UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

WOOD River

12 FEB 1988

DATE:

SUBJECT: Review of Region 5 data for CLARK OIL REFINERY

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User: RCRA

TRANSMITTED BY
FEB 1988
U.S. EPA CENTRAL REGIONAL LAB

Attached are the results for:

CRL Data Set Numbers: RCRA 4636 SAS 3478-E
Sample Numbers: 88JG01546-552 6 SAMPLES
Parameter(s): TSS, OIL & GREASE, SULFIDES
Laboratory: CENTEC

Results Status:

(✓) DATA ACCEPTABLE FOR USE*
( ) DATA QUALIFIED AS TO USE
( ) DATA UNACCEPTABLE FOR USE

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to Steve Parker, the Quality Control Coordinator, at 353-3805.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

RECEIVED BY/DATE:

Comments:

CAS
CENTEC ANALYTICAL SERVICES, INC.

P.O. Box 956
2160 INDUSTRIAL DRIVE
SALEM, VIRGINIA 24153
(703) 387-3995

RECEIVED
JAN 5 1988
U.S. EPA CENTRAL
REGIONAL LAB

December 31, 1987

Mr. Curtis Ross
U.S. Environmental Protection Agency
Region V, ESD
536 South Clark Street
Tenth Floor, CRL
Chicago, Illinois 60605

RCRA 4636

RE: Inorganic Analyses
Data Package
SAS 3478-E

Dear Mr. Ross:

Enclosed find our complete data package for the captioned case.

Please note the comments on each analysis comment sheet enclosed after the data.

Upon receipt of the enclosures, should you have any questions with respect to same, please feel free to contact the undersigned at the letterhead address.

Sincerely,

CENTEC ANALYTICAL SERVICES

Lewis Pillis, Laboratory Manager

LP/bd
Enclosures as Stated

cc: USEPA - SMO, w/Encls.
209 Madison Street, Suite 200
Alexandria, Virginia 22314

CAS
CENTEC ANALYTICAL SERVICES, INC.

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison Street, Suite 200
Alexandria, Virginia 22314
703/557-2490 FTS: 8-557-2490

Date 12/31/87

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

LAB NAME CENTEC ANALYTICAL SERVICES, INC. CASE NO. SAS 3478E

SOW NO. re SAS 3478E QC REPORT NO. 239

Sample Numbers

EPA No.	Lab ID No.	EPA NO.	Lab ID No.
3478E-01	69246	3478E-04	69249
3478E-02	69247	3478E-05	69250
3478E-03	69248	3478E-06	69251

Comments:

ICP Interelement and background corrections applied? Yes ___ No ___
If yes, corrections applied before __ or after __ generation of raw data.

Footnotes:
NR - not required by contract at this time
Form I:
Value-If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit. Report the value in brackets (i.e. [10]). Indicate the analytical method used with P (for ICP/Flame AA) or F (for Furnace).
U - Indicates element was analyzed for but not detected. Report with the detection limit value (i.e., 10U).
E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.
s - Indicates value determined by Method of Standard Addition.
R - Indicates spike sample recovery is not within control limits.
* - Indicates duplicate analysis is not within control limits.
+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

CAS
CENTEC ANALYTICAL SERVICES, INC.

Form I A

88JG01546

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison Street, Suite 200
Alexandria, Virginia 22314
703/557-2490 FTS: 8-557-2490

EPA Sample # 3478E-01

Date 12/31/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME CENTEC ANALYTICAL SERVICES, INC. CASE NO. SAS 3478E

SOW NO. re SAS 3478E

LAB SAMPLE ID NO. 69246 QC REPORT NO. 239

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____

Other ____

	mg/l
1. Oil and Grease (O&G)	979
2. Total Suspended Solids (TSS)	442
3. Sulfide (S^-)	5.7

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager [signature]

CAS
CENTEC ANALYTICAL SERVICES, INC.

Form I B 88JG01547

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison Street, Suite 200
Alexandria, Virginia 22314
703/557-2490 FTS: 8-557-2490

EPA Sample # 3478E-02

Date 12/31/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME CENTEC ANALYTICAL SERVICES, INC. CASE NO. SAS 3478E

SOW NO. re SAS 3478E

LAB SAMPLE ID NO. 69247 QC REPORT NO. 239

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____

Other ____

	mg/l
1. Oil and Grease (O&G)	1250
2. Total Suspended Solids (TSS)	494
3. Sulfide ($S^{=}$)	3.3

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager [signature]

CAS
CENTEC ANALYTICAL SERVICES, INC.

Form I C 88J601548

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison Street, Suite 200
Alexandria, Virginia 22314
703/557-2490 FTS: 8-557-2490

EPA Sample # 3478E-03

Date 12/31/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME CENTEC ANALYTICAL SERVICES, INC. CASE NO. SAS 3478E

SOW NO. re SAS 3478E

LAB SAMPLE ID NO. 69248 QC REPORT NO. 239

Elements Identified and Measured

Concentration: Low ✓ Medium

Matrix: Water ✓ Soil Sludge

Other

	mg/l
1. Oil and Grease (O&G)	932
2. Total Suspended Solids (TSS)	152
3. Sulfide (S^-)	2.4

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager

CAS
CENTEC ANALYTICAL SERVICES, INC.

Form I D

88JG01549

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison Street, Suite 200
Alexandria, Virginia 22314
703/557-2490 FTS: 8-557-2490

EPA Sample # 3478E-04

Date 12/31/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME CENTEC ANALYTICAL SERVICES, INC. CASE NO. SAS 3478E

SOW NO. re SAS 3478E

LAB SAMPLE ID NO. 69249 QC REPORT NO. 239

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____

Other ____

	mg/l
1. Oil and Grease (O&G)	374
2. Total Suspended Solids (TSS)	350
3. Sulfide (S^-)	5.6

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager [signature]

CAS
CENTEC ANALYTICAL SERVICES, INC.

Form I E 88JG01580

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison Street, Suite 200
Alexandria, Virginia 22314
703/557-2490 FTS: 8-557-2490

EPA Sample # 3478E-05

Date 12/31/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME CENTEC ANALYTICAL SERVICES, INC. CASE NO. SAS 3478E

SOW NO. re SAS 3478E

LAB SAMPLE ID NO. 69250 QC REPORT NO. 239

Elements Identified and Measured

Concentration: Low / Medium

Matrix: Water / Soil Sludge

Other

	mg/l
1. Oil and Grease (O&G)	441
2. Total Suspended Solids (TSS)	218
3. Sulfide ($S^{=}$)	1.0u

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager

CAS
CENTEC ANALYTICAL SERVICES, INC.

Form I F 88JG01552

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison Street, Suite 200
Alexandria, Virginia 22314
703/557-2490 FTS: 8-557-2490

EPA Sample # 3478E-06

Date 12/31/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME CENTEC ANALYTICAL SERVICES, INC. CASE NO. SAS 3478E

SOW NO. re SAS 3478E

LAB SAMPLE ID NO. 69251 QC REPORT NO. 239

Elements Identified and Measured

Concentration: Low ✓ Medium

Matrix: Water ✓ Soil Sludge

Other

	mg/l
1. Oil and Grease (O&G)	3.Cu
2. Total Suspended Solids (TSS)	1.Cu
3. Sulfide (S^-)	1.Cu

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager

CAS
CENTEC ANALYTICAL SERVICES, INC.

Form III

Q.C. Report No. 239

BLANKS

LAB NAME CENTEC ANALYTICAL SERVICES, INC.

CASE NO. SAS 3478E
SOW NO. re SAS 3478E
UNITS mg/l

DATE 12/31/87

Matrix Aqueous

Compound	Run #	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	5	6	7	8
O&G	1	3.0u	3.0u							
TSS	1	1.0u								
Solids	1	1.0u	1.0u							

CAS
CENTEC ANALYTICAL SERVICES, INC.

Form VI

Q.C. Report No. 239

DUPLICATES

LAB NAME Centec Analytical Services

CASE NO. SPS 3478

DATE 12/31/87

UNITS mg/l ug/l mg/kg %
(Circle one)

Matrix Aqueous

PARAMETER	EPA ID	LAB ID	CONTROL LIMIT	(S) SAMPLE	(D) DUPLICATE	RPD
O&G					NR	
TSS	E05	69250		218	224	3
Sulfide	E04	69249		5.6	5.6	0

* Out of Control

RPD = [(S - D) / ((S + D) / 2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

Wood River

TRANSMITTED BY
S Griffin
FEB 09 1988
U.S. EPA CENTRAL REGIONAL LAB

DATE: 09 FEB 1988

SUBJECT: Review of Region 5 data for CLARKOIL REFINERY

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User: RCRA

Attached are the results for:

CRL Data Set Numbers: RCRA 4636 CASE # 8521
Sample Numbers: 88JG01543-552 (8 SAMPLES)
Parameter(s): ORGANICS
Laboratory: S3

Results Status

(✓) DATA ACCEPTABLE FOR USE*
( ) DATA QUALIFIED AS TO USE
( ) DATA UNACCEPTABLE FOR USE

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to Steve Parker, the Quality Control Coordinator, at 353-3805.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

RECEIVED BY/DATE:

Comments

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

RECEIVED BY
Sylvia Griffin
DEC 16 1987
U.S. EPA CENTRAL REGIONAL LAB

16 DEC 1987

DATE:

SUBJECT: **Review of Region 5 data for** CLARK OIL

FROM: **Curtis Ross, Director**
Region 5 Central Regional Laboratory

To: **Data User:** Karl Premer
RCRA

Attached are the results for:

CRL Data Set Numbers: RCRA 4577
Sample Numbers: 88JG01R46 - 558
Parameter(s): EPTOX Pb + Cr
Laboratory: CRL

Results Status:

(✓) **DATA ACCEPTABLE FOR USE***
( ) **DATA QUALIFIED AS TO USE**
( ) **DATA UNACCEPTABLE FOR USE**

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

ALL RESULTS ARE IN MICROGRAMS / LITER.

If there are any questions regarding the data, refer them to Steve Parker, the Quality Control Coordinator, at 353-3805.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

RECEIVED BY/DATE: .....

Comments:

cc: Contractor's Reprentative

Filed by/date:

Jun 8 Dec 87

12-7-87 RAB

DL1:[001,054]RNB600.BRN 04-DEC-87 13:41:43 PAGE 1

ACT #C27200
DU # D307

DATA SET : RCRA4577 CLARK OIL

ELEMENT		JG01R46	JG01S47	JG01S48	JG01S49
CR µg/l	<	8.0	16.1	69.1	18.1
PB	<	70.0	< 70.0	< 70.0	< 70.0
		blank	API influent	API return	API influent

JVM
8 Dec 87

12-4-87
BAB
12/15/87

ALT # C27200
DU # D307

DATA SET : RCRA4577 CLARK OIL

ELEMENT	JG01S50	JG01S52	JG01S53	JG01S54
CR µg/l	53.	49.	662.	1650.
PB	< 70.0	< 70.0	< 70.0	< 70.0
	API return	API return	Pit sludge	API sludge

Jun 8Dec87

12-4-87 BOB 12/15/87

DL1:[001,054]RNB600.BRN 04-DEC-87 13:41:43 PAGE 3

ACT # C27200
DL# P307

DATA SET : RCRA4577 CLARK OIL

ELEMENT		JG01S55	JG01S56	JG01S57	JG01S58
CR	µg/l	1150.	2860.	897.	1980.
PB		< 70.0	< 70.0	< 70.0	< 70.0
		Pit sludge	API sludge	Pit sludge	API sludge

DO YOU WANT TO EXIT [N|Y] : Y

>

ACTIVITY#C27200 (8)

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH RCRA SAMPLING DATE 11/17-19/87 LAB ARRIVAL DATE 11/20/87 DUE DATE 12/11/87

DU NUMBER D307 DATASET NUMBER 4577 STUDY CLARKOIL PRIORITY N CONTRACTOR N

JVM
7 Dec 87
8/14/88

CHL LOG NUMBER	SAMPLE DESCRIPTION	EP TOX EXTRACT ICP METALS MG/L MET19364	EP TOX EXTRACT SE MG/L MET19109	EP TOX EXTRACT AS MG/L MET1989	
88J601					
S53	5-110344	X		X 0.011	PIT SLUDGE
S54	5-110345	X		X 0.006	API SEP. SLUDGE
S55	5-110346	X		X 0.009	PIT SLUDGE
S56	5-110347	X		X 0.011	API SEP. SLUDGE
S57	5-110348	X		X 0.008	PIT SLUDGE
S58	5-110344	X		X 0.006	API SEP. SLUDGE
S47	5-110304	X		X 0.005	API SEP. INFLUENT
S48	5-110313	X		X 0.006	API SEP. RETURN FLOW
S49	5-110317	X		X 0.006	API SEP. INFLUENT
S50	5-110323	X		X 0.007	API SEP. RETURN FLOW
S52	5-110335	X		X 0.006	API SEP. RETURN FLOW
R46	5-110358	X		X <0.002	FIELD BLANK
				PM 12-7-87	

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

Sylvia Griffin

WOOD RIVER

16 DEC 1987

DATE:

SUBJECT: **Review of Region 5 data for** CLARK OIL

FROM: **Curtis Ross, Director**
Region 5 Central Regional Laboratory

To: **Data User:**

Attached are the results for:

CRL Data Set Numbers: RCRA 4577
Sample Numbers: 88JG01R46 - 558
Parameter(s): EPTOX Pb + Cr
Laboratory: CRL

Results Status:

(✓) **DATA ACCEPT[illegible] FOR USE***
( ) **DATA QUALIF[illegible]S TO USE**
( ) **DATA UNACC[illegible]BLE FOR USE**

* For data acceptabi[illegible] equirements, refer to the method capability statement for the methods re[illegible]ced.

Comments by the Quality Control Coordinator:

ALL RESULTS ARE IN MICROGRAMS / LITER.

If there are any questions regarding the data, refer them to Steve Parker, the Quality Control Coordinator, at 353-3805.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

RECEIVED BY/DATE:

Comments:

cc: Contractor's Representative

Filed by/date:

DL1:[001,054]RNB600.BRN 04-DEC-87 13:41:43 PAGE 3

ALT# C27200
DU# D307

DATA SET : RCRA4577 CLARK OIL

ELEMENT	JG01S55	JG01S56	JG01S57	JG01S58
CR µg/l	1150.	2860.	897.	1980.
PB	< 70.0	< 70.0	< 70.0	< 70.0

DO YOU WANT TO EXIT [N!Y] : Y

>

JVM
8 Dec 87

12-4-87
RAB
[illegible]

ACT #C27200
DU #D307

DATA SET : RCRA4577 CLARK OIL

ELEMENT		JG01S50		JG01S52		JG01S53		JG01S54
CR	µg/l	53.		49.		662.		1650.
PB	↓	< 70.0	<	70.0	<	70.0	<	70.0

NM
8 Dec 87

12-4-87
RAB
[illegible]

ALT # C27200
DU # D307

DATA SET : RCRA4577 CLARK OIL

ELEMENT	JG01S55	JG01S56	JG01S57	JG01S58
CR µg/l	1150.	2860.	897.	1980.
PB	< 70.0	< 70.0	< 70.0	< 70.0

DO YOU WANT TO EXIT [N!Y] : Y

>

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: 09 DEC 1987

SUBJECT: **Review of Region 5 data for** CLARK OIL

FROM: **Curtis Ross, Director**
Region 5 Central Regional Laboratory

To: **Data User:** RCRA

Attached are the results for:

CRL Data Set Numbers: RCRA 4577
Sample Numbers: 88JG01S53 - R46
Parameter(s): EP TOX - As
Laboratory: CRL

Results Status:

(X) **DATA ACCEPTABLE FOR USE***
( ) **DATA QUALIFIED AS TO USE**
( ) **DATA UNACCEPTABLE FOR USE**

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

TRANSMITTED BY
Sylvia Griffin
DEC 07 1987
U.S. EPA CENTRAL
REGIONAL LAB

If there are any questions regarding the data, refer them to Steve Parker, the Quality Control Coordinator, at 353-3805.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

RECEIVED BY/DATE: .....

Comments:

cc: Contractor's Reprentative

Filed by/date:

August 2, 1983

United States Environmental
Protection Agency
Region V
230 South Dearborn Street
Chicago, Illinois 60604

Re: Wood River Refinery
ILD041889023

Gentlemen:

Clark Oil & Refining Corporation recently received notification to provide documentation of financial responsibility. We understand this request is due to our Interim Status permitting us to store, treat and dispose of hazardous wastes. In fact, Clark is engaged only in the generation of such wastes.

Please consider this correspondence as notification that will permit continued generation of wastes but will remove Interim Status to store, treat and dispose of such wastes.

Sincerely,

John T. Bernbom
Director of Environmental Control

cc: A. Vollmer

cel