

87901

Site:	MRP15
ID #:	IAD981117161
Break:	3.3
Other:	Jacobs
	10-10-95

**PROJECT NOTE
RIVER SEDIMENT SPLIT SAMPLING EVENT
CONDUCTED FROM SEPTEMBER 26, 1995
TO OCTOBER 3, 1995
MISSISSIPPI RIVER POOL 15
DAVENPORT, IOWA
OCTOBER 10, 1995**

87901



Superfund



JACOBS ENGINEERING GROUP INC.

RECEIVED

OCT 11 1995

SUPERFUND DIV...

**ALTERNATIVE REMEDIAL
CONTRACTING STRATEGY
REGIONS VI, VII, & VIII**

REMEDIAL PLANNING ACTIVITIES

AT

SELECTED UNCONTROLLED HAZARDOUS

SUBSTANCE DISPOSAL SITES

U.S. EPA CONTRACT NO. 68-W8-0122

**IN ASSOCIATION WITH,
TERRACON CONSULTANTS EC, INC.
MCCLELLAND ENGINEERS, INC.**

PROJECT NOTE

PROJECT NUMBER/NAME: 12-D271-00/Mississippi River Pool 15 (MRP15)
RECORDED BY: Bryan Rundell - October 10, 1995
SUBJECT: Field Notes and Photographs For Sediment Split Sampling Event
Conducted At MRP15 From September 26, 1995 to October 3, 1995

This project note documents the field activities conducted during the sediment split sampling event conducted at MRP15 from September 26, 1995 to October 3, 1995. As directed by the EPA, a formal trip report for the sediment split sampling activity was not prepared. Instead, this project note, which is comprised of field notes and site photographs, provides documentation of the sediment split sampling event conducted at MRP15.

PHOTOGRAPHS

SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 1

Date: September 26, 1995
Time: 1015
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: Southeast

Subject: Transect crew preparing to lay transects
Location: Critical Study Area 1D



PHOTOGRAPH NO. 2

Date: September 26, 1995
Time: 1015
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: Northwest

Subject: Confluence of Duck Creek and Mississippi River
Location: Critical Study Area 1D

SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 3

Date: September 26, 1995
Time: 1100
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: West

Subject: Outfall 001
Location: Border of Critical Study Areas 1C/1D



PHOTOGRAPH NO. 4

Date: September 26, 1995
Time: 1620
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: Southwest

Subject: Wetlands near Alcoa Plant River Intake
Location: Border of Critical Study Areas 1C/1B

SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 5

Date: September 26, 1995
Time: 1630
Photographer: Bryan Rundell
Film: 200 ASA
Direction of Photograph: North

Subject: Woodward & Clyde crew using GPS sample locating system
Location: Critical Study Area 1D



PHOTOGRAPH NO. 6

Date: September 27, 1995
Time: 0845
Photographer: Bryan Rundell
Film: 200 ASA
Direction of Photograph: South

Subject: Woodward & Clyde crew deconning sampling equipment
Location: Parking lot at hotel

SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 7

Date: September 27, 1995
Time: 1255
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: West

Subject: Setting sample buoys along Area 1D transect
Location: Critical Study Area 1D

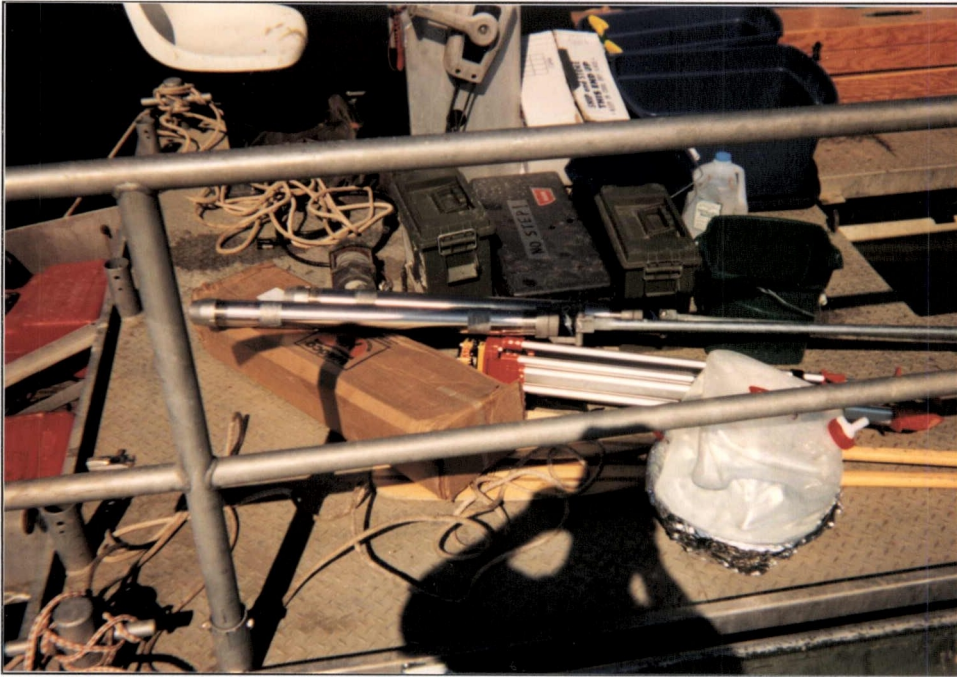


PHOTOGRAPH NO. 8

Date: September 27, 1995
Time: 1320
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: Northwest

Subject: View of barge sampling boat preparing to sample river sediment
Location: Critical Study Area 1D

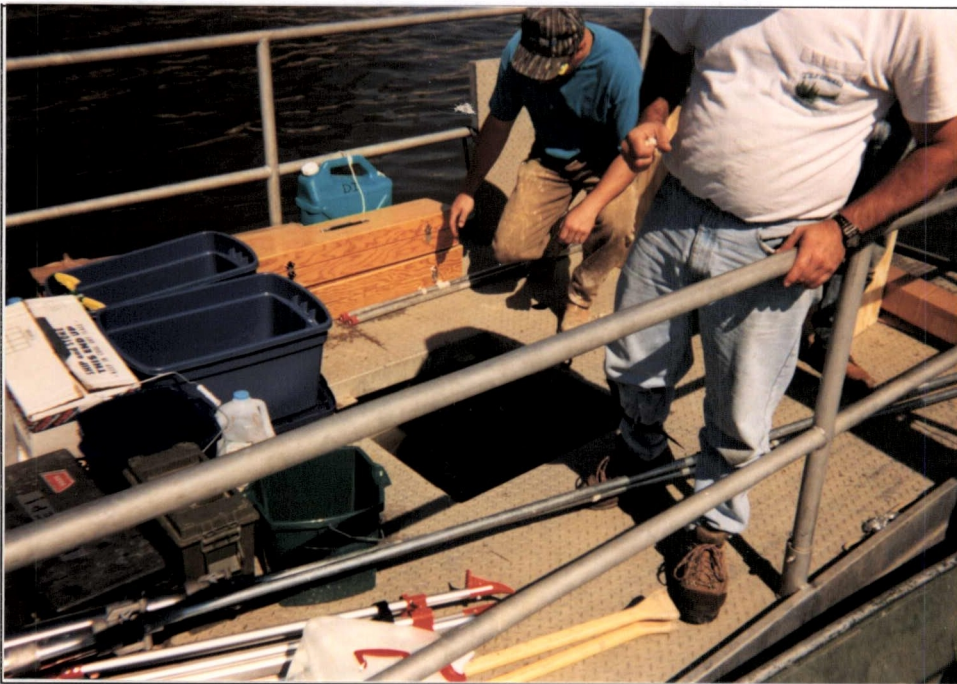
SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 9

Date: September 27, 1995
Time: 1330
Photographer: Bryan Rundell
Film: 200 ASA
Direction of Photograph: West

Subject: Core sampling device for sampling river sediment
Location: Critical Study Area 1D

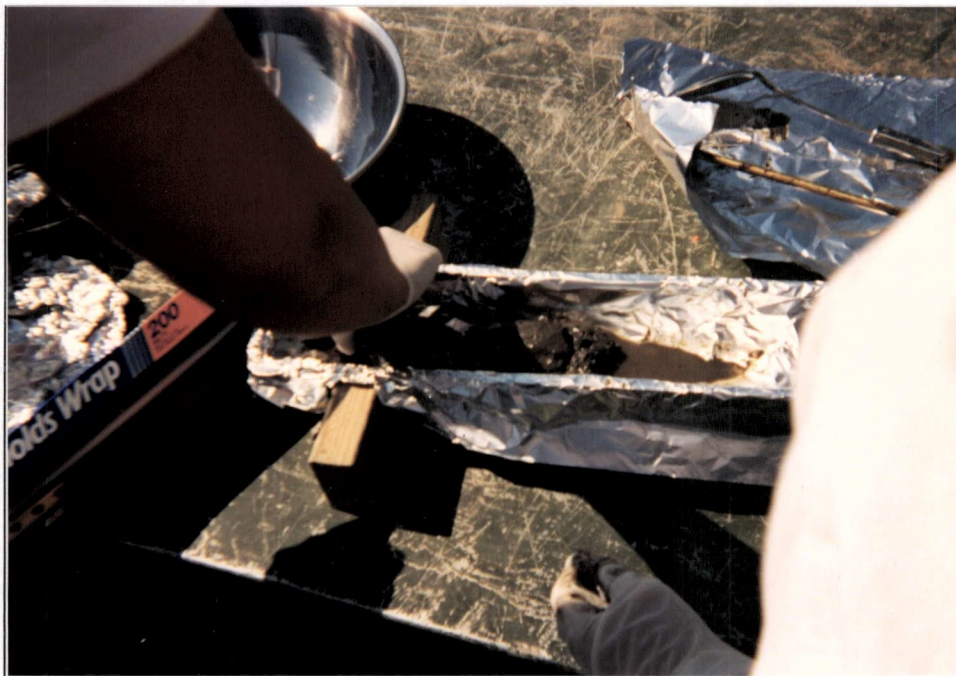


PHOTOGRAPH NO. 10

Date: September 27, 1995
Time: 1332
Photographer: Bryan Rundell
Film: 200 ASA
Direction of Photograph: West

Subject: Close up view of barge sampling boat showing knockout sampling port
Location: Critical Study Area 1D

SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 11

Date: September 27, 1995
Time: 1348
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: Southwest

Subject: View of sediment sample collected along Transect 49, Area 1D
Location: Critical Study Area 1D



PHOTOGRAPH NO. 12

Date: September 27, 1995
Time: 1515
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: West

Subject: View of Ponar Grab Sampler for collecting large sample volume
Location: Critical Study Area 1D

SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 13

Date: September 27, 1995
Time: 1550
Photographer: Bryan Rundell
Film: 200 ASA
Direction of Photograph: Northeast

Subject: Abandoned Mooring Circle along Transect 48 in Area 1D
Location: Critical Study Area 1D



PHOTOGRAPH NO. 14

Date: September 28, 1995
Time: 1110
Photographer: Bryan Rundell
Film: 200 ASA
Direction of Photograph: Down

Subject: Three Ridge Mussels collected with Ponar Grab Sampler
Location: Critical Study Area 1D

SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 15

Date: September 28, 1995
Time: 1340
Photographer: Bryan Rundell
Film: 200 ASA
Direction of Photograph: East

Subject: View of sampling crew sampling in mud flats area along Transect 45, Area 1D
Location: Critical Study Area 1D



PHOTOGRAPH NO. 16

Date: September 28, 1995
Time: 1530
Photographer: Bryan Rundell
Film: 200 ASA
Direction of Photograph: Southeast

Subject: Sampling crew setting up GPS basepoint at area of known latitude and longitude near Alcoa River Intake
Location: Boundary of Critical Study Areas 1C/1B

SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 17

Date: September 28, 1995
Time: 1532
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: Northwest

Subject: First in a series of photos showing Alcoa Facility along the Alcoa River Intake
Location: Boundary of Critical Study Areas 1C/1D



PHOTOGRAPH NO. 18

Date: September 28, 1995
Time: 1532
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: Northwest

Subject: Second in a series of photos showing Alcoa Facility along the Alcoa River Intake
Location: Boundary of Critical Study Areas 1C/1B

SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 19

Date: September 28, 1995
Time: 1532
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: West

Subject: Third in a series of photos showing Alcoa Facility along the Alcoa River Intake
Location: Boundary of Critical Study Areas 1C/1B



PHOTOGRAPH NO. 20

Date: September 28, 1995
Time: 1532
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: North

Subject: Last in a series of photos showing Alcoa Facility along the Alcoa River Intake
Location: Boundary of Critical Study Areas 1C/1B

SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 21

Date: September 29, 1995
Time: 1550
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: West

Subject: Taking GPS measurements at sediment sampling locations in Area 1D
Location: Critical Study Area 1D



PHOTOGRAPH NO. 22

Date: October 1, 1995
Time: 1135
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: West

Subject: Outfall 002
Location: Critical Study Area 1C

SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 23

Date: October 2, 1995
Time: 1130
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: West

Subject: Outfall 004
Location: Critical Study Area 1C



PHOTOGRAPH NO. 24

Date: October 2, 1995
Time: 1250
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: West

Subject: Outfall 005
Location: Critical Study Area 1C

SITE NAME: MISSISSIPPI RIVER POOL 15



PHOTOGRAPH NO. 25

Date: October 2, 1995
Time: 1330
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: Northwest

Subject: Outfall 006
Location: Boundary of Critical Study Areas 1B/1A



PHOTOGRAPH NO. 26

Date: October 2, 1995
Time: 1600
Photographer: Bryan Rundell
Film: 200 ASA
Direction of
Photograph: North

Subject: Woodward & Clyde sampler collecting sediment sample in shallow water in Area 1C
Location: Critical Study Area 1C

FIELD NOTES

0845 Arrive at Courtyard Marriott to talk to Todd Hunt about activities planned for day. Todd Hunt indicates that one crew will lay transects at Area 1D and the second crew will finish water sampling. Sediment sampling will not start until tomorrow.

0900 Return to Van to label sample jars

1000 Head out with transect crew to lay Area 1D transects

Transect Crew

Jacobs EPA Oversight: Bryan Rudell

Woodward + Clyde: Tracy Thompson

Sampling/Transect Area Team

Team Don Spiras

Weather: Clear Sunny 60° F

Purpose: To lay transects along Area 1D to locate sediment sampling locations

1015 Frame 1 Roll 1 / Transect Crew preparing to lay transects along Area 1D
Direction Southeast

1015 Frame 2 Roll 1 / View of Duck Creek
Direction Northwest

1100 Finishing setting 4th transect downstream of Duck Creek

1130 Finish setting transects south of Duck Creek. Head up to outfall #1 and start setting transects downstream from outfall #1.

1130 Frame 3 Roll 2 / View of Outfall #1
Direction West

1230 Head to Dock for break.

Bryan Rudell 9/26/95

Byron Lundell 9/26/95

1245 Head back to hotel to call Jim Colbert and label all sampling jars and setup sampling paperwork

1300 Head to lunch

1400 Arrive at hotel to call Jim Colbert to update status

Jim Colbert 913-551-7489

Indicate to Jim Colbert that sampling will start tomorrow for sediments in Area 1a. Jim Colbert indicates that in order to prepare an ASR Form and start lab preparation for second round of split samples he would like me (Byron Lundell) to call tomorrow for an estimate of how many split samples can be collected in one day.

1430 Head back out to Illinois boat dock to see if Transect Crew has returned.

1500 Arrive at Illinois dock

1545 Transect crew arrives, they are getting gas and will head back out to perform GPS tracking

1600 Head back out. Transect crew is the same with the addition of QA/QC checker Mark Goodrich. Take first reading at water intake point.

1620 Wetland area near water intake point Frame 4 Roll 1 Facing Southwest

1630 Frame 5 Roll 1 / Deer Spins using GPS sample tracking system Facing North, location is 7D-15.

1700 Finish setting transects and GPS tracking head back to boat dock

Byron Lundell 9/26/95

1730 Arrive

1745 Home

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Byrnedell 4/26/95

Time 1730 arrive at boat docks, unload boat
1745 Head back to hotel.

work Days Summary: Transect crew finished labeling transects at Area 2-D. Sampling crew for surface water continued surface water sampling. Sediment sampling will begin tomorrow.

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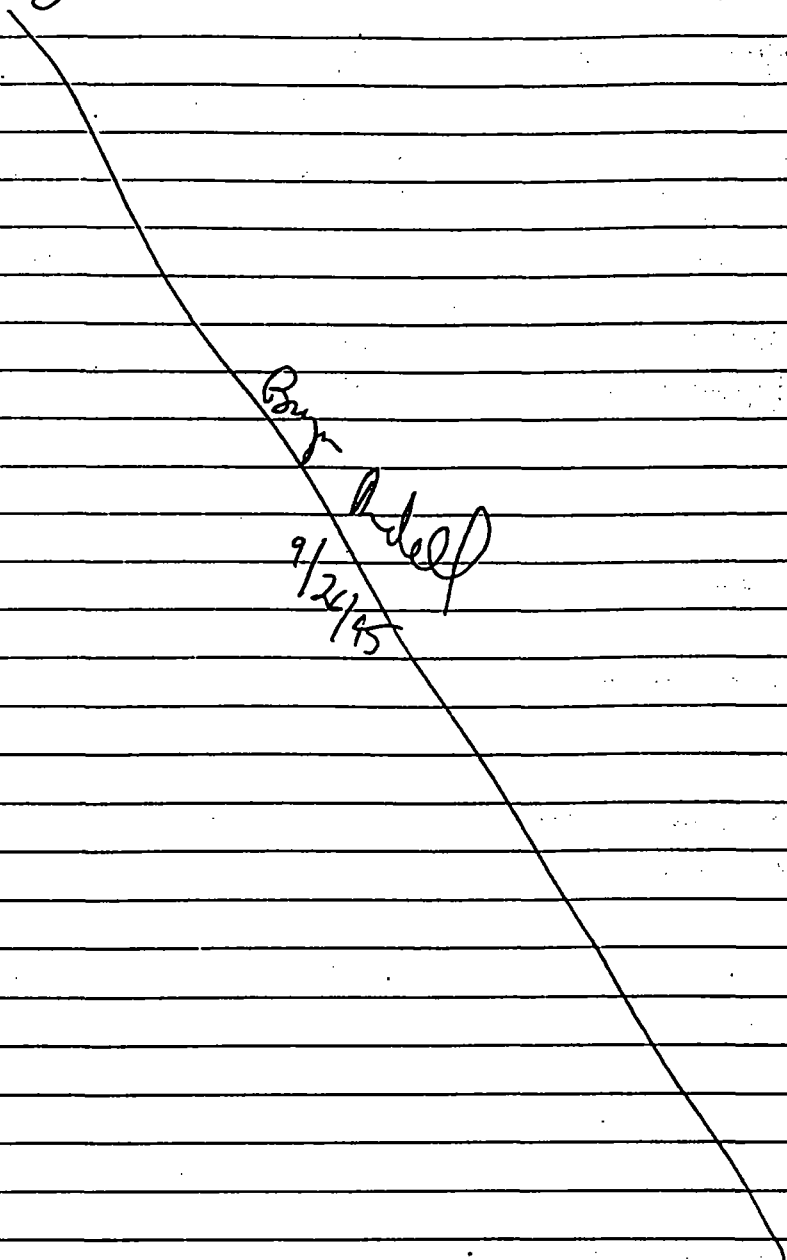
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4/26/95



Bryan Rueloff 9/27/95

0700 Arrive at hotel. Crew still finishing breakfast at Marriott Restaurant

0730 Crew finishes breakfast and begins loading boats.

0750 Speak with Tracy Thompson. Don Spivey is sick and water sampling crew is start some sampling bottles. To keep both boats busy both crews will sediment sample today

0830 Decor crew, Tracy Thompson and Liza Teer begin decor of sediment sampling equipment in Marriott parking lot.

0845 Frame 6 Roll 2 / Decor crew cleaning sampling equipment. Facing South

1030 Crew has finally got equipment ready. Sediment sampling crew will consist of two boats

Transsect Crew ~~OR~~ Sediment Sampling Crew:

Jacobs EPA Oversight: Bryan Rueloff

Woodward + Clyde: Todd Hunt

Tracy Thompson

Liza Teer

Jim Rayburn

Barry Lutz

Weather: Clear, Sunny, 70°F

Purpose: To collect sediment samples at MREIS in Critical Study Area 2. Sediment sampling will begin at Area 2.D and continue upstream. EPA split samples will also be collected.

Bryan Rueloff 9/27/95

1130 Crew

fillin

1200 Take

1240 Head

1255 Frame

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Byrn Adell 9/27/75

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vs 2D end

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1130 Crew has launched barge boat at Illinois side boat launch.

1200 Take lunch break.

1240 Head over to Area 1 D.

1255 Frame 7 Roll 2 / Sample ^{BOR} Buoys Buoys marking sampling locations along Area 1 D transect / Facing west

1320 Frame 8 Roll 2 / Barge sampling boat / Facing northwest

1330 Frame 9 Roll 2 / Core Sampling Device / Facing west

1332 Sampling barge showing knockout hole for sediment sampling / Frame 10 Roll 2 / Facing West

1348 Sediment Sample at Transect 49, which is split sampling location at Area 1-D / Frame 11 Roll 2 / Facing Southwest
Sediment depth is about 9-10 inches distance from shore 125 feet

1415 To fill all of the sample jars it takes more than 5 core samples at locations that also require a split sample.

1430 Finish sample collection. Sample numbering scheme is as follows
Area 1 D / Transect 49 / Interval 125 feet from shore / depth 0" - 6"

Metals (5-IS2P8-101)

PCBs (5-IS2P8-115)

Sed
VOAs (5-IS2P8-123)

PAH's by HPLC (5-IS2P8-131)

For same location Woodward-Clyde

Sample numbers one, next page on label starts

Boyer Kell 9/27/95

SL^{BOX} SO14g-01D-R125

→ This is Woodward-Clyde sample number for split sample on previous page.

1500 Move to 0'-25' interval on transect 49 area 2D. Due to shallow sediment depth only the 0"-6" sample will be collected.

1515 Frame 12 Roll 2 / Ponar Grab sampler for collecting large sample volume / Facing West

1545 Move closer to shore, first sampling location did not have any sediment probably because it was behind a mooring circle that was abandoned about 25 feet from shore.

1550 Frame 13 Roll 2 / Mooring circle 25 feet from shore in Area 2D along transect 48 / Facing Northeast

1602 Head over to Alcoa intakes to setup GPS reference unit. The GPS reference point is at the Alcoa Mississippi River intake location.

1645 Finish taking GPS readings. Head back to boat dock.

1720 Head for hotel.

Days summary: Begin collecting soil^{BOX} sediment samples along transects in Area I-D. A total of four separate sediment sampling locations were sampled. An EPA split sample was collected at transect 49 in Area I-D

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After two
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logbook. I
and Clyde
on page 1
planned to
additional
Study Area

127/95

Byrd Rudell 9/27/95

7

125

approximately 125 feet from shore
at a sediment depth of 0"-6".

The EPA split sample will be
analysed for total metals, PCB,
PAH's by HPLC, and semi-volatiles.

After two days of field oversight
a total of 13 photographs have
been taken documenting sampling
activities. The split sample numbers
are included on page 5 of this
logbook. The corresponding Woodward
and Clyde sample number is included
on page 6 of this logbook. Activities
planned for tomorrow include collecting
additional sediment samples in Critical
Study Area 7.

sample
on previous

1 on transect 49
new sediment
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Grab sampler
sample volume /

First sampling
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ing circle
to Area I-D
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to setup GPS
reference point
Mississippi River intake

notings: Hood back

collecting soil ^{BOX}
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Four separate
itions were
plit sample was
49 in Area I-D

~~Byrd Rudell
9/27/95~~

9/28/95 Bryn Rindell

0700 Called Jim Colbert. Based on a phone conversation with Jim Colbert on 9/27/95 at approximately 6:00 P.M. (1800 hours) the EPA would not shut down during the week of October 1, 1995 due to a resolution in the budget dispute. However, today it appears that Congress still needs to approve the resolution by vote. Therefore, it is unclear if the sediment samples will have to be delivered to the EPA by 10:00 A.M. on Friday September 29, 1995. If the resolution is approved Bryn Rindell will stay and collect all of the split samples in Critical Study Area 2. If not Bryn Rindell will instruct Woodward and Clyde personnel on how to fill out paperwork for remaining split samples and Bryn Rindell will deliver what samples⁸⁰² split samples have been collected by the end of the day on September 28, 1995 to the EPA lab on Friday morning September 29, 1995. Bryn Rindell will call Jim Colbert back later today to verify if resolution is passed. Jim Colbert's home phone number is 913-451-6206.

0745 Arrive at Marriott parking lot. Woodward and Clyde employees have not shown up yet.

0830 Everyone has shown up. Two individuals from Woodward and Clyde's Crew one
Bryn Rindell 9/28/95

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 at 6:00 P.M.
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 on Friday
 resolution
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 ing September
 will call Jim
 to verify if
 Colbert's home
 451-206.
 lot, Woodward
 are not shown
 p. Two individuals
 crew one
 9/29/95

How sick. Both Don Spines and
 and Jim Rayburn are sick. The
 sediment sampling crew will be
 as follows:
 EPA Oversight: Bryan Rundle
 Woodward Clyde: Todd Hunt
 Tracy Thompson
 Barry Long
 Liza Teel
 Weather Clear, Sunny: 70°F
 Purpose: To collect sediment samples
 at Critical Study Area 2. Sediment
 sampling will continue at Area 10
 and continue upstream.
 1000 arrive at sediment sampling location
 transect S2. No EPA split samples
 at this location. First location has
 no sediment. Move in towards shore.
 1020 Second location has sediment
 1045 Finish collecting sample, move to
 next sampling location at transect S1.
 1105 Collect sediment sample at transect S1 or
 Woodward Clyde transect 10-16. Also
 collected a mussel in Ponar Sampler
 at this location. Common name is
 3 ridges
 1110 Frame 14 / Roll 2 / 3 ridge mussel /
 Facing Down
 1120 Sediment sampling locations BOR 50 or
 Woodward and Clyde location 10-15
 began sample collection
 1200 Finish sample collection at transect
 50, move to transect 47 or Woodward
 Bryan Rundle 9/29/95

Bryon Kell 9/28/95

- and Clyde transect 90-12. Sampling location is next to shore near mouth of Duke Creek. 1445
- 1215 Finish Sample at 20-12. Move over to samples along Duke Creek. Crew will take a 15 minute break here. Sampling will continue at Duck Creek. 1500
- 1258 Begin sampling at Duck Creek location this sampling location is not a transect.
- 1305 Sampling in Duck Creek is mostly sand. The sampling crew had to use the Ponar sampler, because sample is sandy and slides out of the end of the sampler.
- 1320 Finish Duck Creek Sample, move over to transect²⁰⁰² 11 or 46 using EPA transect designation. Most of the sampling area here is mudflats and will require sampling by foot in the mud. 1515
1530
- 1340 Frame 15 Roll 1/ Sampling in mud flat at transect 46, Area T-0/ Facing east. 1532
- 1400 Finish sampling at transect 46 in the mudflats. Since there are ^{only} three sampling points at transect 45 and it is past 1400 this will probably be the last transect (45). Woodward and Clyde needs to ship out gut samples and collect an equipment rinse sample. 1600
1630
1730
- 1430 Samples begin at transect 45.
Bryon Kell 9/28/95

12. Sampling
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 Creek location
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 mostly sand.
 use the
 sample 15
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 15 oct (45).
 to ship out
 equipment
 sect 45.
 9/28/95

1445 Try to call Jim Colbert on cellular
 phone. No ^{BOB} Jim Colbert is not
 there will leave a message.
 1500 Try to call Jim Colbert again. Jim
 Colbert is not there. Will call him
 later at home if he did leave a
 message at the hotel. Woodward and
 Clyde crew finish collecting
 sediment samples at transect 45.
 The crew will stop collecting
 samples today so they can
 collect invertebrate samples and
 ship two days of soil samples to
 off-site laboratory. Crew also needs
 to perform GPS sample orientation
 on all sample locations collected
 today prior to landing area.
 1515 Head to Alcoa intake to set GPS basepoint
 1530 Frame 16/Roll 2/GPS basepoint at
 known latitude and longitude, Corp of
 Engineers Benchmark/Facing Southeast
 1532 4 Frames 17, 18, 19, 20; Roll 2/Views
 of Alcoa Facing Northwest, the
 photos lined up show the entire
 facility / Facing Northwest
 1600 Finish taking GPS readings
 1630 Head to boat dock
 1730 Call hotel and find that Jim Colbert
 has left a message that Bryan Ruffell
 should stay tonight and then give
 Jim Colbert a call in the morning.
 Site Summary for Day: Collected
 a total of nine sediment samples.

Bryan Lundell 9/25/95

Since the river is down it was difficult to sample in the mud flats area. The last camera frame was No. 20. No EPA split samples were collected today. Sediment sampling along transect Area 1 D will continue tomorrow.

Bryan Lundell
9/25/95

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Area 1-D

0800 Call Jim Colbert. It is not
definite that the consent resolution
has been passed but it is almost
certain that it will be passed. Jim
Colbert would like Bryan Russell to
stay, but call Jacobs office to confirm
Jacobs Policy.

0830 Call Jacobs office and speak with
Jim Skirdulis. Jim Skirdulis indicates
that it is alright to stay.

0900 arrive at Moline boat dock

0930 Woodward + Clyde crew arrives

Sampling crew today:

EPA Oversight: Bryan Russell

Woodward + Clyde: Todd Hunt

Don Spires

Barry Long

Tracy Thompson

Liz Teer

Weather: Cloudy, 60° F

Purpose: To collect sediment samples
at Area 1-D and Area 1-C if time
permits

1000 At Transect 43 there is no sediment.
This was to be an EPA split sample
so the EPA split sample will be moved
to Transect 44.

1037 Move to Transect 44. There is sediment
at this location so the EPA split
sample will be collected here.

Sample is Area 1-D / Transect 44 / 100 feet
sample from 6" to 12". EPA sample

numbers are on following page

Bryan Russell 9/29/95

Byron Kuchell 9/29/95

- Total Metals (5-IS2P8-102)
 PCBs (5-IS2P8-116)
 Semi-volatiles (5-IS2P8-124)
 PAHs (5-IS2P8-132)
- For Same Location Woodward + Clyde
 Sample number is 5009b-010-R100
- 1045 Finish collecting EPA split sample.
 1100 Move to transect 42. No sample
 here because no sediment very
 rocky just like transect 43.
 1110 Move to transect 41. At 125 feet
 no sediment, all rock just like
 transects 42 and 43. No sediment at
 other locations along transect 41.
 Will move to next transects.
 1130 Move to transect 40. No sediment at
 100 foot interval at transect 40.
 1140 No sediment at any location along
 transect 40. Still very rock with
 fast current so no sediment deposition.
 1145 No sediment along transect 39. Move
 to transect 38.
 1150 There is sediment at transect 38.
 Woodward collects sample at shoreline
 along transect 38.
 1225 Transect 37 collected sediment
 sample at shoreline.
 1240 Woodward and Clyde crew decides to
 collect a discretionary sample
 between transects 39 and 38
 near Mooring Rings where a
 pipeline underwater extends to
 an abandoned Mooring Ring. Here

Byron Kuchell 9/29/95

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it is expected that sediment
will accumulate
1300 Take lunch break
1330 Finish lunch break. Move to transect
36. This is an EPA split sample
location. It is also going to be
an MS/MSD (Matrix Spike / Matrix
Spike Duplicate Location). EPA sample
numbers:
Total Mercury (5-152P8-108)
Total Cyanide (5-152P8-111)
Amenable Cyanide (5-152P8-111)
and MS/MSD samples
Total Mercury MS/MSD (5-152P8-108-MS/MSD)
Total Cyanide (5-152P8-111-MS/MSD)
Amenable Cyanide (5-152P8-111-MS/MSD)
1405 Begin collection of EPA Split Sample.
Sample location is Area 20 / Transect 36/
0-25 feet / 0"-6". Sample number is
included in 1330 entry above. Woodward
and Clyde corresponding sampling
number is 50019-010-R00
1430 Finish collecting split sample. Woodward
and Clyde will only take samples from
one more transect and then perform
GPS sample location on ³⁰² main
sample locations collected today.
1500 Woodward + Clyde takes sediment
sample at transect 35. Barry Long
and Tracy Thompson of Woodward
and Clyde crew split from sampling
team to take GPS reading on previous
sampling locations. Boyer-Ludell 9/29/95

Boyn Lundell 9/29/95

1540 Continue taking GPS readings.

1558 Frame 21 Roll 1 / View of GPS measurement / Facing west

1630 Finish GPS measurements

1700 Head for the hotel

Days Summary: Collected two EPA split samples and finished sediment sampling in Area 20. Many of the sampling areas between transect 42 and 38 had no sediment due to fast current. Reached Frame 21 on Roll 1. Sediment sampling along area 1-C will continue tomorrow.

~~Boyn Lundell
9/29/95~~

0900

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Ann R. Hill 9/30/95 17

0900 arrive at boat dock. It is extremely windy and will be difficult to sample because the river is very rough. Sampling crew today:

EPA oversight: Bryan Rundell

Woodward + Clyde: Todd Hunt

1179 Peer

Jimmy Rayburn

Barry Lutz

Tracy Thompson

Don Spive

Don Spive will spend the morning making new anchors for the mussel survey with cement and cinder blocks, the rest of the crew starts sediment sampling.

1000 Start sampling at transect 34, in Area 1 C.

1030 Finish sampling at transect 34, move to transect 33 it is starting to rain hard

1100 Finish obtaining samples at transect 33 but it is raining harder and has started to lightning. Will leave river and finish processing samples back at hotel. Reach boat dock BDR

1115 Leave boat dock. It is raining even harder

1125 Leave river, head back to hotel

1200 back hotel, will take shower and dry off and then process samples.

1220 arrive at Courtyard Marriott with Woodward + Clyde employees to

Ann R. Hill 9/30/95

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to fast
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in area
crow.

Byron Rundell 9/30/95

process samples. EPA split sample
at Transect 33/Area 2C / 75 feet
out/depth 6" - 24". EPA sample
number:

Total Mercury (5-IS2P8-109)

Total Cyanide (5-IS2P8-112)

Amenable Cyanide (5-IS2P8-112)

Woodward + Clyde corresponding
sample number for EPA split sample:

S046-02C-R75

1230 Will complete sample paperwork
for today. Due to weather conditions
it is unlikely that any more sampling
will be conducted today.

1400 Still finishing paperwork.

1500 Finish sample paperwork and packing.

Days Summary:

One EPA split sample collected at
Transect 33/Area 2C / 75 feet from
shore/depth 6" - 24". Due to poor
weather sampling activities were
terminated early. The rest of the
day was spent processing samples
and filling out paperwork. No photographs
were taken.

~~Byron Rundell
9/30/95~~

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Bryan Rindell 10/1/95

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17 Sample
75 feet
sample

1015 arrive at boat dock. Woodward + Clyde crew has not arrived yet.

1110 Woodward + Clyde and crew arrives. It is sunny, but extremely windy. The water is very rough sampling will be difficult. Sampling crew today:

EPA oversight: Bryan Rindell

Woodward + Clyde: Todd Hunt

Jim Rayburn

Berry Long

Don Spire's

Tracy Thompson

Liza Teer

1130 arrive at Transect 33, to finish sampling from yesterday.

1135 Frame 22 Roll 1 / Outfall # 2 / Facing West

1225 Finish Transect 33, move on to Transect 32 and discretionary samples at the mouths of outfall # 2 and just downstream of outfall # 2.

1245 Finish discretionary samples. Don Spire's is going to go into town to get more supplies so the second boat heads off to Moline Boat Dock to drop Don Spire's off. The barge boat moves down to Transect 31.

1300 Begin sampling at Transect 31. This is an EPA split sample location at Area 2C / Transect 31 / 0ft from shore line / 0"-6" deep. EPA Sample number is on following page per Rindell notes.

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08-112)

5-112)

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No photographs

Boyan Kull 10/1/95

EPA Split Sample:

Total Metals (5-IS2P8-103)

PCB's (5-IS2P8-117)

Semi-volatiles (5-IS2P8-125)

PAHS BY HPLC (5-IS2P8-133)

Corresponding Woodward + Clyde

Sample Number: 5012a-01C-000

1330 Finish collecting EPA split sample at transect 31.

1400 Move off transect 31. Woodward + Clyde crew will perform GPS positioning for all previous sampling locations collected today

1410 Head to Alcoa intake to set up GPS basepoint.

1430 There is currently not enough satellites for GPS. Will have to try later.

1500 Will lay out new transects, while second crew goes to pickup our Spines at Illinois Boat Dock.

1520 Barge boat returns. Our Spines is still in tower. GPS is now working so after taking a short lunch break the crew will start sampling at transect 29.

1545 Finish setting buoys at transect 29. Begin sampling at transect 29. All sampling locations except the 125 feet from shore location had sediment

1615 Move to transect 28 in Area 1-C

1620 Begin sampling at transect 28

Boyan Kull 10/1/95

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 10/1/95

1930 At the 75 foot interval from
 no sediment. After moving in
 at about 10 feet from shore
 there was enough sediment to
 collect a sample.

1935 Finish sampling at Transect 28. Move
 to Transect 27.

1700 No sediment at sampling location
 Transect 27. Will quit sampling for
 the day and perform GPS sample
 locations on all previous sampling locations
 for the day.

1725 GPS sample tracking system still not
 working

1730 Head back to hotel to finish
 processing paper work

1900 Finish sample processing paperwork

Days Summary:

One EPA split sample collected at
 Transect 31 / Area 2C / 0 ft from shoreline
 0"-6" deep. One photograph Frame 22/Roll
 1 was taken. Sampling will continue
 in Area 2C and possibly 28 tomorrow.
 Mussel survey ^{was} ~~was~~ will also start
 tomorrow

~~Bryan Ruedell~~

~~10/1/95~~

10/2/95 Bryan Rindell

0900 Arrive at the site, Woodward + Clyde has not arrived yet.

0850 Finally contact Jim Colbert and Jim Colbert agrees that it is alright to collect all of the split samples today even if the samples are out of order.

Because of the large distance between sampling locations and the size of the Mississippi River making upstream or downstream should not affect the sediment sampling locations.

1045 Woodward + Clyde sampling crew finally arrives.

1120 ~~Travel~~ over to sampling location Area 2-C / Transect 23 / 75 feet from shore 0"-6". This is an EPA split sample location. Sample crew:

EPA Oversight: Bryan Rindell

Woodward + Clyde: Todd Hunt

Tracy Thompson

Liz Fee

Barry Long

Jim Ragnburn

Purpose: To collect remaining EPA split sample locations along transects area 2C and Area 2B

Weather: Sunny, calm, 70° F

1130 Frame 23 / Roll 2 / Outfall No. 4 / Facing west. EPA split sample numbers

Total Metals (5-15208-104) 802

Total Mercury (5-15208-110)

Total Cyanide (5-15208-113)

Amenable Cyanide (5-15208-113)

Bryan Rindell 10/2/95

1200

1205

1250

1320

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R. L. Ladd

10/2/75 Bayou Laddell

Woodward + Clyde
and Jim
right to
plus today
out of order.
between
size of
upstream
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crew
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feet from
EPA split sample

Corresponding Woodward + Clyde
Sample No. 5005a - OIC - R75
Begin collecting EPA split sample
1200 Finish collecting samples at
Area 1-C / Transect 23 / 75 feet from
shore 0"-6"
1205 Sampling crew begins sampling at
Transect 2 / Area 2-C / 0 feet from shore / 6"-12"
This is an EPA split sample location and
a duplicate sample location. EPA split
Sample numbers:
Total Metals (5-152P8-100)
Total Metals Dup. (5-152P8-100-D)
PCBs (5-152P8-114)
PCBs Dup. (5-152P8-114-D)
Semi-Volatiles (5-152P8-122)
Semi-Volatiles Dup. (5-152P8-122-D)
PAH's By HPLC (5-152P8-130)
PAH's By HPLC Dup. (5-152P8-130-D)

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1250 Frame 24 Roll 1 / Outfall No. 5 / Facing
West. Sampling crew finishing collecting
sample. Corresponding Woodward + Clyde
sampling crew sample No. 5003b - OIC - R00
1320 Move to Transect 7 / Area 2B / 0ft from
0"-6". This is an EPA split sample
location and will also be a matrix
spike duplicate. EPA Sample No.
Total Metals (5-152P8-104)
Total Metals MS/MSD (5-152P8-104-MS/MSD)
PCBs (5-152P8-118)
PCBs MS/MSD (5-152P8-118-MS/MSD)
Semi-Volatiles (5-152P8-126)
Semi-Volatiles MS/MSD (5-152P8-126-MS/MSD)

70° F
No. 4 / Facing
bers
=104) BOR
10)
13)
113)
R. L. Ladd 10/2/75

R. L. Ladd 10/2/75

Bryan Kurell 10/2/95

- PAHs by HPLC (S-IS208-134)
 PAHs by HPLC MS/MSD (S-IS208-134-MS/MSD)
 1330 Finish collecting EPA split sample.
 Frame 25 Roff 2 / Outfall No. 6 / Facing
 Northwest. Woodward-Clyde
 corresponding sample number
 S001a-01B-R00 ^{11 ROR}
 1400 Move to Transect 23 / Area 2B / 0 ft
 from shore / 0" - 6". This is an
 EPA split sample location. However,
 the original sample location at 100
 feet from shore, but there was
 no sediment so the split will be
 taken at the shoreline. EPA split
 sample location number:
 Total Metals (S-IS208-105)
 PCBs (S-IS208-119)
 Semivolatiles (S-IS208-127)
 PAH's by HPLC (S-IS208-135)
 1410 Finish collecting EPA split sample.
 Corresponding Woodward + Clyde
 Sample No. S005a-01B-R00
 1420 Begin Paperwork while Woodward +
 Clyde sampling crew moves to
 transect 26 PCB
 1435 Crew finishes transect 26 and starts
 GPS survey on previous sampling
 locations
 1530 Crew still taking GPS readings,
 also still finishing paperwork
 1540 Crew finishes GPS work. Sampling crew
 will collect samples along area near
 transect / Transect 25 ^{in Area 2C at}
 Bryan Kurell 10/2/95

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Area 2C at
10/2/95

three sampling locations / 25 / 75 / and 125
feet from shore.

1600 Frame 26 / Roll 1 / Woodward + Clyde
Sampler collecting sediment sample at
Transect 25, Area 2C / Facing North

1630 Finish sampling at Transect 25, head
to Boat Dock.

1645 Start sample packing and paperwork
that could not be completed on the
boat.

1730 Finish sample packing and paperwork,
head for home.

Days Summary: Collected 4 EPA
split samples to complete split sample
collection. Matrix spike and matrix
spike duplicate samples were collected
for Total Metals, PCB's, Semi-Volatiles,
and PAH's by HPLC. A sample duplicate
was also collected at transect 26.4
photographs were taken to complete
Roll 1. EPA split samples were
collected at Transect 23 / Area 2C / 75 feet /
0'-6", Transect 21 / Area 2C / 0 feet from
shore / 6"-12", Transect 7 / Area 2B / 0 ft from
shore / 0'-6", and Transect 11 / Area 2B / 0 ft
from shore / 6'-6". Left site to return
to Kansas City

~~Bryan Lundell~~

~~10/2/95~~

10/3/95 Ryan Ludell

1000 Finish sample preparation by sealing coolers and adding new ice prior to sample delivery to EPA laboratory.

1200 Arrive at EPA Laboratory. Met Nicole Roblez to check in samples

1245 Finish sample checkout, Nicole Roblez has signed chain of custody. Leave EPA laboratory. This is the last log entry for the sediment sampling activity at MRP-15 for the time period 9/26/95-10/3/95. All EPA split samples were collected and delivered to the EPA laboratory.

Ryan Ludell
10/3/95