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30139

Amoco Oil Company
Post Office Box 401
Texas City, Texas 77590
713 945 1011

R. E. Evans
Refinery Manager

May 24, 1982

Mr. Jay Snow
Chief, Solid Waste Branch
Texas Dept. of Water Resources
P. O. Box 13087, Capitol Station
Austin, Texas 78711

Dear Mr. Snow:

Subject: Request for Partial Waiver of Radiation Analyses on Groundwater

Amoco Oil Company (Registration # 30139) requests a "partial waiver" for the analysis of Radium 226, gross alpha, and gross beta radiation on groundwater samples for the Company's landfarm facility (TXD072181381) due to high suspended and dissolved solids content of water samples. We recognize that certain guidelines are likely to be established to claim the partial waiver.

Mr. Allan Seils, Chief of TDWR Shipping Control and Effluent Reports Unit, suggested that a partial waiver from RCRA groundwater radiation monitoring be requested due to interference caused by sample solids. Mr. Seils' suggestion came during a recent telephone conversation about our data with Mr. L. W. Crame, Environmental Control Consultant. A copy of Amoco Oil Company's first quarter 1982 groundwater data is attached for your reference.

If you have questions pertaining to this request for a partial waiver of radiation analyses on groundwater under RCRA contact Mr. L. W. Crame at (713) 945-1157.

Very truly yours,

R. E. Evans

R. E. Evans

Attachments

SUPERFUND FILE

NOV 17 1992

REORGANIZED

AMOCO OIL CO REFIN
TXD 008080533

90045425

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Water Control & Enhancement Division
Enforcement and Field Operations
P. O. Box 13087, Capitol Station
Austin, Texas 78711

GROUND WATER MONITORING REPORT FOR HAZARDOUS WASTE FACILITIES

TDH Facility Permit No. 50134

EPA TSD Fac. No. or Gen. No. TXD072181381

Company Well Number 4

Gradient Up [X] Down [ ]

Report for 12 14 82

To be completed by the owner/operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste. (See reverse side for instructions.)

Company Name: Amoco Oil Company (Landfarms 1 & 2)

Business Address: P. O. Box 501, Texas City, Texas Phone: (713) 945-1151

Zip: 77590

TABLE 1

Parameter / Units / Sample Type	Specific Cond. Field Device Reading	pH Standard Grab	Conductivity Field Grab	Total Dissolved Solids mg/l Grab	Total Hardness mg/l Grab	Chloride mg/l Grab	Iron mg/l Grab	Manganese mg/l Grab	Phenols mg/l Grab	Sodium mg/l Grab	Sulfate mg/l Grab
Date											
**First Year Control Background (arithmetic mean)		* **	* **	* **	* **						
2/17/82	5.66	6.54 ± 0.000819	6150 ± 2500	39.25 ± 1.69	0.09 ± 0.00865	595	< 0.009	2.5	< 0.01	900	770

TABLE 2

Parameter / Units / Sample Type	Arsenic mg/l Grab	Barium mg/l Grab	Cadmium mg/l Grab	Chromium mg/l Grab	Fluoride mg/l Grab	Lead mg/l Grab	Mercury mg/l Grab	Nitrate mg/l Grab	Selenium mg/l Grab	Silver mg/l Grab
Date										
2/17/82	0.006	0.05	< 0.009	< 0.02	< 1.0	< 0.11	< 0.0002	< 1.0	0.012	< 0.02

Parameter / Units / Sample Type	Endrin mg/l Grab	Lindane mg/l Grab	Methoxychlor mg/l Grab	Toxaphene mg/l Grab	2,4-D mg/l Grab	2,4,5-TP mg/l Grab	Radium pCi/l Grab	Gross Alpha pCi/l Grab	Gross Beta pCi/l Grab	Coliform Bacteria CFU/100 ml Grab
Date										
2/17/82	< 0.0002	< 0.004	< 0.1	< 0.005	< 0.1	< 0.01	0.16 ± 0.15	14 ± 23	0 ± 16	0

ATTACHMENT

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

0-4

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Enforcement and Compliance
P. O. Box 13087, Capitol Station
Austin, Texas 78711

TXD072181381

GROUND WATER MONITORING REPORT
FOR HAZARDOUS WASTE FACILITIES

Company Well Number: 5

Gradient: Up ☐ Down ☒

Report for: 12 19 82

To be completed by the owner/operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste. (See reverse side for instructions.)

Company Name: Amoco Oil Company (Landfarms 1 & 2)

Business Address: P. O. Box 401, Texas City, Texas

Phone: (713) 945-1151

Zip: 77590

TABLE 1

Parameter Units Sample Type	Specific Cond. µmhos/cm Grab	pH Standard Units Grab	Temperature °C Grab	Total Organic Carbon mg/l Grab	Total Organic Halogen mg/l Grab	Chloride mg/l Grab	Iron mg/l Grab	Manganese mg/l Grab	Phenols mg/l Grab	Sodium mg/l Grab	Sulfate mg/l Grab
Date											
***Enter Well Number Background with Upgradient	. **	. **	. **	. **	. **						
2/16/82	4.72	6.93	9,925	57	0.04	3,288	0.45	2.0	<0.01	2,050	639

TABLE 2

Parameter Units Sample Type	Arsenic mg/l Grab	Barium mg/l Grab	Cadmium mg/l Grab	Chromium mg/l Grab	Fluoride mg/l Grab	Lead mg/l Grab	Mercury mg/l Grab	Nitrate mg/l Grab	Selenium mg/l Grab	Silver mg/l Grab
Date										
2/16/82	0.027	0.06	<0.009	0.04	<1.0	<0.11	<0.0002	<1.0	0.013	<0.02

Parameter Units Sample Type	Endrin mg/l Grab	Lindane mg/l Grab	Methoxychlor mg/l Grab	Toxaphene mg/l Grab	2,4-D mg/l Grab	2,4,5-TP Silvex mg/l Grab	Radium pCi/l Grab	Gross Alpha pCi/l Grab	Gross Beta pCi/l Grab	Coliform Fecal Colony/100ml Grab
Date										
2/16/82	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01	0.51±0.34	27±81	3±45	0

ATTACHMENT

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

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Enforcement and Compliance
P. O. Box 13087, Capitol Station
Austin, Texas 78711

EPA Facility No. 7 X D 0 7 2 1 8 1 3 8 1

Company Well Number 6

Checkoff: Up X Down

Report for: 1 2 19 8 2

GROUND WATER MONITORING REPORT
FOR HAZARDOUS WASTE FACILITIES

To be completed by the owner/operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste. (See reverse side for instructions.)

Company Name: Amoco Oil Company (Landfarms 1 & 2) Phone: (713) 943-1151

Business Address: P. O. Box 401, Texas City, Texas 77590 Zip:

TABLE 1

Parameter / Units / Sample Type	Specific Conductance µmhos/cm Field	pH Standard Grab	Chloride mg/l Grab	Total Organic Carbon mg/l Grab	Total Organic Halogen mg/l Grab	Chloride mg/l Grab	Iron mg/l Grab	Manganese mg/l Grab	Phenols mg/l Grab	Sodium mg/l Grab	Sulfate mg/l Grab
Date											
**Enter Your Initial Background or Indicate Date		**	**	**	**	**					
2/17/82	2.55	6.28 ± 0.000019	15,026 ± 21,975	49 ± 3	0.08 ± 0.00760	4,263	12.6	6.4	<0.01	2,160	1,225

TABLE 2

Parameter / Units / Sample Type	Arsenic mg/l Grab	Barium mg/l Grab	Cadmium mg/l Grab	Chromium mg/l Grab	Fluoride mg/l Grab	Lead mg/l Grab	Mercury mg/l Grab	Nitrate mg/l Grab	Selenium mg/l Grab	Silver mg/l Grab
Date										
2/17/82	0.22	0.06	<0.009	0.09	<1.0	<0.11	<0.0002	<1.0	0.025	<0.02

Parameter / Units / Sample Type	Endrin mg/l Grab	Lindane mg/l Grab	Methoxychlor mg/l Grab	Toxaphene mg/l Grab	2,4-D mg/l Grab	2,4,5-TP mg/l Grab	Radium pCi/l Grab	Gross Alpha pCi/l Grab	Gross Beta pCi/l Grab	Cobalt 60 pCi/l Grab
Date										
2/17/82	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01	0.38±0.16	0±46	14±46	52

ATTACHMENT

I certify that the results of laboratory analyses performed and submitted herein are true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I have personally examined and am familiar with the information submitted in this document and all attachments and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate, and complete.

Signature of Owner/Operator

0 - 4 - 1

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Water Control & Improvement Commission
Enforcement and Field Operations
P. O. Box 13087, Capitol Station
Austin, Texas 78711

TSD Facility Permit No. 3 0 1 3 4

EPA TSD Ref. No. or Gen. No. T X D 0 7 2 1 8 1 3 8 1

GROUND WATER MONITORING REPORT
FOR HAZARDOUS WASTE FACILITIES

Company's Well Number: B

Gradient: Up ☐ Down ☒

Report for: 1 2 19 8 2

To be completed by the owner/operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste. (See reverse side for instructions.)

Company Name: Amoco Oil Company (Landfarms 1 & 2)

Business Address: P. O. Box 401, Texas City, Texas 77590 Phone: 713 945-1151

Zip:

TABLE 1

Parameter Units Sample Type	Specific Cond. Micro Mho/cm Grab	pH Standard Grab	Conductivity umhos/cm Grab	Total Organic Carbon mg/l Grab	Total Organic Halogen mg/l Grab	Chloride mg/l Grab	Iron mg/l Grab	Manganese mg/l Grab	Phenols mg/l Grab	Sodium mg/l Grab	Sulfate mg/l Grab
Date											
**First Year Initial Background (with high mark)		**	**	**	**						
2/17/82	1.17	6.56	18,625	40	0.05	6,302	0.05	3.6	<0.01	2,800	660

TABLE 2

Parameter Units Sample Type	Arsenic mg/l Grab	Barium mg/l Grab	Cadmium mg/l Grab	Chromium mg/l Grab	Fluoride mg/l Grab	Lead mg/l Grab	Mercury mg/l Grab	Nitrate mg/l Grab	Selenium mg/l Grab	Silver mg/l Grab
Date										
2/17/82	0.034	0.21	<0.009	0.11	<1.0	<0.11	<0.0002	<1.0	0.019	<0.02

Parameter Units Sample Type	Endrin mg/l Grab	Lindane mg/l Grab	Methoxychlor mg/l Grab	Toxaphene mg/l Grab	2,4D mg/l Grab	2,4,5-TP Silvex mg/l Grab	Radium pCi/l Grab	Gross Alpha pCi/l Grab	Gross Beta pCi/l Grab	Coliform Bacteria MPN/100 ml Grab
Date										
2/17/82	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01	1.07±0.25	50.00 ± NA HIGH - NA	50.00 ± NA HIGH - NA	38

ATTACHED

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

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Shipping Section & Enforcement Reports Unit
Enforcement and Field Operations
P. O. Box 13087 Capitol Station
Austin, Texas 78711

GROUND WATER MONITORING REPORT
FOR HAZARDOUS WASTE FACILITIES

TCEQ Facility Permit No. 50139
EPA ID Number TXD072181381
Company Well Number 11
Product Up X Down
Report for 12 19 82

To be completed by the owner/operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste. (See reverse side for instructions.)

Company Name: Amoco Oil Company (Landfarms 1 & 2)
Business Address: P. O. Box 401, Texas City, Texas
Phone: 1 713 945-1151
Zip: 77590

TABLE 1

Parameter / Units / Sample Type	Ground Water Elev. Feet Above Reference	pH Standard Grab	Conductivity µmhos/cm Grab	Total Organic Carbon mg/l Grab	Total Organic Halogen mg/l Grab	Chloride mg/l Grab	Iron mg/l Grab	Manganese mg/l Grab	Phenols mg/l Grab	Sodium mg/l Grab	Sulfate mg/l Grab
Date											
**Enter Your Location Background arithmetic mean		± **	± **	± **	± **						
2/16/82	5.91	6.66± 0.00119	11,700± 25,000	5±0	0.05± 0.00104	4,099	<0.005	0.7	0.02	2,060	520

TABLE 2

Parameter / Units / Sample Type	Arsenic mg/l Grab	Barium mg/l Grab	Cadmium mg/l Grab	Chromium mg/l Grab	Fluoride mg/l Grab	Lead mg/l Grab	Mercury mg/l Grab	Nitrate mg/l Grab	Selenium mg/l Grab	Silver mg/l Grab
Date										
2/16/82	0.032	0.16	<0.009	0.08	<1.0	<0.11	<0.0002	<1.0	0.019	<0.02

Parameter / Units / Sample Type	Endrin mg/l Grab	Lindane mg/l Grab	Methoxychlor mg/l Grab	Toxaphene mg/l Grab	2,4-D mg/l Grab	2,4,5-TP Silvex mg/l Grab	Radium pCi/l Grab	Gross Alpha pCi/l Grab	Gross Beta pCi/l Grab	Cesium Radioactive Grab
Date										
2/16/82	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01	0.10±0.36	11±51	20±43	0

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

ATTACHMENT

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Shipping Control & Effluent Reporting
Enforcement and Field Operations
P. O. Box 13087, Capitol Station
Austin, Texas 78711

TCEQ Facility Permit No. 30113H

EPA TSD Facility No. or Gen. No. TXD072181381

Compartment Number 12

Gradient Up ☐ Down ☒

Report for: 12 19 82

GROUND WATER MONITORING REPORT FOR HAZARDOUS WASTE FACILITIES

To be completed by the owner/operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste. (See reverse side for instructions.)

Company Name: Amoco Oil Company (Landfarms 1 & 2) Phone: (713) 945-1151

Business Address: P. O. Box 401, Texas City, Texas Zip: 77590

TABLE 1

Parameter Units Sample Type	Ground Water Elev. ft. Sample Observed	pH Standard Grab	Conductance µmhos/Cm Grab	Total Organic Carbon mg/l Grab	Total Organic Halogen mg/l Grab	Chloride mg/l Grab	Iron mg/l Grab	Manganese mg/l Grab	Phenols mg/l Grab	Sodium mg/l Grab	Sulfate mg/l Grab
Date											
**First Year (Initial) Background Arithmetic mean		**	**	**	**						
2/16/82	1.25	6.58	5850	16.5	0.05	1,753	9.8	5.8	<0.01	950	415

TABLE 2

Parameter Units Sample Type	Arsenic mg/l Grab	Barium mg/l Grab	Cadmium mg/l Grab	Chromium mg/l Grab	Fluoride mg/l Grab	Lead mg/l Grab	Mercury mg/l Grab	Nitrate mg/l Grab	Selenium mg/l Grab	Silver mg/l Grab
Date										
2/16/82	0.040	0.15	<0.009	0.03	<1.0	<0.11	<0.0002	<1.0	<0.005	<0.02

Parameter Units Sample Type	Endrin mg/l Grab	Lindane mg/l Grab	Methoxychlor mg/l Grab	Toxaphene mg/l Grab	2,4 D mg/l Grab	2,4,5-TP Silvex mg/l Grab	Radium pCi/l Grab	Gross Alpha pCi/l Grab	Gross Beta pCi/l Grab	Cesium Series Uranium Grab
Date										
2/16/82	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01	0.42±0.31	40±42	0±39	0

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

03 - 1 - 4 - 05

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Shipping Control & Effluent Reports Unit
Enforcement and Field Operations
P. O. Box 13087, Capital Station
Austin, Texas 78711

or TSD Facility Permit No. 30139

EPA TSD Fac. No. or Gen. No. TXD072181531

GROUND WATER MONITORING REPORT FOR HAZARDOUS WASTE FACILITIES

Company Well Number 13

Gradient Up [X] Down [ ]

Report for: 12 19 82

To be completed by the owner/operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste. (See reverse side for instructions.)

Company Name: Amoco Oil Company (Landfarms 1 & 2)

Business Address: P. O. Box 401, Texas City, Texas

Phone: (713) 945-1151

Zip: 77590

TABLE 1

Parameter Units Sample Type	Ground Water Elev. Ft. Sample Coordinate	pH Standard Grab	Conductivity µmhos/cm Grab	Total Organic Carbon mg/l Grab	Total Organic Halogen mg/l Grab	Chloride mg/l Grab	Iron mg/l Grab	Manganese mg/l Grab	Phenols mg/l Grab	Sodium mg/l Grab	Sulfate mg/l Grab
Date											
**First Year (initial) Background arithmetic mean		± **	± **	± **	± **						
2/17/82	4.88	6.51 ± 0.00253	7100 ± 5000	37 ± 1	0.08 ± 0.00571	1,014	0.54	3.5	<0.01	900	332

TABLE 2

Parameter Units Sample Type	Arsenic mg/l Grab	Barium mg/l Grab	Cadmium mg/l Grab	Chromium mg/l Grab	Fluoride mg/l Grab	Lead mg/l Grab	Mercury mg/l Grab	Nitrate mg/l Grab	Selenium mg/l Grab	Silver mg/l Grab
Date										
2/17/82	0.007	0.11	<0.009	0.03	<1.0	<0.11	<0.0002	<1.0	0.006	<0.02

Parameter Units Sample Type	Endrin mg/l Grab	Lindane mg/l Grab	Methoxychlor mg/l Grab	Toxaphene mg/l Grab	2,4-D mg/l Grab	2,4,5-TP Silvex mg/l Grab	Radium pCi/l Grab	Gross Alpha pCi/l Grab	Gross Beta pCi/l Grab	Coliform Cells/100 ml Grab
Date										
2/17/82	<0.0002	<0.004	<0.1	<0.005	<0.1	<0.01	0.39 ± 0.21	0 ± 29	13 ± 39	52

ATTACHMENT 5-24-81

Certify under [illegible] that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals [illegible]

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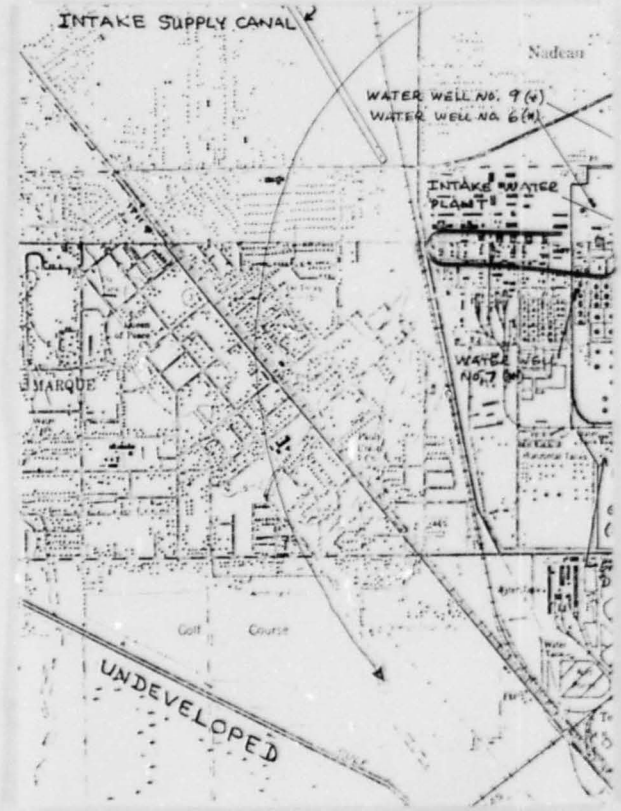
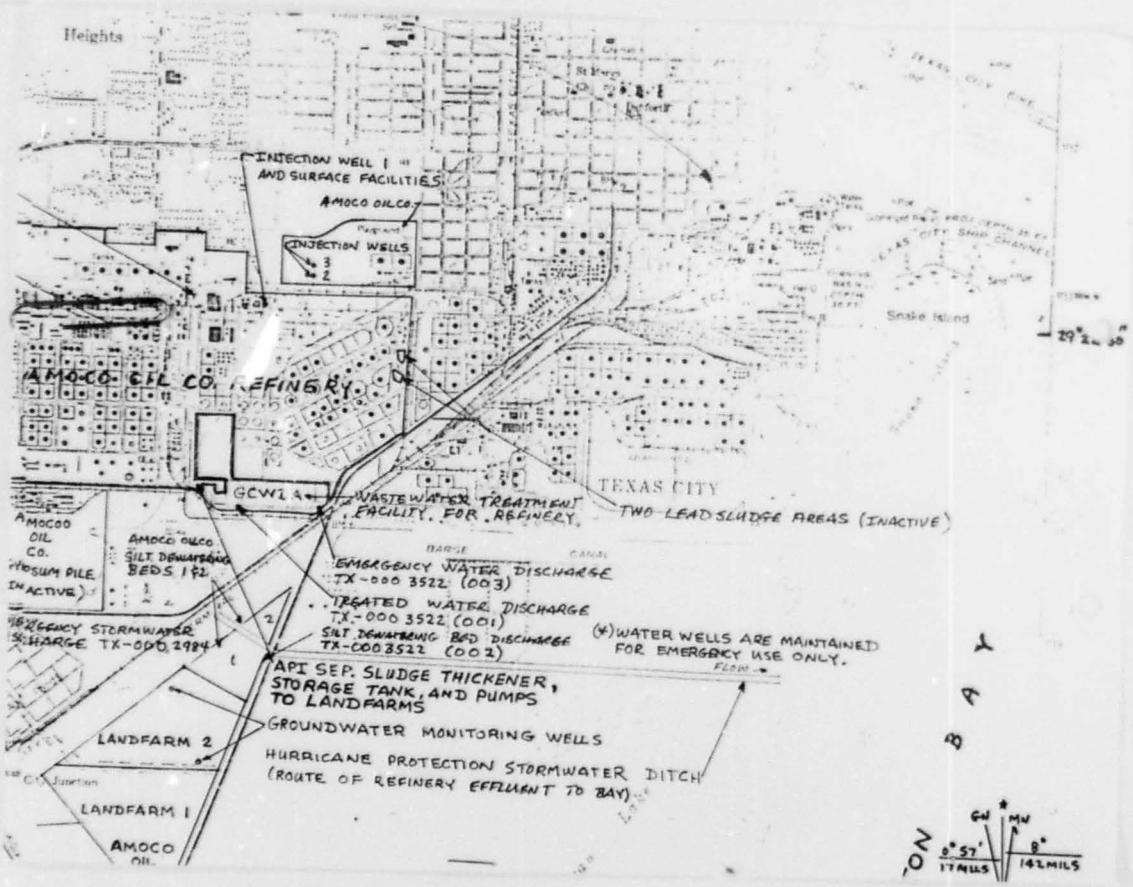
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