

**APPENDIX A:**

**FIELD LOG, CHAIN OF CUSTODY SHEETS, PHOTO LOG**

NJMC MERI Laboratory CHAIN OF CUSTODY

Project: Ecorisk

Collector: ABB

<u>Sample #</u>	<u>Location</u>	<u>Sample Date:</u>	<u>Description</u>	<u>Parameter</u>	<u>Analyst</u>	<u>Preservative</u>
78204	Riverbend	9/15/03 Start: 1142 Stop: 1145	RM SD 01	Grain Size TOC % Moisture Heavy Metals	YL	4C
78205	Riverbend	9/15/03 Start 1256 Stop 1311	RM SD 02	Grain Size TOC % Moisture Heavy Metals	YL	4C

Custody Transferred By: Al M Date 9/15/03 1635  
 Custody Relinquished To: A. Brett Jones Date 9/15/03 1635

Custody Transferred By: \_\_\_\_\_ Date \_\_\_\_\_ Custody Relinquished To: \_\_\_\_\_ Date \_\_\_\_\_

NJMC MERI Laboratory CHAIN OF CUSTODY

Project: Ecorisk

Collector: ABB

<u>Sample #</u>	<u>Location</u>	<u>Sample Date:</u>	<u>Description</u>	<u>Parameter</u>	<u>Analyst</u>	<u>Preservative</u>
78206	Sec HS	9/15/03 1535 start 1537 stop	SHSM SD 01	Grain Size TOC % Moisture Heavy Metals	YL	4C
78207	Sec HS	9/15/03 1510 start 1512 stop	SHSM SD 02	Grain Size TOC % Moisture Heavy Metals	YL	4C
78208	Sec HS		SHSM SD 03	Grain Size TOC % Moisture Heavy Metals	YL	4C

Custody Transferred By: *alsh* Date 9/15/03 <sup>1636</sup> Custody Relinquished To: *A. Brett Bray* Date 9/15/03  
 Custody Transferred By: \_\_\_\_\_ Date \_\_\_\_\_ Custody Relinquished To: \_\_\_\_\_ Date \_\_\_\_\_

NJMC MERI Laboratory CHAIN OF CUSTODY

Project: Ecorisk

Collector: ABB

<u>Sample #</u>	<u>Location</u>	<u>Sample Date:</u>	<u>Description</u>	<u>Parameter</u>	<u>Analyst</u>	<u>Preservative</u>
78206	Sec HS		SHSM SD 01	Grain Size TOC % Moisture Heavy Metals	YL	4C
78207	Sec HS		SHSM SD 02	Grain Size TOC % Moisture Heavy Metals	YL	4C
78208	Sec HS	9/16/03	SHSM SD 03	Grain Size TOC % Moisture Heavy Metals	YL	4C

Start 1350  
Stop 1355

Custody Transferred By: ABB <sup>1600</sup> Date 9/16/03 Custody Relinquished To: A. Brent Puz <sup>1600</sup> Date 9/16/03

Custody Transferred By: \_\_\_\_\_ Date \_\_\_\_\_ Custody Relinquished To: \_\_\_\_\_ Date \_\_\_\_\_

NJMC MERI Laboratory CHAIN OF CUSTODY

Project: Ecorisk

Collector: ABB

<u>Sample #</u>	<u>Location</u>	<u>Sample Date:</u>	<u>Description</u>	<u>Parameter</u>	<u>Analyst</u>	<u>Preservative</u>
78209	Sawmill	9/16/03 1136/1138	SAW SD 01	Grain Size TOC % Moisture Heavy Metals	YL	4C
78210	Sawmill	9/16/03 1239/1245	SAW SD 02	Grain Size TOC % Moisture Heavy Metals	YL	4C

Custody Transferred By: ALB <sup>1600</sup> Date 9/16/03 Custody Relinquished To: A. Brent King <sup>1600</sup> Date 9/16/03  
 Custody Transferred By: \_\_\_\_\_ Date \_\_\_\_\_ Custody Relinquished To: \_\_\_\_\_ Date \_\_\_\_\_





BIOLOGICAL SERVICES DIVISION  
AQUATIC TOXICOLOGY LABORATORY

3450 Schuykill Road  
Spring City, PA 19475-1124  
(610) 792-1828 • Fax: (610) 792-1829

Client: LANE Environmental  
Address: 2000 ...  
Phone: ...  
Samplers: ...  
Project No.: ...

Client Contact: ...

Sample Disposal - Return To Client [ ]  
Disposal by Lab [ ]

# CHAIN OF CUSTODY

## SAMPLE INFORMATION

## Toxicity Test Requested

SAMPLE IN SAMPLER	TEMP. AT LAB	Sample Identification	Matrix Code*	Sample Date	Sample Time	Acute	Chronic	Whole Sediment	Eu-triate	Biaccu-mulation	Product Efficacy	Other	Other	Other
		...												
		...												

### Potential Hazard Identification:

Non-Hazard [ ] Flammable [ ] Unknown [ ] Skin-Irritant [ ] Poison [ ]

Relinquished by:	Print Name	Received by:	Print Name	Date:	Time:
...	...	...	...	...	...

Special Instructions:

Matrix Codes:	
S	soil
SE	sediment
SL	sludge
O	oil
WW	waste water
SW	surface water
GW	ground water
ST	stormwater
PW	processed water
DW	dilution water
RW	receiving water
X	other

### B-H Use Only

Samples Were: 1. Shipped or hand delivered 2. Chilled or ambient 3. Received broken / leaking 4. Received within holding times 5. Discrepancies between sample labels and COC record?  
Notes: 1. Present on outer package 2. Unbroken on outer package 3. Present on sample 4. Unbroken on sample



BIOLOGICAL SERVICES DIVISION  
AQUATIC TOXICOLOGY LABORATORY

3450 Schuylkill Road  
Spring City, PA 19475-1124  
(610) 792-1828 • Fax: (610) 792-1829

Client: EMSC (Department)  
Address: 210 NEW GARDNER AVE  
PHILADELPHIA PA 19124  
Phone: 215-381-0101 x 6404  
Samplers: PA MOORE  
Project No.: 02002-001-10028

Client Contact: PA MOORE

Sample Disposal - Return To Client [ ]  
Disposal by Lab [X]

# CHAIN OF CUSTODY

### SAMPLE INFORMATION

No. Container	4
Container Size	250

### Toxicity Test Requested

SAMPLE IN SAMPLER	AT LAB	Sample Identification	Matrix Code*	Sample Date	Sample Time	Acute	Chronic	Whole Sediment	Elu- trate	Bioaccu- mulation	Product Efficacy	Other	Other	Other
		PA 1002-001-10028	SLP	4/1/04	14:0									
		PA 1002-001-10028	SLP	4/1/04	15:05									
		PA 1002-001-10028	SLP	4/1/04	15:06									
		PA 1002-001-10028	SLP	4/1/04	15:37									

### Potential Hazard Identification:

Non-Hazard [ ] Flammable [ ] Unknown [ ] Skin-Irritant [ ] Poison [ ]

Relinquished by: <u>PA Moore</u>	Print Name: <u>PA Moore</u>	Received by: <u>PA Moore</u>	Print Name: <u>PA Moore</u>	Date: <u>4-1-04</u>	Time: <u>12:00</u>
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### Special Instructions:

Special Instructions:	
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Matrix Codes:	
S	soil
SE	sediment
SL	sludge
O	oil
WMW	waste water
SW	surface water
GW	ground water
ST	stormwater
PW	processed water
DW	dilution water
RW	receiving water
X	other

### B-H Use Only

Samples Were:

- Shipped or hand delivered
- Chilled or ambient
- Received broken / leaking
- Received within holding times
- Discrepancies between sample labels and COC record?

Notes:

COC Tape Was:

- Present on outer package
- Unbroken on outer package
- Present on sample
- Unbroken on sample





ACCUTEST®

Laboratories

CHAIN OF CUSTODY

2235 Route 130, Dayton NJ 08810  
TEL: 732-329-0200 FAX: 732-329-3499/3480  
www.acctest.com

Client / Reporting Information

Company Name: *ENSE CORPORATION*

Address: *20 NEW BRUNSWICK AVE*

City: *BRUNSWICK* State: *NJ* Zip: *08810*

Project Contact: *AR MONTGOMERY* Email: *AMONTG@ENSE.COM*

Phone #: *732-921-0210 x2016* Fax #: *732-921-0216*

Sampler's Name: *AR MONTGOMERY* Client Purchase Order #

Project Information

Project Name: *MOET BOVINE SAMPLES*

Street: *MEMORIAL BLVD* State: *NJ*

Project #

Client Purchase Order #

FED-EX Tracking #

Bottle Order Control #

Accutest Quote #

Accutest Job #

Requested Analysis

Matrix Codes

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*"Fit in the Rain"*  
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ALERT BERTNIK / SCOURMENT SAMPLING  
08502-3.11-005B

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487-482-7834 - BSA Cell

WJ

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Location: Metroland NY

Location: Metroland

Date: 9/15/83

Project Title:

Project Title: MERT / C.3500000000

Conrad 413

MERT (SENIOR)

BRETT BERLIN

201-201-400-4000

CP-201-650-7013

ALBERT

LOUIS KOMAR

732-355-4652

BH LABS

ROGER ZINK

610-742-1228

MERT (LAB)

ED KADJEVNIK

201-460-4046

ENR

HANCOY BALMORAND

CP-201-370-0132

NY

0942

ARRIVE MERT INVESTIGATOR  
BEING LEAVED THROUGH HAN

WENTEN TO MURKIN AND  
HARCIOSACH FIVE

1015

ARRIVE MURKIN, LEAVE  
BOAT AND PROCEED

ENTRANCE DOOR OF PINE,  
ELEVATOR, STAIRS, EXITS, AND

BARRETS. AREA COMPLETE 1030

1035

DEPART MURKIN FOR  
RIVERBEND MARSH

GREEN, CAPT. AL WOODS (ENR)  
JOHN SANDERSON (ENR)

BRETT DRISCOLL (MERT)  
WENNER OVERCAST, LARGE  
HANDSHELS, UNIFORM

TEMP: 76° DF 1010  
SPEED: 10-12 MPH HUMID.

1116 ARRIVE RIVERBEND MARSH TIME  
FLARING. PHOTOMETER TO CHEMIST  
PHOTOMETER 6' IN HEIGHT. MOTTLED  
SHOTS OBSERVED ON BANK WITHIN  
SHORELINE OF MURKIN

High tide: 1240 Low tide: 0620

NY

1118 Configuring GPS heading to RM-SD-01 file. Since this is fixed, you can back to land or as tide subsides to see when water to access and fill margin.

1135 Water parameters taken with Hydrolab. Allow some water quality. Multistate Sonotek Parameter Expansion System. Sample W3421. Sample same taken only.

1120 GPS set reference to station. Note E. Aquatic. Poor but fair seed! and ready to get colonizers of first sample site. TRIMBLE YES. Average RM-SD-01 (10 minutes).

RM-SD-01 H<sub>2</sub>O samples. Depth of H<sub>2</sub>O (HydroLab) - Surface Sed. Colldepth (0.3.5). H<sub>2</sub>O temp - 24.5°C. Sal - 11.92 ppt. TDS - 25104 us/cm. DO % - 63.3. DO mg/L - 3.64. pH - 7.119. O.P. - 3.21. TDS - 12.82. RM-SD-01 (SEDIMENT SAMPLING)

1131 Marsh: Open area @ 350' in width bordered by Phragmites with Spartina hummocks within water. water depth @ 3 to 6 feet. Located at base of landfill (Malenton). Heavy detritus. Fracture on water surface. MI site on old MRR bars. Clear. (MRS. AL. MURPHY) JUN. SENCHISEN (LEAKS). BRET BRAGIN (MTRC). VESZEL - 20' Pavedec of US HW. WEATHER: Overcast, Temp 76°-75°F. Wind NNE @ 8-12 mph. Humid w/ high chance of rain.

Used EKOMIX DIAPHR APPLIED TO PORE (DIMENSIONS 6" x 6" x 6") SAMPLE TINES FOR ETRM LAB AVE. AS FIELDS



Project/Client:

Project/Client:

LAB START STOP  
 MERC 1142 1145  
 ACQUEST 1145 1150  
 B:H 1150 1154

MERC AND ACQUEST SEDIMENT PLACED IN DECONTAMINATED STAINLESS STEEL BEAD AND A STAINLESS STEEL BEGAN WAS USED TO TRANSFER SEDIMENT TO COLLECTION JAR. LATEX GLOVES WERE WORN DURING TRANSFER.

PROCEDURE: MERC SAMPLED PLACED IN UNDERMOUTH GLASS ZL CONTAINER, LABELED ON LID AND JAR, AND IMMEDIATELY CHILLED. ACQUEST SAMPLE PLACED IN 8 OZ GLASS AMBER BOTTLE, LABELED APPROPRIATELY AND CHILLED. BOTH LAB SAMPLE CONTAINERS WERE WEIGHED IN BUBBLE WRAP PRIOR TO COOLING PLACEMENT. B:H LAB SAMPLE PLACED IN 3 GALLON PLASTIC BUCKET, LABELED ON LID AND CONTAINER, BEADED, AND

(M)

STORED APPROPRIATELY IN DRY ICE. WILL BE CHILLED UPON RETURN TO BUREAU DUE TO LIMITED SIZE OF CONTAINER. CONTACT B:W LABS TO CONFIRM THIS IS CORRECT AND RIGER ZILK STATED THAT THIS WOULD BE FINE AS LONG AS SAMPLES WERE ICED BY END OF DAY.

1155: RM-50-01 (Benthic Sample)

Benthic samples taken with stainless steel pint Pennix 14 hydraulic with following start/stop times

RM-50-01A (REP 1) 1155 1204  
 RM-50-01B (REP 2) 1204 1214  
 RM-50-01C (REP 3) 1215 1223

Benthic samples sieved through 500 micron mesh stainless steel sieve. This sample was placed in a pe marked 4 gallon container prior to sieving. Pennix was frozen with isopropanol for even



Sample to ensure that the sample was placed in plastic. Buckets also rinsed with sterilizer when transferred to sieve work station. Sieve work station consisted of a milk crate, used as a pedestal with a steel tub placed on top. Sample was transferred to sieve and gently rinsed with site water. Site water (@ 4 gallons) was placed in tub prior to sieving. Sieving conducted in a gentle motion until all but particles smaller than 500 microns remained. Samples placed in plastic wide mouth containers and labeled as 122 and without Benitic samples preserved with 10% formalin.

OK

1220 Decontamination of sieve instruments. Rinse, Rinse, clean with site water between each bench sample to remove data interfering. At end of sampling bucket and sediment the following was conducted to Rinse/ Clean, stainless steel spoons, stainless steel tongs, and any other gear used. Gloves were washed under decontamination spray or with ethanol and then once finished, terminated, were sealed shut during transfer to next site/ station. New Pockets used.

- Decontamination
- ① Site water Rinse - 1220 / 1223  
Hiconox wash  
Dial Rinse
  - ② Nitric Rinse 1223/1224  
Dial Rinse

OK

Location: MICROCOSMOS, INDIA Date: 9/18/03

Project / Title:

③ Acebione 1226 / 1228  
DIN KANSE

1228 Decontaminated, complete final  
deck raised with site marker.  
Report station

1251 Active station KM-SD-02, Lalaw  
as DS on old, MIDL MAPS.

SAMPLE SITE IS A mosquito ditch  
@ 6-8' in width with a heavily  
vegetated shoreline of Phragmites.  
Site located at base of Malambra  
Landsfill.

1253 RM-SD-02 Hydrilab Water Qual.  
Vessels - Privateer (21') H.S. UP  
(Kew - AL MANSURA (ENKOR))

Two Surberisms (ENKOR)  
BENT BARROW (INDIA)

TIDE - High - 1240 Low 0030

TIDE Type: EBBING (close to  
black)

LAT: 40° 45' 09.89" N  
LONG: 74° 05' 19.39" W

W

Location: MICROCOSMOS, INDIA

Date: 9/18/03

Project / Title:

(Continuation of previous w/ sample NPS)  
Weather: 10-16°C, winds NNE

@ 10 mph skies overcast with  
high humidity.

Hydrilab sample taken with  
surface grabber.

Temp: 24.74°C

Sal: 14.73 ppt

DS%: 54.0

DS mg/l: 3.41

Sp. Den: 24.33

pH: 7.20

Orp: 335

IDS: 15158

1256 KM-SD-02 (SEDIMENT SAMPLE)

USED: EKMAN DREDGE (SAMPLES)

STEEL 6" x 6" 16" ATTACHED TO ROSE

SAMPLE TAKEN FOR EACH UND

ARE AS FOLLOWS:

SAMPLE STOP

AKRT: 1256

1311

ACCRESIT: 1257

1313

BIT: 1265

1354

W

COLLECTIONS PERFORMED AT

Samples placed in appropriate buckets, labeled, and chilled. Substrate highly organic, consisting of a thick, brown and detritus. Very difficult to get a good grab of a large amount of sediment for clean grab. Multiple grabs taken to fill B:H 3 gallon bucket. Bucket shaken gently and allowed to sit for 15 minutes to let sediment settle. Surface H<sub>2</sub>O in bucket decanted and more sediment added to fill bucket. Benthic samples taken during the 15 minute that bucket sat (Liq on top).

1820 KM 50-02 (Benthic)

Benthic samples taken with stainless steel 6" x 6" x 6" Ekman corer affixed to a pole. Triplicate samples taken w/ following standard times.

11/22 020 512 (08)

KM 50-02A (Liq) BUL/1984

HM 50-02B (Liq) 1025/1984

KM 50-02C (BSP) 1300/1984

Samples immersed some 40-60 min necessary. Few sample KM 50-02 samples direct to Nucleic Acid Laboratory. Some cores taken on 10/16/82, only 1/2 of cores was better sediment/sample due to organic content of substrate. Samples buried in sea urchin screens (plastic mesh) at bottom. Samples stored in bags if needed.

Level 1 (KM 50-02A) placed in 2 Lindberghs and labeled as 10F2 and 20F2.

1345 Benthic samples preserved in 10% formalin, glass vials.

1356 Same as sample (B:H bucket) complete 3 gallon bucket filled, sealed, and stored in 100 L/D. 110 containers labeled accordingly.

Location: MENDOCINO, CA Date: 9/15/03

Project Name:

1357: Depart station, will move down channel to a more open area to perform decontamination since boat begins to as wide as channel.

1357 Found open area. Beginning decontamination procedures with LKMP, spores, and debris. DECK WASHED DOWN WITH SITE WATER. DECONTAMINATION TANKS ARE AS FOLLOWS (GLOVES WORN) New wash bucket used

① Sirkunder Rinse 1357-1359  
Alconox Wash  
DIW Rinse

② Nitric 1359-1403  
DIW Rinse

③ Acetone 1403-1408  
DIW Rinse

(W)

Location: MENDOCINO, CA Date: 9/15/03

Project Name:

1408 DECONTAMINATION COMPLETE. LIL GEAR USED AT LAST SITE. ABOUT 10 LBS. SAMPLES FROM SCHOOL MARSH RECEIVED CASE FROM BOAT LIDS AND COORDINATED PLU TIME FOR 1730-1800 AT Piscataway office (case).

1410: Decision, based on WATERBATH AND TUBE TIMES, TO DO AND DO SIMON-50'S TEST SINCE ORIGINAL TUBE WERE BEING WASH QUICKEY. MAY HAVE ENOUGH TIME TO GET SAMPLES AT SIMON-50'S BEFORE WATER DOWN TOO LOW. WILL DO OTHER SAMPLES IN DESCENDING ORDER AS WE EXIT THE MARSH WITH USING TUBE FROM SIMON-50'S.

1415: Phragmites too thick and water level decreasing. Phragmites growth across channel close to SIMON-50'S making boat travel at this water depth.

(W)

Location: MEMPHIS, TN Date: 9/15/53

Project: Chert

Impassible, thin bedded, and  
perforation sample for SUSAN-20-01

Will come back tomorrow for  
more to access SUSAN-20-03

1449: Abandon to next sample site.

1459: Abandon SUSAN-20-02 within  
Secaucus High School campus.  
Crew: Carl Mc Messer (boss)  
Sam Buchanan (owner)  
Bill Deems (MUD)

Vessel: 21' Power, 15' hp

Tide: High - 12:40. Low - 1:40

Tide gauge: 74° 00' 51.02 W

Collection depth: 515'

Core: 40' 48' 15.04 W

Core: 74° 00' 51.02 W

Location: 70' - 73', down one block  
with eight shales

Strata located in intertidal  
of main channel and middle  
ditch width of ditch (15'-20')  
near to bank but 8' with  
fragments  
coordinates given of location (15,

✓

Location: MEMPHIS, TN Date: 9/15/53

Project: Chert

1501: SUSAN-20-02 (INTERIOR)  
(taken in water surface)

Temp: 23.2°C

Salinity: 5.0 ppt

Dry to: 44.8

Density: 3.14

Sp. Gr.: 9.940

pH: 7.17

Op.: 320

TDS: 6134

1506: SUSAN-20-02 (SEDIMENT)

USED CRUISE DREDGE AFFIXED  
TO PILE (SMILESS STEEL  
6' 16" dia) sediment taking  
organics and consisting of  
thick silt and sand. Sample  
lines for each core are as  
follows:

MERT - 1510/1512

B:H - 1506/1513

Accretion - 1509/1510

✓

Collection Depth - 3.5'



Location: MEDICINAMOUNTAIN N.J. Date: 9/15/03

Project / Core:

No Benthic Samples (Biological)  
taken at this marsh.  
Next benthic sampling site  
Biota at Kennedy Marsh  
MARSH. Minors are size 4 (S-6)

1513 Sediment Sampling complete  
LABELED CHILLED, OR UNCOOLED

1516 Decantamination initiated.

FOR EXTRACT, SPECIES, AND  
STAINLESS STEEL BOWLS. Ditch  
washed down with pure  
water. Ditch rinses are as  
follows (glasses (latex) used  
how ever not used)

1. Sitewater Rinse: 1516 / 1518

2. MCONOX

3. DIW RINSE

4. Nitric 1518 / 1520

5. DIW RINSE

6. ALCOHOL 1521 / 1526

7. DIW RINSE

Location: MEDICINAMOUNTAIN N.J. Date: 9/15/03

Project / Core:

1524 Decantamination complete

1528 Dredget Station. Under  
back of things were shallow.

1530 Aqueous SHSM-SD-01  
(Coccolithus, Coccolithus, Coccolithus)  
(Coccolithus, Coccolithus)  
(Coccolithus, Coccolithus)  
(Coccolithus, Coccolithus)

(Coccolithus, Coccolithus)

Most water.

Vessel - 21 liter, 115 HP

Time High - 1240 Low 0030

Time Ebbing

Collection Depth 3.1

Lat: 40° 48' 30.4 3N

Long: 74° 02' 50.14 W

607 74000 1000 1000000 X83

607 74000 1000 1000000 X83

607 74000 1000 1000000 X83

607 74000 1000 1000000 X83

607 74000 1000 1000000 X83

607 74000 1000 1000000 X83

607 74000 1000 1000000 X83

Location MEADOWS N.I. Date 9/15/03

Project / Client

SAMPLE TAKEN ON SE CORNER OF INTERSECTION IN DRAIN BASIN FROM ~~ENTRANCE~~ TO UNWATERED RIVER. Precipitation dominated shoreline vegetation (6' E) in height. Sediment soft with much mud, silt, and small percentage of sand.

1534 SHOWN: SD-OI (HYDROLOGS)

TAKEN AT WALKER'S SWIMME

TEMP - 23.60°C

SAC - 6.48 ppt

DO% - 89.5

DO mg/l - 5.94

Sp. Cons - 11.67

pH - 7.43

O<sub>2</sub> - 3.26

TDS - 7.275

Water level decreasing rather quickly

Location MEADOWS N.I. Date 9/15/03

Project / Client

1535 SHOWN: SD-OI (SEDIMENT)

SEDIMENT SAMPLE TAKEN IN THE STABLEST AREA

EXPOSED GRAIN EXPOSED TO POLE (WINDMILL). Sediment soft and easy to get good grab. Lines following LIND ARE AS FOLLOWS

METH. 1535 / 1537

AGENTS 1537 / 1541

B: A 1537 / 1546

METH. OLD SITE → (S-1)

NO Beaches (Biological) samples

taken at this site according to GAPP.

1545 - STARTING TO RAIN

1546 - SEDIMENT SAMPLING COMPLETE

SAMPLES LABELED, CHECKED, OK

SAMPLES ACCORDING TO LHS

SPECIMENS.

1547 - HEAD TO DETAIL THROUGH AND

(KING)

Location: MEADOWLANDS N.T. Date: 9/10/03Project: Global

1348 Rinsed bear with site water  
will perform full decontamination

in morning since this is

LAST SITE FOR THE DAY.

1851 Depart station for morning.

17' deep entrance to marsh.

1600 Arrive Burr Dock. Ted, David  
Vesil, and Brian Unsworth

Grant, Sherrill, Cheryl and  
Kenny. Sherrill Arrives

stays to new cooler added

new temperature blank and

3 bags of ice. checked inside

wrap and packed cooler to

prevent bottle breakage.

1610 Filled out Accutest Chain of  
Custody.

1622 Completed Chain of Custody for

Accutest. will use Accutest

Custody card # 7824.

1635 Filled out Chain of Custody for

NIHET

Location: MEADOWLANDS N.T. Date: 9/10/03Project: Global

1638 Rinsed sediment/Benthic  
samples to NIHET. Benthic will  
use cups in coos for one  
excess. GIVE samples for  
Renee's Marsh and site marsh

1640 Depart museum for USEE

1646 TO P/O TRUCK AT

ERSON ON WAY.

1755 Arrive USEE over Kayak

Zona from B; H LASS

1802 Filled coos for B; H

and refilled 4-3 gals

plus of added to B; H

1805 Sealed cooler for Analyst.

Placed in total of 8 bags

of ice on samples called

Analyst to confirm them

P/O

1840 Depart USEE.



Location: Memphis, TN Date: 9/16/03Project: Chlorine

9/16/03

0730 Met with Jim Anderson (owner  
new crew sub for Job Seaborn)  
in Bradley Beach, MS.

0705 Depart for Memphis, MS

0905 Called Brian Bragin of Intra  
to give location for ERG 150  
on MSP (traffic) should arrive  
Monday AM 0930.

0930 Arrive Memphis.

0946 Called ERG to confirm bucket  
plo of cooler. Bucket had not  
plo'd sample yet.

0946 Called Diane Komer for  
bucket to see where plo.  
and when plo would be left  
message on her voicemail.

0947 Depart Memphis for Memphis.


Location: Memphis, TN Date: 9/16/03Project: Chlorine

0953 Rese vesp and film Diner  
Komer from Hiestest. Said  
we were scheduled from  
plo and diner meet be  
running late. Commenters  
9 AM pick up for lead and  
Thurs

0958

Andrew Marino / Boat Club  
will continue loading but  
and decontaminating.

1000

Checked gear, cooler coopers  
with appropriate bottles for  
each lab. No better sample.

See station or subunit number  
lower. Team: Waise/Komer.

1015

Decontamination of Diner,  
spoons, stainless steel bowls,  
and buckets initiated. New  
latex gloves worn during  
decontamination process.  
Decontamination start/stop  
times are as follows:



- ① STEWARD 1055/10105
- ALCONOX
- DIW RINSE
- ② NITRIC 1020/1030
- DIW RINSE
- ③ ALCONOX 1050/1040
- DIW RINSE

1030 RECEIVED CALL FROM ENSR  
 CONFIRMING ACQUISITION (AS)  
 PICKUP.  
 1045 Depart MARINA FOR SHAWNEE  
 MARSH. EMER JAWS CLOSED FOR TIDE  
 TIDE HIGH - 13M LOW 0659  
 (AT INTERLOCK SWING BRIDGE ON  
 HARRISDALE)

CREW (ART AT MADISON (ENSR)  
 JIM ALDERSON (ENSR)  
 BRETT BARBER (MEM)  
 JEFF MISUIK (MEM)  
 JEFF ASSISTING BRETT WITH  
 DEPLOYMENT OF GULL NET  
 FOR RETRIEVAL TOMORROW

Or

WEATHER CLEAR Temp 74-75°F  
 Wind NW - 5-10 mph A  
 TIDE UP FOR SAMPLING  
 Samplers: Capt Mc MADISON (ENSR)  
 JIM ALDERSON (ENSR)

\* All equipment DECONTAMINATED  
 AND READY FOR SAMPLING EFFORT

1050 Discussed - April Bayou (MEM)  
 Sample locations on SHAWNEE  
 will be 1 at a fish sampling  
 location and one where benthic  
 invertebrates were taken by MCE.

1101 - SETTING GULL NET ON OPPOSITE  
 SIDE OF IIX RAIL BRIDGE. NET  
 WILL BE SET INSIDE. AFTER  
 NET SET, WILL HEAD TO SHAWNEE.  
 MAY BE TO DO SEDIMENT SAMPLING  
 1105 NET SET. PREPARED TO START  
 IN 8' TO 14' OF WATER ON OPPOSITE  
 SIDE OF IIX BRIDGE (ENSR)  
 INSURE SET.

Or

Location: MERRISLANDS NJ

Date: 9/16/83

Project: Chen

1107

Deerier Fox Swampy Marsh.  
All gear stored and deck  
beaked.

1121

Above Swampy Marsh at  
Saw - SD-01, Picture 1 taken  
of entrance. Fish nets located  
on each side of sample channel.  
Sample to be taken on east  
side of channel. Picture 2  
shows location and veg type of  
sample site - Saw - SD-01. Shlopp  
veg. All *Spartina*, channel with  
10-15' of mud and decreases  
in width to the north.

1125

Saw - SD-01 (Merrisland)  
Temp - 25.33°C  
Salt - 12.46 ppt  
DO% - 58.0  
Diss/O<sub>2</sub> - 3.59  
Sp/ons - 20.34  
pH - 7.20  
Chl - 360  
TDS - 13.37

Sample taken at entrance

Location: MERRISLANDS NJ

Date: 9/16/83

Project: Chen

1130 - Saw - SD-01 (Merrisland)

at Merrisland Creek.

Counts: An. monob. (Cousa)

Tim. Act. (Cousa)

Puff. Puffin (Cousa)

Jeff. An. (Cousa)

- Sample taken within *Spartina*  
tunnocks along eastern shoreline  
- Sample taken with 6' x 6' x 6'  
LX-1000 STIMPRESS STEEL CORE  
APPROX. TO A POLE

Vessel - 21' Powercat, 15 hp

Weather - Temp 75°F, Wind

Now 5-10 mph, Clear and

Sunny

TIDE - High 1319 Low 0657

TIDE TYPE - 7200

LAT: 40° 45' 54.89N

LONG: 74° 05' 45.91W

COORDINATES TAKEN AT TUMBLE

XRS.

Sediment plot/olog time

log tab are as follows:

Cell depth - 1.7'

Project: MICROMONITORING NS

Date: 7/16/83

Location: MEMPHIS AREA NS

Date: 7/16/83

Project Code:

Project Code:

TRACT STOP

MEXE	1134	1138
ACCURST	1136	1145
B <sub>2</sub> H	1138	1204

EXTRACTED ENERGY TO ACQUIRE SOFT WITH SOME ORGANIC CONTACT. MUCK/ROAD WITH SAND/SILT.

1204 SCUMMENT SAMPLING COMPLETE. JARS CANCELED ACCORDINGLY. CHLORO. OR STORED ON DECK AS PRESCRIBED BY LABORATORY LAB. GLASS JARS bubble wrapped.

1205 DECONTAMINATION OF GEAR. INITIATED WITH CLEANS WASH BUCKET. BRUSH, SPOONS, AND STAINLESS STEEL BOWLS. DECON 'O' DECK WASHED DOWN. THE FOLLOWING GIVES START/STOP TIMES FOR DECONTAMINATION OF GEAR.

1205 site water base 1205/1207  
Alcohol  
DIW RINSE

2) Nitric 1207/1209  
DIW RINSE

3) ACETONE 1209/1212  
DIW RINSE

Disposable latex gloves worn during decontamination process. New bucket will be used at next site for DECON.

1212 DECONTAMINATION COMPLETE

1214 DECON STATION FOR STATION # SNU-SD-01

1220 ARRIVE AT STATION SNU-SD-02. PICTURE 3. TAKEN OF SITE FACING N WEST TOWARDS TORRENCE. PHRYGIANES bordering shoreline with sparse hummocks located in ALCOVE

Location: Meadowlands NJ Date: 7/14/02

Site: SD-02

1225 SAW - SD-02 (HYDRO) ↓

LAT: 40° 46' 30.79 N

LONG: 74° 06' 02.10 W

Sample taken of surface

water.

Temp - 25.1°C Spdon 1931

SAL 11.99‰ PH - 7.65

TDS% 61.1 ORP - 358

TDmg/L 3.75 TDS - 12.35

1226 SAW - SD-02 (SEDIMENT)

EQUIPMENT USED - EKMAN 6' 16' 16'

ATTACHED TO TUBE (STAINLESS STEEL)

USED - SAME AS PREVIOUS SAMPLE

SITE

VESSEL - 21' PRAWLER, 115 HP

TIME - High - 1319 Low 0657

TIME CYCLE - RAOO

WEATHER - Sunny, Clear, Temp

15°F, Wind NW 5-10 mph in

gusts.

Location: Meadowlands NJ Date: 7/16/02

Site: SD-02

Coll. Depth - 4.5'

LAT: 40° 46' 30.79 N

LONG: 74° 06' 02.10 W

Coordinates taken with GPS Trimble XPS.

- Sediment HOD (Clay-like)

Having previously retrieved

two grab sample, Sample being taken w/in channel along mudflat

① 3.5' from stream bank.

Moved Boat closer to structure

where sediment softer and

more accessible by grab. Coll'

Depth still the same.

Sediment streak / stop times

By log are as follows:

MEDS

1229/1245

ALMOST

1226/1239

BSH

1228/1255

*[Handwritten signature]*

*[Handwritten signature]*



Location: MENOWINGS, NJ Date: 7/16/02

Project / Client: \_\_\_\_\_

1248 Beyond DECON OF  
Bowls and stainless steel  
spoons. Still acquiring final  
sample for BPH. Will  
DECON CRIMINAL CASES while  
ENROUTE TO NEXT STATION.

1255 Seemant Sampling complete.  
Jars and bucket labeled  
on lid/container and  
iced or stored according  
TO LAB SPECIFICATIONS. GLASS  
JARS BULBIE WIPED.

1256 Depart STATION ON 9:30-02.  
FINAL DECON OF EQUIPMENT  
complete. Jaws closed  
during transfer and  
placed inside steel. Heading  
to S115M-SD-03 to get  
final sample at that  
marsh. Access should be  
a little easier since  
arrived with guide w/

Location: MENOWINGS, NJ Date: 7/16/02

Project / Client: \_\_\_\_\_

high tide.

1325 Arrive site. Access to DECON station.  
TIDE GAUGE below will try to  
ACCESS SH-01-03 by boat.  
ARRIVE ON SITE SH-01-03.

1337 PICTURE of facing east, DECON  
S facing W. Site fully overgrown  
by Phragmites. Numerous 6's  
and HydroLab for W/S sample.

1340 S115M-SD-03 (HydroLab)  
Temp - 23.62°C  
Sal - 6.35 ppt  
DO% - 91.6  
DQmg/L - 5.83  
SpCon - 11.15  
pH - 7.39  
OCP - 333  
TDS 7.133

Collection Depth: SURFACE 420.  
1342 - RA-PAPPED deck for RAPIO  
SEDIMENT SAMPLE.

Location: MEMPHISN.E. Date: 9/16/03Project: 1111

1344

S115M 50° 03' (SEDIMENT)

LAT: 40° 48' 12.44N

LONG: 74° 02' 47.67W

Coll. Depth: 3.4'

Crew: AL MOOREHEAD (LEAD)

SIM ANDERSON (LEAD)

BETT BEARD (MGR)

JOE MUSNIK (MGR)

TIDE: High 1314 Low 0657

TIDE: EBBING

WEATHER: 75° - 77° F, WIND

SWS: NW - 5-10 mph, SKIS

CLEAR

SAMPLE TAKEN WITH EKMAN

(STAINLESS STEEL) ADAPTED TO POLE  
(6" x 6" x 6" bucket)

Site Description: Overgrown w/ Phragmites

ditch width @ 10-15' bank to

banks but channel not visible

due to amount of phragmites

two small mosquito ditches

bisect the site N/S

MERI ECO SITE # - S-7

Location: MEMPHIS, N.E. Date: 9/16/03Project: 1111Sediment soil (organic) used  
to fill bucket of organic

sediment stock/stock sample

TIMES: ROZ AS FURNACE RY

LIMS:

STOCK STOP

1344 1355

1344 1349

1350 1355

MGR

ACCURATE

BTH

Times include grab and transfer  
of sediment from stainless  
steel bowl and spoons.SEDIMENT SAMPLING COMPLETE  
Sample jars/buckets labeled  
accordingly and iced/stored

as specified by individual

CRB. Hydralab not functioning

properly. Batteries are dead.

Will check for alternate

WE MONITOR.

1355

Location MERCADOLANDS, NJ Date 9/16/03

Project Code: 1450

1400 Depart SHAM-30-03.  
 ON way out took pictures  
 of SHAM-30-02 and SHAM-30-01  
 with digital camera.  
 Pic 1- SHAM-30-02 sample  
 area.  
 Pic 6- SHAM-30-02 facing  
 EAST TOWARDS OVERGROW.  
 Pic 8- Site 1 sample area  
 facing SE.  
 1415 ARRIVE AT BOAT DOCK.  
 Attempting to obtain another  
 WOM SOURCE TO DO KETARY  
 Marsh. Unloading boat.  
 WILL RETURN TO MEEI TO  
 check for gear, P/O new  
 boat that can access KETARY  
 Marsh, and beatric gear.  
 Will DECONTAMINATE EKMTAN,  
 STAINLESS STEEL BOWLS AND SPONS  
 AT MARINA.

*Car*

Project Code: 1450

Date 9/16/03

Project Code: 1450

1416 DECONTAMINATION MARINA  
 Buckets, spoons, bowls, and  
 EKMTAN DECONTAMINATED WITH TUMBLE  
 AS TUMBLEDS. VERY VERY CAREFUL.

① Site work Base: 1426/1435  
 ALCONOX  
 DIW RINSE

② Nitric 1435/1440  
 DIW RINSE

③ ACETONE 1440/1445  
 DIW RINSE

Clean gloves (latex) cover for  
 DECONTAMINATION PROCESSES.

1450. DECONT MARINA FOR MEEI  
 LAB to see if they have  
 new battery for Hydrolab.  
 BATTERY LEFT @ 10 min earlier  
 to check w/lab technicians  
 so we could mobilize  
 quickly to KETARY Marsh.

*Car*



Location: Merrill Ames NJ Date: 9/16/03

Project: Client

1510 Call from Merril Ames Battery for Hypocubes needs checking. NO spare. Will do Kenney Marsh tomorrow afternoon.

1530 Called B: H Labs, Roger Zirk to p/o samples at 1700 rather than 1800 hours. Confirmed.

1540 Arrived MERZ LAB. GOT SET FOR TOMORROW'S STANFORD EFFORT. WILL DO ORITANI 1st in AM. MERZ will supply Battery charger and sands and I will charge this evening. COCS to Merril. Samples Relinquished to MERZ, Beate Brogus. Will get copies of COC tomorrow.

1610 Accutest cooler checked, added 7 bags ice, bubblewrap, etc. for 9am pickup on 9/17/03. Filtered out

Location: Wickham, DE Date: 9/16/03

Project: Client

CHAMP ON INSTANT WILL USE ACCUTEST BENCH # 7688.

1611 Took A TRAVE TO LOCATE ORITANI WITH BEATE BROGUS. MADE SURE SITE WAS ACCESSIBLE. SITE IS ACCESSIBLE.

1630 DEPART FOR ENSK.

1710 Arrive ENSK. Filter out COC for B: H LAB. Relinquished sample at 1715 to Roger Zirk of B: H LABS.

1717 Checked Accutest cooler, sealed, and set up for 9 AM pickup on 9/17/03.

1720 Charging COCs and HydroLab batteries. Will come by office in morning to get BEATE PLEASE TO GOING TO ORITANI.

Location MEMPHIS, TN Date 9/16/03

Project Code

1750 Duplex ENSR for Campus  
Bonds, NT; Ranney's first  
1840 ALONE AT BONDING MESSHOP  
ALONE IN BONDING CENTER, NT.  
UNLOADED GEAR AND RE-ARRANGED  
BOTTLES, GEAR FOR TOMORROW'S  
CHAMPIONS EVENING.



Jim

Location MEMPHIS, TN Date 9/17/03

Project Code

1840 Details in file GPS and  
Hydrologic Channels in  
ENSR OFFICE in Presenting  
M.

0830 ARIANE ENSR KETTERHO  
HYDROLOGIC INFO TRAINING  
GPS UNIT, Checked gear  
and containers prior  
TO DEPARTURE TO  
MOUNTAIN CAMPUS. LOAD  
ALL GPS SITES AT OUTPOST  
MINE ON BY LAND. A  
LOAD WILL NOT BE  
USED AT THIS MINE  
SITE. WILL TAKE DATA  
SITE PHOTOGRAPHS OF  
METHODOLOGY FACILITIES  
FOR DOCUMENT COLLECTION  
AT BSH LADS AS  
REQUESTED BY ROY  
ZIAK (BSH).

0830 Hydrologic and GPS fully charged  
and loaded in truck.

Jim

Location PLATEAU PASS, N.S.Date 9/27/83

Project / Chart

0638 DEPOT FOR CRISTINI MARSH  
 SANDWICHES FOR CRISTINI AND  
 CAPT. AL MOORESKI (CNSA)

JIM ALDERSON (CNSA)

0954 BRIDGE AT CRISTINI MARSH  
 SITE: OM-SD-01. ALONG OLD SITE  
 #11.

Springs (Capt. Al Mooreski) (CNSA)

JIM ALDERSON (CNSA)

LAT: 40° 47' 58.14" N

LONG: 74° 05' 13.76" W

TIDE: High Low

TIDE CYCLE -

LOW WATER: BOTTOM (SUB) - 15.2'

SITE DESCRIPTION: FISHERMAN'S

CRAB LOCATIONS @ 50'E FROM

RR TRACKS AND @ 25'S FROM

SPILLWAY. SPARSE VEGETATION.

Phragmites, R.C. 9 shows

site from RR TRACKS.

facing EAST. Pic 10 shows

sample site facing EAST.

P.S.O. LARGE STONES LOCATED

ALONG RR TRACKS WHICH

*R*

Location PLATEAU PASS, N.S. Date 9/27/83

Project / Chart

may be in sediment sample.  
 Channel width @ sample @ 12-15'

1020 OM-SD-01 (HYDROLAB)

Temp. - 19.74°C

SAL: 7.27 ppt

DO: 7.315

COND: 2.24

SpLow - 12.66

pH - 6.95

ORP - 311

TDS - 8.112

TERRAIN WITH LOOSE ROCKS @ 40'

AND HYDROLAB MINISCOPE

WATER CIRCULATING MULTIPROBE.

WEATHER - @ 70°F; WINDS NE

@ 10-20 mph and gusty. SKIES

clear and sunny.

1028 OM-SD-01 (SEDIMENT)

SAMPLE TAKEN w/ EKMAN

STAINLESS STEEL BEAD 6" x 16"

AFFIXED TO POLE.

Sample taken @ 1-2 fms.

Phragmites dominant shoreline

COLL DEPT @ 1.5-2 FT.

*R*

Location: MILWAUKEE - POND L.S. Date: 5/17/03

Project Code:

1054 Decant armature of EXMAN  
cans, spec, and usual initiated.

① Site Water Rinse 1054/1059  
Alcohol  
D/W Rinse

② Nitric 1059/1103  
D/W Rinse

③ Acetone 1103/1106  
D/W Rinse

Jaws closed on grab prior  
to site departure. NEW CAPAC  
BOWES WERE DURING DECON  
PROCEDURE. GENE STOWED  
IN TRUCK TO LEAD TO NEXT SITE.

1111 Report Station: OM-S0-01  
for OM-S0-02. Hydraulic  
working well.

Cr

Location: MILWAUKEE L.S. Date: 5/17/03

Project Code:

Tide: Flooding  
Tide High Low

LHW: 40' 47" 58.14 N  
LWS: 74' 05" 13.76 W

Sample collected by A. Podgorski  
and decanted by J. Blaise  
Gauge had to be lifted to  
upper bank for disuse due  
to looseness of wire when

Times for sediment sample  
by lab are as follows:  
Weather unchanged from 1020.

START STOP  
11:54 1036 1042  
10:40 1040 1049  
10:28 1028 1035

1049 Sediment Sample Complete. All  
samples labeled accordingly  
and placed in truck. Will be  
used upon return to Pleasant  
Lake at 12:00 hrs. Sed. Samples  
placed in shaded area in  
truck.

Cr

Location: Meadowlands NJ Date: 9/17/83

Page: 1 of 2

1132 ARENA AT SAMPLING SITE

OM-SD-02 (NEW OLD SITE #2)

Lat: 40° 44' 43.02"N

Long: 74° 05' 01.79 W

TIDE: MHH 1010

(AT ANTIK SWING SPINE PRESSURE

R)

TIDE: Ebb

Samplers: CAP, McMOORE (NEW)

JIM ANDERSON (GENS)

Water: low debris - 6" - 1'

SITE DESCRIPTION: Pic 11 Facing

NW DIBBY AT SAMPLE AREA.

SITE: A SHOT WATER PUMP SURVEYOR:

By Pneumatics varying in height from

2' to 6'. A Plastic pole (8" dia)

high is located on NW corner of

site. Site very shallow with H<sub>2</sub>O

depth ranging from 6" to 1ft.

Weather: 75° 75°F, Wind NE

10-20 mph (gusty), Clear and Sunny

Other pictures TAKEN

Pic 12 - Collecting sediment with

LKMAN ON SITE Facing NW

*[Handwritten signature]*

Location: Meadowlands NJ Date: 9/17/83

Page: 1 of 2

Pic 13 - Dispensing sediment into

8" H bucket (with spigot)

Pic 14 - Dispensing sediment into

Acuteless from strainers

single panel with stainless

steel screen to get Amoxic

3TH.

1136 OM-SD-02 (McMOORE)

Sample taken at surface by collecting

water in bucket. Water shallow

6" - 1' (Bottom water also mixed in water)

Temp - 25.34°C

Sal - 8.47 ppt

DO - 15.1

Dungl - 10.08

PH - 6.28

SPCon - 14.52 µg/l

Chl - 319

TDS - 9.298

USED Hypocline Surveyor 4A AND

Hypocline microscope.

*[Handwritten signature]*  
↓



Location: Mariposa Reservoir AT Dam ... 9/17/03

Project: Chloride

MIXED LABS. WILL DO BLENDS AND A SITE. W/STORAGE H<sub>2</sub>O IN MORE ACCESSORIES AND THERMALS.

1205 - TRANSMISSIONS OF CERMAN, SPAINS, BANG, FROM BUCKET INSURED. PLUGGED AND FEATHERED. WHAT H<sub>2</sub>O MORE AVAILABLE.

(1) Site with Gauge 1205/1206  
ALCOHOL

(2) PWS Gauge  
1202/1211

(3) ACETONE  
BWS Gauge  
AM ~~1211~~ 1211/1214

APPR. DRY, VMS OF CERMAN/CASAS SPAINS AND BWS STAGES NEARLY FOR TRANSPORT TO MONT.

1225 Deposit station

1243 ACETONE MORE. 16 LITER SAMPLES AND PREPARE FOR KEMENY IMPRESIT. SAMPLING. WILL DO.

Location: WINDMILLERS NB ... 09/17/03

Project: Chloride

1140 QM-SD-02 (SEDIMENT)

SAMPLE RETURNED WITH STRONGER SOIL. STAINING CIRCLES. 6' x 6' x 6" AFFIXED TO PAPER. CONC. DEPTH - 6' - 11" (bottom)  
LAT. 46° 47' 43.42 N  
LONG. 74° 05' 01.74 W  
WEATHER: SAME AS PREVIOUSLY

LOGGED AT 1152.

SAMPLES - SAME (JA, AMN)

ALL THESE INSTRUMENTS - LOGGED AT 1152. START/STOP TIMES FOR SAMPLING SPANGLER. ARE NO THERMALS AND LOGGED BY LINA.

Start Stop  
MUEF 1153 1158  
ACUTEST 1148 1153  
B<sub>2</sub>H 1140 1147

1158 Sediment sampler complete. All containers sealed, labeled, glass wrapped in bubblewrap, and stored for KEMENY AT

Location: McINDOSSE WILDS - 193 Date: 11/17/03

Project / Client:

1410 KIMSD-01 (HYOCALONS)

LAT: 48° 45' 44.08 N

LONG: 114° 07' 35.32 W

NO TIDAL INFLUENCE, FEW BIRDS

SHEDESCRIPTION: STRONG

LOCATED BY RESEARCHER AT

LEAD CHIMNEY-LIKE PILE. DOMINANT

SINGLELINE VEG. CATINUS, PHEAS,

AND PRAIRIE WASTELAND. PG 416

FINDING MOOSE FEED SITE. PHEAS

FEW SOUTHWEST OF SAMPLE SITE.

Weather: 95°-97°F, WINDS NNW

@ 10-20 mph, SKIES CLEAR WITH

CECILS STARTING TO FEED.

Temp: 24.98°C

Sal: 0.92

DO%: 147.0

DO CONC: 10.40 mg/L

SpCons: 1.723

PH: 8.09

ORP: 286

TDS: 1104

SUBSTRATE: WOOD - STABLE

Location: McINDOSSE WILDS Date: 11/17/03

Project / Client:

2. PRAIRIE STRIPES (HYOCALONS)

a. LENTICULAR SEDIMENT AND

a. FINESTRA TIE THEORETICAL LESSON

NOT ACCURATE BY OTHER LABS.

WILL USE A SIMILAR TECH TO

ACCESS SAMPLE SITES.

Report MERE, on glass bottles

sampled used. BETH-BECKING

(4) FROM CRITICALLY PLACED, IN

MERE LABS FOR CORRECT PLO. READ

IN ALL CONDITIONS LOOK UNL

F. pick up to give to BETH

lab (@ 1800 hrs).

1335 Arrive. Keeping Freshwater marsh.

Leave. Boat main launch.

BOAT BRETT BRAGIN (MERE) guide

TO ASSIST WITH BOAT OPERATIONS

also BENTON sampling.

1400 Depart Boat launch for 1st

sampling site.

1405 Arrived at KIMSD-01-MERE

OLD SITE #7, CREW: CAPT. AL M.

JIM ANDERSON (LEAD) + BRETT

TOGGIN (MERE)

Location: MEADOWLANDS, NJ

Date: 9/17/03

Project / Client:

PIT 18 - FRAME N FROM SITE  
PIT 16 - FRAME S FROM SITE

7417 KM-SD-01 (SEDIMENT)

SAMPLERS - CAPT. AL MERJESKI (UM)

JIM ALDERSON (EMSA)

LAT: 40° 45' 44.08" N

LONG: 74° 07' 55.32" W

COLL. DEPTH - BOTTOM - 2'

STRETCH / STOP TIMES ARE

GIVEN BELOW BY JONICHOVA

LAP. GIVES WERE BY AL PERAZZINI

Start Stop

MERGE - 1433 1435

B&amp;H - 1417 1429

Accutest 1429 1433

SEDIMENT SOFT AND OOZY. EMSA

TO COLLECT SEDIMENT SAMPLE

TAKEN WITH EKMAN STRAINER

STEEL CURTAIN (6" x 6" x 6") WITH

ATTACHED POLE - SEDIMENT

SAMPLE TAKEN CLOSE TO PIVOT

HAMMOCK (@ 3'-5' AWAY)

C

Location: MEADOWLANDS, NJ

Date: 9/17/03

Project / Client:

1435

SEDIMENT SAMPLING COMPLETE

GLASS CONTAINERS LABELED, SEALED,  
CHILLED, AND BUBBLE WRAPPED. EACH IS  
SEALED, LABELED, AND STORED

ADDRESS TO: UMMS SPECIFICATIONS

1435 KM-SD-01 (BENTHOS)

BENTHIC SAMPLING DONE WITH

STAINLESS STEEL PETIT PONNE

GRAB. THE FOLLOWING SAMPLE

TIMES IN TRIPLICATE: GLOVES WORN

START STOP

KM-SD-01A (REP 1) 1435 1441

KM-SD-01B (REP 2) 1441 1450

KM-SD-01C (REP 3) 1455 1504

AHEAD TO PICKING UP WITH FORMALIN

POMME GRAB RAISED WITH SITE WALKER

TO GET ALL ORGANISMS FROM SAMPLE.

REP 1 - FULL BUCKET OBTAINED (GRAB)

REP 2 - FULL BUCKET OBTAINED (GRAB)

SIEVE EMSA AND ALL BUCKETS

TO ENSURE SAMPLE INTEGRITY

REP 3 - FULL BUCKET (GRAB)

C



Location: Middletown, NJ Date: 9/17/03

Project: Clifford

Benthic samples dredged through  
500 micron strainers steel mesh.  
Used same sieving system  
established in Riverview Marsh.  
Samples placed in plastic  
bags with containers and labels.  
Keps put in 2 jars.

Preservative times:

Rep 1 - 1443  
Rep 2 - 1453  
Rep 3 - 1505

Benthic sample preserved w/10%  
formalin.

~~AVG~~  
~~1510~~  
AVG  
1510 <sup>AVG</sup>  
~~DEPART STATION KM-60-01~~

1452 DECONTAMINATION OF ERMAN, BOWL,  
Buckets and spoon.

① Site Water 1453/1457  
Along of  
D/W Runse

*R*

Location: Middletown, NJ Date: 9/17/03

Project: Clifford

① Nitrite 1457/1457  
D/W Runse

② Alkaline 1500/1510  
D/W Runse

= BEINGS DECONTAMINATED TWICE  
SINCE SMALL SEDIMENT PARTICLES  
WERE STILL VISIBLE AFTER 1st  
DECON. NEW GLOVES USED

1510 - DECON COMPLETE

1515 - DEPART KM-60-01

1535 ARRIVE KM-60-02

SAMPLERS - SHOT IN ALUMINUM (ENSE)  
JIM MURKINSON (ENSE)  
BUTTT BROWN (METER)

LAT. 40° 45' 37.67 N

LONG. 74° 07' 43.00 W

NO THIN (MILWAUKEE (F.W.))

PRICE AND SITE #13,

SITE (DECONTAMINATION) OPEN WATER  
SITE located between two

*R*

Location: MIDWAY ISLANDS - NJ

Date: 9/17/03

Project: OWS

ISLANDS. PICTURE 14 - TAKEN EAST  
FROM SITE. PICTURE 15 - TAKEN  
WEST FROM SITE. PIC 19 - EAST  
OF SITE SHOWING SUNKEN TONGUE  
EXPOSED.

VESSEL: 14' ALUMINUM HULL w/  
25 HP motor (hand fill)

Weather: 72-73°F, WIND NNW 10-20 kph

1541 KM-SD-02 (HYDROG)

LAT: 40° 45' 37.67 N

LONG: 74° 07' 43.60 W

Temp 29.59

Sal 1.32

DO% 144.5

Drygk 9.67

SpCond 2.448

pH 8.61

Chl 310

TDS 1.576

SAMPLE TAKEN FROM SURFACE  
WATER

✓

Location: MIDWAY ISLANDS - NJ

Date: 9/17/03

Project: OWS

1545

KM-SD-02 (KINSAE BLANK)

6L RUBBER JAGS TIED AND 1  
PLASTIC CONTAINER w/ HNO<sub>3</sub>.  
SAMPLE COLLECTED WITH EXHAUST  
TRANSFERRED TO STAINLESS

STEEL BOWL w/ SPOON

NOO JARCES IN CONTAINERS  
USED SUPPLIED BY FLEM  
LAB.

1559

KM-SD-02 KINSAE COMPLETE

INSTRUMENT DOES NOT NEED KINSAE

1605

KM-SD-02 (SEDIMENT)

SEDIMENT SAMPLE TAKEN WITH

ERMAN STAINLESS STEEL GRAB

(6" x 6" x 6") AFFIXED TO A PUL.

SAMPLERS: AC MOOSEK (ENSE)

JIM ANDERSON (ENSE)

(DOING BENTHIC CONCURRENTLY)

FROM STERN WITH PUMPER (PUMP)

LAT: 40° 45' 37.67 N

LONG: 74° 07' 43.60 W

SITE: OPEN WATER

COLL. DEPTH: 2-2.5'

VESSEL: 14' ALUM., 25 HP

✓

Location: MENOKS RAMP, NJ Date: 9/17/03Project: Cliff

Times of SAMPLE FOR EACH

LWB AS FALLS

Start Stop

MEET 1617 1624

ALCORNST 1611 1618

B: H 1613 1638

Only getting  $\frac{1}{2}$  to  $\frac{1}{4}$  full grabs  
 Sediment full of rhizomes and  
 organics, detritus. Have to get  
 good sample.

1608 KM-SD-OZ (Berthia)

Open water, using Right

TONG STAINLESS STEEL

STOP

START

KM-SD-OZA (REP 1)

1608

1617

KM-SD-OZ B (REP 2)

1629

1641

KM-SD-OZ C (REP 3)

1645

1655

Preservative times (10% formalin)

REP 1 - 1619

REP 2 - 1643

REP 3 - 1656

} all 1 jar each.

R

Location: MENOKS RAMP, NJ Date: 9/17/03Project: Cliff

ALL SAMPLES STORED IN 500  
 MILLON MESH BAGS (BOSTON)  
 SAMPLES PRESERVED IN 10%  
 FORMALIN

1634: Sediment samples for Acetate  
 and Most-Bubblerapped and  
 iced. All labels double checked.

1638: SEDIMENT SAMPLING COMPLETE.  
 Bucket closed, labeled, and  
 stored according to LWB's  
 specifications.

1644 Decontamination of EQUIP,  
 SPOON, BOWL, and bucket.  
 Clean latex gloves used.

1656 DECON. DONE. EQUIP STORED  
 WITH TINS CLOSED.

1657 Depart KM-SD-OZ for final  
 SITE. All gear stored and  
 secured.

R

Location METACRAWFORDS NJ Date 9/17/03

Project/Client

1707 Avenue A KM-SD-03  
 Samplers - Capt. H. Morrison (Inst)  
 Jim Adresson (Inst)  
 Additional Crew - Brett Brown (Inst)  
 Lat: 40° 46' 48.87 N  
 Long: 74° 07' 18.63 W  
 Few marsh / no tide influence  
 Site, western end of km adjacent  
 to Pumping Station Building  
 Along shoreline of tidal  
 lagoon dominated by Purple  
 Loosetide and remnant coral  
 stumps  
 vessel - 14' Aluminum, 25 hp  
 weather - 69° - 72°F, wind  
 NNE 10-20 mph (breezy),  
 skies clear  
 water depth - 4'  
 no bottles taken here.

W

Location METACRAWFORDS NJ Date 9/17/03

Project/Client

1715 KM-SD-03 (HydroLab)  
 Temp - 23.96°C  
 Sal - 1.32  
 DO% - 132.11  
 DO mg/L - 9.04  
 SpCon - 2.468  
 pH - 8.014  
 ORP - 299  
 TDS - 1.577

1723 KM-SD-03 (Sediment)  
 Times for individual grabs  
 are as follows  
 Sample taken with a 6' x 6' x 6"  
 stainless steel coring grab  
 returned to a core  
 lat: 40° 45' 48.89 N  
 Long: 74° 07' 18.63 W  
 Core Depth - 4'  
 SAMP 818P  
 MEXI 1723 1728  
 ACARB 1721 1731  
 BSH 1725 1743

W

Date 9/17/03

Location MENDOCINO

Project/Client

1731 Performing a duplicate sediment sample for Accretion. Also note B;H, per Rover track, does not require a duplicate sample.

Start stop  
Accretion: 1738, 1737  
Merge: 1731, 1733

1743 Sediment sampling complete. Samples labeled, bubble wrapped, and iced/dry ice according to individual lab specifications.

1745 Depart KM-SD-03 for Boat launch. Skies cloudy and winds more consistent. Must take water a bit of samples and atmospheric debris so may take time to get back to Boat launch.

Date 9/17/03

Location MENDOCINO

Project/Client

1805 Arrive Boat launch. Towed boat, unloaded samples and gear to trucks. Cleaned boat deck.

No 'Records' of gear returned. This is last site of survey and gear will not be used anymore for this survey.

1840 Arrive mens lab. Met with B;H lab and relinquished samples. Filled out COC, and inventoried bucket samples.

1845 Samples relinquished to B;H, iced, and placed in large coolers.

1846 Samples relinquished to MESA. COC signed and all samples



Location: Memphis, TN Date: 9/17/03

Project Name:

re-iced and accounted for.

1847 Re-ice Accutest coolers,  
checking sample labels, filed  
COCS, and re-packed coolers  
to preserve samples. Accutest  
will pick samples tomorrow  
at ENSR office @ 9-10 AM.

1905 Depart Motel for ENSR  
office.

2000 Arrive ENSR. Unloaded  
ACCUTEST COOLERS, SEARCHED  
AND ACCOUNTED FOR. AKA  
PICKUP. Will unload TUBS,  
THERMOS AND SHED GEAR.

2025 Depart ENSR.

Date

Location

Project Name





View showing mouth of main channel of Sawmill Creek Wildlife Management Area. Sample SAW-SD-001 taken along east side of channel.



Photo 2: View showing vegetation type along shoreline near sample site SAW-SD-001. Shoreline vegetation consists of smooth cordgrass (*Spartina alterniflora*).



Photo 3: View facing west showing Sawmill Wildlife Management Area with a shoreline dominated by *Phragmites* and a marsh dotted with *Spartina alterniflora*.



Photo 4: View facing east showing the interior of the Secaucus High School Marsh with thickly growing *Phragmites*.





Photo 5: View facing west showing the 21' privateer in the main channel surrounded by the dominant *Phragmites*.



Photo 6: View facing east towards overgrown banks of ditch heading into the third sampling site.



Photo 7: View showing the sampling area for Sample SHSM-SD-02.



Photo 8: View showing Oritani Marsh Sampling Site OM-SD-001, a tidal creek surrounded by thickly growing *Phragmites*.





Photo 9: View facing east from railroad tracks showing Oritani Marsh Sampling Site OM-SD-001.



Photo 10: View facing east showing Oritani Marsh Sampling Site OM-SD-002 in a salt panne surrounded by *Phragmites* and an ENSR scientist extracting the Eckman with a sediment sample.



Photo 11: View of an ENSR scientist dispensing the Oritani Marsh sediment sample from the Eckman sampling device into a bucket.





Photo 12: View of ENSR scientist dispensing sample for Accutest from a stainless steel bowl with a stainless steel spoon to an 8 ounce amber jar.



Photo 13: View facing north of Kearny Freshwater Marsh Sampling Site KM-SD-001 with purple loosestrife (*Lythrum salicaria*) and broad-leaved cattail (*Typha latifolia*) in the background.



Photo 14: View facing south showing Kearny Freshwater Marsh Sampling Site KM-SD-002.



Photo 15: View facing east showing open water at Kearny Freshwater Marsh with islands of *Phragmites* in background.





Photo 16: View facing west showing open water at Kearny Freshwater Marsh.



Photo 17: View facing southeast of Kearny Freshwater Marsh with sunken Ford Explorer.