFORMATION *(continued)*

2. Estimate the amount *(specify unit of measure)* of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT: 10,000	AMOUNT: 300,000	AMOUNT:	AMOUNT: [redacted]	AMOUNT:	AMOUNT:
UNIT OF MEASURE: gal/yr	UNIT OF MEASURE: gal/yr	UNIT OF MEASURE:	UNIT OF MEASURE: [redacted]	UNIT OF MEASURE:	UNIT OF MEASURE:
X (1) PAINT, PIGMENTS	X (1) OILY WASTES	X (1) HALOGENATED SOLVENTS	X (1) ACIDS	X (1) FLYASH	X (1) LABORATORY, PHARMACEUT.
(2) METALS SLUDGES	X (2) OTHER *(specify)*: petroleum Wastes Slurry 50% Solids 50% liquid and Seperator Wastes after Running through New waste oil trmt. and Recovery System	(2) NON-HALOGNTD. SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER *(specify)*:	(3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMELTING WASTES	(4) MUNICIPAL
X (5) OTHER *(specify)*: tank bottom sludges 30% liquid			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(5) OTHER *(specify)*
			(6) CYANIDE	(6) OTHER *(specify)*:	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			[redacted] (11) OTHER *(specify)*: [redacted]		

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE *(place in descending order of hazard)*

1. SUBSTANCE	2. FORM *(mark 'X')* a. SOLID	b. LIQ.	c. VAPOR	3. TOXICITY *(mark 'X')* a. HIGH	b. MED.	c. LOW	d. NONE	4. CAS NUMBER	5. AMOUNT	6. UNIT
CaF_2	X	X			X			unknown	—	—
NaOH	X	X			X			"	—	—

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

☐ A. HUMAN HEALTH HAZARDS

Signs are posted; site is not fenced itself but is within fenced area. However fence is only barbed wire. Site might pose a slight problem but doubtful

 Continue On Page 5

Continued From Page 4

VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSURE

N/A

☐ C. WORKER INJURY/EXPOSURE

N/A

☒ D. CONTAMINATION OF WATER SUPPLY

Could be some contamination of local shallow domestic wells from leachate

☐ E. CONTAMINATION OF FOOD CHAIN

N/A

☒ F. CONTAMINATION OF GROUND WATER

see "D" above

Can check with J.C. Epperson
Local well 437 Truck By Pass
driller - lives Ardmore, OK 73401
1/4-1/2 mi. from Refinery (405) 226-3107

☒ G. CONTAMINATION OF SURFACE WATER

plant owned lake has been contaminated from surface runoff. Other contamination might have resulted.

Continued From Front

VIII. HAZARD DESCRIPTION (continued)

☒ H. DAMAGE TO FLORA/FAUNA

yes in lake and around lake

☒ I. FISH KILL

possible

☒ J. CONTAMINATION OF AIR

hydrocarbon odors prevail

☒ K. NOTICEABLE ODORS

see "J"

☒ L. CONTAMINATION OF SOIL

possible from metals attenuation and chlorides

☐ M. PROPERTY DAMAGE

N/A

 Continue On Page 7

Continued From Page 6

VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION

N/A

☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

N/A

☐ P. SEWER, STORM DRAIN PROBLEMS

N/A

☐ Q. EROSION PROBLEMS

N/A

☒ R. INADEQUATE SECURITY

questionable

☐ S. INCOMPATIBLE WASTES

N/A

VIII. HAZARD DESCRIPTION *(continued)*

☐ T. MIDNIGHT DUMPING

☐ U. OTHER *(specify)*:

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE *(specify units)*
1. IN RESIDENTIAL AREAS	200	200	unknow	1 mile
2. IN COMMERCIAL OR INDUSTRIAL AREAS	251	251	unknow	1 mile
3. IN PUBLICLY TRAVELLED AREAS	unknown	—	—	—
4. PUBLIC USE AREAS *(parks, schools, etc.)*	" "	—	—	—

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER *(specify unit)*	B. DIRECTION OF FLOW	C. GROUNDWATER USE IN VICINITY
7-10 feet	South	Domestic non-Drinking
D. POTENTIAL YIELD OF AQUIFER	**E. DISTANCE TO DRINKING WATER SUPPLY** *(specify unit of measure)*	**F. DIRECTION TO DRINKING WATER SUPPLY**
<10 gpm	[redacted] 1/4 mile	Southwest

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY < 15 CONNECTIONS*

☐ 2. COMMUNITY *(specify town)*: > 15 CONNECTIONS

☐ 3. SURFACE WATER

☒ 4. WELL

Continue On Page 9

Continued From Page 8

X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COMMUNITY (mark 'X')	5. COMMUNITY (mark 'X')
Epperson	87'	behind residence 437 Truck By Pass	X	
>1/4 mile Bacon Transport	100'	Bacon Transport Co. Truck By Pass	X	

I. RECEIVING WATER Supposedly no surface runoff from site; but would ente

1. NAME: Sand & Caddo Creek

☐ 2. SEWERS ☒ 3. STREAMS/RIVERS ☐ 4. LAKES/RESERVOIRS ☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Ephemeral streams, Stock Water
flow to Red River

XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☐ C. 100 YEAR FLOOD PLAIN ☐ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. OVERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
X	1. SAND	X	Sandstone interbedded with shale (>5')		
X	2. CLAY				
	3. GRAVEL	X	limestone - deep		

XIII. SOIL PERMEABILITY

☐ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☐ C. HIGH (1000 to 10 cm/sec.)
☒ D. MODERATE (10 to .1 cm/sec.) ☐ E. LOW (.1 to .001 cm/sec.) ☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA
☐ 1. YES ☒ 2. NO 3. COMMENTS: undetermined

H. DISCHARGE AREA
☐ 1. YES ☒ 2. NO 3. COMMENTS: undetermined

I. SLOPE
1. ESTIMATE % OF SLOPE: 0-3%
2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: E - SE

J. OTHER GEOLOGICAL DATA

Sandstone Ridges

 Continue On Reverse

Continued From Front

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X') 1. YES	2. NO	3. UNKNOWN
none							
have applied							

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☒ NONE ☐ YES (summarize in this space)

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition *(Section II)* information on the first page of this form.

LAND FARM SITE INSPECTION REPORT
(Supplemental Report) Vickers

INSTRUCTION
Answer and Explain as necessary.

1. STATE PERMIT
☐ YES ☒ NO have applied

2. AREA *(Dimensions of Site)*
dimensions not concise – covers 7.038 acres

3. APPLICATION RATE
175 bbls/week average

4. IMPROPER DISPOSAL OF UNAUTHORIZED MATERIALS IN LAND FARM
☐ YES ☒ NO

5. DIVERSION STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED
☒ YES ☐ NO however dikes are very loosely compacted & not vegetated

6. EVIDENCE OF PONDING OF LIQUID ON SITE
☐ YES ☒ NO insufficient rain

7. ODORS *(especially hydrogen sulfide) (If YES, indicate)*
☒ YES ☐ NO hydrocarbon & hydrogen sulfide

8. GENERAL PHYSICAL APPEARANCE OF SOIL *(Color, Sand/Silt/Clay Content)*
light brown sandy clayloam over 25% with some oily residue
dark brown oil soaked sandy clayloam over 75%
soil very dry
oil saturation is restricted to top 1 inch of soil

9. VEGETATION ON LAND FARM
None at all

10. pH
No testing equipment available
tests not run for pH on periodic basis

EPA Form T2070-3A (10-79)