split samples collected/ analyzed by EPA during Summer 1991 Sediment Sampling of outfalls

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

RECEIVED
OCT 16 1991
REME SECTION

OCT 11 1991

Date: _____

MEMORANDUM

SUBJECT: Data Transmittal for Activity #: ISXP8
Site Desciption: Mississippi River Pool #15

FROM: Andrea Jirka
Chief, Laboratory Branch, ENSV

TO: Robert Morby
Chief, Superfund Branch, WSTM

ATTN: Jim Collert

Attached is the data transmittal for the above referenced site. This should be considered a ____ Partial or X Complete data transmittal (completes transmittal of _____). If you have have any questions or comments, please contact Dee Simmons at 551-5129.

Attachments

cc: Data Files

NOTE: Please see Mary Gerken, SPFD-WSTM, if you want an electronic copy of the data.

180964

180964
SUPERFUND RECORDS

Site: Miss River #15
IAD984117161
3.3
EPA
10-11-91

RECYCLE
PAPER CONTAINS RECYCLED FIBERS

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 001 QCC: _ MEDIA: WATER FL: S P F D

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: OUTFALL 001 area #41 DATE TIME FROM REF PT
LOCATION: RIVERDALE IA BEG: 07/~~14~~31/91 10:50 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: __/__/__ __:__ NORTH: ____
STORET/SAROAD NO: _____ DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| CUBI | 5 ML HNO3 | WM | METALS +Hg (W/M34) |
| GLASS | ICED | WS | SEMIVOLATILES |
| 2 VOA VIALS | ICED | WV | VOLATILES |
| GLASS | ICED | W24 | PCB - G. BEEMONT |

COMMENTS:

area 41

Outfall 001

SAMPLE COLLECTED BY : Todd Hunt
Tim Thompson
Angela Christian

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 91 ACTNO: ISXP8 SAMNO: 004 (5 ~~004~~ M) ICC: D MEDIA: WATER PL: S P F D

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

SAMPLE DES: OUTFALL 004 DUP. 31 DATE TIME FROM REF PT
LOCATION: RIVERDALE IA BEG: 07/~~14~~/91 10:55 EAST: _____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: __/__/__ __:__ NORTH: _____
STORET/SAROAD NO: _____ DOWN: _____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| CUBI | 5 ML HNO3 | WM | METALS → (Metal). |
| GLASS | ICED | WS | SEMIVOLATILES |
| 2 VOA VIALS | ICED | WV | VOLATILES |
| GLASS | ICED | W24 | PCB - G. BEEMONT |

COMMENTS:

Outfall 001 Duplicate

area 41

Was labeled 004 D by wrong?
Should have been #001 D.
I had to relabel at Lab)

M 8/1/91

SAMPLE COLLECTED BY : A Quinlan
Todd Hunt Tim Thompson

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 002 QCC: _ MEDIA: WATER PL: S P F D

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: OUTFALL 002 8/1/91 DATE TIME FROM REF PT
LOCATION: RIVERDALE IA BEG: ~~07/14/91~~ 09:05 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: __/__/__ __:__ NORTH: ____
STORET/SAROAD NO: _____ DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| CUBI | 5 ML HNO3 | WM | METALS ✓ Hg(WM34) |
| GLASS | ICED | WS | SEMIVOLATILES ✓ |
| 2 VOA VIALS | ICED | WV | VOLATILES ✓ |
| GLASS | ICED | W24 | PCB - G. BEEMONT ✓ |

COMMENTS:

Outfall 002
transect 14

SAMPLE COLLECTED BY : T. Hunt
T. Thompson A. Quinlan

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 003 QCC: _ MEDIA: WATER PL: S P F D

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: OUTFALL 003 8/1/91
LOCATION: RIVERDALE IA BEG: ~~8/14~~/91 09 :20
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: __/__/__ __:__
STORET/SAROAD NO: _____

DATE TIME FROM REF PT
EAST: ____
NORTH: ____
DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| CUBI | 5 ML HNO3 | WM | METALS (WM02) Hg. |
| GLASS | ICED | WS | SEMIVOLATILES ✓ |
| 2 VOA VIALS | ICED | WV | VOLATILES ✓ |
| GLASS | ICED | U24 | PCB - G. BEEMONT ✓ |

COMMENTS:

Outfall 003
transect 20

SAMPLE COLLECTED BY : T Hunt
T Thompson A Quinlan

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 004 QCC: _ MEDIA: WATER PL: S F F D

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: OUTFALL 004 DATE TIME FROM REF PT
LOCATION: RIVERDALE IA BEG: 8/1/91 11:10 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: __/__/__ __:__ NORTH: ____
STORET/SAROAD NO: _____ DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| CUBI | 5 ML HNO3 | WM | METALS → Hg (WM34) |
| GLASS | ICED | WS | SEMIVOLATILES ✓ |
| 2 VOA VIALS | ICED | WV | VOLATILES ✓ |
| GLASS | ICED | W24 | PCB - G. BEEMONT ✓ |

COMMENTS:

Outfall 004

transect 17

Set for MS/MSD collected @ after no sign of Alcoa discharge

SAMPLE COLLECTED BY : T Hunt
T Thompson AQuinton

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 005 QCC: _ MEDIA: WATER PL: S P F D

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 FT: LONGITUDE: ___ __ __

---

SAMPLE DES: OUTFALL 005 91 DATE TIME FROM REF PT
LOCATION: RIVERDALE IA BEG: ~~07/14~~91 10:10 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: __/__/__ __:__ NORTH: ____
STORET/SAROAD NO: _____ DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| CURI | 5 ML HNO3 | ,WM | METALS ✓ Ag Cu Zn Pb |
| GLASS | ICED | ,WS | SEMIVOLATILES ✓ |
| 2 VOA VIALS | ICED | ,WV | VOLATILES ✓ |
| GLASS | ICED | ,W24 | PCB - G. BEEMONT ✓ |

COMMENTS:

Outfall 005
transect #1

SAMPLE COLLECTED BY : T Hunt
T Thompson A Quinlan

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXF8 SAMNO: 006 QCC: F MEDIA: WATER PL: S P F D

---

ACTIVITY DES: MISSISSIPPT RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: ~~WETLAND AREA 1~~ Trip Blank 8/1 DATE TIME FROM REF PT
LOCATION: RIVERDALE IA BEG: ~~07/14/91~~ 14:10 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: __/__/__ __:__ NORTH: ____
STORET/SAROAD NO: _____ DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| ~~CURT~~ | ~~5 ML HNO3~~ | ~~WM~~ | ~~METALS~~ ABD |
| ~~GLASS~~ | ~~ICED~~ | ~~WS~~ | ~~SEMIVOLATILES~~ ABD |
| 2 VOA VIALS | ICED | WV | VOLATILES ✓ |
| ~~GLASS~~ | ICED | 024 | ~~PCB - E. BEEMONT~~ ABD |

COMMENTS:

VOA only
trip blank for
water samples collected 8/1/91

SAMPLE COLLECTED BY : EPA REGION VII Lab

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 008 QCC: F MEDIA: WATER FL: S P F D

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: FIELD BLANK 7/1 DATE TIME FROM REF PT
LOCATION: RIVERDALE IA BEG: ~~07/24/91~~ 11 : 30 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: __/__/__ __:__ NORTH: ____
STORET/SAROAD NO: _____ DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| CUBI | 5 ML HNO3 | 'WM | METALS ~~Hg~~ Hg (WM34) ✓ |
| GLASS | ICED | 'WS | SEMIVOLATILES ✓ |
| 2 VOA VIALS | ICED | 'WV | VOLATILES ✓ |
| GLASS | ICED | 'W24 | PCB - G. BEEMONT ✓ |

COMMENTS:

Field Blank

SAMPLE COLLECTED BY : T Hunt
A Quinlan

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 009 QCC: F MEDIA: WATER FL: S P F D

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: TRIP BLANK 7/31 DATE TIME FROM REF PT
LOCATION: RIVERDALE IA BEG: ~~07/14~~/91 18:15 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: __/__/__ __:__ NORTH: ____
STORET/SAROAD NO: _____ DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| 2 VOA VIALS | ICED | VV | VOLATILES |

COMMENTS:

Trip Blank

1 vial Received
8/1/91

SAMPLE COLLECTED BY : EPA Region VII Lab

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 101 QCC: _ MEDIA: SOIL PL: S P F D

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: OUTFALL 001 7/31/91
LOCATION: RIVERDALE IA DATE TIME FROM REF PT
CASE/BATCH/SMO: _____/_/_____ LAB: ___ BEG: 08/01/91 13:30 EAST: ____
STORET/SAROAD NO: _____ END: __/__/__ __:__ NORTH: ____
DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| GLASS | ICED | SM | METALS → Hg (SM34) |
| GLASS | ICED | SS | SEMIVOLATILES |
| GLASS | NONE | SV | VOLATILES |
| GLASS | ICED | S16 | PCB'S - G. BEEMONT |

COMMENTS:

area 43a
Outfall 001

SAMPLE COLLECTED BY : Todd Hunt
Tim Thompson

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 102 QCC: _ MEDIA: SOIL PL: S F F D

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: OUTFALL 002 7/31 DATE TIME FROM REF PT
LOCATION: RIVERDALE IA BEG: ~~07~~/01/91 15:15 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: __/__/__ __:__ NORTH: ____
STORET/SAROAD NO: _____ DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| GLASS | ICED | 'SM | METALS → Hg (SM34). |
| GLASS | ICED | 'SS | 'SEMIVOLATILES |
| GLASS | NONE | 'SV | 'VOLATILES |
| GLASS | ICED | 'S16 | 'PCB'S - G. BEEMONT |

COMMENTS:
outfall 002
area 7

SAMPLE COLLECTED BY : Todd Hunt
Tim Thompson

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 103 QCC: _ MEDIA: SOIL PL: S P F 0

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: OUTFALL 003
LOCATION: RIVERDALE IA
CASE/BATCH/SMO: _____/_/_____ LAB: ___
STORET/SAROAD NO: _____

| | DATE | TIME | FROM REF PT |
|---|---|---|---|
| BEG: | ~~09/01~~ 7/31/91 | 15:45 | EAST: ____ |
| END: | __/__/__ | __:__ | NORTH: ____ |
| | | | DOWN: ____ |

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| GLASS | ICED | *SM | METALS → Hg (only 3 yr). ✓ |
| GLASS | ICED | *SS | SEMIVOLATILES ✓ |
| GLASS | NONE | *SV | VOLATILES |
| GLASS | ICED | *S16 | PCB'S - G. BEEMONT ✓ |

COMMENTS:

outfall 003
area 2

SAMPLE COLLECTED BY : Todd Aunt
Tim Thompson

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 91 ACTNO: ISXP8 SAMNO: ~~104~~ 103 QCC: 0 MEDIA: SOIL PL: S P F D

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

SAMPLE DES: OUTFALL ~~002~~ 003 DUP
LOCATION: RIVERDALE IA
CASE/BATCH/SMO: _____/_/_____ LAB: ___
STORET/SAROAD NO: _____

7/31 DATE TIME FROM REF PT
BEG: ~~08/01~~/91 13:45 EAST: ____
END: __/__/__ __:__ NORTH: ____
DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| GLASS | ICED | SM | METALS ✓ Sm3e(Hg). |
| GLASS | ICED | SS | SEMIVOLATILES ✓ |
| GLASS | NONE | SV | VOLATILES ✓ |
| GLASS | ICED | S16 | PCB'S - G. BEEMONT ✓ |

COMMENTS:

Outfall 003
area 2

Duplicate of
ISXP8-103

SAMPLE COLLECTED BY : Todd Hunt
Tom Thompson

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 104 QCC: _ MEDIA: SOIL PL: S P F O

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: OUTFALL 004
LOCATION: RIVERDALE IA
CASE/BATCH/SMO: _____/_/_____ LAB: ___
STORET/SAROAD NO: _____

| | DATE | TIME | FROM REF PT |
|---|---|---|---|
| BEG: | ~~08~~ 7/31/91 | 16:30 | EAST: ____ |
| END: | __/__/__ | __:__ | NORTH: ____ |
| | | | DOWN: ____ |

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| GLASS | ICED | SM | METALS ✓ Hg (SW34). |
| GLASS | ICED | SS | SEMIVOLATILES ✓ |
| GLASS | NONE | SV | VOLATILES ✓ |
| GLASS | ICED | S16 | PCB'S - G. BEEMONT ✓ |

COMMENTS:

outfall 004
area 17
Extra volume for MS/MSD collected

SAMPLE COLLECTED BY : Todd Hunt
Tom Thompson

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 105 QCC: _ MEDIA: SOIL PL: S P F D

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: OUTFALL 005
LOCATION: RIVERDALE IA
CASE/BATCH/SMO: _____/_/_____ LAB: ___
STORET/SAROAD NO: _____

DATE TIME FROM REF PT
BEG: ~~08/01~~ 7/31 /91 17:10 EAST: ____
END: __/__/__ __:__ NORTH: ____
DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| GLASS | ICED | SM | METALS ~~Hg (SM3E)~~ |
| GLASS | ICED | SS | SEMIVOLATILES ✓ |
| GLASS | NONE | SV | VOLATILES ✓ |
| GLASS | ICED | S16 | PCB'S - G. BEEMONT ✓ |

COMMENTS:

Outfall 005
area 001

SAMPLE COLLECTED BY : Todd Hurst
Tim Thompson

DRAFT

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

---

FY: 91 ACTNO: ISXP8 SAMNO: 108 QCC: F MEDIA: SOIL FL: S P F D

---

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

---

SAMPLE DES: TRIP BLANK 8/1 DATE TIME FROM REF PT
LOCATION: RIVERDALE IA BEG: 07/~~07~~/91 14:00 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: __/__/__ __:__ NORTH: ____
STORET/SAROAD NO: _____ DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| GLASS | NONE | SV | VOLATILES ✓ |

COMMENTS:

Soil trip blank for
Sediments collected 7/31/91

EPA Region III labs

SAMPLE COLLECTED BY : _____

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 91 ACTNO: ISXP8 SAMNO: 109 QCC: ~~X~~ MEDIA: ~~SOIL~~ WATER PL: S P F D

ACTIVITY DES: MISSISSIPPI RIVER POOL #15 REF LATITUDE: __ __ __
LOCATION: DAVENPORT IA PROJECT NUM: A41 PT: LONGITUDE: ___ __ __

SAMPLE DES: EQUIP RINSATE
LOCATION: RIVEROALE IA
CASE/BATCH/SMO: _____/_/_____ LAB: ___
STORET/SAROAD NO: _____

DATE TIME FROM REF PT
BEG: ~~7/31~~ 08/01/91 16:45 EAST: ____
END: __/__/__ __:__ NORTH: ____
DOWN: ____

ANALYSIS REQUESTED:

| CONTAINER | PRESERVATIVE | MGP | NAME |
|---|---|---|---|
| GLASS | NONE | W SV | VOLATILES → Hg (Cmw24) - |
| ~~GLASS~~ CUBI | ~~ICED~~ HNO3 | W SM | METALS |
| GLASS | ICED | W SS | SEMIVOLATILES |
| GLASS | ICED | W ~~S~~ 24 | PCB'S - G. BEEMONT |

COMMENTS:

Collected before sampling Outfall 005

This is a Rinsate blank!

Must have "F" in QC.
I had to Re-label at Lab.
M 8/1/91

SAMPLE COLLECTED BY : Todd Hunt
Tim Thompson

# CHAIN OF CUSTODY RECORD
## ENVIRONMENTAL PROTECTION AGENCY REGION VII

8/8/91

31

| ACTIVITY LEADER(Print) | NAME OF SURVEY OR ACTIVITY | DATE OF COLLECTION DAY MONTH YEAR | SHEET |
|---|---|---|---|
| A Dunton / Lydigsen | ALCOA Mississippi River Pool 15 | ~~30~~ 07 91 | 1 of |

CONTENTS OF SHIPMENT

| SAMPLE NUMBER | TYPE OF CONTAINERS: CUBITAINER | ~~80 ml~~ BOTTLE | ~~Exp~~ BOTTLE | BOTTLE | VOA SET (2 VIALS EA) | SAMPLED MEDIA: water | soil | sediment | dust | other | RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NUMBERS OF CONTAINERS PER SAMPLE NUMBER | | | | | | | | | | |
| 1-ISXP8-001 | 1 | 2 | | | 1 | X | | | | | |
| 1-ISXP8-~~004~~ 002D | | 2 | | | 1 | X | | | | | Dup. |
| 1-ISXP8-102 | | | 3 | | 1 | | | X | | | |
| 1-ISXP8-101 | | | 3 | | 1 | | | X | | | |
| 1ISXP8009F | | | | | 1 | X | | | | | trip (Trial Rep's burn |
| 1-ISXP8-109F | 1 | 2 | | | 1 | X | | | | | Rinsate M |
| | Pa | | | | | | | | | | |

DESCRIPTION OF SHIPMENT

___ PIECE(S) CONSISTING OF ___ BOX(ES)

1 ICE CHEST(S); OTHER ___

MODE OF SHIPMENT

X COMMERCIAL CARRIER: FedEx

___ COURIER

___ SAMPLER CONVEYED

0939122225 (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

| RELINQUISHED BY (SAMPLER) | DATE | TIME | RECEIVED BY | REASON FOR CHANGE OF CUSTODY |
|---|---|---|---|---|
| Angela Blount SEALED ☐ UNSEALED ☐ | 7/31 | 1835 | Fed Ex X SEALED ☐ UNSEALED ☐ | |
| RELINQUISHED BY | DATE | TIME | RECEIVED BY | REASON FOR CHANGE OF CUSTODY |
| SEALED ☐ UNSEALED ☐ | | | Susan Roby 8/1/91 SEALED ☐ 1210 UNSEALED ☐ | Analysis |
| RELINQUISHED BY | DATE | TIME | RECEIVED BY | REASON FOR CHANGE OF CUSTODY |
| SEALED ☐ UNSEALED ☐ | | | SEALED ☐ UNSEALED ☐ | |

7-EPA-9262(Revised 5/85)

# CHAIN OF CUSTODY RECORD
## ENVIRONMENTAL PROTECTION AGENCY REGION VII

| ACTIVITY LEADER(Print) | NAME OF SURVEY OR ACTIVITY | DATE OF COLLECTION (DAY / MONTH / YEAR) | SHEET |
|---|---|---|---|
| A Dunbar / J Lydigsen | Miss River POD / #15 / ALCOA | 1 / 8 / 91 | 2 of 2 |

CONTENTS OF SHIPMENT

| SAMPLE NUMBER | TYPE OF CONTAINERS: CUBITAINER | BOTTLE | BOTTLE | BOTTLE | VOA SET (2 VIALS EA) | SAMPLED MEDIA: water | soil | sediment | dust | other | RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NUMBERS OF CONTAINERS PER SAMPLE NUMBER | | | | | | | | | | |
| ISXP8-002 | 1 | 2 | | | 1 | X | | | | | |
| ISXP8-003 | 1 | 2 | | | 1 | X | | | | | |
| ISXP8-004 | 2 | 4 | | | 2 | X | | | | | Extra vol. for MS/MSD |
| ISXP8-005 | 1 | 2 | | | 1 | X | | | | | |
| ISXP8-008F | 1 | 2 | | | 1 | X | | | | | Field Blank |
| ISXP8-108F | | | | | 1 | | | X | | | soil trip blank |
| ISXP8-006F | | | | | 1 | X | | | | | trip blank water |

Angela B Dunbar

DESCRIPTION OF SHIPMENT

___ PIECE(S) CONSISTING OF ___ BOX(ES)

3 ICE CHEST(S); OTHER ___

MODE OF SHIPMENT

___ COMMERCIAL CARRIER: ___

___ COURIER

X SAMPLER CONVEYED

(SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

| RELINQUISHED BY (SAMPLER) | DATE | TIME | RECEIVED BY | REASON FOR CHANGE OF CUSTODY |
|---|---|---|---|---|
| Angela B Dunbar ☐ SEALED ☐ UNSEALED | 8/12/91 | 1450 | Barry Evans 15:10 ☐ SEALED ☐ UNSEALED X | Rec'd @ lab |
| RELINQUISHED BY ☐ SEALED ☐ UNSEALED | DATE | TIME | RECEIVED BY ☐ SEALED ☐ UNSEALED | REASON FOR CHANGE OF CUSTODY |
| RELINQUISHED BY ☐ SEALED ☐ UNSEALED | DATE | TIME | RECEIVED BY ☐ SEALED ☐ UNSEALED | REASON FOR CHANGE OF CUSTODY |

7-EPA-9262(Revised 5/89)

R865/94

# CHAIN OF CUSTODY RECORD
## ENVIRONMENTAL PROTECTION AGENCY REGION VII

| ACTIVITY LEADER(Print) | NAME OF SURVEY OR ACTIVITY | DATE OF COLLECTION (DAY / MONTH / YEAR) | SHEET |
|---|---|---|---|
| Acuman / J Lydigsen | Miss. R. Pool #15 | 31 / 07 / 91 | 1 of 2 |

CONTENTS OF SHIPMENT

| SAMPLE NUMBER | TYPE OF CONTAINERS: CUBITAINER | BOTTLE | 80z BOTTLE | BOTTLE | VOA SET (2 VIALS EA) | SAMPLED MEDIA: water | soil | sediment | dust | other | RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NUMBERS OF CONTAINERS PER SAMPLE NUMBER | | | | | | | | | | |
| ISXP8-103 | | | 3 | | 1 | | | X | | | |
| ISXP8-103D | | | 3 | | 1 | | | X | | | Dup. of -103 |
| ISXP8-104 | | | 6 | | 1 | | | X | | | Extra Vol. for MS/MSD |
| ISXP8-105 | | | 3 | | 1 | | | X | | | |

DESCRIPTION OF SHIPMENT

___ PIECE(S) CONSISTING OF ___ BOX(ES)

3 ICE CHEST(S); OTHER ___

MODE OF SHIPMENT

___ COMMERCIAL CARRIER: ___

___ COURIER

X SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

| RELINQUISHED BY (SAMPLER) | DATE | TIME | RECEIVED BY | REASON FOR CHANGE OF CUSTODY |
|---|---|---|---|---|
| SEALED UNSEALED | 8/2/91 | 1450 | SEALED Sam Evans 5:10 UNSEALED X | Feed @ Lab |
| RELINQUISHED BY | DATE | TIME | RECEIVED BY | REASON FOR CHANGE OF CUSTODY |
| SEALED UNSEALED | | | SEALED UNSEALED | |
| RELINQUISHED BY | DATE | TIME | RECEIVED BY | REASON FOR CHANGE OF CUSTODY |
| SEALED UNSEALED | | | SEALED UNSEALED | |

7-EPA-9262(Revised 5/85)

# ENVIRONMENTAL SERVICES ASSISTANCE TEAM – ZONE II

ICF Technology Incorporated

**NSI Technology Services Corp.**

The Bionetics Corp.

ESAT Region VII
NSI Technology Services
25 Funston Road
Kansas City, KS 66115
(913) 236-3881

TO: Larry Marchin/Barry Evans
Data Review Task Monitor
THRU: Harold Brown, Ph.D.
ESAT Deputy Project Officer, EPA

FROM: Kevin Ludwikoski
ESAT Data Reviewer
THRU: Ronald A. Ross
ESAT Team Manager

DATE: September 17, 1991
SUBJECT: Review of inorganic data for **Mississippi River Pool # 15**

TID# 07-9103-535
ASSIGNMENT# **955**
ICF ACCT# 302-26-535-02
ManTech S.O.# 1073-535
ESAT Document No. ESAT-VII-535-0209

These data were reviewed primarily according to the "Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses," July 1988 revision with changes given in the Region VII Inorganic Data Review Training Manual and EPA memorandums.

The following comments and attached data sheets are a result of the ESAT review, according to EPA policies, of the following data from the contract laboratory.

CASE NO.: **16873**
SITE: **Mississippi River Pool**
REVIEWER: Kevin Ludwikoski

LABORATORY: **AATS**
METHOD NO.: CS0390I
EPA ACTIVITY NO.: **ISXP8**
MATRIX: **SOIL/WATER**

TOTAL METALS (SOIL)

| SMO Sample No. | EPA Sample No. |
|---|---|
| MGH299 | ISXP8101 |
| MGH300 | ISXP8102 |
| MGJ031 | ISXP8103 |
| MGJ032 | ISXP8103D |
| MGJ033 | ISXP8104 |
| MGJ034 | ISXP8105 |

TOTAL METALS (WATER)

| SMO Sample No. | EPA Sample No. |
|---|---|
| MGH297 | ISXP8001 |
| MGH298 | ISXP8001D |
| MGJ026 | ISXP8002 |
| MGJ027 | ISXP8003 |
| MGJ028 | ISXP8004 |
| MGJ029 | ISXP8005 |
| MGJ030 | ISXP8008F |
| MGJ298 | ISXP8109F |
| MGJ299 | ISXP8929P |

**GENERAL**

This data review assignment covers NINE WATER samples analyzed for TOTAL METALS and SIX SOIL samples analyzed for TOTAL METALS for case number 16873. There was one PE sample, one field blank, one rinsate blank and one field duplicate for Total Metals in water. There was one field duplicate for Total Metals in soil included with this assignment. Sample ISXP8001D was used as a laboratory duplicate sample for the analysis. As a result, this sample is refered to in this document and reported in the data sheets as ISXP8001L.

**1. Technical Holding Times / Preservation**

A. Technical holding times were observed for all analytes.

B. Technical holding times are not specified for soil samples.

**2. Initial and Continuing Calibration**

A. All percent recoveries were within control limits for water samples.

B. All percent recoveries were with control limits for soil samples.

**3. Blanks**

Several analytes were detected in the blanks. Corresponding sample results were qualified according to the blank rule using five times the highest blank value. Sample results requiring modification are reported as non-detect on the attached data sheets.

A. TOTAL METALS (WATER)

| Analyte | 5 x Highest Blank (µg/L) | Qualified Samples |
|---|---|---|
| As | 14 | None qualified |
| Cu | 65 | None qualified |
| Pb | 8 | ISXP8001, -001D, -001L, -004 |
| Hg | 2.95 | ISXP8004S, -929P |

Fe, Mg, and Pb were found in the rinsate blank (ISXP8109F); however, no data were qualified due to this sample. Due to the high concentration of these analytes, the user is encouraged to use careful judgement in utilizing associated data.

B. TOTAL METALS (SOIL)

| Analyte | 5 x Highest Blank (mg/kg) | Qualified Samples |
|---|---|---|
| Pb | 1.4 | None qualified |

4. **ICP Interference Check**

Recoveries of solution AB analytes were within control limits for Total Metals. Sb, K, and Na were found but not present in the ICS solution. All absolute values for these analytes were below the CRDL; therefore, no data were qualified by the ICP interference check sample.

5. **Laboratory Control Standard (LCS)**

A. LCS results were within established control limits for Total Metals in water samples.

B. LCS results were within established control limits for Total Metals in soil samples.

6. **Duplicates**

A. The RPD for all analytes were within control limits for Total Metals in water samples.

B. The RPD for Cu and Fe exceeded control limits for Total Metals in soil. The sample results that were coded J are listed below.

TOTAL METALS
(SOIL)

| Analyte | Samples Qualified | Code |
|---|---|---|
| Cu | ISXP8101, -102, -103, -103D, -104, -104S, -105, -901C | J |
| Fe | ISXP8101, -102, -103, -103D, -104, -105, -901C | J |

Note: All samples listed above with the exception of ISXP8104S were also "J" coded for Cu due to the spike rule.

7. **Matrix Spike Sample**

A. Cd, Pb, and Tl were out of range for matrix spike recovery for Total Metals in water. The samples that had data qualified are listed below.

TOTAL METALS
(WATER)

| Analyte | % Rec | Sample No. | Code |
|---|---|---|---|
| Cd | 128.9 | ISXP8929P, -900C | J |
| Pb | 54.1 | ISXP8929P, -900C | J |
| Cr | 66.9 | ISXP8900C | J |

Note: Samples ISXP8001, -001D, -001L and 004 were qualified for Pb; however, these samples had been previously "U" coded according to the blank rule.

7. **Matrix Spike Sample** (CONT.)

B. Sb, Cd, Cr and Cu were out of range for matrix spike recovery for Total Metals in soil. The samples that had data qualified are listed below.

TOTAL METALS
(SOIL)

| Analyte | % Rec | Sample No. | Code |
|---|---|---|---|
| Sb | 20.9 | ISXP8901C | J |
| | | ISXP8101, -102, -103, -103D, -104, -104L, -105, -901M | I |
| Cd | 137.0 | ISXP8901C | J |
| Cr | 167.3 | ISXP8101, -102, -103, -103D, -104 -104L, -105, -901C | J |
| Cu | 419.2 | ISXP8101, -102, -103, -103D, -104 -104L, -105, -901C | J |

Note: Cu in samples ISXP8101, -102, -103, -103D, -104, -105 and 901C were previously "J" coded due to the duplicate rule.

8. **ICP Serial Dilution**

A. The ICP serial dilution results for Total metals in water were within control limits.

B. The ICP serial dilution results for Total Metals in soil were within control limits with the exception of Cu (13.9 %RPD). Samples ISXP8101, -102, -103, -103D, -104, -104L, -104S, -105, and -901C were qualified by ICP serial dilution rules. These samples had been previously "J" coded due to either the spike or duplicate rules.

9. **Furnace Atomic Absorption**

A. No MSA's were performed on Total Metals in water.

B. The analytical scheme was followed for Furnace AA analysis for Total Metals in soil. MSA correlation coefficients were acceptable for As in samples ISXP8104 and ISXP8104L (cc=.9949 and .9981 respectively).

10. **PE Sample**

All analytes present in the PE Sample were found at acceptable levels with the exception of Al and Hg (160% and 149% recoveries, respectively).

11. **Summary**

A. Two analytes had samples that were qualified by the blank rule and three by the spike rule for Total Metals in water.

B. Four analytes were qualified by the spike rule, two by the duplicate rule and one by serial dilution outliers for Total Metals in soil.

# ENVIRONMENTAL SERVICES ASSISTANCE TEAM – ZONE II

ICF Technology Incorporated

**NSI Technology Services Corp.**

The Bionetics Corp.

ESAT Region VII
NSI Tech. Serv. Corp.
25 Funston Road
Kansas City, KS 66115
(913) 551-5000

TO: Barry Evans
Data Review Task Monitor
THRU: Harold Brown, Ph.D.
ESAT Deputy Project Officer, EPA

FROM: David J. Hickey
ESAT Data Reviewer
THRU: Ronald A. Ross
ESAT Team Manager

DATE: September 27, 1991
SUBJECT: Review of organic data for **Mississippi River Pool #15**

TID# 07-9103-535
ASSIGNMENT# 957
ICF ACCT# 26-535-02
NSI S.O.# 1073-535
ESAT Document No. ESAT-VII-535-0223

These data were reviewed primarily according to the "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses," February 1990.

The following comments and attached data sheets are a result of the ESAT review, according to EPA policies, of the following data from the contract laboratory.

CASE NO.: 16873
SITE: Mississippi River Pool
REVIEWER: David J. Hickey

LABORATORY: PNELI
METHOD NO.: CS0390Q
EPA ACTIVITY NO.: ISXP8
MATRIX: WATER/SOIL

## VOLATILES
## (WATER)

| SMO Sample No. | EPA Sample No. | SMO Sample No. | EPA Sample No. |
|---|---|---|---|
| GL339 | ISXP8001 | GL361 | ISXP8006F |
| GL340 | ISXP8001D | GL366 | ISXP8008F |
| GL362 | ISXP8002 | GL343 | ISXP8009F |
| GL363 | ISXP8003 | GL344 | ISXP8109F |
| GL364 | ISXP8004 | GL347 | ISXP8926P |
| GL365 | ISXP8005 | | |

## VOLATILES
(SOIL)

| SMO Sample No. | EPA Sample No. | SMO Sample No. | EPA Sample No. |
|---|---|---|---|
| GL341 | ISXP8101 | GL370 | ISXP8104 |
| GL342 | ISXP8102 | GL371 | ISXP8105 |
| GL368 | ISXP8103 | GL367 | ISXP8108F |
| GL369 | ISXP8103D | | |

## SEMIVOLATILES
(WATER)

| SMO Sample No. | EPA Sample No. | SMO Sample No. | EPA Sample No. |
|---|---|---|---|
| GL339 | ISXP8001 | GL366 | ISXP8008F |
| GL340 | ISXP8001D | GL344 | ISXP8109F |
| GL362 | ISXP8002 | GL345 | ISXP8927P |
| GL363 | ISXP8003 | | |
| GL364 | ISXP8004 | | |
| GL365 | ISXP8005 | | |

## SEMIVOLATILES
(SOIL)

| SMO Sample No. | EPA Sample No. | SMO Sample No. | EPA Sample No. |
|---|---|---|---|
| GL341 | ISXP8101 | GL369 | ISXP8103D |
| GL342 | ISXP8102 | GL370 | ISXP8104 |
| GL368 | ISXP8103 | GL371 | ISXP8105 |

## PESTICIDES/PCBs
(WATER)

| SMO Sample No. | EPA Sample No. | SMO Sample No. | EPA Sample No. |
|---|---|---|---|
| GL339 | ISXP8001 | GL365 | ISXP8005 |
| GL340 | ISXP8001D | GL366 | ISXP8008F |
| GL362 | ISXP8002 | GL344 | ISXP8109F |
| GL363 | ISXP8003 | GL346 | ISXP8928P |
| GL364 | ISXP8004 | | |

## PESTICIDES/PCBs
(SOIL)

| SMO Sample No. | EPA Sample No. | SMO Sample No. | EPA Sample No. |
|---|---|---|---|
| GL341 | ISXP8101 | GL370 | ISXP8104 |
| GL342 | ISXP8102 | GL371 | ISXP8105 |
| GL368 | ISXP8103 | | |
| GL369 | ISXP8103D | | |

**GENERAL**

This data review assignment covers 11 WATER and 7 SOIL samples analyzed for VOLATILES; 9 WATER and 6 SOIL samples analyzed for SEMIVOLATILES; and 9 WATER and 6 SOIL samples analyzed for PESTICIDES/PCBs for Case number 16873. For the volatiles, there were five field blanks (including trip and rinsate), six method blanks, two field duplicates, and one performance evaluation sample included with this assignment. For the semivolatiles, there were two field blanks, five method blanks, two field duplicates, and one performance evaluation sample included with this assignment. For the pesticides/PCBs, there was two field blanks, two field duplicates, one performance evaluation sample, four method blanks, and six instrument blanks included with this assignment.

1. **Holding Times and Preservation**

Volatiles:

Several water samples exceeded the specified Aromatic holding times for volatiles by 2 days or less but no qualification was required. No holding times have been established for soil samples.

Semivolatiles:

Two water samples exceeded extraction holding times by two days or less but no qualification was required. Analysis of the waters for semivolatiles was completed within the specified time limit. No holding times have been established for soil samples.

Pesticides/PCBs:

Two water samples exceeded extraction holding times by two days or less but no qualification was required. Analysis of the waters was completed within the specified time limit. No holding times have been established for soil samples.

2. **GC/MS Tuning**

All relative ion abundances were within the established control limits.

3. **Initial and Continuing Calibration**

Volatiles:

All %RSD's were within control limits on the initial calibration. All RRF values were within control limits on both the initial and continuing calibrations. %D was out of control for Chloromethane, Chloroethane, Acetone, 2-Butanone, Dibromochloromethane, and Bromoform. Since associated data were either non-detect or qualified by other rules, no data were qualified by the volatile continuing calibrations.

Semivolatiles:

All %RSD's were within control limits on the initial

calibrations. All RRF values were within control limits on both the initial and continuing calibrations.%D was out of control for Hexachlorocyclopentadiene, 2-Methylphenol, 2,2'-Oxybis(1-Chloropropane), N-Nitroso-Dipropylamine, 4-Nitrophenol, Carbazole, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitroaniline, 4,6-Dinitro-2-Methylphenol, N-Nitrosodiphenylamine, and Bis(2-Ethylhexyl)Phthalate. As a result, the following samples were J-coded: ISXP8102S, ISXP8102W, ISXP8104S, and ISXP8104W for N-Nitroso-Dipropylamine; ISXP8102S, ISXP8102W, ISXP8104S, and ISXP8104W for 4-Nitrophenol; ISXP8103, ISXP8103D, ISXP8104, ISXP8104S, and ISXP8104W for Carbazole.

Pesticides/PCBs:

All samples were within quality control limit requirements for retention time windows and percent relative standard deviation on the initial calibration. All samples were within quality control limit requirements for analytical sequence and relative percent difference on the continuing calibration. Almost every sample had compounds that did not meet quality control limit requirements for percent difference between the concentrations between columns (quantitation column within 25% of confirmation column). Since all compounds were less than the contract required quantitation limit (CRQL), no data were qualified.

4. GC/ECD Instrument Performance

The pesticide resolution check mixture was within quality control limit requirements. The pesticide performance evaluation check was within quality control limit requirements for retention time windows, relative percent difference of the performance evaluation mixtures and individual mixes, and percent breakdown of Endrin and 4,4'-DDT.

5. Internal Standard Response

Volatiles:

Sample ISXP8102 and its reanalysis were outside of control limits (high) for Chlorobenzene. Since all compounds quantitated from Chlorobenzene were non-detect for this sample, no qualification was necessary.

Semivolatiles:

Sample ISXP8103 and the diluted analysis were outside of control limits (low) for Acenaphthene-d10 and Phenanthrene-d10 (original analyses only), Crysene-d12 and Perylene-12. As a result, all positive compound results quantitated from Crysene-d12 and Perylene-d12 were J-coded for that sample. Sample ISXP8103D and the diluted analysis were outside of control limits for Acenaphthene-d10 and Phenanthrene-d10 (original analyses only), Crysene-d12 and Perylene-12. As a result, all positive compound results quantitated from Acenaphthene-d10, Phenanthrene-d10, Crysene-d12, and Perylene-d12 were J-coded for that sample. Samples ISXP8104, ISXP8104S, and ISXP8104W were outside of control limits (low) for Acenaphthene-d10, Phenanthrene-d10, Crysene-d12, and Perylene-d12. These samples were

not reanalyzed. As a result, all positive compound results quantitated from Acenaphthene-d10, Phenanthrene-d10, Crysene-d12, and Perylene-d12 were J-coded for those samples. Samples ISXP8102, ISXP8102S, and ISXP8102W were outside of control limits (low) for Perylene-d12. These samples were not reanalyzed. As a result, all positive compound results quantitated from Perylene were J-coded for those samples.

5. **Pesticide Clean-up Checks**

The percent recoveries for the florisil cartridge were within quality control limit requirements with the exception of Endrin. No data were qualified.

6. **Blanks**

Volatiles:

Methylene Chloride was found in two of the water method blanks at levels below the CRQL. No samples were qualified as a result of method blank contamination. Methylene Chloride, Acetone, and Toluene were found in the water field blanks, qualifying samples ISXP8006F, ISXP8009F, and ISXP8926P with a U-code for Acetone. Acetone in the soil field blank (ISXP8108F) qualified samples ISXP8101, ISXP8102, ISXP8103D, ISXP8104, ISXP8105, ISXP8104S, and ISXP8104W with a U-code.

Semivolatiles:

Bis(2-Ethylhexyl)Phthalate was found in two of the soil method blanks, qualifying samples ISXP8103D and ISXP8104 with a U-code for that compound. Diethylphthalate, Bis(2-Ethylhexyl)Phthalate, and Di-N-Butylphthalate were found in the water field blanks, qualifying sample ISXP8001D with a U-code for Bis(2-Ethylhexyl)Phthalate.

Pesticides/PCBs:

All four method blanks were free of contamination. All instrument blanks were free of contamination.

7. **Surrogate Recovery**

Volatiles:

Surrogate compound recoveries were outside control limits (low) for 1,2-Dichloroethane-d4 in sample ISXP8102. Upon reanalysis of the sample, all surrogate compound recoveries were within control limits. There was no qualification of sample data based on the reanalysis results.

Semivolatiles:

Surrogate compound recoveries for 2-Fluorobiphenyl and 2,4,6-Tribromophenol were above control limits in several samples. However, no samples were qualified.

Pesticides/PCBs:

Surrogate compound recoveries for both Tetrachloro-m-Xylene and Decachlorobiphenyl were below control limits in several samples. Surrogate compound recoveries for Tetrachloro-m-Xylene was above control limits in the dilution of one sample. Surrogate compound recoveries for Decachlorobiphenyl were 0% recovery in several samples. As a result of these outliers, all positive results for samples ISXP8001, ISXP8001D, ISXP8004, ISXP8005, ISXP8109F, ISXP8101, ISXP8102, ISXP8104, ISXP8104S, ISXP8104W, and ISXP8105 were J-coded; the high concentrations of some analytes seen in many soil samples should be seen as lower estimates of the true concentrations. All non-detect values for these samples should be viewed as estimated detection limits.

8. **Matrix Spike/Matrix Spike Duplicate Recovery**

Volatiles:

The Matrix spike/Matrix spike duplicate recoveries for both matrices were within control limits. All RPDs for both matrices were within control limits. Contamination of Acetone in the water MS/MSD; and Methylene Chloride, Acetone, and 2-Butanone in the soil MS/MSD did not result in the qualification of any sample data. Note that for LAST purposes, the MS and MSD are listed as ISXP8001S and ISXP8001W, even though they originated from sample ISXP8001D.

Semivolatiles:

The Matrix spike/Matrix spike duplicate recoveries were out of control for one compound in the water matrix. The MS/MSD recoveries were out of control for two compounds in the medium-level soil matrix, and out of control for one compound in the low-level soil matrix. The RPD for the water matrix was within control limits, while both level soil matrix MSD's each had one RPD out of control limits. No samples were qualified based on MS/MSD recoveries or RPD's. Note that for LAST purposes, the MS and MSD for the water matrix are listed as ISXP8001S and ISXP8001W, even though they originated from sample ISXP8001D.

Pesticides/PCBs:

The Matrix spike/Matrix spike duplicate recoveries were out of control for three compounds in the water matrix. The Matrix spike/Matrix spike duplicate recoveries were out of control for ten compounds in the soil matrix. The RPDs for both the water and soil matrices were within control limits. No samples were qualified based on MS/MSD recoveries. Note that for LAST purposes, the MS and MSD for the water matrix are listed as ISXP8001S and ISXP8001W, even though they originated from sample ISXP8001D.

9. **Performance Evaluation Sample**

Volatiles:

Recovery of spiked analytes was very good. Acetone, which was also present in one of the field blanks, was the only additional

compound found in the performance sample. No data were qualified based on performance evaluation sample recoveries.

Semivolatiles:

Recovery of spiked analytes was very poor. None of the target analytes were recovered from the performance sample. The reason for no recovery is thought to exist in the performance spiking solution, as similar results (no recovery) were obtained from two other performance samples unrelated to this project. As a result, the spiking solution is no longer being used in performance evaluation.

Pesticides/PCBs:

Recovery of spiked analytes was very poor. None of the target analytes were recovered from the performance sample. The reason for no recovery is unknown.

10. Duplicates

Volatiles:

Good agreement existed between the duplicates in both matrices and their respective original samples.

Semivolatiles:

Good agreement existed between the duplicates in both matrices and their respective original samples. However, two phthalates were detected in sample ISXP8001D that were not detected in the original sample. Additionally, a phthalate was reported in sample ISXP8103 which was not present in the duplicate.

Pesticides/PCBs:

Good agreement existed between the duplicates in both matrices and their respective original samples. Note that Endrin was detected in the duplicate of ISXP8003, but just below the CRQL.

11. Compound Identification and Quantitation

Due to the requested review level, results listed on the summary forms were used for the review. These results were not checked against the raw data for accuracy, and calculations were not verified. All positive results found below the CRQL were raised to the CRQL and coded U. Samples ISXP8104S and ISXP8104W in the semivolatiles, which exceeded the calibration range of the instrument for Fluoranthene, were not diluted and reanalyzed. Had the samples not been qualified for other QC outliers, they would have been J-coded.

12. Summary

Volatiles:

The lab was instructed to analyze the water and soil samples for VOA analytes. Calibration outliers were found for many

compounds, however, sample results were either non-detect or were qualified by other rules. Methylene Chloride was found in two of the three water method blanks, but since samples were non-detect for this compound, no coding was necessary. All soil method blanks were free of contamination. Field blank contamination resulted in the qualification of three water samples for one compound, and seven soil samples for one compound. Poor internal standard compound recovery in a sample and its reanalysis did not result in any sample data qualification since no quantitated compounds were affected. All other QC was acceptable.

Semivolatiles:

The lab was instructed to analyze the water and soil samples for Semivolatiles analytes. Calibration outliers were found for many compounds, resulting in data for seven soil samples being J-coded. One common laboratory contaminant was found in two of the three soil method blanks and three common laboratory contaminants were found in both of the water field blanks, qualifying three samples with a U-code for Bis(2-Ethylhexyl)Phthalate. All water method blanks were free of contamination. Poor surrogate compound recovery did not result in the qualification of any positive sample data. Poor internal standard compound recovery in eight samples (six of which were not reanalyzed) resulted in the qualification of all positive sample data which were quantitated from those internal standard compounds that were out of control with a J-code. All other QC was acceptable.

Pesticides/PCBs:

All quality control limit requirements were met for both initial and continuing calibrations. All instrument performance checks met quality control limit requirements except for one compound in the clean-up check, but that outlier did not result in the qualification of any sample data. All blanks were free of contamination. Severe surrogate recovery outliers led to the qualification of all positive results with a J-code for twelve samples. All other QC was acceptable.

ANALYSIS REQUEST REPORT

PRELIMINARY DATA
SUBJECT TO REVISION

FOR ACTIVITY: ISXP8

S P F D

10/10/91 16:08:52

ALL REAL SAMPLES AND FIELD Q.C.

* LABO APPROVED

FY: 91 ACTIVITY: ISXP8 DESCRIPTION: MISSISSIPPI RIVER POOL #15 LOCATION: DAVENPORT IOWA

STATUS: ACTIVE TYPE: SAMPLING - CONTRACT LAB ANALYSIS PROJECT: A41

LABO DUE DATE IS 10/ 1/91. REPORT DUE DATE IS 10/15/91.

INSPECTION DATE: 8/ 1/91 ALL SAMPLES RECEIVED DATE: 08/02/91

ALL DATA APPROVED BY LABO DATE: 10/10/91 FINAL REPORT TRANSMITTED DATE: 00/00/00

EXPECTED LABO TURNAROUND TIME IS 60 DAYS EXPECTED REPORT TURNAROUND TIME IS 75 DAYS

ACTUAL LABO TURNAROUND TIME IS 69 DAYS ACTUAL REPORT TURNAROUND TIME IS 0 DAYS

| SAMP. NO. | QCC | M | DESCRIPTION | SAMPLE STATUS | # CONT. | CITY | STATE | AIRS/ STORET LOC NO | BEG. DATE | BEG. TIME | END. DATE | END. TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | | W | MISS. RIVER POOL #15-OUTFALL 001 | 1 | 4 | RIVERDALE | IOWA | | 07/31/91 | 10:50 | / / | : |
| 001 | D | W | MISS. RIVER POOL #15-OUTFALL 001 | 1 | 4 | RIVERDALE | IOWA | | 07/31/91 | 10:55 | / / | : |
| 002 | | W | MISS. RIVER POOL #15-OUTFALL 002/TRANS | 1 | 4 | RIVERDALE | IOWA | | 08/01/91 | 09:05 | / / | : |
| 003 | | W | MISS. RIVER POOL #15-OUTFALL 003 | 1 | 4 | RIVERDALE | IOWA | | 08/01/91 | 09:20 | / / | : |
| 004 | | W | MISS. RIVER POOL #15-OUTFALL 004 | 1 | 4 | RIVERDALE | IOWA | | 08/01/91 | 11:10 | / / | : |
| 005 | | W | MISS. RIVER POOL #15-OUTFALL 005 | 1 | 4 | RIVERDALE | IOWA | | 08/01/91 | 10:10 | / / | : |
| 006 | F | W | MISS. RIVER POOL #15-VOA TRIP BLANK | 1 | 1 | RIVERDALE | IOWA | | 08/01/91 | 14:10 | / / | : |
| 008 | F | W | MISS. RIVER POOL #15-FIELD BLANK | 1 | 4 | RIVERDALE | IOWA | | 08/01/91 | 11:30 | / / | : |
| 009 | F | W | MISS. RIVER POOL #15-WATER TRIP BLANK | 1 | 1 | RIVERDALE | IOWA | | 07/31/91 | 18:15 | / / | : |
| 101 | | S | MISS. RIVER POOL #15-OUTFALL 001 | 1 | 5 | RIVERDALE | IOWA | | 07/31/91 | 13:50 | / / | : |
| 102 | | S | MISS. RIVER POOL #15-OUTFALL 002 | 1 | 5 | RIVERDALE | IOWA | | 07/31/91 | 15:15 | / / | : |
| 103 | | S | MISS. RIVER POOL #15-OUTFALL 003 | 1 | 5 | RIVERDALE | IOWA | | 07/31/91 | 15:45 | / / | : |
| 103 | D | S | MISS. RIVER POOL #15-OUTFALL 003 | 1 | 5 | RIVERDALE | IOWA | | 07/31/91 | 15:45 | / / | : |
| 104 | | S | MISS. RIVER POOL #15-OUTFALL 004 | 1 | 5 | RIVERDALE | IOWA | | 07/31/91 | 16:30 | / / | : |
| 105 | | S | MISS. RIVER POOL #15-OUTFALL 005 | 1 | 5 | RIVERDALE | IOWA | | 07/31/91 | 17:10 | / / | : |
| 108 | F | S | MISS. RIVER POOL #15-SOIL TRIP BLANK | 1 | 1 | RIVERDALE | IOWA | | 08/01/91 | 14:00 | / / | : |
| 109 | F | W | MISS. RIVER POOL #15-WATER RINSATE BLK | 1 | 4 | RIVERDALE | IOWA | | 07/31/91 | 16:45 | / / | : |

# EXPLANATION OF CODES AND INFORMATION ON ANALYSIS REQUEST DETAIL REPORT

## SAMPLE INFORMATION:

SAMP. NO. = SAMPLE IDENTIFICATION NUMBER (A 3-DIGIT NUMBER WHICH IN COMBINATION WITH THE ACTIVITY NUMBER AND QCC, PROVIDES AN UNIQUE NUMBER FOR EACH SAMPLE FOR IDENTIFICATION PURPOSES)

QCC = QUALITY CONTROL CODE (A ONE-LETTER CODE USED TO DESIGNATE SPECIFIC QC SAMPLES. THIS FIELD WILL BE BLANK FOR ALL NON-QC OR ACTUAL SAMPLES):
- A = TRUE VALUE FOR CALIBRATION STANDARD
- B = CONCENTRATION RESULTING FROM DUPLICATE LAB SPIKE
- C = MEASURED VALUE FOR CALIBRATION STANDARD
- D = MEASURED VALUE FOR FILED DUPLICATE
- F = MEASURED VALUE FOR FIELD BLANK
- G = MEASURED VALUE FOR METHOD STANDARD
- H = TRUE VALUE FOR METHOD STANDARD
- K = CONCENTRATION RESULTING FROM DUPLICATE FIELD SPIKE
- L = MEASURED VALUE FOR LAB DUPLICATE
- M = MEASURED VALUE FOR LAB BLANK
- N = MEASURED VALUE FOR DUPLICATE FIELD SPIKE
- P = MEASURED VALUE FOR PERFORMANCE STANDARD
- R = CONCENTRATION RESULTING FROM LAB SPIKE
- S = MEASURED VALUE FOR LAB SPIKE
- T = TRUE VALUE OF PERFORMANCE STANDARD
- W = MEASURED VALUE FOR DUPLICATE LAB SPIKE
- Y = MEASURED VALUE FOR FIELD SPIKE
- Z = CONCENTRATION RESULTING FROM FIELD SPIKE

M = MEDIA CODE (A ONE-LETTER CODE DESIGNATING THE MEDIA OF THE SAMPLE):
- A = AIR
- H = OTHER (DOES NOT FIT ANY OTHER CATEGORY)
- S = SOLID (SOIL, SEDIMENT, SLUDGE)
- T = TISSUE (PLANT & ANIMAL)
- W = WATER (GROUND WATER, SURFACE WATER, WASTE WATER, DRINKING WATER)

DESCRIPTION = A SHORT DESCRIPTION OF THE LOCATION WHERE SAMPLE WAS COLLECTED

AIRS/STORET LOC. NO. = THE SPECIFIC LOCATION IDENTIFICATION NUMBER FOR EITHER OF THESE NATIONAL DATABASE SYSTEMS, AS APPROPRIATE

DATE/TIME INFORMATION = SPECIFIC INFORMATION REGARDING WHEN THE SAMPLE WAS COLLECTED
- BEG. DATE = DATE SAMPLING WAS STARTED
- BEG. TIME = TIME SAMPLING WAS STARTED
- END DATE = DATE SAMPLING WAS COMPLETED
- END TIME = TIME SAMPLING WAS COMPLETED
- NOTE: A GRAB SAMPLE WILL CONTAIN ONLY BEG. DATE/TIME
  A TIMED COMPOSITE SAMPLE WILL CONTAIN BOTH BEG AND END DATE/TIME TO DESIGNATE DURATION OF SAMPLE COLLECTION

## ANALYTICAL RESULTS/MEASUREMENTS INFORMATION:

COMPOUND = MGP (MEDIA-GROUP-PARAMETER) CODE AND NAME OF THE MEASURED CONSTITUENT OR CHARACTERISTIC OF EACH SAMPLE

UNITS = SPECIFIC UNITS IN WHICH RESULTS ARE REPORTED:
- C = CENTIGRADE (CELSIUS) DEGREES
- CFS = CUBIC FEET PER SECOND
- GPM = GALLONS PER MINUTE
- IN = INCHES
- I.D. = SPECIES IDENTIFICATION
- KG = KILOGRAM
- L = LITER
- LB = POUNDS
- MG = MILLIGRAMS (1 X 10-3 GRAMS)
- MGD = MILLION GALLONS PER DAY
- MPH = MILES PER HOUR
- MV = MILLIVOLT
- M/F = MALE/FEMALE
- M2 = SQUARE METER
- M3 = CUBIC METER
- NA = NOT APPLICABLE
- NG = NANOGRAMS (1 X 10-9 GRAMS)
- NTU = NEPHELOMETRIC TURBIDITY UNITS
- PC/L = PICO (1 X 10-12) CURRIES PER LITER
- PG = PICOGRAMS (1 X 10-12 GRAMS)
- P/CM2 = PICOGRAMS PER SQUARE CENTIMETER
- SCM = STANDARD CUBIC METER (1 ATM, 25 C)
- SQ FT = SQUARE FEET
- SU = STANDARD UNITS (PH)
- UG = MICROGRAMS (1 X 10-6 GRAMS)
- UMHOS = MICROMHOS/CM (CONDUCTIVITY UNITS)
- U/CC2 = MICROGRAMS PER 100 SQUARE CENTIMETERS
- U/CM2 = MICROGRAMS PER SQUARE CENTIMETER
- 1000G = 1000 GALLONS
- +/- = POSITIVE/NEGATIVE
- # = NUMBER

DATA QUALIFIERS = SPECIFIC CODES USED IN CONJUNCTION WITH DATA VALUES TO PROVIDE ADDITIONAL INFORMATION ON THE REPORTED RESULTS, OR USED TO EXPLAIN THE ABSENCE OF A SPCIFIC VALUE:
- BLANK = IF FIELD IS BLANK, NO REMARKS OR QUALIFIERS ARE PERTINENT. FOR FINAL REPORTED DATA, THIS MEANS THAT THE VALUES HAVE BEEN REVIEWED AND FOUND TO BE ACCEPTABLE FOR USE.
- I = INVALID SAMPLE/DATA - VALUE NOT REPORTED
- J = DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
- K = ACTUAL VALUE OF SAMPLE IS < VALUE REPORTED
- L = ACTUAL VALUE OF SAMPLE IS > VALUE REPORTED
- M = DETECTED BUT BELOW THE LEVEL OF REPORTED VALUE FOR ACCURATE QUANTIFICATION
- O = PARAMETER NOT ANALYZED
- U = ACTUAL VALUE OF SAMPLE IS < THE MEASUREMENT DETECTION LIMIT (REPORTED VALUE)

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 001 | | 001D | | 002 | | 003 | | 004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WM01 SILVER BY ICAP | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WM02 ALUMINUM, TOTAL, BY ICAP | UG/L | 420 | | 420 | | 230 | | 1200 | | 13000 | |
| WM03 ARSENIC, TOTAL, BY ICAP | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WM04 BARIUM, TOTAL, BY ICAP | UG/L | 200 | U | 200 | U | 200 | U | 200 | U | 200 | U |
| WM05 BERYLLIUM, TOTAL, BY ICAP | UG/L | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| WM06 CADMIUM, TOTAL, BY ICAP | UG/L | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| WM07 COBALT, TOTAL, BY ICAP | UG/L | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| WM08 CHROMIUM, TOTAL, BY ICAP | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 12 | |
| WM09 COPPER, TOTAL, BY ICAP | UG/L | 25 | U | 25 | U | 25 | U | 25 | U | 25 | U |
| WM10 IRON, TOTAL, BY ICAP | UG/L | 1200 | | 1200 | | 370 | | 250 | | 2600 | |
| WM11 MANGANESE, TOTAL, BY ICAP | UG/L | 430 | | 430 | | 250 | | 60 | | 500 | |
| WM12 MOLYBDENUM BY ICAP | UG/L | N/A | O | N/A | O | N/A | O | N/A | O | N/A | O |
| WM13 NICKEL BY ICAP | UG/L | 40 | U | 40 | U | 40 | U | 40 | U | 40 | U |
| WM14 LEAD, TOTAL, BY ICAP | UG/L | 4.8 | U | 5.2 | U | 3.0 | U | 3.0 | U | 6.9 | U |
| WM15 ANTIMONY, TOTAL, BY ICAP | UG/L | 60 | U | 60 | U | 60 | U | 60 | U | 60 | U |
| WM16 SELENIUM BY ICAP | UG/L | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| WM17 TITANIUM BY ICAP | UG/L | N/A | O | N/A | O | N/A | O | N/A | O | N/A | O |
| WM18 THALLIUM BY ICAP | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WM19 VANADIUM BY ICAP | UG/L | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| WM20 ZINC BY ICAP | UG/L | 32 | | 33 | | 20 | U | 29 | | 41 | |
| WM21 CALCIUM, TOTAL BY ICAP | MG/L | 53 | | 53 | | 73 | | 60 | | 57 | |
| WM22 MAGNESIUM, TOTAL BY ICAP | MG/L | 15 | | 15 | | 32 | | 23 | | 22 | |
| WM23 SODIUM, TOTAL BY ICAP | MG/L | 41 | | 40 | | 20 | | 19 | | 16 | |
| WM24 POTASSIUM, TOTAL BY ICAP | MG/L | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| WM34 MERCURY BY COLD VAPOR AA | UG/L | 0.20 | U | 0.20 | U | 0.20 | U | 0.20 | U | 0.20 | U |
| WP17 PCB-1016 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 001 | | 001D | | 002 | | 003 | | 004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WP18 PCB-1221 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| WP19 PCB-1232 | UG/L | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| WP20 PCB-1242 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| WP21 PCB-1248 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| WP22 PCB-1254 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| WP23 PCB-1260 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| WS01 PHENOL | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS03 ETHER, BIS(2-CHLOROETHYL), BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS04 2-CHLOROPHENOL | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS05 1,3-DICHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS06 1,4-DICHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS07 BENZYL ALCOHOL | UG/L | N/A | O | N/A | O | N/A | O | N/A | O | N/A | O |
| WS08 1,2-DICHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS09 2-METHYLPHENOL (O-CRESOL) | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS10 ETHER, BIS(2-CHLOROISOPROPYL), BY GC/MS | UG/L | N/A | O | N/A | O | N/A | O | N/A | O | N/A | O |
| WS11 4-METHYLPHENOL (P-CRESOL) | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS12 N-NITROSO-DIPROPYLAMINE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS13 HEXACHLOROETHANE.BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS14 NITROBENZENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS15 ISOPHORONE.BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS16 2-NITROPHENOL | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS17 2,4-DIMETHYLPHENOL | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS18 BENZOIC ACID, BY GC/MS | UG/L | N/A | O | N/A | O | N/A | O | N/A | O | N/A | O |
| WS19 METHANE, BIS(2-CHLOROETHYOXY), BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS20 2,4-DICHLOROPHENOL | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS21 1,2,4-TRICHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 001 | | 001D | | 002 | | 003 | | 004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WS22 NAPHTHALENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS23 4-CHLOROANILINE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS24 HEXACHLOROBUTADIENE,BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS25 4-CHLORO-3-METHYLPHENOL | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS26 2-METHYLNAPHTHALENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS27 HEXACHLOROCYCLOPENTADIENE,BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS28 2,4,6-TRICHLOROPHENOL | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS29 2,4,5-TRICHLOROPHENOL | UG/L | 25 | U | 25 | U | 25 | U | 25 | U | 25 | U |
| WS30 2-CHLORONAPHTHALENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS31 2-NITROANILINE (ORTHO NITROANILINE) | UG/L | 25 | U | 25 | U | 25 | U | 25 | U | 25 | U |
| WS32 PHTHALATE, DIMETHYL, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS33 ACENAPHTHYLENE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS34 3-NITROANILINE | UG/L | 25 | U | 25 | U | 25 | U | 25 | U | 25 | U |
| WS35 ACENAPHTHENE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS36 2,4-DINITROPHENOL | UG/L | 25 | U | 25 | U | 25 | U | 25 | U | 25 | U |
| WS37 4-NITROPHENOL | UG/L | 25 | U | 25 | U | 25 | U | 25 | U | 25 | U |
| WS38 DIBENZOFURAN | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS39 2,4-DINITROTOLUENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS40 2,6-DINITROTOLUENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS41 PHTHALATE, DIETHYL, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS42 4-CHLOROPHENYL PHENYL ETHER | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS43 FLUORENE,BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS44 4-NITROANILINE | UG/L | 25 | U | 25 | U | 25 | U | 25 | U | 25 | U |
| WS45 4,6-DINITRO-2-METHYLPHENOL | UG/L | 25 | U | 25 | U | 25 | U | 25 | U | 25 | U |
| WS46 N-NITROSODIPHENYLAMINE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS47 4-BROMOPHENYL PHENYL ETHER | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 001 | | 001D | | 002 | | 003 | | 004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WS48 HEXACHLOROBENZENE.BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS49 PENTACHLOROPHENOL | UG/L | 25 | U | 25 | U | 25 | U | 25 | U | 25 | U |
| WS50 PHENANTHRENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS51 ANTHRACENE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS52 PHTHALATE, DI-N-BUTYL-, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS53 FLUORANTHENE.BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS54 PYRENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS55 PHTHALATE, BUTYL BENZYL | UG/L | 10 | U | 15 | | 10 | U | 10 | U | 10 | U |
| WS56 3,3'-DICHLOROBENZIDINE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS57 ANTHRACENE, BENZO(A), BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS58 PHTHALATE, BIS(2-ETHYLHEXYL), BY GC/MS | UG/L | 10 | U | 11 | U | 10 | U | 10 | U | 10 | U |
| WS59 CHRYSENE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS60 PHTHALATE, DI-N-OCTYL-, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS61 FLUORANTHENE, BENZO(B), BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS62 FLUORANTHENE, BENZSO(K), BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS63 PYRENE, BENZO(A), BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS64 INDENO(1,2,3-CD)PYRENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS65 ANTHRACENE, DIBENZO(A,H), BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS66 PERYLENE, BENZO(G,H,I), BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WS67 CARBAZOLE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV03 CHLOROMETHANE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV04 BROMOMETHANE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV05 VINYL CHLORIDE | UG/L | 10 | U | 10 | U | 240 | | 10 | | 10 | U |
| WV06 CHLOROETHANE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV07 METHYLENE CHLORIDE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV08 1,1-DICHLOROETHENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 001 | | 001D | | 002 | | 003 | | 004 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WV09 1,1-DICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV10 1,2-DICHLOROETHENE, TOTAL | UG/L | 10 | U | 10 | U | 1600 | | 86 | | 30 | |
| WV11 CHLOROFORM, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 44 | | 71 | |
| WV12 1,2-DICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV13 1,1,1-TRICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV14 CARBON TETRACHLORIDE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV15 BROMODICHLOROMETHANE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV16 1,2-DICHLOROPROPANE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV17 BENZENE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV19 TRICHLOROETHENE | UG/L | 10 | U | 10 | U | 190 | | 45 | | 12 | |
| WV20 DICHLOROPROPENE, CIS-1,3-, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV21 DIBROMOCHLOROMETHANE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV22 1,1,2-TRICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV24 BROMOFORM, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV25 TETRACHLOROETHENE | UG/L | 10 | U | 10 | U | 2800 | | 160 | | 35 | |
| WV26 TOLUENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV27 1,1,2,2-TETRACHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV28 CHLOROBENZENE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV29 ETHYL BENZENE,BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV30 ACETONE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV31 CARBON DISULFIDE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV32 2-BUTANONE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV33 VINYL ACETATE | UG/L | N/A | O | N/A | O | N/A | O | N/A | O | N/A | O |
| WV34 2-HEXANONE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV35 4-METHYL-2-PENTANONE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| WV36 STYRENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 001 | 001D | 002 | 003 | 004 |
|---|---|---|---|---|---|---|
| WV37 XYLENES, TOTAL | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U |
| WV40 TRANS-1,3-DICHLOROPROPENE | UG/L | 10 U | 10 U | 10 U | 10 U | 10 U |
| ZZ01 SAMPLE NUMBER | NA | 001 | 001 | 002 | 003 | 004 |
| ZZ02 ACTIVITY CODE | NA | ISXP8 | ISXP8 | ISXP8 | ISXP8 | ISXP8 |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 005 | 006F | 008F | 009F | 101 | |
|---|---|---|---|---|---|---|---|
| SM01 SILVER BY ICAP | MG/KG | | | | | 2.8 | U |
| SM02 ALUMINUM, TOTAL, BY ICAP | MG/KG | | | | | 8300 | |
| SM03 ARSENIC, TOTAL, BY ICAP | MG/KG | | | | | 2.8 | U |
| SM04 BARIUM, TOTAL, BY ICAP | MG/KG | | | | | 72 | |
| SM05 BERYLLIUM, TOTAL, BY ICAP | MG/KG | | | | | 1.4 | U |
| SM06 CADMIUM, TOTAL, BY ICAP | MG/KG | | | | | 1.4 | U |
| SM07 COBALT, TOTAL, BY ICAP | MG/KG | | | | | 14 | U |
| SM08 CHROMIUM, TOTAL, BY ICAP | MG/KG | | | | | 18 | J |
| SM09 COPPER, TOTAL, BY ICAP | MG/KG | | | | | 53 | J |
| SM10 IRON, TOTAL, BY ICAP | MG/KG | | | | | 13000 | J |
| SM11 MANGANESE, TOTAL BY ICAP | MG/KG | | | | | 260 | |
| SM12 MOLYBDENUM BY ICAP | MG/KG | | | | | N/A | O |
| SM13 NICKEL BY ICAP | MG/KG | | | | | 18 | |
| SM14 LEAD, TOTAL, BY ICAP | MG/KG | | | | | 39 | |
| SM15 ANTIMONY, TOTAL, BY ICAP | MG/KG | | | | | N/A | O |
| SM16 SELENIUM BY ICAP | MG/KG | | | | | 1.4 | U |
| SM17 TITANIUM BY ICAP | MG/KG | | | | | N/A | O |
| SM18 THALLIUM BY ICAP | MG/KG | | | | | 2.8 | U |
| SM19 VANADIUM BY ICAP | MG/KG | | | | | 21 | |
| SM20 ZINC BY ICAP | MG/KG | | | | | 140 | |
| SM21 CALCIUM, TOTAL, BY ICAP | MG/KG | | | | | 36000 | |
| SM22 MAGNESIUM, TOTAL, BY ICAP | MG/KG | | | | | 13000 | |
| SM23 SODIUM BY ICAP | MG/KG | | | | | 1400 | U |
| SM24 POTASSIUM BY ICAP | MG/KG | | | | | 1400 | U |
| SM34 MERCURY BY COLD VAPOR AA | MG/KG | | | | | 0.14 | U |
| SP17 PCB-1016 | UG/KG | | | | | 51 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 005 | 006F | 008F | 009F | 101 | |
|---|---|---|---|---|---|---|---|
| SP18 PCB-1221 | UG/KG | | | | | 51 | U |
| SP19 PCB-1232 | UG/KG | | | | | 100 | U |
| SP20 PCB-1242 | UG/KG | | | | | 51 | U |
| SP21 PCB-1248 | UG/KG | | | | | 940 | J |
| SP22 PCB-1254 | UG/KG | | | | | 51 | U |
| SP23 PCB-1260 | UG/KG | | | | | 51 | U |
| SS01 PHENOL | UG/KG | | | | | 5100 | U |
| SS02 CARBAZOLE | UG/KG | | | | | 5500 | |
| SS03 ETHER, BIS(2-CHLOROETHYL), BY GC/MS | UG/KG | | | | | 5100 | U |
| SS04 2-CHLOROPHENOL | UG/KG | | | | | 5100 | U |
| SS05 1,3-DICHLOROBENZENE | UG/KG | | | | | 5100 | U |
| SS06 1,4-DICHLOROBENZENE | UG/KG | | | | | 5100 | U |
| SS07 BENZYL ALCOHOL | UG/KG | | | | | N/A | O |
| SS08 1,2-DICHLOROBENZENE | UG/KG | | | | | 5100 | U |
| SS09 2-METHYLPHENOL (O-CRESOL) | UG/KG | | | | | 5100 | U |
| SS10 WTHER, BIS(2-CHLOROISOPROPYL), BY GC/MS | UG/KG | | | | | N/A | O |
| SS11 4-METHYLPHENOL (P-CRESOL) | UG/KG | | | | | 5100 | U |
| SS12 N-NITROSO-DIPROPYLAMINE | UG/KG | | | | | 5100 | U |
| SS13 HEXACHLOROETHANE,BY GC/MS | UG/KG | | | | | 5100 | U |
| SS14 NITROBENZENE | UG/KG | | | | | 5100 | U |
| SS15 ISOPHORONE, BY GC/MS | UG/KG | | | | | 5100 | U |
| SS16 2-NITROPHENOL | UG/KG | | | | | 5100 | U |
| SS17 2,4-DIMETHYLPHENOL | UG/KG | | | | | 5100 | U |
| SS18 BENZOIC ACID, BY GC/MS | UG/KG | | | | | N/A | O |
| SS19 METHANE, BIS(2-CHLOROETHYOXY), BY GC/MS | UG/KG | | | | | 5100 | U |
| SS20 2,4-DICHLOROPHENOL | UG/KG | | | | | 5100 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 005 | 006F | 008F | 009F | 101 | |
|---|---|---|---|---|---|---|---|
| SS21 1,2,4-TRICHLOROBENZENE | UG/KG | | | | | 5100 | U |
| SS22 NAPHTHALENE | UG/KG | | | | | 5100 | U |
| SS23 4-CHLOROANILINE | UG/KG | | | | | 5100 | U |
| SS24 HEXACHLOROBUTADIENE,BY GC/MS | UG/KG | | | | | 5100 | U |
| SS25 4-CHLORO-3-METHYLPHENOL | UG/KG | | | | | 5100 | U |
| SS26 2-METHYLNAPHTHALENE | UG/KG | | | | | 5100 | U |
| SS27 HEXACHLOROCYCLOPENTADIENE,BY GC/MS | UG/KG | | | | | 5100 | U |
| SS28 2,4,6-TRICHLOROPHENOL | UG/KG | | | | | 5100 | U |
| SS29 2,4,5-TRICHLOROPHENOL | UG/KG | | | | | 12000 | U |
| SS30 2-CHLORONAPHTHALENE | UG/KG | | | | | 5100 | U |
| SS31 2-NITROANILINE | UG/KG | | | | | 12000 | U |
| SS32 PHTHALATE, DIMETHYL, BY GC/MS | UG/KG | | | | | 5100 | U |
| SS33 ACENAPHTHYLENE, BY GC/MS | UG/KG | | | | | 5100 | U |
| SS34 3-NITROANILINE | UG/KG | | | | | 12000 | U |
| SS35 ACENAPHTHENE, BY GC/MS | UG/KG | | | | | 5100 | U |
| SS36 2,4-DINITROPHENOL | UG/KG | | | | | 12000 | U |
| SS37 4-NITROPHENOL | UG/KG | | | | | 12000 | U |
| SS38 DIBENZOFURAN | UG/KG | | | | | 5100 | U |
| SS39 2,4-DINITROTOLUENE | UG/KG | | | | | 5100 | U |
| SS40 2,6-DINITROTOLUENE | UG/KG | | | | | 5100 | U |
| SS41 PHTHALATE, DIETHYL, BY GC/MS | UG/KG | | | | | 5100 | U |
| SS42 4-CHLOROPHENYL PHENYL ETHER | UG/KG | | | | | 5100 | U |
| SS43 FLUORENE,GC/MS | UG/KG | | | | | 5100 | U |
| SS44 4-NITROANILINE | UG/KG | | | | | 12000 | U |
| SS45 4,6-DINITRO-2-METHYLPHENOL | UG/KG | | | | | 12000 | U |
| SS46 N-NITROSODIPHENYLAMINE | UG/KG | | | | | 5100 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 005 | 006F | 008F | 009F | 101 | |
|---|---|---|---|---|---|---|---|
| SS47 4-BROMOPHENYL PHENYL ETHER | UG/KG | | | | | 5100 | U |
| SS48 HEXACHLOROBENZENE,BY GC/MS | UG/KG | | | | | 5100 | U |
| SS49 PENTACHLOROPHENOL | UG/KG | | | | | 12000 | U |
| SS50 PHENANTHRENE | UG/KG | | | | | 19000 | |
| SS51 ANTHRACENE, BY GC/MS | UG/KG | | | | | 5100 | U |
| SS52 PHTHALATE, DI-N-BUTYL-, BY GC/MS | UG/KG | | | | | 5100 | U |
| SS53 FLUORANTHENE,BY GC/MS | UG/KG | | | | | 28000 | |
| SS54 PYRENE | UG/KG | | | | | 26000 | |
| SS55 PHTHALATE, BUTYL BENZYL | UG/KG | | | | | 5100 | U |
| SS56 3,3'-DICHLOROBENZIDINE | UG/KG | | | | | 5100 | U |
| SS57 ANTRACENE, BENZO(A), BY GC/MS | UG/KG | | | | | 15000 | |
| SS58 PHTHALATE, BIS(2-ETHYLHEXYL), BY GC/MS | UG/KG | | | | | 5100 | U |
| SS59 CHRYSENE, BY GC/MS | UG/KG | | | | | 19000 | |
| SS60 PHTHALATE, DI-N-OCTYL-, BY GC/MS | UG/KG | | | | | 5100 | U |
| SS61 FLUORANTHENE, BENZO(B), BY GC/MS | UG/KG | | | | | 18000 | |
| SS62 FLUORANTHENE, BENZO(K), BY GC/MS | UG/KG | | | | | 5100 | U |
| SS63 PYRENE, BENZO(A), BY GC/MS | UG/KG | | | | | 13000 | |
| SS64 INDENO(1,2,3-CD)PYRENE | UG/KG | | | | | 5400 | |
| SS65 ANTHRACENE, DIBENZO(A,H), BY GC/MS | UG/KG | | | | | 5100 | U |
| SS66 PERYLENE, BENZO(G,H,I), BY GC/MS | UG/KG | | | | | 5100 | U |
| SV03 CHLOROMETHANE, BY GC/MS | UG/KG | | | | | 15 | U |
| SV04 BROMOMETHANE, BY GC/MS | UG/KG | | | | | 15 | U |
| SV05 VINYL CHLORIDE | UG/KG | | | | | 880 | |
| SV06 CHLOROETHANE, BY GC/MS | UG/KG | | | | | 15 | U |
| SV07 METHYLENE CHLORIDE | UG/KG | | | | | 15 | U |
| SV08 1,1-DICHLOROETHYLENE | UG/KG | | | | | 15 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 005 | 006F | 008F | 009F | 101 | |
|---|---|---|---|---|---|---|---|
| SV09 1,1-DICHLOROETHANE | UG/KG | | | | | 15 | U |
| SV10 TRANS-1,2-DICHLOROETHYLENE | UG/KG | | | | | 15 | U |
| SV11 CHLOROFORM, BY GC/MS | UG/KG | | | | | 15 | U |
| SV12 1,2-DICHLOROETHANE | UG/KG | | | | | 15 | U |
| SV13 1,1,1-TRICHLOROETHANE | UG/KG | | | | | 15 | U |
| SV14 CARBON TETRACHLORIDE, BY GC/MS | UG/KG | | | | | 15 | U |
| SV15 BROMODICHLOROMETHANE, BY GC/MS | UG/KG | | | | | 15 | U |
| SV16 1,2-DICHLOROPROPANE | UG/KG | | | | | 15 | U |
| SV17 BENZENE, BY GC/MS | UG/KG | | | | | 15 | U |
| SV18 TRANS-1,3-DICHLOROPROPENE | UG/KG | | | | | 15 | U |
| SV19 TRICHLOROETHYLENE | UG/KG | | | | | 15 | U |
| SV20 DICHLOROPROPENE, CIS-1,3-, BY GC/MS | UG/KG | | | | | 15 | U |
| SV21 DIBROMOCHLOROMETHANE, BY GC/MS | UG/KG | | | | | 15 | U |
| SV22 1,1,2-TRICHLOROETHANE | UG/KG | | | | | 15 | U |
| SV24 BROMOFORM, BY GC/MS | UG/KG | | | | | 15 | U |
| SV25 1,1,2,2-TETRACHLOROETHENE | UG/KG | | | | | 15 | U |
| SV26 TOLUENE | UG/KG | | | | | 15 | U |
| SV27 1,1,2,2-TETRACHLOROETHANE | UG/KG | | | | | 15 | U |
| SV28 CHLOROBENZENE, BY GC/MS | UG/KG | | | | | 15 | U |
| SV29 ETHYL BENZENE,BY GC/MS | UG/KG | | | | | 15 | U |
| SV30 ACETONE, BY GC/MS | UG/KG | | | | | 17 | U |
| SV31 CARBON DISULFIDE, BY GC/MS | UG/KG | | | | | 15 | U |
| SV32 2-BUTANONE | UG/KG | | | | | 15 | U |
| SV33 VINYL ACETATE | UG/KG | | | | | N/A | O |
| SV34 2-HEXANONE | UG/KG | | | | | 15 | U |
| SV35 4-METHYL-2-PENTANONE | UG/KG | | | | | 15 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 005 | | 006F | | 008F | | 009F | | 101 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SV36 STYRENE | UG/KG | | | | | | | | | 15 | U |
| SV37 XYLENES, TOTAL | UG/KG | | | | | | | | | 15 | U |
| WM01 SILVER BY ICAP | UG/L | 10 | U | | | 10 | U | | | | |
| WM02 ALUMINUM, TOTAL, BY ICAP | UG/L | 370 | | | | 200 | U | | | | |
| WM03 ARSENIC, TOTAL, BY ICAP | UG/L | 10 | U | | | 10 | U | | | | |
| WM04 BARIUM, TOTAL, BY ICAP | UG/L | 200 | U | | | 200 | U | | | | |
| WM05 BERYLLIUM, TOTAL, BY ICAP | UG/L | 5.0 | U | | | 5.0 | U | | | | |
| WM06 CADMIUM, TOTAL, BY ICAP | UG/L | 5.0 | U | | | 5.0 | U | | | | |
| WM07 COBALT, TOTAL, BY ICAP | UG/L | 50 | U | | | 50 | U | | | | |
| WM08 CHROMIUM, TOTAL, BY ICAP | UG/L | 10 | U | | | 10 | U | | | | |
| WM09 COPPER, TOTAL, BY ICAP | UG/L | 25 | U | | | 25 | U | | | | |
| WM10 IRON, TOTAL, BY ICAP | UG/L | 320 | | | | 100 | U | | | | |
| WM11 MANGANESE, TOTAL, BY ICAP | UG/L | 400 | | | | 15 | U | | | | |
| WM12 MOLYBDENUM BY ICAP | UG/L | N/A | O | | | N/A | O | | | | |
| WM13 NICKEL BY ICAP | UG/L | 40 | U | | | 40 | U | | | | |
| WM14 LEAD, TOTAL, BY ICAP | UG/L | 15 | U | | | 3.0 | U | | | | |
| WM15 ANTIMONY, TOTAL, BY ICAP | UG/L | 60 | U | | | 60 | U | | | | |
| WM16 SELENIUM BY ICAP | UG/L | 5.0 | U | | | 5.0 | U | | | | |
| WM17 TITANIUM BY ICAP | UG/L | N/A | O | | | N/A | O | | | | |
| WM18 THALLIUM BY ICAP | UG/L | 10 | U | | | 10 | U | | | | |
| WM19 VANADIUM BY ICAP | UG/L | 50 | U | | | 50 | U | | | | |
| WM20 ZINC BY ICAP | UG/L | 20 | U | | | 20 | U | | | | |
| WM21 CALCIUM, TOTAL BY ICAP | MG/L | 120 | | | | 5.0 | U | | | | |
| WM22 MAGNESIUM, TOTAL BY ICAP | MG/L | 48 | | | | 5.0 | U | | | | |
| WM23 SODIUM, TOTAL BY ICAP | MG/L | 820 | | | | 5.0 | U | | | | |
| WM24 POTASSIUM, TOTAL BY ICAP | MG/L | 7.1 | | | | 5.0 | U | | | | |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 005 | | 006F | | 008F | | 009F | | 101 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WM34 MERCURY BY COLD VAPOR AA | UG/L | 0.20 | U | | | 0.59 | | | | | |
| WP17 PCB-1016 | UG/L | 1.0 | U | | | 1.0 | U | | | | |
| WP18 PCB-1221 | UG/L | 1.0 | U | | | 1.0 | U | | | | |
| WP19 PCB-1232 | UG/L | 2.0 | U | | | 2.0 | U | | | | |
| WP20 PCB-1242 | UG/L | 1.0 | U | | | 1.0 | U | | | | |
| WP21 PCB-1248 | UG/L | 1.0 | U | | | 1.0 | U | | | | |
| WP22 PCB-1254 | UG/L | 1.0 | U | | | 1.0 | U | | | | |
| WP23 PCB-1260 | UG/L | 1.0 | U | | | 1.0 | U | | | | |
| WS01 PHENOL | UG/L | 10 | U | | | 10 | U | | | | |
| WS03 ETHER, BIS(2-CHLOROETHYL), BY GC/MS | UG/L | 10 | U | | | 10 | U | | | | |
| WS04 2-CHLOROPHENOL | UG/L | 10 | U | | | 10 | U | | | | |
| WS05 1,3-DICHLOROBENZENE | UG/L | 10 | U | | | 10 | U | | | | |
| WS06 1,4-DICHLOROBENZENE | UG/L | 10 | U | | | 10 | U | | | | |
| WS07 BENZYL ALCOHOL | UG/L | N/A | O | | | N/A | O | | | | |
| WS08 1,2-DICHLOROBENZENE | UG/L | 10 | U | | | 10 | U | | | | |
| WS09 2-METHYLPHENOL (O-CRESOL) | UG/L | 10 | U | | | 10 | U | | | | |
| WS10 ETHER, BIS(2-CHLOROISOPROPYL), BY GC/MS | UG/L | N/A | O | | | N/A | O | | | | |
| WS11 4-METHYLPHENOL (P-CRESOL) | UG/L | 10 | U | | | 10 | U | | | | |
| WS12 N-NITROSO-DIPROPYLAMINE | UG/L | 10 | U | | | 10 | U | | | | |
| WS13 HEXACHLOROETHANE, BY GC/MS | UG/L | 10 | U | | | 10 | U | | | | |
| WS14 NITROBENZENE | UG/L | 10 | U | | | 10 | U | | | | |
| WS15 ISOPHORONE, BY GC/MS | UG/L | 10 | U | | | 10 | U | | | | |
| WS16 2-NITROPHENOL | UG/L | 10 | U | | | 10 | U | | | | |
| WS17 2,4-DIMETHYLPHENOL | UG/L | 10 | U | | | 10 | U | | | | |
| WS18 BENZOIC ACID, BY GC/MS | UG/L | N/A | O | | | N/A | O | | | | |
| WS19 METHANE, BIS(2-CHLOROETHYOXY), BY GC/MS | UG/L | 10 | U | | | 10 | U | | | | |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 005 | | 006F | | 008F | | 009F | 101 |
|---|---|---|---|---|---|---|---|---|---|
| WS20 2,4-DICHLOROPHENOL | UG/L | 10 | U | | | 10 | U | | |
| WS21 1,2,4-TRICHLOROBENZENE | UG/L | 10 | U | | | 10 | U | | |
| WS22 NAPHTHALENE | UG/L | 10 | U | | | 10 | U | | |
| WS23 4-CHLOROANILINE | UG/L | 10 | U | | | 10 | U | | |
| WS24 HEXACHLOROBUTADIENE,BY GC/MS | UG/L | 10 | U | | | 10 | U | | |
| WS25 4-CHLORO-3-METHYLPHENOL | UG/L | 10 | U | | | 10 | U | | |
| WS26 2-METHYLNAPHTHALENE | UG/L | 10 | U | | | 10 | U | | |
| WS27 HEXACHLOROCYCLOPENTADIENE,BY GC/MS | UG/L | 10 | U | | | 10 | U | | |
| WS28 2,4,6-TRICHLOROPHENOL | UG/L | 10 | U | | | 10 | U | | |
| WS29 2,4,5-TRICHLOROPHENOL | UG/L | 25 | U | | | 25 | U | | |
| WS30 2-CHLORONAPHTHALENE | UG/L | 10 | U | | | 10 | U | | |
| WS31 2-NITROANILINE (ORTHO NITROANILINE) | UG/L | 25 | U | | | 25 | U | | |
| WS32 PHTHALATE, DIMETHYL, BY GC/MS | UG/L | 10 | U | | | 10 | U | | |
| WS33 ACENAPHTHYLENE, BY GC/MS | UG/L | 10 | U | | | 10 | U | | |
| WS34 3-NITROANILINE | UG/L | 25 | U | | | 25 | U | | |
| WS35 ACENAPHTHENE, BY GC/MS | UG/L | 10 | U | | | 10 | U | | |
| WS36 2,4-DINITROPHENOL | UG/L | 25 | U | | | 25 | U | | |
| WS37 4-NITROPHENOL | UG/L | 25 | U | | | 25 | U | | |
| WS38 DIBENZOFURAN | UG/L | 10 | U | | | 10 | U | | |
| WS39 2,4-DINITROTOLUENE | UG/L | 10 | U | | | 10 | U | | |
| WS40 2,6-DINITROTOLUENE | UG/L | 10 | U | | | 10 | U | | |
| WS41 PHTHALATE, DIETHYL, BY GC/MS | UG/L | 10 | U | | | 10 | U | | |
| WS42 4-CHLOROPHENYL PHENYL ETHER | UG/L | 10 | U | | | 10 | U | | |
| WS43 FLUORENE,BY GC/MS | UG/L | 10 | U | | | 10 | U | | |
| WS44 4-NITROANILINE | UG/L | 25 | U | | | 25 | U | | |
| WS45 4,6-DINITRO-2-METHYLPHENOL | UG/L | 25 | U | | | 25 | U | | |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 005 | | 006F | | 008F | | 009F | | 101 |
|---|---|---|---|---|---|---|---|---|---|---|
| WS46 N-NITROSODIPHENYLAMINE | UG/L | 10 | U | | | 10 | U | | | |
| WS47 4-BROMOPHENYL PHENYL ETHER | UG/L | 10 | U | | | 10 | U | | | |
| WS48 HEXACHLOROBENZENE,BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS49 PENTACHLOROPHENOL | UG/L | 25 | U | | | 25 | U | | | |
| WS50 PHENANTHRENE | UG/L | 10 | U | | | 10 | U | | | |
| WS51 ANTHRACENE, BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS52 PHTHALATE, DI-N-BUTYL-, BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS53 FLUORANTHENE,BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS54 PYRENE | UG/L | 10 | U | | | 10 | U | | | |
| WS55 PHTHALATE, BUTYL BENZYL | UG/L | 10 | U | | | 10 | U | | | |
| WS56 3,3'-DICHLOROBENZIDINE | UG/L | 10 | U | | | 10 | U | | | |
| WS57 ANTHRACENE, BENZO(A), BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS58 PHTHALATE, BIS(2-ETHYLHEXYL), BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS59 CHRYSENE, BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS60 PHTHALATE, DI-N-OCTYL-, BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS61 FLUORANTHENE, BENZO(B), BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS62 FLUORANTHENE, BENZSO(K), BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS63 PYRENE, BENZO(A), BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS64 INDENO(1,2,3-CD)PYRENE | UG/L | 10 | U | | | 10 | U | | | |
| WS65 ANTHRACENE, DIBENZO(A,H), BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS66 PERYLENE, BENZO(G,H,I), BY GC/MS | UG/L | 10 | U | | | 10 | U | | | |
| WS67 CARBAZOLE | UG/L | 10 | U | | | 10 | U | | | |
| WV03 CHLOROMETHANE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV04 BROMOMETHANE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV05 VINYL CHLORIDE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV06 CHLOROETHANE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA SUBJECT TO REVISION

| COMPOUND | UNITS | 005 | | 006F | | 008F | | 009F | | 101 |
|---|---|---|---|---|---|---|---|---|---|---|
| WV07 METHYLENE CHLORIDE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV08 1,1-DICHLOROETHENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV09 1,1-DICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV10 1,2-DICHLOROETHENE, TOTAL | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV11 CHLOROFORM, BY GC/MS | UG/L | 16 | | 10 | U | 10 | U | 10 | U | |
| WV12 1,2-DICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV13 1,1,1-TRICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV14 CARBON TETRACHLORIDE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV15 BROMODICHLOROMETHANE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV16 1,2-DICHLOROPROPANE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV17 BENZENE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV19 TRICHLOROETHENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV20 DICHLOROPROPENE, CIS-1,3-, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV21 DIBROMOCHLOROMETHANE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV22 1,1,2-TRICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV24 BROMOFORM, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV25 TETRACHLOROETHENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV26 TOLUENE | UG/L | 10 | U | 10 | U | 16 | | 10 | U | |
| WV27 1,1,2,2-TETRACHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV28 CHLOROBENZENE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV29 ETHYL BENZENE,BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV30 ACETONE, BY GC/MS | UG/L | 10 | U | 31 | U | 10 | U | 38 | U | |
| WV31 CARBON DISULFIDE, BY GC/MS | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV32 2-BUTANONE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV33 VINYL ACETATE | UG/L | N/A | O | N/A | O | N/A | O | N/A | O | |
| WV34 2-HEXANONE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 005 | | 006F | | 008F | | 009F | | 101 |
|---|---|---|---|---|---|---|---|---|---|---|
| WV35 4-METHYL-2-PENTANONE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV36 STYRENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV37 XYLENES, TOTAL | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| WV40 TRANS-1,3-DICHLOROPROPENE | UG/L | 10 | U | 10 | U | 10 | U | 10 | U | |
| ZZ01 SAMPLE NUMBER | NA | 005 | | 006 | | 008 | | 009 | | 101 |
| ZZ02 ACTIVITY CODE | NA | ISXP8 | | ISXP8 | | ISXP8 | | ISXP8 | | ISXP8 |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 102 | | 103 | | 103D | | 104 | | 105 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SM01 SILVER BY ICAP | MG/KG | 3.7 | U | 3.6 | U | 3.4 | U | 3.3 | U | 3.2 | U |
| SM02 ALUMINUM, TOTAL, BY ICAP | MG/KG | 23000 | | 11000 | | 11000 | | 21000 | | 12000 | |
| SM03 ARSENIC, TOTAL, BY ICAP | MG/KG | 4.6 | | 3.6 | | 3.6 | | 9.6 | | 3.4 | |
| SM04 BARIUM, TOTAL, BY ICAP | MG/KG | 130 | | 96 | | 110 | | 100 | | 64 | U |
| SM05 BERYLLIUM, TOTAL, BY ICAP | MG/KG | 1.9 | U | 1.8 | U | 1.7 | U | 1.7 | U | 1.6 | U |
| SM06 CADMIUM, TOTAL, BY ICAP | MG/KG | 1.9 | U | 1.8 | U | 1.7 | U | 1.7 | U | 1.6 | U |
| SM07 COBALT, TOTAL, BY ICAP | MG/KG | 19 | U | 18 | U | 1.7 | U | 17 | U | 16 | U |
| SM08 CHROMIUM, TOTAL, BY ICAP | MG/KG | 40 | J | 20 | J | 21 | J | 28 | J | 16 | J |
| SM09 COPPER, TOTAL, BY ICAP | MG/KG | 160 | J | 68 | J | 71 | J | 200 | J | 47 | J |
| SM10 IRON, TOTAL, BY ICAP | MG/KG | 19000 | J | 13000 | J | 14000 | J | 29000 | J | 10000 | J |
| SM11 MANGANESE, TOTAL BY ICAP | MG/KG | 530 | | 270 | | 340 | | 530 | | 190 | |
| SM12 MOLYBDENUM BY ICAP | MG/KG | N/A | O | N/A | O | N/A | O | N/A | O | N/A | O |
| SM13 NICKEL BY ICAP | MG/KG | 24 | | 16 | | 14 | | 22 | | 15 | |
| SM14 LEAD, TOTAL, BY ICAP | MG/KG | 68 | | 19 | | 21 | | 35 | | 18 | |
| SM15 ANTIMONY, TOTAL, BY ICAP | MG/KG | N/A | O | N/A | O | N/A | I | N/A | I | N/A | O |
| SM16 SELENIUM BY ICAP | MG/KG | 1.9 | U | 1.8 | U | 1.7 | U | 1.7 | U | 1.6 | U |
| SM17 TITANIUM BY ICAP | MG/KG | N/A | O | N/A | O | N/A | O | N/A | O | N/A | O |
| SM18 THALLIUM BY ICAP | MG/KG | 3.7 | U | 3.6 | U | 34.3 | | 3.3 | U | 3.2 | U |
| SM19 VANADIUM BY ICAP | MG/KG | 31 | | 23 | | 22 | | 37 | | 17 | |
| SM20 ZINC BY ICAP | MG/KG | 240 | | 69 | | 76 | | 110 | | 81 | |
| SM21 CALCIUM, TOTAL, BY ICAP | MG/KG | 35000 | | 14000 | | 19000 | | 16000 | | 6600 | |
| SM22 MAGNESIUM, TOTAL, BY ICAP | MG/KG | 13000 | | 3900 | | 4600 | | 6800 | | 2800 | |
| SM23 SODIUM BY ICAP | MG/KG | 1900 | U | 1800 | U | 1700 | U | 1700 | U | 1600 | U |
| SM24 POTASSIUM BY ICAP | MG/KG | 1900 | U | 1800 | U | 1700 | U | 1700 | U | 1600 | U |
| SM34 MERCURY BY COLD VAPOR AA | MG/KG | 0.19 | U | 0.18 | U | 0.17 | U | 0.17 | U | 0.16 | U |
| SP17 PCB-1016 | UG/KG | 660 | U | 720 | U | 620 | U | 580 | U | 53 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 102 | | 103 | | 103D | | 104 | | 105 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SP18 PCB-1221 | UG/KG | 660 | U | 720 | U | 620 | U | 580 | U | 53 | U |
| SP19 PCB-1232 | UG/KG | 1300 | U | 1500 | U | 1300 | U | 1200 | U | 110 | U |
| SP20 PCB-1242 | UG/KG | 660 | U | 720 | U | 620 | U | 580 | U | 53 | U |
| SP21 PCB-1248 | UG/KG | 24000 | J | 17000 | | 19000 | | 15000 | J | 3700 | J |
| SP22 PCB-1254 | UG/KG | 660 | U | 720 | U | 620 | U | 580 | U | 53 | U |
| SP23 PCB-1260 | UG/KG | 660 | U | 720 | U | 620 | U | 580 | U | 53 | U |
| SS01 PHENOL | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS02 CARBAZOLE | UG/KG | 20000 | U | 1100 | J | 890 | J | 1100 | J | 11000 | |
| SS03 ETHER, BIS(2-CHLOROETHYL), BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS04 2-CHLOROPHENOL | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS05 1,3-DICHLOROBENZENE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS06 1,4-DICHLOROBENZENE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS07 BENZYL ALCOHOL | UG/KG | N/A | O | N/A | O | N/A | O | N/A | O | N/A | O |
| SS08 1,2-DICHLOROBENZENE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS09 2-METHYLPHENOL (O-CRESOL) | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS10 WTHER, BIS(2-CHLOROISOPROPYL), BY GC/MS | UG/KG | N/A | O | N/A | O | N/A | O | N/A | O | N/A | O |
| SS11 4-METHYLPHENOL (P-CRESOL) | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS12 N-NITROSO-DIPROPYLAMINE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS13 HEXACHLOROETHANE,BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS14 NITROBENZENE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS15 ISOPHORONE, BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS16 2-NITROPHENOL | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS17 2,4-DIMETHYLPHENOL | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS18 BENZOIC ACID, BY GC/MS | UG/KG | N/A | O | N/A | O | N/A | O | N/A | O | N/A | O |
| SS19 METHANE, BIS(2-CHLOROETHYOXY), BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS20 2,4-DICHLOROPHENOL | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 102 | | 103 | | 103D | | 104 | | 105 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SS21 1,2,4-TRICHLOROBENZENE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS22 NAPHTHALENE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS23 4-CHLOROANILINE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS24 HEXACHLOROBUTADIENE,BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS25 4-CHLORO-3-METHYLPHENOL | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS26 2-METHYLNAPHTHALENE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS27 HEXACHLOROCYCLOPENTADIENE,BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS28 2,4,6-TRICHLOROPHENOL | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS29 2,4,5-TRICHLOROPHENOL | UG/KG | 50000 | U | 1700 | U | 1500 | U | 1400 | U | 13000 | U |
| SS30 2-CHLORONAPHTHALENE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS31 2-NITROANILINE | UG/KG | 50000 | U | 1700 | U | 1500 | U | 1400 | U | 13000 | U |
| SS32 PHTHALATE, DIMETHYL, BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS33 ACENAPHTHYLENE, BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS34 3-NITROANILINE | UG/KG | 50000 | U | 1700 | U | 1500 | U | 1400 | U | 13000 | U |
| SS35 ACENAPHTHENE, BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5400 | |
| SS36 2,4-DINITROPHENOL | UG/KG | 50000 | U | 1700 | U | 1500 | U | 1400 | U | 13000 | U |
| SS37 4-NITROPHENOL | UG/KG | 50000 | U | 1700 | U | 1500 | U | 1400 | U | 13000 | U |
| SS38 DIBENZOFURAN | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS39 2,4-DINITROTOLUENE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS40 2,6-DINITROTOLUENE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS41 PHTHALATE, DIETHYL, BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS42 4-CHLOROPHENYL PHENYL ETHER | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS43 FLUORENE,GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5700 | |
| SS44 4-NITROANILINE | UG/KG | 50000 | U | 1700 | U | 1500 | U | 1400 | U | 13000 | U |
| SS45 4,6-DINITRO-2-METHYLPHENOL | UG/KG | 50000 | U | 1700 | U | 1500 | U | 1400 | U | 13000 | U |
| SS46 N-NITROSODIPHENYLAMINE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 102 | | 103 | | 103D | | 104 | | 105 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SS47 4-BROMOPHENYL PHENYL ETHER | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS48 HEXACHLOROBENZENE,BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS49 PENTACHLOROPHENOL | UG/KG | 50000 | U | 1700 | U | 1500 | U | 1400 | U | 13000 | U |
| SS50 PHENANTHRENE | UG/KG | 62000 | | 3200 | J | 2400 | J | 3600 | J | 31000 | |
| SS51 ANTHRACENE, BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 610 | J | 7600 | |
| SS52 PHTHALATE, DI-N-BUTYL-, BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS53 FLUORANTHENE,BY GC/MS | UG/KG | 120000 | | 5300 | J | 5500 | | 5700 | J | 38000 | |
| SS54 PYRENE | UG/KG | 130000 | | 7100 | J | 6300 | J | 5400 | J | 40000 | |
| SS55 PHTHALATE, BUTYL BENZYL | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS56 3.3'-DICHLOROBENZIDINE | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS57 ANTRACENE, BENZO(A), BY GC/MS | UG/KG | 63000 | | 2700 | J | 3000 | J | 2700 | J | 25000 | |
| SS58 PHTHALATE, BIS(2-ETHYLHEXYL), BY GC/MS | UG/KG | 20000 | U | 1200 | J | 870 | U | 640 | U | 5300 | U |
| SS59 CHRYSENE, BY GC/MS | UG/KG | 63000 | | 2600 | J | 2700 | J | 2700 | J | 30000 | |
| SS60 PHTHALATE, DI-N-OCTYL-, BY GC/MS | UG/KG | 20000 | U | 720 | U | 620 | U | 580 | U | 5300 | U |
| SS61 FLUORANTHENE, BENZO(B), BY GC/MS | UG/KG | 84000 | J | 3900 | J | 4400 | J | 3400 | J | 27000 | |
| SS62 FLUORANTHENE, BENZO(K), BY GC/MS | UG/KG | 23000 | J | 1200 | J | 1300 | J | 1000 | J | 5300 | U |
| SS63 PYRENE, BENZO(A), BY GC/MS | UG/KG | 48000 | J | 2100 | J | 2000 | J | 1500 | J | 20000 | |
| SS64 INDENO(1,2,3-CD)PYRENE | UG/KG | 45000 | J | 3400 | J | 3900 | J | 2400 | J | 8200 | |
| SS65 ANTHRACENE, DIBENZO(A,H), BY GC/MS | UG/KG | 20000 | U | 720 | U | 750 | J | 580 | U | 5300 | U |
| SS66 PERYLENE, BENZO(G,H,I), BY GC/MS | UG/KG | 31000 | J | 2100 | J | 1400 | J | 580 | U | 5300 | U |
| SV03 CHLOROMETHANE, BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV04 BROMOMETHANE, BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV05 VINYL CHLORIDE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV06 CHLOROETHANE, BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV07 METHYLENE CHLORIDE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV08 1.1-DICHLOROETHYLENE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 102 | | 103 | | 103D | | 104 | | 105 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SV09 1,1-DICHLOROETHANE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV10 TRANS-1,2-DICHLOROETHYLENE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV11 CHLOROFORM, BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV12 1,2-DICHLOROETHANE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV13 1,1,1-TRICHLOROETHANE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV14 CARBON TETRACHLORIDE, BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV15 BROMODICHLOROMETHANE, BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV16 1,2-DICHLOROPROPANE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV17 BENZENE, BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV18 TRANS-1,3-DICHLOROPROPENE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV19 TRICHLOROETHYLENE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV20 DICHLOROPROPENE, CIS-1,3-, BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV21 DIBROMOCHLOROMETHANE, BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV22 1,1,2-TRICHLOROETHANE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV24 BROMOFORM, BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV25 1,1,2,2-TETRACHLOROETHENE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV26 TOLUENE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV27 1,1,2,2-TETRACHLOROETHANE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV28 CHLOROBENZENE, BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV29 ETHYL BENZENE,BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV30 ACETONE, BY GC/MS | UG/KG | 66 | U | 22 | U | 25 | U | 25 | U | 25 | U |
| SV31 CARBON DISULFIDE, BY GC/MS | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV32 2-BUTANONE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV33 VINYL ACETATE | UG/KG | N/A | O | N/A | O | N/A | O | N/A | O | N/A | O |
| SV34 2-HEXANONE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |
| SV35 4-METHYL-2-PENTANONE | UG/KG | 20 | U | 22 | U | 19 | U | 18 | U | 16 | U |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 102 | 103 | 103D | 104 | 105 |
|---|---|---|---|---|---|---|
| SV36 STYRENE | UG/KG | 20 U | 22 U | 19 U | 18 U | 16 U |
| SV37 XYLENES, TOTAL | UG/KG | 20 U | 22 U | 19 U | 18 U | 16 U |
| ZZ01 SAMPLE NUMBER | NA | 102 | 103 | 103 | 104 | 105 |
| ZZ02 ACTIVITY CODE | NA | ISXP8 | ISXP8 | ISXP8 | ISXP8 | ISXP8 |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 108F | | 109F | | | |
|---|---|---|---|---|---|---|---|
| SV03 CHLOROMETHANE, BY GC/MS | UG/KG | 10 | U | | | | |
| SV04 BROMOMETHANE, BY GC/MS | UG/KG | 10 | U | | | | |
| SV05 VINYL CHLORIDE | UG/KG | 10 | U | | | | |
| SV06 CHLOROETHANE, BY GC/MS | UG/KG | 10 | U | | | | |
| SV07 METHYLENE CHLORIDE | UG/KG | 10 | U | | | | |
| SV08 1,1-DICHLOROETHYLENE | UG/KG | 10 | U | | | | |
| SV09 1,1-DICHLOROETHANE | UG/KG | 10 | U | | | | |
| SV10 TRANS-1,2-DICHLOROETHYLENE | UG/KG | 10 | U | | | | |
| SV11 CHLOROFORM, BY GC/MS | UG/KG | 10 | U | | | | |
| SV12 1,2-DICHLOROETHANE | UG/KG | 10 | U | | | | |
| SV13 1,1,1-TRICHLOROETHANE | UG/KG | 10 | U | | | | |
| SV14 CARBON TETRACHLORIDE, BY GC/MS | UG/KG | 10 | U | | | | |
| SV15 BROMODICHLOROMETHANE, BY GC/MS | UG/KG | 10 | U | | | | |
| SV16 1,2-DICHLOROPROPANE | UG/KG | 10 | U | | | | |
| SV17 BENZENE, BY GC/MS | UG/KG | 10 | U | | | | |
| SV18 TRANS-1,3-DICHLOROPROPENE | UG/KG | 10 | U | | | | |
| SV19 TRICHLOROETHYLENE | UG/KG | 10 | U | | | | |
| SV20 DICHLOROPROPENE, CIS-1,3-, BY GC/MS | UG/KG | 10 | U | | | | |
| SV21 DIBROMOCHLOROMETHANE, BY GC/MS | UG/KG | 10 | U | | | | |
| SV22 1,1,2-TRICHLOROETHANE | UG/KG | 10 | U | | | | |
| SV24 BROMOFORM, BY GC/MS | UG/KG | 10 | U | | | | |
| SV25 1,1,2,2-TETRACHLOROETHENE | UG/KG | 10 | U | | | | |
| SV26 TOLUENE | UG/KG | 10 | U | | | | |
| SV27 1,1,2,2-TETRACHLOROETHANE | UG/KG | 10 | U | | | | |
| SV28 CHLOROBENZENE, BY GC/MS | UG/KG | 10 | U | | | | |
| SV29 ETHYL BENZENE,BY GC/MS | UG/KG | 10 | U | | | | |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 108F | | 109F | | | |
|---|---|---|---|---|---|---|---|
| SV30 ACETONE, BY GC/MS | UG/KG | 17 | | | | | |
| SV31 CARBON DISULFIDE, BY GC/MS | UG/KG | 10 | U | | | | |
| SV32 2-BUTANONE | UG/KG | 10 | U | | | | |
| SV33 VINYL ACETATE | UG/KG | N/A | O | | | | |
| SV34 2-HEXANONE | UG/KG | 10 | U | | | | |
| SV35 4-METHYL-2-PENTANONE | UG/KG | 10 | U | | | | |
| SV36 STYRENE | UG/KG | 10 | U | | | | |
| SV37 XYLENES, TOTAL | UG/KG | 10 | U | | | | |
| WM01 SILVER BY ICAP | UG/L | | | 10 | U | | |
| WM02 ALUMINUM, TOTAL, BY ICAP | UG/L | | | 200 | U | | |
| WM03 ARSENIC, TOTAL, BY ICAP | UG/L | | | 10 | U | | |
| WM04 BARIUM, TOTAL, BY ICAP | UG/L | | | 200 | U | | |
| WM05 BERYLLIUM, TOTAL, BY ICAP | UG/L | | | 5.0 | U | | |
| WM06 CADMIUM, TOTAL, BY ICAP | UG/L | | | 5.0 | U | | |
| WM07 COBALT, TOTAL, BY ICAP | UG/L | | | 50 | U | | |
| WM08 CHROMIUM, TOTAL, BY ICAP | UG/L | | | 10 | U | | |
| WM09 COPPER, TOTAL, BY ICAP | UG/L | | | 25 | U | | |
| WM10 IRON, TOTAL, BY ICAP | UG/L | | | 100 | U | | |
| WM11 MANGANESE, TOTAL, BY ICAP | UG/L | | | 15 | U | | |
| WM12 MOLYBDENUM BY ICAP | UG/L | | | N/A | O | | |
| WM13 NICKEL BY ICAP | UG/L | | | 40 | U | | |
| WM14 LEAD, TOTAL, BY ICAP | UG/L | | | 3.0 | U | | |
| WM15 ANTIMONY, TOTAL, BY ICAP | UG/L | | | 60 | U | | |
| WM16 SELENIUM BY ICAP | UG/L | | | 5.0 | U | | |
| WM17 TITANIUM BY ICAP | UG/L | | | N/A | O | | |
| WM18 THALLIUM BY ICAP | UG/L | | | 10 | U | | |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 108F | 109F | | | | |
|---|---|---|---|---|---|---|---|
| WM19 VANADIUM BY ICAP | UG/L | | 50 | U | | | |
| WM20 ZINC BY ICAP | UG/L | | 20 | U | | | |
| WM21 CALCIUM, TOTAL BY ICAP | MG/L | | 5.0 | U | | | |
| WM22 MAGNESIUM, TOTAL BY ICAP | MG/L | | 5.0 | U | | | |
| WM23 SODIUM, TOTAL BY ICAP | MG/L | | 5.0 | U | | | |
| WM24 POTASSIUM, TOTAL BY ICAP | MG/L | | 5.0 | U | | | |
| WM34 MERCURY BY COLD VAPOR AA | UG/L | | 0.20 | U | | | |
| WP17 PCB-1016 | UG/L | | 1.0 | U | | | |
| WP18 PCB-1221 | UG/L | | 1.0 | U | | | |
| WP19 PCB-1232 | UG/L | | 2.0 | U | | | |
| WP20 PCB-1242 | UG/L | | 1.0 | U | | | |
| WP21 PCB-1248 | UG/L | | 1.0 | U | | | |
| WP22 PCB-1254 | UG/L | | 1.0 | U | | | |
| WP23 PCB-1260 | UG/L | | 1.0 | U | | | |
| WS01 PHENOL | UG/L | | 10 | U | | | |
| WS03 ETHER, BIS(2-CHLOROETHYL), BY GC/MS | UG/L | | 10 | U | | | |
| WS04 2-CHLOROPHENOL | UG/L | | 10 | U | | | |
| WS05 1,3-DICHLOROBENZENE | UG/L | | 10 | U | | | |
| WS06 1,4-DICHLOROBENZENE | UG/L | | 10 | U | | | |
| WS07 BENZYL ALCOHOL | UG/L | | N/A | O | | | |
| WS08 1,2-DICHLOROBENZENE | UG/L | | 10 | U | | | |
| WS09 2-METHYLPHENOL (O-CRESOL) | UG/L | | 10 | U | | | |
| WS10 ETHER, BIS(2-CHLOROISOPROPYL), BY GC/MS | UG/L | | N/A | O | | | |
| WS11 4-METHYLPHENOL (P-CRESOL) | UG/L | | 10 | U | | | |
| WS12 N-NITROSO-DIPROPYLAMINE | UG/L | | 10 | U | | | |
| WS13 HEXACHLOROETHANE,BY GC/MS | UG/L | | 10 | U | | | |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 108F | 109F | | | | |
|---|---|---|---|---|---|---|---|
| WS14 NITROBENZENE | UG/L | | 10 | U | | | |
| WS15 ISOPHORONE,BY GC/MS | UG/L | | 10 | U | | | |
| WS16 2-NITROPHENOL | UG/L | | 10 | U | | | |
| WS17 2,4-DIMETHYLPHENOL | UG/L | | 10 | U | | | |
| WS18 BENZOIC ACID, BY GC/MS | UG/L | | N/A | O | | | |
| WS19 METHANE, BIS(2-CHLOROETHYOXY), BY GC/MS | UG/L | | 10 | U | | | |
| WS20 2,4-DICHLOROPHENOL | UG/L | | 10 | U | | | |
| WS21 1,2,4-TRICHLOROBENZENE | UG/L | | 10 | U | | | |
| WS22 NAPHTHALENE | UG/L | | 10 | U | | | |
| WS23 4-CHLOROANILINE | UG/L | | 10 | U | | | |
| WS24 HEXACHLOROBUTADIENE,BY GC/MS | UG/L | | 10 | U | | | |
| WS25 4-CHLORO-3-METHYLPHENOL | UG/L | | 10 | U | | | |
| WS26 2-METHYLNAPHTHALENE | UG/L | | 10 | U | | | |
| WS27 HEXACHLOROCYCLOPENTADIENE,BY GC/MS | UG/L | | 10 | U | | | |
| WS28 2,4,6-TRICHLOROPHENOL | UG/L | | 10 | U | | | |
| WS29 2,4,5-TRICHLOROPHENOL | UG/L | | 25 | U | | | |
| WS30 2-CHLORONAPHTHALENE | UG/L | | 10 | U | | | |
| WS31 2-NITROANILINE (ORTHO NITROANILINE) | UG/L | | 25 | U | | | |
| WS32 PHTHALATE, DIMETHYL, BY GC/MS | UG/L | | 10 | U | | | |
| WS33 ACENAPHTHYLENE, BY GC/MS | UG/L | | 10 | U | | | |
| WS34 3-NITROANILINE | UG/L | | 25 | U | | | |
| WS35 ACENAPHTHENE, BY GC/MS | UG/L | | 10 | U | | | |
| WS36 2,4-DINITROPHENOL | UG/L | | 25 | U | | | |
| WS37 4-NITROPHENOL | UG/L | | 25 | U | | | |
| WS38 DIBENZOFURAN | UG/L | | 10 | U | | | |
| WS39 2,4-DINITROTOLUENE | UG/L | | 10 | U | | | |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 108F | 109F | | | | |
|---|---|---|---|---|---|---|---|
| WS40 2,6-DINITROTOLUENE | UG/L | | 10 | U | | | |
| WS41 PHTHALATE, DIETHYL, BY GC/MS | UG/L | | 10 | U | | | |
| WS42 4-CHLOROPHENYL PHENYL ETHER | UG/L | | 10 | U | | | |
| WS43 FLUORENE,BY GC/MS | UG/L | | 10 | U | | | |
| WS44 4-NITROANILINE | UG/L | | 25 | U | | | |
| WS45 4,6-DINITRO-2-METHYLPHENOL | UG/L | | 25 | U | | | |
| WS46 N-NITROSODIPHENYLAMINE | UG/L | | 10 | U | | | |
| WS47 4-BROMOPHENYL PHENYL ETHER | UG/L | | 10 | U | | | |
| WS48 HEXACHLOROBENZENE,BY GC/MS | UG/L | | 10 | U | | | |
| WS49 PENTACHLOROPHENOL | UG/L | | 25 | U | | | |
| WS50 PHENANTHRENE | UG/L | | 10 | U | | | |
| WS51 ANTHRACENE, BY GC/MS | UG/L | | 10 | U | | | |
| WS52 PHTHALATE, DI-N-BUTYL-, BY GC/MS | UG/L | | 10 | U | | | |
| WS53 FLUORANTHENE,BY GC/MS | UG/L | | 10 | U | | | |
| WS54 PYRENE | UG/L | | 10 | U | | | |
| WS55 PHTHALATE, BUTYL BENZYL | UG/L | | 10 | U | | | |
| WS56 3,3'-DICHLOROBENZIDINE | UG/L | | 10 | U | | | |
| WS57 ANTHRACENE, BENZO(A), BY GC/MS | UG/L | | 10 | U | | | |
| WS58 PHTHALATE, BIS(2-ETHYLHEXYL), BY GC/MS | UG/L | | 120 | | | | |
| WS59 CHRYSENE, BY GC/MS | UG/L | | 10 | U | | | |
| WS60 PHTHALATE, DI-N-OCTYL-, BY GC/MS | UG/L | | 10 | U | | | |
| WS61 FLUORANTHENE, BENZO(B), BY GC/MS | UG/L | | 10 | U | | | |
| WS62 FLUORANTHENE, BENZSO(K), BY GC/MS | UG/L | | 10 | U | | | |
| WS63 PYRENE, BENZO(A), BY GC/MS | UG/L | | 10 | U | | | |
| WS64 INDENO(1,2,3-CD)PYRENE | UG/L | | 10 | U | | | |
| WS65 ANTHRACENE, DIBENZO(A,H), BY GC/MS | UG/L | | 10 | U | | | |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 108F | 109F | | | | |
|---|---|---|---|---|---|---|---|
| WS66 PERYLENE, BENZO(G,H,I), BY GC/MS | UG/L | | 10 | U | | | |
| WS67 CARBAZOLE | UG/L | | 10 | U | | | |
| WV03 CHLOROMETHANE, BY GC/MS | UG/L | | 10 | U | | | |
| WV04 BROMOMETHANE, BY GC/MS | UG/L | | 10 | U | | | |
| WV05 VINYL CHLORIDE | UG/L | | 10 | U | | | |
| WV06 CHLOROETHANE, BY GC/MS | UG/L | | 10 | U | | | |
| WV07 METHYLENE CHLORIDE | UG/L | | 10 | U | | | |
| WV08 1,1-DICHLOROETHENE | UG/L | | 10 | U | | | |
| WV09 1,1-DICHLOROETHANE | UG/L | | 10 | U | | | |
| WV10 1,2-DICHLOROETHENE, TOTAL | UG/L | | 10 | U | | | |
| WV11 CHLOROFORM, BY GC/MS | UG/L | | 10 | U | | | |
| WV12 1,2-DICHLOROETHANE | UG/L | | 10 | U | | | |
| WV13 1,1,1-TRICHLOROETHANE | UG/L | | 10 | U | | | |
| WV14 CARBON TETRACHLORIDE, BY GC/MS | UG/L | | 10 | U | | | |
| WV15 BROMODICHLOROMETHANE, BY GC/MS | UG/L | | 10 | U | | | |
| WV16 1,2-DICHLOROPROPANE | UG/L | | 10 | U | | | |
| WV17 BENZENE, BY GC/MS | UG/L | | 10 | U | | | |
| WV19 TRICHLOROETHENE | UG/L | | 10 | U | | | |
| WV20 DICHLOROPROPENE, CIS-1,3-, BY GC/MS | UG/L | | 10 | U | | | |
| WV21 DIBROMOCHLOROMETHANE, BY GC/MS | UG/L | | 10 | U | | | |
| WV22 1,1,2-TRICHLOROETHANE | UG/L | | 10 | U | | | |
| WV24 BROMOFORM, BY GC/MS | UG/L | | 10 | U | | | |
| WV25 TETRACHLOROETHENE | UG/L | | 10 | U | | | |
| WV26 TOLUENE | UG/L | | 18 | | | | |
| WV27 1,1,2,2-TETRACHLOROETHANE | UG/L | | 10 | U | | | |
| WV28 CHLOROBENZENE, BY GC/MS | UG/L | | 10 | U | | | |

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-ISXP8

PRELIMINARY DATA
SUBJECT TO REVISION

| COMPOUND | UNITS | 108F | 109F | | | | |
|---|---|---|---|---|---|---|---|
| WV29 ETHYL BENZENE,BY GC/MS | UG/L | | 10 | U | | | |
| WV30 ACETONE, BY GC/MS | UG/L | | 10 | U | | | |
| WV31 CARBON DISULFIDE, BY GC/MS | UG/L | | 10 | U | | | |
| WV32 2-BUTANONE | UG/L | | 10 | U | | | |
| WV33 VINYL ACETATE | UG/L | | N/A | O | | | |
| WV34 2-HEXANONE | UG/L | | 10 | U | | | |
| WV35 4-METHYL-2-PENTANONE | UG/L | | 10 | U | | | |
| WV36 STYRENE | UG/L | | 10 | U | | | |
| WV37 XYLENES, TOTAL | UG/L | | 10 | U | | | |
| WV40 TRANS-1,3-DICHLOROPROPENE | UG/L | | 10 | U | | | |
| ZZ01 SAMPLE NUMBER | NA | 108 | 109 | | | | |
| ZZ02 ACTIVITY CODE | NA | ISXP8 | ISXP8 | | | | |

PRELIMINARY DATA
SUBJECT TO REVISION

ACTIVITY ISXP8 MISSISSIPPI RIVER POOL #15

THE PROJECT LEADER SHOULD CIRCLE ONE - STORET, AIRS, OR ARCHIVE.

CIRCLE ONE: STORET AIRS ARCHIVE

DATA APPROVED BY LABO FOR TRANSMISSION TO PROJECT LEADER ON 10/10/91 16:08:52 BY _____.

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: isxp8 ANALYSIS TYPE: METALS,TOTAL METHOD: CS0390I
LAB: AATS MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8001 | | ISXP8001D | | ISXP8002 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 08/01/91 | |
| | ID # | O#1 A#41 | | O#1 A#41 | | O#1 T#14 | |
| | SMO # | MGH297 | | MGH298 | | MGJ026 | |
| PARAMETERS | UNITS | | | | | | |
| SILVER | UG/L | 10 | U | 10 | U | 10 | U |
| ALUMINUM | UG/L | 420 | | 420 | | 230 | |
| ARSENIC | UG/L | 10 | U | 10 | U | 10 | U |
| BARIUM | UG/L | 200 | U | 200 | U | 200 | U |
| BERYLLIUM | UG/L | 5.0 | U | 5.0 | U | 5.0 | U |
| CADMIUM | UG/L | 5.0 | U | 5.0 | U | 5.0 | U |
| COBALT | UG/L | 50 | U | 50 | U | 50 | U |
| CHROMIUM | UG/L | 10 | U | 10 | U | 10 | U |
| COPPER | UG/L | 25 | U | 25 | U | 25 | U |
| IRON | UG/L | 1200 | | 1200 | | 370 | |
| MANGANESE | UG/L | 430 | | 430 | | 250 | |
| MOLYBDENUM | UG/L | | N | | N | | N |
| NICKEL | UG/L | 40 | U | 40 | U | 40 | U |
| LEAD | UG/L | 4.8 | U | 5.2 | U | 3.0 | U |
| ANTIMONY | UG/L | 60 | U | 60 | U | 60 | U |
| SELENIUM | UG/L | 5.0 | U | 5.0 | U | 5.0 | U |
| TITANIUM | UG/L | | N | | N | | N |
| THALLIUM | UG/L | 10 | U | 10 | U | 10 | U |
| VANADIUM | UG/L | 50 | U | 50 | U | 50 | U |
| ZINC | UG/L | 32 | | 33 | | 20 | U |
| CALCIUM | MG/L | 53 | | 53 | | 73 | |
| MAGNESIUM | MG/L | 15 | | 15 | | 32 | |
| SODIUM | MG/L | 41 | | 40 | | 20 | |
| POTASSIUM | MG/L | 5.0 | U | 5.0 | U | 5.0 | U |
| MERCURY BY COLD VAPOR AA | UG/L | 0.20 | U | 0.20 | U | 0.20 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: isxp8 ANALYSIS TYPE: METALS,TOTAL METHOD: CS0390I
LAB: AATS MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8003 | | ISXP8004 | | ISXP8005 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 08/01/91 | | 08/01/91 | | 08/01/91 | |
| | ID # | O#1 T#20 | | O#1 T#17 | | O#1 T#1 | |
| | SMO # | MGJ027 | | MGJ028 | | MGJ029 | |
| PARAMETERS | UNITS | | | | | | |
| SILVER | UG/L | 10 | U | 10 | U | 10 | U |
| ALUMINUM | UG/L | 1200 | | 13000 | | 370 | |
| ARSENIC | UG/L | 10 | U | 10 | U | 10 | U |
| BARIUM | UG/L | 200 | U | 200 | U | 200 | U |
| BERYLLIUM | UG/L | 5.0 | U | 5.0 | U | 5.0 | U |
| CADMIUM | UG/L | 5.0 | U | 5.0 | U | 5.0 | U |
| COBALT | UG/L | 50 | U | 50 | U | 50 | U |
| CHROMIUM | UG/L | 10 | U | 12 | | 10 | U |
| COPPER | UG/L | 25 | U | 25 | U | 25 | U |
| IRON | UG/L | 250 | | 2600 | | 320 | |
| MANGANESE | UG/L | 60 | | 500 | | 400 | |
| MOLYBDENUM | UG/L | | N | | N | | N |
| NICKEL | UG/L | 40 | U | 40 | U | 40 | U |
| LEAD | UG/L | 3.0 | U | 6.9 | U | 15 | U |
| ANTIMONY | UG/L | 60 | U | 60 | U | 60 | U |
| SELENIUM | UG/L | 5.0 | U | 5.0 | U | 5.0 | U |
| TITANIUM | UG/L | | N | | N | | N |
| THALLIUM | UG/L | 10 | U | 10 | U | 10 | U |
| VANADIUM | UG/L | 50 | U | 50 | U | 50 | U |
| ZINC | UG/L | 29 | | 41 | | 20 | U |
| CALCIUM | MG/L | 60 | | 57 | | 120 | |
| MAGNESIUM | MG/L | 23 | | 22 | | 48 | |
| SODIUM | MG/L | 19 | | 16 | | 820 | |
| POTASSIUM | MG/L | 5.0 | U | 5.0 | U | 7.1 | |
| MERCURY BY COLD VAPOR AA | UG/L | 0.20 | U | 0.20 | U | 0.20 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: isxp8 ANALYSIS TYPE: METALS,TOTAL METHOD: CS0390I
LAB: AATS MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8008F | | ISXP8109F | |
|---|---|---|---|---|---|
| | SAMPLED | 08/01/91 | | 07/31/91 | |
| | ID # | FIELD BLK | | RINSATE | |
| | SMO # | MGJ030 | | MGJ298 | |
| PARAMETERS | UNITS | | | | |
| SILVER | UG/L | 10 | U | 10 | U |
| ALUMINUM | UG/L | 200 | U | 200 | U |
| ARSENIC | UG/L | 10 | U | 10 | U |
| BARIUM | UG/L | 200 | U | 200 | U |
| BERYLLIUM | UG/L | 5.0 | U | 5.0 | U |
| CADMIUM | UG/L | 5.0 | U | 5.0 | U |
| COBALT | UG/L | 50 | U | 50 | U |
| CHROMIUM | UG/L | 10 | U | 10 | U |
| COPPER | UG/L | 25 | U | 25 | U |
| IRON | UG/L | 100 | U | 100 | U |
| MANGANESE | UG/L | 15 | U | 15 | U |
| MOLYBDENUM | UG/L | | N | | N |
| NICKEL | UG/L | 40 | U | 40 | U |
| LEAD | UG/L | 3.0 | U | 3.0 | U |
| ANTIMONY | UG/L | 60 | U | 60 | U |
| SELENIUM | UG/L | 5.0 | U | 5.0 | U |
| TITANIUM | UG/L | | N | | N |
| THALLIUM | UG/L | 10 | U | 10 | U |
| VANADIUM | UG/L | 50 | U | 50 | U |
| ZINC | UG/L | 20 | U | 20 | U |
| CALCIUM | MG/L | 5.0 | U | 5.0 | U |
| MAGNESIUM | MG/L | 5.0 | U | 5.0 | U |
| SODIUM | MG/L | 5.0 | U | 5.0 | U |
| POTASSIUM | MG/L | 5.0 | U | 5.0 | U |
| MERCURY BY COLD VAPOR AA | UG/L | 0.59 | | 0.20 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: PCBS METHOD: CS03900
LAB: PNELI MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8001 | | ISXP8001D | | ISXP8002 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 08/01/91 | |
| | ID # | O#1 A#41 | | O#1 A#41 | | O#1 T#14 | |
| | SMO # | GL339 | | GL340 | | GL362 | |
| PARAMETERS | UNITS | | | | | | |
| PCB-1016 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U |
| PCB-1221 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U |
| PCB-1232 | UG/L | 2.0 | U | 2.0 | U | 2.0 | U |
| PCB-1242 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U |
| PCB-1248 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U |
| PCB-1254 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U |
| PCB-1260 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U |

| | EPA # | ISXP8003 | | ISXP8004 | | ISXP8005 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 08/01/91 | | 08/01/91 | | 08/01/91 | |
| | ID # | O#1 T#20 | | O#1 T#17 | | O#1 T#1 | |
| | SMO # | GL363 | | GL364 | | GL365 | |
| PARAMETERS | UNITS | | | | | | |
| PCB-1016 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U |
| PCB-1221 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U |
| PCB-1232 | UG/L | 2.0 | U | 2.0 | U | 2.0 | U |
| PCB-1242 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U |
| PCB-1248 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U |
| PCB-1254 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U |
| PCB-1260 | UG/L | 1.0 | U | 1.0 | U | 1.0 | U |

| | EPA # | ISXP8008F | | ISXP8109F | |
|---|---|---|---|---|---|
| | SAMPLED | 08/01/91 | | 07/31/91 | |
| | ID # | FIELD BLK | | RINSATE | |
| | SMO # | GL366 | | GL344 | |
| PARAMETERS | UNITS | | | | |
| PCB-1016 | UG/L | 1.0 | U | 1.0 | U |
| PCB-1221 | UG/L | 1.0 | U | 1.0 | U |
| PCB-1232 | UG/L | 2.0 | U | 2.0 | U |
| PCB-1242 | UG/L | 1.0 | U | 1.0 | U |
| PCB-1248 | UG/L | 1.0 | U | 1.0 | U |
| PCB-1254 | UG/L | 1.0 | U | 1.0 | U |
| PCB-1260 | UG/L | 1.0 | U | 1.0 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: SEMIVOLATILES-1 METHOD: CS03900
LAB: PNELI MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8001 | | ISXP8001D | | ISXP8002 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 08/01/91 | |
| | ID # | O#1 A#41 | | O#1 A#41 | | O#1 T#14 | |
| | SMO # | GL339 | | GL340 | | GL362 | |
| PARAMETERS | UNITS | | | | | | |
| PHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| BIS(2-CHLOROETHYL) ETHER | UG/L | 10 | U | 10 | U | 10 | U |
| 2-CHLOROPHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| 1,3-DICHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,4-DICHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZYL ALCOHOL | UG/L | | N | | N | | N |
| 1,2-DICHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| 2-METHYLPHENOL (O-CRESOL | UG/L | 10 | U | 10 | U | 10 | U |
| BIS(2-CHLOROISOPROPYL) ET | UG/L | | N | | N | | N |
| 4-METHYLPHENOL (P-CRESOL | UG/L | 10 | U | 10 | U | 10 | U |
| N-NITROSO-DIPROPYLAMINE | UG/L | 10 | U | 10 | U | 10 | U |
| HEXACHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| NITROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| ISOPHORONE | UG/L | 10 | U | 10 | U | 10 | U |
| 2-NITROPHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| 2,4-DIMETHYLPHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| BENZOIC ACID | UG/L | | N | | N | | N |
| BIS(2-CHLOROETHYOXY) METH | UG/L | 10 | U | 10 | U | 10 | U |
| 2,4-DICHLOROPHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| 1,2,4-TRICHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| NAPHTHALENE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-CHLOROANILINE | UG/L | 10 | U | 10 | U | 10 | U |
| HEXACHLOROBUTADIENE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-CHLORO-3-METHYLPHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| 2-METHYLNAPHTHALENE | UG/L | 10 | U | 10 | U | 10 | U |
| HEXACHLOROCYCLOPENTADIENE | UG/L | 10 | U | 10 | U | 10 | U |
| 2,4,6-TRICHLOROPHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| 2,4,5-TRICHLOROPHENOL | UG/L | 25 | U | 25 | U | 25 | U |
| 2-CHLORONAPHTHALENE | UG/L | 10 | U | 10 | U | 10 | U |
| 2-NITROANILINE (ORTHO NIT | UG/L | 25 | U | 25 | U | 25 | U |
| DIMETHYLPHTHALATE | UG/L | 10 | U | 10 | U | 10 | U |
| ACENAPHTHYLENE | UG/L | 10 | U | 10 | U | 10 | U |
| 3-NITROANILINE | UG/L | 25 | U | 25 | U | 25 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: SEMIVOLATILES-2 METHOD: CS0390O
LAB: PNELI MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8001 | | ISXP8001D | | ISXP8002 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 08/01/91 | |
| | ID # | O#1 A#41 | | O#1 A#41 | | O#1 T#14 | |
| | SMO # | GL339 | | GL340 | | GL362 | |
| PARAMETERS | UNITS | | | | | | |
| ACENAPHTHENE | UG/L | 10 | U | 10 | U | 10 | U |
| 2,4-DINITROPHENOL | UG/L | 25 | U | 25 | U | 25 | U |
| 4-NITROPHENOL | UG/L | 25 | U | 25 | U | 25 | U |
| DIBENZOFURAN | UG/L | 10 | U | 10 | U | 10 | U |
| 2,4-DINITROTOLUENE | UG/L | 10 | U | 10 | U | 10 | U |
| 2,6-DINITROTOLUENE | UG/L | 10 | U | 10 | U | 10 | U |
| DIETHYLPHTHALATE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-CHLOROPHENYL PHENYL ETH | UG/L | 10 | U | 10 | U | 10 | U |
| FLUORENE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-NITROANILINE | UG/L | 25 | U | 25 | U | 25 | U |
| 4,6-DINITRO-2-METHYLPHENO | UG/L | 25 | U | 25 | U | 25 | U |
| N-NITROSODIPHENYLAMINE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-BROMOPHENYL PHENYL ETHE | UG/L | 10 | U | 10 | U | 10 | U |
| HEXACHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| PENTACHLOROPHENOL | UG/L | 25 | U | 25 | U | 25 | U |
| PHENANTHRENE | UG/L | 10 | U | 10 | U | 10 | U |
| ANTHRACENE | UG/L | 10 | U | 10 | U | 10 | U |
| DI-N-BUTYL PHTHALATE | UG/L | 10 | U | 10 | U | 10 | U |
| FLUORANTHENE | UG/L | 10 | U | 10 | U | 10 | U |
| PYRENE | UG/L | 10 | U | 10 | U | 10 | U |
| BUTYL BENZYL PHTHALATE | UG/L | 10 | U | 15 | | 10 | U |
| 3,3'-DICHLOROBENZIDINE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZO(A)ANTHRACENE | UG/L | 10 | U | 10 | U | 10 | U |
| BIS(2-ETHYLHEXYL)PHTHALAT | UG/L | 10 | U | 11 | U | 10 | U |
| CHRYSENE | UG/L | 10 | U | 10 | U | 10 | U |
| DI-N-OCTYL PHTHALATE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZO(B)FLUORANTHENE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZO(K)FLUORANTHENE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZO(A)PYRENE | UG/L | 10 | U | 10 | U | 10 | U |
| INDENO(1,2,3-CD)PYRENE | UG/L | 10 | U | 10 | U | 10 | U |
| DIBENZO(A,H)ANTHRACENE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZO(G,H,I)PERYLENE | UG/L | 10 | U | 10 | U | 10 | U |
| CARBAZOLE | UG/L | 10 | U | 10 | U | 10 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: SEMIVOLATILES-1 METHOD: CS03900
LAB: PNELI MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8003 | | ISXP8004 | | ISXP8005 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 08/01/91 | | 08/01/91 | | 08/01/91 | |
| | ID # | O#1 T#20 | | O#1 T#17 | | O#1 T#1 | |
| | SMO # | GL363 | | GL364 | | GL365 | |
| PARAMETERS | UNITS | | | | | | |
| PHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| BIS(2-CHLOROETHYL) ETHER | UG/L | 10 | U | 10 | U | 10 | U |
| 2-CHLOROPHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| 1,3-DICHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,4-DICHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZYL ALCOHOL | UG/L | | N | | N | | N |
| 1,2-DICHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| 2-METHYLPHENOL (O-CRESOL | UG/L | 10 | U | 10 | U | 10 | U |
| BIS(2-CHLOROISOPROPYL) ET | UG/L | | N | | N | | N |
| 4-METHYLPHENOL (P-CRESOL | UG/L | 10 | U | 10 | U | 10 | U |
| N-NITROSO-DIPROPYLAMINE | UG/L | 10 | U | 10 | U | 10 | U |
| HEXACHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| NITROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| ISOPHORONE | UG/L | 10 | U | 10 | U | 10 | U |
| 2-NITROPHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| 2,4-DIMETHYLPHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| BENZOIC ACID | UG/L | | N | | N | | N |
| BIS(2-CHLOROETHYOXY) METH | UG/L | 10 | U | 10 | U | 10 | U |
| 2,4-DICHLOROPHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| 1,2,4-TRICHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| NAPHTHALENE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-CHLOROANILINE | UG/L | 10 | U | 10 | U | 10 | U |
| HEXACHLOROBUTADIENE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-CHLORO-3-METHYLPHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| 2-METHYLNAPHTHALENE | UG/L | 10 | U | 10 | U | 10 | U |
| HEXACHLOROCYCLOPENTADIENE | UG/L | 10 | U | 10 | U | 10 | U |
| 2,4,6-TRICHLOROPHENOL | UG/L | 10 | U | 10 | U | 10 | U |
| 2,4,5-TRICHLOROPHENOL | UG/L | 25 | U | 25 | U | 25 | U |
| 2-CHLORONAPHTHALENE | UG/L | 10 | U | 10 | U | 10 | U |
| 2-NITROANILINE (ORTHO NIT | UG/L | 25 | U | 25 | U | 25 | U |
| DIMETHYLPHTHALATE | UG/L | 10 | U | 10 | U | 10 | U |
| ACENAPHTHYLENE | UG/L | 10 | U | 10 | U | 10 | U |
| 3-NITROANILINE | UG/L | 25 | U | 25 | U | 25 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: SEMIVOLATILES-2 METHOD: CS03900
LAB: PNELI MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8003 | | ISXP8004 | | ISXP8005 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 08/01/91 | | 08/01/91 | | 08/01/91 | |
| | ID # | O#1 T#20 | | O#1 T#17 | | O#1 T#1 | |
| | SMO # | GL363 | | GL364 | | GL365 | |
| PARAMETERS | UNITS | | | | | | |
| ACENAPHTHENE | UG/L | 10 | U | 10 | U | 10 | U |
| 2,4-DINITROPHENOL | UG/L | 25 | U | 25 | U | 25 | U |
| 4-NITROPHENOL | UG/L | 25 | U | 25 | U | 25 | U |
| DIBENZOFURAN | UG/L | 10 | U | 10 | U | 10 | U |
| 2,4-DINITROTOLUENE | UG/L | 10 | U | 10 | U | 10 | U |
| 2,6-DINITROTOLUENE | UG/L | 10 | U | 10 | U | 10 | U |
| DIETHYLPHTHALATE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-CHLOROPHENYL PHENYL ETH | UG/L | 10 | U | 10 | U | 10 | U |
| FLUORENE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-NITROANILINE | UG/L | 25 | U | 25 | U | 25 | U |
| 4,6-DINITRO-2-METHYLPHENO | UG/L | 25 | U | 25 | U | 25 | U |
| N-NITROSODIPHENYLAMINE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-BROMOPHENYL PHENYL ETHE | UG/L | 10 | U | 10 | U | 10 | U |
| HEXACHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| PENTACHLOROPHENOL | UG/L | 25 | U | 25 | U | 25 | U |
| PHENANTHRENE | UG/L | 10 | U | 10 | U | 10 | U |
| ANTHRACENE | UG/L | 10 | U | 10 | U | 10 | U |
| DI-N-BUTYL PHTHALATE | UG/L | 10 | U | 10 | U | 10 | U |
| FLUORANTHENE | UG/L | 10 | U | 10 | U | 10 | U |
| PYRENE | UG/L | 10 | U | 10 | U | 10 | U |
| BUTYL BENZYL PHTHALATE | UG/L | 10 | U | 10 | U | 10 | U |
| 3,3'-DICHLOROBENZIDINE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZO(A)ANTHRACENE | UG/L | 10 | U | 10 | U | 10 | U |
| BIS(2-ETHYLHEXYL)PHTHALAT | UG/L | 10 | U | 10 | U | 10 | U |
| CHRYSENE | UG/L | 10 | U | 10 | U | 10 | U |
| DI-N-OCTYL PHTHALATE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZO(B)FLUORANTHENE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZO(K)FLUORANTHENE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZO(A)PYRENE | UG/L | 10 | U | 10 | U | 10 | U |
| INDENO(1,2,3-CD)PYRENE | UG/L | 10 | U | 10 | U | 10 | U |
| DIBENZO(A,H)ANTHRACENE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZO(G,H,I)PERYLENE | UG/L | 10 | U | 10 | U | 10 | U |
| CARBAZOLE | UG/L | 10 | U | 10 | U | 10 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: SEMIVOLATILES-1 METHOD: CS03900
LAB: PNELI MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # SAMPLED ID # SMO # | ISXP8008F 08/01/91 FIELD BLK GL366 | | ISXP8109F 07/31/91 RINSATE GL344 | |
|---|---|---|---|---|---|
| PARAMETERS | UNITS | | | | |
| PHENOL | UG/L | 10 | U | 10 | U |
| BIS(2-CHLOROETHYL) ETHER | UG/L | 10 | U | 10 | U |
| 2-CHLOROPHENOL | UG/L | 10 | U | 10 | U |
| 1,3-DICHLOROBENZENE | UG/L | 10 | U | 10 | U |
| 1,4-DICHLOROBENZENE | UG/L | 10 | U | 10 | U |
| BENZYL ALCOHOL | UG/L | | N | | N |
| 1,2-DICHLOROBENZENE | UG/L | 10 | U | 10 | U |
| 2-METHYLPHENOL (O-CRESOL | UG/L | 10 | U | 10 | U |
| BIS(2-CHLOROISOPROPYL) ET | UG/L | | N | | N |
| 4-METHYLPHENOL (P-CRESOL | UG/L | 10 | U | 10 | U |
| N-NITROSO-DIPROPYLAMINE | UG/L | 10 | U | 10 | U |
| HEXACHLOROETHANE | UG/L | 10 | U | 10 | U |
| NITROBENZENE | UG/L | 10 | U | 10 | U |
| ISOPHORONE | UG/L | 10 | U | 10 | U |
| 2-NITROPHENOL | UG/L | 10 | U | 10 | U |
| 2,4-DIMETHYLPHENOL | UG/L | 10 | U | 10 | U |
| BENZOIC ACID | UG/L | | N | | N |
| BIS(2-CHLOROETHYOXY) METH | UG/L | 10 | U | 10 | U |
| 2,4-DICHLOROPHENOL | UG/L | 10 | U | 10 | U |
| 1,2,4-TRICHLOROBENZENE | UG/L | 10 | U | 10 | U |
| NAPHTHALENE | UG/L | 10 | U | 10 | U |
| 4-CHLOROANILINE | UG/L | 10 | U | 10 | U |
| HEXACHLOROBUTADIENE | UG/L | 10 | U | 10 | U |
| 4-CHLORO-3-METHYLPHENOL | UG/L | 10 | U | 10 | U |
| 2-METHYLNAPHTHALENE | UG/L | 10 | U | 10 | U |
| HEXACHLOROCYCLOPENTADIENE | UG/L | 10 | U | 10 | U |
| 2,4,6-TRICHLOROPHENOL | UG/L | 10 | U | 10 | U |
| 2,4,5-TRICHLOROPHENOL | UG/L | 25 | U | 25 | U |
| 2-CHLORONAPHTHALENE | UG/L | 10 | U | 10 | U |
| 2-NITROANILINE (ORTHO NIT | UG/L | 25 | U | 25 | U |
| DIMETHYLPHTHALATE | UG/L | 10 | U | 10 | U |
| ACENAPHTHYLENE | UG/L | 10 | U | 10 | U |
| 3-NITROANILINE | UG/L | 25 | U | 25 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: SEMIVOLATILES-2 METHOD: CS03900
LAB: PNELI MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8008F | | ISXP8109F | |
|---|---|---|---|---|---|
| | SAMPLED | 08/01/91 | | 07/31/91 | |
| | ID # | FIELD BLK | | RINSATE | |
| | SMO # | GL366 | | GL344 | |
| PARAMETERS | UNITS | | | | |
| ACENAPHTHENE | UG/L | 10 | U | 10 | U |
| 2,4-DINITROPHENOL | UG/L | 25 | U | 25 | U |
| 4-NITROPHENOL | UG/L | 25 | U | 25 | U |
| DIBENZOFURAN | UG/L | 10 | U | 10 | U |
| 2,4-DINITROTOLUENE | UG/L | 10 | U | 10 | U |
| 2,6-DINITROTOLUENE | UG/L | 10 | U | 10 | U |
| DIETHYLPHTHALATE | UG/L | 10 | U | 10 | U |
| 4-CHLOROPHENYL PHENYL ETH | UG/L | 10 | U | 10 | U |
| FLUORENE | UG/L | 10 | U | 10 | U |
| 4-NITROANILINE | UG/L | 25 | U | 25 | U |
| 4,6-DINITRO-2-METHYLPHENO | UG/L | 25 | U | 25 | U |
| N-NITROSODIPHENYLAMINE | UG/L | 10 | U | 10 | U |
| 4-BROMOPHENYL PHENYL ETHE | UG/L | 10 | U | 10 | U |
| HEXACHLOROBENZENE | UG/L | 10 | U | 10 | U |
| PENTACHLOROPHENOL | UG/L | 25 | U | 25 | U |
| PHENANTHRENE | UG/L | 10 | U | 10 | U |
| ANTHRACENE | UG/L | 10 | U | 10 | U |
| DI-N-BUTYL PHTHALATE | UG/L | 10 | U | 10 | U |
| FLUORANTHENE | UG/L | 10 | U | 10 | U |
| PYRENE | UG/L | 10 | U | 10 | U |
| BUTYL BENZYL PHTHALATE | UG/L | 10 | U | 10 | U |
| 3,3'-DICHLOROBENZIDINE | UG/L | 10 | U | 10 | U |
| BENZO(A)ANTHRACENE | UG/L | 10 | U | 10 | U |
| BIS(2-ETHYLHEXYL)PHTHALAT | UG/L | 10 | U | 120 | |
| CHRYSENE | UG/L | 10 | U | 10 | U |
| DI-N-OCTYL PHTHALATE | UG/L | 10 | U | 10 | U |
| BENZO(B)FLUORANTHENE | UG/L | 10 | U | 10 | U |
| BENZO(K)FLUORANTHENE | UG/L | 10 | U | 10 | U |
| BENZO(A)PYRENE | UG/L | 10 | U | 10 | U |
| INDENO(1,2,3-CD)PYRENE | UG/L | 10 | U | 10 | U |
| DIBENZO(A,H)ANTHRACENE | UG/L | 10 | U | 10 | U |
| BENZO(G,H,I)PERYLENE | UG/L | 10 | U | 10 | U |
| CARBAZOLE | UG/L | 10 | U | 10 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: VOLATILES METHOD: CS03900
LAB: PNELI MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8001 | | ISXP8001D | | ISXP8002 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 08/01/91 | |
| | ID # | O#1 A#41 | | O#1 A#41 | | O#1 T#14 | |
| | SMO # | GL339 | | GL340 | | GL362 | |
| PARAMETERS | UNITS | | | | | | |
| CHLOROMETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| BROMOMETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| VINYL CHLORIDE | UG/L | 10 | U | 10 | U | 240 | |
| CHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| METHYLENE CHLORIDE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1-DICHLOROETHENE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1-DICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,2-DICHLOROETHENE, TOTAL | UG/L | 10 | U | 10 | U | 1600 | |
| CHLOROFORM | UG/L | 10 | U | 10 | U | 10 | U |
| 1,2-DICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1,1-TRICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| CARBON TETRACHLORIDE | UG/L | 10 | U | 10 | U | 10 | U |
| BROMODICHLOROMETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,2-DICHLOROPROPANE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| TRICHLOROETHENE | UG/L | 10 | U | 10 | U | 190 | |
| CIS-1,3-DICHLOROPROPENE | UG/L | 10 | U | 10 | U | 10 | U |
| DIBROMOCHLOROMETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1,2-TRICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| BROMOFORM | UG/L | 10 | U | 10 | U | 10 | U |
| TETRACHLOROETHENE | UG/L | 10 | U | 10 | U | 2800 | |
| TOLUENE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1,2,2-TETRACHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| CHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| ETHYL BENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| ACETONE | UG/L | 10 | U | 10 | U | 10 | U |
| CARBON DISULFIDE | UG/L | 10 | U | 10 | U | 10 | U |
| 2-BUTANONE | UG/L | 10 | U | 10 | U | 10 | U |
| VINYL ACETATE | UG/L | | N | | N | | N |
| 2-HEXANONE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-METHYL-2-PENTANONE | UG/L | 10 | U | 10 | U | 10 | U |
| STYRENE | UG/L | 10 | U | 10 | U | 10 | U |
| XYLENES, TOTAL | UG/L | 10 | U | 10 | U | 10 | U |
| TRANS-1,3-DICHLOROPROPENE | UG/L | 10 | U | 10 | U | 10 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: VOLATILES METHOD: CS03900
LAB: PNELI MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8003 | | ISXP8004 | | ISXP8005 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 08/01/91 | | 08/01/91 | | 08/01/91 | |
| | ID # | O#1 T#20 | | O#1 T#17 | | O#1 T#1 | |
| | SMO # | GL363 | | GL364 | | GL365 | |
| PARAMETERS | UNITS | | | | | | |
| CHLOROMETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| BROMOMETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| VINYL CHLORIDE | UG/L | 10 | | 10 | U | 10 | U |
| CHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| METHYLENE CHLORIDE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1-DICHLOROETHENE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1-DICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,2-DICHLOROETHENE, TOTAL | UG/L | 86 | | 30 | | 10 | U |
| CHLOROFORM | UG/L | 44 | | 71 | | 16 | |
| 1,2-DICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1,1-TRICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| CARBON TETRACHLORIDE | UG/L | 10 | U | 10 | U | 10 | U |
| BROMODICHLOROMETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,2-DICHLOROPROPANE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| TRICHLOROETHENE | UG/L | 45 | | 12 | | 10 | U |
| CIS-1,3-DICHLOROPROPENE | UG/L | 10 | U | 10 | U | 10 | U |
| DIBROMOCHLOROMETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1,2-TRICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| BROMOFORM | UG/L | 10 | U | 10 | U | 10 | U |
| TETRACHLOROETHENE | UG/L | 160 | | 35 | | 10 | U |
| TOLUENE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1,2,2-TETRACHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| CHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| ETHYL BENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| ACETONE | UG/L | 10 | U | 10 | U | 10 | U |
| CARBON DISULFIDE | UG/L | 10 | U | 10 | U | 10 | U |
| 2-BUTANONE | UG/L | 10 | U | 10 | U | 10 | U |
| VINYL ACETATE | UG/L | | N | | N | | N |
| 2-HEXANONE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-METHYL-2-PENTANONE | UG/L | 10 | U | 10 | U | 10 | U |
| STYRENE | UG/L | 10 | U | 10 | U | 10 | U |
| XYLENES, TOTAL | UG/L | 10 | U | 10 | U | 10 | U |
| TRANS-1,3-DICHLOROPROPENE | UG/L | 10 | U | 10 | U | 10 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: VOLATILES METHOD: CS03900
LAB: PNELI MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8006F | | ISXP8008F | | ISXP8009F | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 08/01/91 | | 08/01/91 | | 07/31/91 | |
| | ID # | TRIP BLK. | | FIELD BLK | | TRIP BLK. | |
| | SMO # | GL361 | | GL366 | | GL343 | |
| PARAMETERS | UNITS | | | | | | |
| CHLOROMETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| BROMOMETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| VINYL CHLORIDE | UG/L | 10 | U | 10 | U | 10 | U |
| CHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| METHYLENE CHLORIDE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1-DICHLOROETHENE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1-DICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,2-DICHLOROETHENE, TOTAL | UG/L | 10 | U | 10 | U | 10 | U |
| CHLOROFORM | UG/L | 10 | U | 10 | U | 10 | U |
| 1,2-DICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1,1-TRICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| CARBON TETRACHLORIDE | UG/L | 10 | U | 10 | U | 10 | U |
| BROMODICHLOROMETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,2-DICHLOROPROPANE | UG/L | 10 | U | 10 | U | 10 | U |
| BENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| TRICHLOROETHENE | UG/L | 10 | U | 10 | U | 10 | U |
| CIS-1,3-DICHLOROPROPENE | UG/L | 10 | U | 10 | U | 10 | U |
| DIBROMOCHLOROMETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| 1,1,2-TRICHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| BROMOFORM | UG/L | 10 | U | 10 | U | 10 | U |
| TETRACHLOROETHENE | UG/L | 10 | U | 10 | U | 10 | U |
| TOLUENE | UG/L | 10 | U | 16 | | 10 | U |
| 1,1,2,2-TETRACHLOROETHANE | UG/L | 10 | U | 10 | U | 10 | U |
| CHLOROBENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| ETHYL BENZENE | UG/L | 10 | U | 10 | U | 10 | U |
| ACETONE | UG/L | 31 | U | 10 | U | 38 | U |
| CARBON DISULFIDE | UG/L | 10 | U | 10 | U | 10 | U |
| 2-BUTANONE | UG/L | 10 | U | 10 | U | 10 | U |
| VINYL ACETATE | UG/L | | N | | N | | N |
| 2-HEXANONE | UG/L | 10 | U | 10 | U | 10 | U |
| 4-METHYL-2-PENTANONE | UG/L | 10 | U | 10 | U | 10 | U |
| STYRENE | UG/L | 10 | U | 10 | U | 10 | U |
| XYLENES, TOTAL | UG/L | 10 | U | 10 | U | 10 | U |
| TRANS-1,3-DICHLOROPROPENE | UG/L | 10 | U | 10 | U | 10 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: VOLATILES METHOD: CS03900
LAB: PNELI MATRIX: WATER DATA COMPLETED: 10/10/91
CASE: 16873

| | | | |
|---|---|---|---|
| | EPA # | ISXP8109F | |
| | SAMPLED | 07/31/91 | |
| | ID # | RINSATE | |
| | SMO # | GL344 | |
| PARAMETERS | UNITS | | |
| CHLOROMETHANE | UG/L | 10 | U |
| BROMOMETHANE | UG/L | 10 | U |
| VINYL CHLORIDE | UG/L | 10 | U |
| CHLOROETHANE | UG/L | 10 | U |
| METHYLENE CHLORIDE | UG/L | 10 | U |
| 1,1-DICHLOROETHENE | UG/L | 10 | U |
| 1,1-DICHLOROETHANE | UG/L | 10 | U |
| 1,2-DICHLOROETHENE, TOTAL | UG/L | 10 | U |
| CHLOROFORM | UG/L | 10 | U |
| 1,2-DICHLOROETHANE | UG/L | 10 | U |
| 1,1,1-TRICHLOROETHANE | UG/L | 10 | U |
| CARBON TETRACHLORIDE | UG/L | 10 | U |
| BROMODICHLOROMETHANE | UG/L | 10 | U |
| 1,2-DICHLOROPROPANE | UG/L | 10 | U |
| BENZENE | UG/L | 10 | U |
| TRICHLOROETHENE | UG/L | 10 | U |
| CIS-1,3-DICHLOROPROPENE | UG/L | 10 | U |
| DIBROMOCHLOROMETHANE | UG/L | 10 | U |
| 1,1,2-TRICHLOROETHANE | UG/L | 10 | U |
| BROMOFORM | UG/L | 10 | U |
| TETRACHLOROETHENE | UG/L | 10 | U |
| TOLUENE | UG/L | 18 | |
| 1,1,2,2-TETRACHLOROETHANE | UG/L | 10 | U |
| CHLOROBENZENE | UG/L | 10 | U |
| ETHYL BENZENE | UG/L | 10 | U |
| ACETONE | UG/L | 10 | U |
| CARBON DISULFIDE | UG/L | 10 | U |
| 2-BUTANONE | UG/L | 10 | U |
| VINYL ACETATE | UG/L | | N |
| 2-HEXANONE | UG/L | 10 | U |
| 4-METHYL-2-PENTANONE | UG/L | 10 | U |
| STYRENE | UG/L | 10 | U |
| XYLENES, TOTAL | UG/L | 10 | U |
| TRANS-1,3-DICHLOROPROPENE | UG/L | 10 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: METALS,TOTAL METHOD: CS0390I
LAB: AATS MATRIX: SEDIMENT DATA COMPLETED: 10/10/91
CASE: 16873

| | | EPA # | ISXP8101 | | ISXP8102 | | ISXP8103 | |
|---|---|---|---|---|---|---|---|---|
| | | SAMPLED | 07/31/91 | | 07/31/91 | | 07/31/91 | |
| | | ID # | O#1 A#43A | | O#2 A#7 | | O#3 A#2 | |
| | | SMO # | MGH299 | | MGH300 | | MGJ031 | |
| PARAMETERS | | UNITS | | | | | | |
| SILVER | BY ICAP | MG/KG | 2.8 | U | 3.7 | U | 3.6 | U |
| ALUMINUM | BY ICAP | MG/KG | 8300 | | 23000 | | 11000 | |
| ARSENIC | BY ICAP | MG/KG | 2.8 | U | 4.6 | | 3.6 | |
| BARIUM | BY ICAP | MG/KG | 72 | | 130 | | 96 | |
| BERYLLIUM | BY ICAP | MG/KG | 1.4 | U | 1.9 | U | 1.8 | U |
| CADMIUM | BY ICAP | MG/KG | 1.4 | U | 1.9 | U | 1.8 | U |
| COBALT | BY ICAP | MG/KG | 14 | U | 19 | U | 18 | U |
| CHROMIUM | BY ICAP | MG/KG | 18 | J | 40 | J | 20 | J |
| COPPER | BY ICAP | MG/KG | 53 | J | 160 | J | 68 | J |
| IRON | BY ICAP | MG/KG | 13000 | J | 19000 | J | 13000 | J |
| MANGANESE | BY ICAP | MG/KG | 260 | | 530 | | 270 | |
| MOLYBDENUM | BY ICAP | MG/KG | | N | | N | | N |
| NICKEL | BY ICAP | MG/KG | 18 | | 24 | | 16 | |
| LEAD | BY ICAP | MG/KG | 39 | | 68 | | 19 | |
| ANTIMONY | BY ICAP | MG/KG | | N | | N | | N |
| SELENIUM | BY ICAP | MG/KG | 1.4 | U | 1.9 | U | 1.8 | U |
| TITANIUM | BY ICAP | MG/KG | | N | | N | | N |
| THALLIUM | BY ICAP | MG/KG | 2.8 | U | 3.7 | U | 3.6 | U |
| VANADIUM | BY ICAP | MG/KG | 21 | | 31 | | 23 | |
| ZINC | BY ICAP | MG/KG | 140 | | 240 | | 69 | |
| CALCIUM | BY ICAP | MG/KG | 36000 | | 35000 | | 14000 | |
| MAGNESIUM | BY ICAP | MG/KG | 13000 | | 13000 | | 3900 | |
| SODIUM | BY ICAP | MG/KG | 1400 | U | 1900 | U | 1800 | U |
| POTASSIUM | BY ICAP | MG/KG | 1400 | U | 1900 | U | 1800 | U |
| MERCURY | BY COLD VA | MG/KG | 0.14 | U | 0.19 | U | 0.18 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: METALS,TOTAL METHOD: CS0390I
LAB: AATS MATRIX: SEDIMENT DATA COMPLETED: 10/10/91
CASE: 16873

| | | EPA # | ISXP8103D | | ISXP8104 | | ISXP8105 | |
|---|---|---|---|---|---|---|---|---|
| | | SAMPLED | 07/31/91 | | 07/31/91 | | 07/31/91 | |
| | | ID # | O#3 A#2 | | O#4 A#17 | | O#5 A#1 | |
| | | SMO # | MGJ032 | | MGJ033 | | MGJ034 | |
| PARAMETERS | | UNITS | | | | | | |
| SILVER | BY ICAP | MG/KG | 3.4 | U | 3.3 | U | 3.2 | U |
| ALUMINUM | BY ICAP | MG/KG | 11000 | | 21000 | | 12000 | |
| ARSENIC | BY ICAP | MG/KG | 3.6 | | 9.6 | | 3.4 | |
| BARIUM | BY ICAP | MG/KG | 110 | | 100 | | 64 | U |
| BERYLLIUM | BY ICAP | MG/KG | 1.7 | U | 1.7 | U | 1.6 | U |
| CADMIUM | BY ICAP | MG/KG | 1.7 | U | 1.7 | U | 1.6 | U |
| COBALT | BY ICAP | MG/KG | 1.7 | U | 17 | U | 16 | U |
| CHROMIUM | BY ICAP | MG/KG | 21 | J | 28 | J | 16 | J |
| COPPER | BY ICAP | MG/KG | 71 | J | 200 | J | 47 | J |
| IRON | BY ICAP | MG/KG | 14000 | J | 29000 | J | 10000 | J |
| MANGANESE | BY ICAP | MG/KG | 340 | | 530 | | 190 | |
| MOLYBDENUM | BY ICAP | MG/KG | | N | | N | | N |
| NICKEL | BY ICAP | MG/KG | 14 | | 22 | | 15 | |
| LEAD | BY ICAP | MG/KG | 21 | | 35 | | 18 | |
| ANTIMONY | BY ICAP | MG/KG | | I | | I | | N |
| SELENIUM | BY ICAP | MG/KG | 1.7 | U | 1.7 | U | 1.6 | U |
| TITANIUM | BY ICAP | MG/KG | | N | | N | | N |
| THALLIUM | BY ICAP | MG/KG | 34.3 | | 3.3 | U | 3.2 | U |
| VANADIUM | BY ICAP | MG/KG | 22 | | 37 | | 17 | |
| ZINC | BY ICAP | MG/KG | 76 | | 110 | | 81 | |
| CALCIUM | BY ICAP | MG/KG | 19000 | | 18000 | | 6600 | |
| MAGNESIUM | BY ICAP | MG/KG | 4600 | | 6800 | | 2800 | |
| SODIUM | BY ICAP | MG/KG | 1700 | U | 1700 | U | 1600 | U |
| POTASSIUM | BY ICAP | MG/KG | 1700 | U | 1700 | U | 1600 | U |
| MERCURY | BY COLD VA | MG/KG | 0.17 | U | 0.17 | U | 0.16 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: PCBS METHOD: CS0390O
LAB: PNELI MATRIX: SEDIMENT DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8101 | | ISXP8102 | | ISXP8103 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 07/31/91 | |
| | ID # | O#1 A#43A | | O#2 A#7 | | O#3 A#2 | |
| | SMO # | GL341 | | GL342 | | GL368 | |
| PARAMETERS | UNITS | | | | | | |
| PCB-1016 | UG/KG | 51 | U | 660 | U | 720 | U |
| PCB-1221 | UG/KG | 51 | U | 660 | U | 720 | U |
| PCB-1232 | UG/KG | 100 | U | 1300 | U | 1500 | U |
| PCB-1242 | UG/KG | 51 | U | 660 | U | 720 | U |
| PCB-1248 | UG/KG | 940 | J | 24000 | J | 17000 | |
| PCB-1254 | UG/KG | 51 | U | 660 | U | 720 | U |
| PCB-1260 | UG/KG | 51 | U | 660 | U | 720 | U |

| | EPA # | ISXP8103D | | ISXP8104 | | ISXP8105 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 07/31/91 | |
| | ID # | O#3 A#2 | | O#4 A#17 | | O#5 A#1 | |
| | SMO # | GL369 | | GL370 | | GL371 | |
| PARAMETERS | UNITS | | | | | | |
| PCB-1016 | UG/KG | 620 | U | 580 | U | 53 | U |
| PCB-1221 | UG/KG | 620 | U | 580 | U | 53 | U |
| PCB-1232 | UG/KG | 1300 | U | 1200 | U | 110 | U |
| PCB-1242 | UG/KG | 620 | U | 580 | U | 53 | U |
| PCB-1248 | UG/KG | 19000 | | 15000 | J | 3700 | J |
| PCB-1254 | UG/KG | 620 | U | 580 | U | 53 | U |
| PCB-1260 | UG/KG | 620 | U | 580 | U | 53 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: SEMIVOLATILES-1 METHOD: CS03900
LAB: PNELI MATRIX: SEDIMENT DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8101 | | ISXP8102 | | ISXP8103 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 07/31/91 | |
| | ID # | O#1 A#43A | | O#2 A#7 | | O#3 A#2 | |
| | SMO # | GL341 | | GL342 | | GL368 | |
| PARAMETERS | UNITS | | | | | | |
| PHENOL | UG/KG | 5100 | U | 20000 | U | 720 | U |
| CARBAZOLE | UG/KG | 5500 | | 20000 | U | 1100 | J |
| BIS(2-CHLOROETHYL) ETHER | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 2-CHLOROPHENOL | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 1,3-DICHLOROBENZENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 1,4-DICHLOROBENZENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| BENZYL ALCOHOL | UG/KG | | N | | N | | N |
| 1,2-DICHLOROBENZENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 2-METHYLPHENOL (O-CRESOL | UG/KG | 5100 | U | 20000 | U | 720 | U |
| BIS(2-CHLOROISOPROPYL) ET | UG/KG | | N | | N | | N |
| 4-METHYLPHENOL (P-CRESOL | UG/KG | 5100 | U | 20000 | U | 720 | U |
| N-NITROSO-DIPROPYLAMINE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| HEXACHLOROETHANE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| NITROBENZENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| ISOPHORONE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 2-NITROPHENOL | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 2,4-DIMETHYLPHENOL | UG/KG | 5100 | U | 20000 | U | 720 | U |
| BENZOIC ACID | UG/KG | | N | | N | | N |
| BIS(2-CHLOROETHYOXY) METH | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 2,4-DICHLOROPHENOL | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 1,2,4-TRICHLOROBENZENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| NAPHTHALENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 4-CHLOROANILINE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| HEXACHLOROBUTADIENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 4-CHLORO-3-METHYLPHENOL | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 2-METHYLNAPHTHALENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| HEXACHLOROCYCLOPENTADIENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 2,4,6-TRICHLOROPHENOL | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 2,4,5-TRICHLOROPHENOL | UG/KG | 12000 | U | 50000 | U | 1700 | U |
| 2-CHLORONAPHTHALENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 2-NITROANILINE | UG/KG | 12000 | U | 50000 | U | 1700 | U |
| DIMETHYLPHTHALATE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| ACENAPHTHYLENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 3-NITROANILINE | UG/KG | 12000 | U | 50000 | U | 1700 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: SEMIVOLATILES-2 METHOD: CS03900
LAB: PNELI MATRIX: SEDIMENT DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8101 | | ISXP8102 | | ISXP8103 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 07/31/91 | |
| | ID # | O#1 A#43A | | O#2 A#7 | | O#3 A#2 | |
| | SMO # | GL341 | | GL342 | | GL368 | |
| PARAMETERS | UNITS | | | | | | |
| ACENAPHTHENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 2,4-DINITROPHENOL | UG/KG | 12000 | U | 50000 | U | 1700 | U |
| 4-NITROPHENOL | UG/KG | 12000 | U | 50000 | U | 1700 | U |
| DIBENZOFURAN | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 2,4-DINITROTOLUENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 2,6-DINITROTOLUENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| DIETHYLPHTHALATE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 4-CHLOROPHENYL PHENYL ETH | UG/KG | 5100 | U | 20000 | U | 720 | U |
| FLUORENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 4-NITROANILINE | UG/KG | 12000 | U | 50000 | U | 1700 | U |
| 4,6-DINITRO-2-METHYLPHENO | UG/KG | 12000 | U | 50000 | U | 1700 | U |
| N-NITROSODIPHENYLAMINE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 4-BROMOPHENYL PHENYL ETHE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| HEXACHLOROBENZENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| PENTACHLOROPHENOL | UG/KG | 12000 | U | 50000 | U | 1700 | U |
| PHENANTHRENE | UG/KG | 19000 | | 62000 | | 3200 | J |
| ANTHRACENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| DI-N-BUTYL PHTHALATE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| FLUORANTHENE | UG/KG | 28000 | | 120000 | | 5300 | J |
| PYRENE | UG/KG | 26000 | | 130000 | | 7100 | J |
| BUTYL BENZYL PHTHALATE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| 3,3'-DICHLOROBENZIDINE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| BENZO(A)ANTHRACENE | UG/KG | 15000 | | 63000 | | 2700 | J |
| BIS(2-ETHYLHEXYL)PHTHALAT | UG/KG | 5100 | U | 20000 | U | 1200 | J |
| CHRYSENE | UG/KG | 19000 | | 63000 | | 2600 | J |
| DI-N-OCTYL PHTHALATE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| BENZO(B)FLUORANTHENE | UG/KG | 18000 | | 84000 | J | 3900 | J |
| BENZO(K)FLUORANTHENE | UG/KG | 5100 | U | 23000 | J | 1200 | J |
| BENZO(A)PYRENE | UG/KG | 13000 | | 48000 | J | 2100 | J |
| INDENO(1,2,3-CD)PYRENE | UG/KG | 5400 | | 45000 | J | 3400 | J |
| DIBENZO(A,H)ANTHRACENE | UG/KG | 5100 | U | 20000 | U | 720 | U |
| BENZO(G,H,I)PERYLENE | UG/KG | 5100 | U | 31000 | J | 2100 | J |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: SEMIVOLATILES-1 METHOD: CS0390O
LAB: PNELI MATRIX: SEDIMENT DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8103D | | ISXP8104 | | ISXP8105 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 07/31/91 | |
| | ID # | O#3 A#2 | | O#4 A#17 | | O#5 A#1 | |
| | SMO # | GL369 | | GL370 | | GL371 | |
| PARAMETERS | UNITS | | | | | | |
| PHENOL | UG/KG | 620 | U | 580 | U | 5300 | U |
| CARBAZOLE | UG/KG | 890 | J | 1100 | J | 11000 | |
| BIS(2-CHLOROETHYL) ETHER | UG/KG | 620 | U | 580 | U | 5300 | U |
| 2-CHLOROPHENOL | UG/KG | 620 | U | 580 | U | 5300 | U |
| 1,3-DICHLOROBENZENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| 1,4-DICHLOROBENZENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| BENZYL ALCOHOL | UG/KG | | N | | N | | N |
| 1,2-DICHLOROBENZENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| 2-METHYLPHENOL (O-CRESOL | UG/KG | 620 | U | 580 | U | 5300 | U |
| BIS(2-CHLOROISOPROPYL) ET | UG/KG | | N | | N | | N |
| 4-METHYLPHENOL (P-CRESOL | UG/KG | 620 | U | 580 | U | 5300 | U |
| N-NITROSO-DIPROPYLAMINE | UG/KG | 620 | U | 580 | U | 5300 | U |
| HEXACHLOROETHANE | UG/KG | 620 | U | 580 | U | 5300 | U |
| NITROBENZENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| ISOPHORONE | UG/KG | 620 | U | 580 | U | 5300 | U |
| 2-NITROPHENOL | UG/KG | 620 | U | 580 | U | 5300 | U |
| 2,4-DIMETHYLPHENOL | UG/KG | 620 | U | 580 | U | 5300 | U |
| BENZOIC ACID | UG/KG | | N | | N | | N |
| BIS(2-CHLOROETHYOXY) METH | UG/KG | 620 | U | 580 | U | 5300 | U |
| 2,4-DICHLOROPHENOL | UG/KG | 620 | U | 580 | U | 5300 | U |
| 1,2,4-TRICHLOROBENZENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| NAPHTHALENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| 4-CHLOROANILINE | UG/KG | 620 | U | 580 | U | 5300 | U |
| HEXACHLOROBUTADIENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| 4-CHLORO-3-METHYLPHENOL | UG/KG | 620 | U | 580 | U | 5300 | U |
| 2-METHYLNAPHTHALENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| HEXACHLOROCYCLOPENTADIENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| 2,4,6-TRICHLOROPHENOL | UG/KG | 620 | U | 580 | U | 5300 | U |
| 2,4,5-TRICHLOROPHENOL | UG/KG | 1500 | U | 1400 | U | 13000 | U |
| 2-CHLORONAPHTHALENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| 2-NITROANILINE | UG/KG | 1500 | U | 1400 | U | 13000 | U |
| DIMETHYLPHTHALATE | UG/KG | 620 | U | 580 | U | 5300 | U |
| ACENAPHTHYLENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| 3-NITROANILINE | UG/KG | 1500 | U | 1400 | U | 13000 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: SEMIVOLATILES-2 METHOD: CS03900
LAB: PNELI MATRIX: SEDIMENT DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8103D | | ISXP8104 | | ISXP8105 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 07/31/91 | |
| | ID # | O#3 A#2 | | O#4 A#17 | | O#5 A#1 | |
| | SMO # | GL369 | | GL370 | | GL371 | |
| PARAMETERS | UNITS | | | | | | |
| ACENAPHTHENE | UG/KG | 620 | U | 580 | U | 5400 | |
| 2,4-DINITROPHENOL | UG/KG | 1500 | U | 1400 | U | 13000 | U |
| 4-NITROPHENOL | UG/KG | 1500 | U | 1400 | U | 13000 | U |
| DIBENZOFURAN | UG/KG | 620 | U | 580 | U | 5300 | U |
| 2,4-DINITROTOLUENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| 2,6-DINITROTOLUENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| DIETHYLPHTHALATE | UG/KG | 620 | U | 580 | U | 5300 | U |
| 4-CHLOROPHENYL PHENYL ETH | UG/KG | 620 | U | 580 | U | 5300 | U |
| FLUORENE | UG/KG | 620 | U | 580 | U | 5700 | |
| 4-NITROANILINE | UG/KG | 1500 | U | 1400 | U | 13000 | U |
| 4,6-DINITRO-2-METHYLPHENO | UG/KG | 1500 | U | 1400 | U | 13000 | U |
| N-NITROSODIPHENYLAMINE | UG/KG | 620 | U | 580 | U | 5300 | U |
| 4-BROMOPHENYL PHENYL ETHE | UG/KG | 620 | U | 580 | U | 5300 | U |
| HEXACHLOROBENZENE | UG/KG | 620 | U | 580 | U | 5300 | U |
| PENTACHLOROPHENOL | UG/KG | 1500 | U | 1400 | U | 13000 | U |
| PHENANTHRENE | UG/KG | 2400 | J | 3600 | J | 31000 | |
| ANTHRACENE | UG/KG | 620 | U | 610 | J | 7600 | |
| DI-N-BUTYL PHTHALATE | UG/KG | 620 | U | 580 | U | 5300 | U |
| FLUORANTHENE | UG/KG | 5500 | | 5700 | J | 38000 | |
| PYRENE | UG/KG | 6300 | J | 5400 | J | 40000 | |
| BUTYL BENZYL PHTHALATE | UG/KG | 620 | U | 580 | U | 5300 | U |
| 3,3'-DICHLOROBENZIDINE | UG/KG | 620 | U | 580 | U | 5300 | U |
| BENZO(A)ANTHRACENE | UG/KG | 3000 | J | 2700 | J | 25000 | |
| BIS(2-ETHYLHEXYL)PHTHALAT | UG/KG | 870 | U | 640 | U | 5300 | U |
| CHRYSENE | UG/KG | 2700 | J | 2700 | J | 30000 | |
| DI-N-OCTYL PHTHALATE | UG/KG | 620 | U | 580 | U | 5300 | U |
| BENZO(B)FLUORANTHENE | UG/KG | 4400 | J | 3400 | J | 27000 | |
| BENZO(K)FLUORANTHENE | UG/KG | 1300 | J | 1000 | J | 5300 | U |
| BENZO(A)PYRENE | UG/KG | 2000 | J | 1500 | J | 20000 | |
| INDENO(1,2,3-CD)PYRENE | UG/KG | 3900 | J | 2400 | J | 8200 | |
| DIBENZO(A,H)ANTHRACENE | UG/KG | 750 | J | 580 | U | 5300 | U |
| BENZO(G,H,I)PERYLENE | UG/KG | 1400 | J | 580 | U | 5300 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: VOLATILES METHOD: CS0390O
LAB: PNELI MATRIX: SEDIMENT DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8101 | | ISXP8102 | | ISXP8103 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 07/31/91 | |
| | ID # | O#1 A#43A | | O#2 A#7 | | O#3 A#2 | |
| | SMO # | GL341 | | GL342 | | GL368 | |
| PARAMETERS | UNITS | | | | | | |
| CHLOROMETHANE | UG/KG | 15 | U | 20 | U | 22 | U |
| BROMOMETHANE | UG/KG | 15 | U | 20 | U | 22 | U |
| VINYL CHLORIDE | UG/KG | 880 | | 20 | U | 22 | U |
| CHLOROETHANE | UG/KG | 15 | U | 20 | U | 22 | U |
| METHYLENE CHLORIDE | UG/KG | 15 | U | 20 | U | 22 | U |
| 1,1-DICHLOROETHYLENE | UG/KG | 15 | U | 20 | U | 22 | U |
| 1,1-DICHLOROETHANE | UG/KG | 15 | U | 20 | U | 22 | U |
| TRANS-1,2-DICHLOROETHYLEN | UG/KG | 15 | U | 20 | U | 22 | U |
| CHLOROFORM | UG/KG | 15 | U | 20 | U | 22 | U |
| 1,2-DICHLOROETHANE | UG/KG | 15 | U | 20 | U | 22 | U |
| 1,1,1-TRICHLOROETHANE | UG/KG | 15 | U | 20 | U | 22 | U |
| CARBON TETRACHLORIDE | UG/KG | 15 | U | 20 | U | 22 | U |
| BROMODICHLOROMETHANE | UG/KG | 15 | U | 20 | U | 22 | U |
| 1,2-DICHLOROPROPANE | UG/KG | 15 | U | 20 | U | 22 | U |
| BENZENE | UG/KG | 15 | U | 20 | U | 22 | U |
| TRANS-1,3-DICHLOROPROPENE | UG/KG | 15 | U | 20 | U | 22 | U |
| TRICHLOROETHYLENE | UG/KG | 15 | U | 20 | U | 22 | U |
| CIS-1,3-DICHLOROPROPENE | UG/KG | 15 | U | 20 | U | 22 | U |
| DIBROMOCHLOROMETHANE | UG/KG | 15 | U | 20 | U | 22 | U |
| 1,1,2-TRICHLOROETHANE | UG/KG | 15 | U | 20 | U | 22 | U |
| BROMOFORM | UG/KG | 15 | U | 20 | U | 22 | U |
| 1,1,2,2-TETRACHLOROETHENE | UG/KG | 15 | U | 20 | U | 22 | U |
| TOLUENE | UG/KG | 15 | U | 20 | U | 22 | U |
| 1,1,2,2-TETRACHLOROETHANE | UG/KG | 15 | U | 20 | U | 22 | U |
| CHLOROBENZENE | UG/KG | 15 | U | 20 | U | 22 | U |
| ETHYL BENZENE | UG/KG | 15 | U | 20 | U | 22 | U |
| ACETONE | UG/KG | 17 | U | 66 | U | 22 | U |
| CARBON DISULFIDE | UG/KG | 15 | U | 20 | U | 22 | U |
| 2-BUTANONE | UG/KG | 15 | U | 20 | U | 22 | U |
| VINYL ACETATE | UG/KG | | N | | N | | N |
| 2-HEXANONE | UG/KG | 15 | U | 20 | U | 22 | U |
| 4-METHYL-2-PENTANONE | UG/KG | 15 | U | 20 | U | 22 | U |
| STYRENE | UG/KG | 15 | U | 20 | U | 22 | U |
| XYLENES, TOTAL | UG/KG | 15 | U | 20 | U | 22 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: VOLATILES METHOD: CS03900
LAB: PNELI MATRIX: SEDIMENT DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8103D | | ISXP8104 | | ISXP8105 | |
|---|---|---|---|---|---|---|---|
| | SAMPLED | 07/31/91 | | 07/31/91 | | 07/31/91 | |
| | ID # | O#3 A#2 | | O#4 A#17 | | O#5 A#1 | |
| | SMO # | GL369 | | GL370 | | GL371 | |
| PARAMETERS | UNITS | | | | | | |
| CHLOROMETHANE | UG/KG | 19 | U | 18 | U | 16 | U |
| BROMOMETHANE | UG/KG | 19 | U | 18 | U | 16 | U |
| VINYL CHLORIDE | UG/KG | 19 | U | 18 | U | 16 | U |
| CHLOROETHANE | UG/KG | 19 | U | 18 | U | 16 | U |
| METHYLENE CHLORIDE | UG/KG | 19 | U | 18 | U | 16 | U |
| 1,1-DICHLOROETHYLENE | UG/KG | 19 | U | 18 | U | 16 | U |
| 1,1-DICHLOROETHANE | UG/KG | 19 | U | 18 | U | 16 | U |
| TRANS-1,2-DICHLOROETHYLEN | UG/KG | 19 | U | 18 | U | 16 | U |
| CHLOROFORM | UG/KG | 19 | U | 18 | U | 16 | U |
| 1,2-DICHLOROETHANE | UG/KG | 19 | U | 18 | U | 16 | U |
| 1,1,1-TRICHLOROETHANE | UG/KG | 19 | U | 18 | U | 16 | U |
| CARBON TETRACHLORIDE | UG/KG | 19 | U | 18 | U | 16 | U |
| BROMODICHLOROMETHANE | UG/KG | 19 | U | 18 | U | 16 | U |
| 1,2-DICHLOROPROPANE | UG/KG | 19 | U | 18 | U | 16 | U |
| BENZENE | UG/KG | 19 | U | 18 | U | 16 | U |
| TRANS-1,3-DICHLOROPROPENE | UG/KG | 19 | U | 18 | U | 16 | U |
| TRICHLOROETHYLENE | UG/KG | 19 | U | 18 | U | 16 | U |
| CIS-1,3-DICHLOROPROPENE | UG/KG | 19 | U | 18 | U | 16 | U |
| DIBROMOCHLOROMETHANE | UG/KG | 19 | U | 18 | U | 16 | U |
| 1,1,2-TRICHLOROETHANE | UG/KG | 19 | U | 18 | U | 16 | U |
| BROMOFORM | UG/KG | 19 | U | 18 | U | 16 | U |
| 1,1,2,2-TETRACHLOROETHENE | UG/KG | 19 | U | 18 | U | 16 | U |
| TOLUENE | UG/KG | 19 | U | 18 | U | 16 | U |
| 1,1,2,2-TETRACHLOROETHANE | UG/KG | 19 | U | 18 | U | 16 | U |
| CHLOROBENZENE | UG/KG | 19 | U | 18 | U | 16 | U |
| ETHYL BENZENE | UG/KG | 19 | U | 18 | U | 16 | U |
| ACETONE | UG/KG | 25 | U | 25 | U | 25 | U |
| CARBON DISULFIDE | UG/KG | 19 | U | 18 | U | 16 | U |
| 2-BUTANONE | UG/KG | 19 | U | 18 | U | 16 | U |
| VINYL ACETATE | UG/KG | | N | | N | | N |
| 2-HEXANONE | UG/KG | 19 | U | 18 | U | 16 | U |
| 4-METHYL-2-PENTANONE | UG/KG | 19 | U | 18 | U | 16 | U |
| STYRENE | UG/KG | 19 | U | 18 | U | 16 | U |
| XYLENES, TOTAL | UG/KG | 19 | U | 18 | U | 16 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION

SITE: MISSISSIPPI RIVER POOL # 15

ACTIVITY: ISXP8 ANALYSIS TYPE: VOLATILES METHOD: CS03900
LAB: PNELI MATRIX: SEDIMENT DATA COMPLETED: 10/10/91
CASE: 16873

| | EPA # | ISXP8108F | | |
|---|---|---|---|---|
| | SAMPLED | 08/01/91 | | |
| | ID # | TRIP BLK. | | |
| | SMO # | GL367 | | |
| PARAMETERS | UNITS | | | |
| CHLOROMETHANE | UG/KG | 10 | | U |
| BROMOMETHANE | UG/KG | 10 | | U |
| VINYL CHLORIDE | UG/KG | 10 | | U |
| CHLOROETHANE | UG/KG | 10 | | U |
| METHYLENE CHLORIDE | UG/KG | 10 | | U |
| 1,1-DICHLOROETHYLENE | UG/KG | 10 | | U |
| 1,1-DICHLOROETHANE | UG/KG | 10 | | U |
| TRANS-1,2-DICHLOROETHYLEN | UG/KG | 10 | | U |
| CHLOROFORM | UG/KG | 10 | | U |
| 1,2-DICHLOROETHANE | UG/KG | 10 | | U |
| 1,1,1-TRICHLOROETHANE | UG/KG | 10 | | U |
| CARBON TETRACHLORIDE | UG/KG | 10 | | U |
| BROMODICHLOROMETHANE | UG/KG | 10 | | U |
| 1,2-DICHLOROPROPANE | UG/KG | 10 | | U |
| BENZENE | UG/KG | 10 | | U |
| TRANS-1,3-DICHLOROPROPENE | UG/KG | 10 | | U |
| TRICHLOROETHYLENE | UG/KG | 10 | | U |
| CIS-1,3-DICHLOROPROPENE | UG/KG | 10 | | U |
| DIBROMOCHLOROMETHANE | UG/KG | 10 | | U |
| 1,1,2-TRICHLOROETHANE | UG/KG | 10 | | U |
| BROMOFORM | UG/KG | 10 | | U |
| 1,1,2,2-TETRACHLOROETHENE | UG/KG | 10 | | U |
| TOLUENE | UG/KG | 10 | | U |
| 1,1,2,2-TETRACHLOROETHANE | UG/KG | 10 | | U |
| CHLOROBENZENE | UG/KG | 10 | | U |
| ETHYL BENZENE | UG/KG | 10 | | U |
| ACETONE | UG/KG | 17 | | |
| CARBON DISULFIDE | UG/KG | 10 | | U |
| 2-BUTANONE | UG/KG | 10 | | U |
| VINYL ACETATE | UG/KG | | | N |
| 2-HEXANONE | UG/KG | | 10 | U |
| 4-METHYL-2-PENTANONE | UG/KG | | 10 | U |
| STYRENE | UG/KG | | 10 | U |
| XYLENES, TOTAL | UG/KG | | 10 | U |

* DATA QUALIFIER CODES *

U: LESS THAN DETECTION LIMIT
I: INVALID - NO VALUE REPORTED
J: DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
N: PARAMETER NOT ANALYZED
M: DETECTED BUT BELOW LEVEL FOR ACCURATE QUANTIFICATION