

APPENDIX H

CHAIN-OF-CUSTODY FORMS

Shallow Water Habitat
Bioaccumulation Survey
San Diego Bay
(SWHB)

April-May, 2014



CHAIN of CUSTODY

SEND TO: Associated Labs

| COMPANY NAME Physis Environmental Laboratories, Inc. | | EMAIL sc@physislabs.com | | PROJECT NAME / NUMBER 14-04003-002 | | | COC PAGE 1 of 1 | | |
|--|--------------------|--|-------------|---|--------------|--|---------------------------|--|--|
| PROJECT MANAGER Misty Mercier | | FAX 714 602-5321 | | PD# | | PHYSIS SOS# 14-04003 | | | |
| COMPANY ADDRESS 1904 E. Wright Circle Anaheim, CA 92806 | | PHONE 714 602-5320 office 714 335-5918 cell | | SAMPLED BY | | TYPE OF ICE USED <input type="checkbox"/> WET <input type="checkbox"/> BLUE <input type="checkbox"/> DRY | | | |
| TURNAROUND TIME <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> RUSH <small>business days</small> | | REPORT FORMAT <input checked="" type="checkbox"/> PDF/EDD <input type="checkbox"/> SWAMP EDD <input type="checkbox"/> other | | SPECIAL INSTRUCTIONS please report down the MDL | | SHIPPED VIA <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Physis <input type="checkbox"/> other | | | |
| PHYSIS MATRIX CODES SW = seawater FW = freshwater RW = rainwater WW = wastewater DW = drinking water S = sediment I = tissue E = extract O = other (specify) | | REQUESTED ANALYSES | | | | | | | |
| | | | | DOC | | TOC | | | |
| SAMPLE ID | SAMPLE DESCRIPTION | SAMPLE date | SAMPLE time | physis matrix code | # of bottles | | | | |
| 1 | SW HB-15 | 5/7/14 | 15:00 | W | 2 | X | X | | |
| 2 | SW HB-21 | 5/7/14 | 10:50 | W | 2 | X | X | | |
| 3 | SW HB-EB | 5/7/14 | 09:45 | W | 2 | X | X | | |
| 4 | SW HB-FB | 5/7/14 | 09:30 | W | 2 | X | X | | |
| 5 | SW HB-01 | 5/8/14 | 08:40 | W | 2 | X | X | | |
| 6 | SW HB-22 | 5/8/14 | 12:30 | W | 2 | X | X | | |
| 7 | SW HB-26 | 5/8/14 | 15:15 | W | 2 | X | X | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| RELINQUISHED BY <small>print</small> Adam Idell | | | | signature | | company Physis | | date & time 5/9/14 09:13 | |
| RECEIVED BY <small>print</small> M. Eckert | | | | signature | | company Associated Labs | | date & time 05/09/14 09:13 | |

PHYSIS

**CHAIN OF
CUSTODY**

TERRA ENVIRONMENTAL LABORATORIES, INC. AURA

Innovative Solutions for Nature

1404003-002
 1404008-001
 RGL

Analysis Request and Chain of Custody
City of San Diego
 San Diego Bay Zooplankton Bioaccumulation Study

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|--------|-------------------------|---------------------------------------|-------------|--------------------|--------------------|--------------|
| SWHB-FB | 5/7/14 | 0930 1830 | DOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) | 1 |
| SWHB-FB | ↓ | ↓ | TOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) + H2SO4 | 1 |
| SWHB-FB | | | Total & Dissolved Mercury (EPA 245.7) | Grab | 250 mL HDPE | Cold (4°C) | 1 |
| SWHB-FB | | | TSS (SM 2540D) | Grab | 1000 mL HDPE | Cold (4°C) | 1 |

Comments:

Sampler's Initials: CS

Relinquished By: [Signature]

Date/Time: 5/6/14 1830

Received By: [Signature]

Date/Time: 5/6/14 18:30

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody
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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|--------|----------------------|---------------------------------------|-------------|--------------------|--------------------|--------------|
| SWHB-EB | 5/7/14 | 0945 1830 | DOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) | 1 |
| SWHB-EB | | | TOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) + H2SO4 | 1 |
| SWHB-EB | | | Total & Dissolved Mercury (EPA 245.7) | Grab | 250 mL HDPE | Cold (4°C) | 1 |
| SWHB-EB | | | TSS (SM 2540D) | Grab | 1000 mL HDPE | Cold (4°C) | 1 |

Comments:

Sampler's Initials: CS

Relinquished By: [Signature] Date/Time: 5/8/14 1830

Received By: [Signature]

Date/Time: 5/8/14 18:30

Relinquished By: _____ Date/Time: _____

Received By: _____

Date/Time: _____

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|--------|------|---------------------------------------|-------------|--------------------|--------------------|--------------|
| SWHB-21 | 5/7/14 | 1050 | DOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) | 1 |
| SWHB-21 | | | TOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) + H2SO4 | 1 |
| SWHB-21 | | | Total & Dissolved Mercury (EPA 245.7) | Grab | 250 mL HDPE | Cold (4°C) | 1 |
| SWHB-21 | | | TSS (SM 2540D) | Grab | 1000 mL HDPE | Cold (4°C) | 1 |

Comments:

Sampler's Initials: JS

Relinquished By: [Signature]

Date/Time: 5/8/14 1830

Received By: [Signature]

Date/Time: 5/8/14 18:30

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

1404003-002

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 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|--------|------|---------------------------------------|-------------|--------------------|--------------------|--------------|
| SWHB-15 | 5/7/14 | 1500 | DOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) | 1 |
| SWHB-15 | ↓ | ↓ | TOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) + H2SO4 | 1 |
| SWHB-15 | | | Total & Dissolved Mercury (EPA 245.7) | Grab | 250 mL HDPE | Cold (4°C) | 1 |
| SWHB-15 | | | TSS (SM 2540D) | Grab | 1000 mL HDPE | Cold (4°C) | 1 |

Comments:

Sampler's Initials: CS

Relinquished By: [Signature]

Date/Time: 5/7/14 18:30

Received By: [Signature]

Date/Time: 5/8/14 18:30

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|--------|------|---------------------------------------|-------------|--------------------|--------------------|--------------|
| SWHB-01 | 5/8/14 | 0840 | DOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) | 1 |
| SWHB-01 | | | TOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) + H2SO4 | 1 |
| SWHB-01 | | | Total & Dissolved Mercury (EPA 245.7) | Grab | 250 mL HDPE | Cold (4°C) | 1 |
| SWHB-01 | | | TSS (SM 2540D) | Grab | 1000 mL HDPE | Cold (4°C) | 1 |

Comments:

Sampler's Initials: JS

Relinquished By: [Signature] Date/Time: 5/8/14 1830

Received By: [Signature] Date/Time: 5/8/14 18:30

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

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 San Diego Bay Zooplankton Bioaccumulation Study

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 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|--------|------|---------------------------------------|-------------|--------------------|--------------------|--------------|
| SWHB-22 | 5/8/14 | 1230 | DOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) | 1 |
| SWHB-22 | | | TOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) + H2SO4 | 1 |
| SWHB-22 | | | Total & Dissolved Mercury (EPA 245.7) | Grab | 250 mL HDPE | Cold (4°C) | 1 |
| SWHB-22 | | | TSS (SM 2540D) | Grab | 1000 mL HDPE | Cold (4°C) | 1 |

Comments:

Sampler's Initials: CS

Relinquished By: [Signature]

Date/Time: 5/8/14 1230

Received By: [Signature]

Date/Time: 5/8/14 12:30

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

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 San Diego Bay Zooplankton Bioaccumulation Study

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|--------|------|---------------------------------------|-------------|--------------------|--------------------|--------------|
| SWHB-26 | 5/8/14 | 1515 | DOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) | 1 |
| SWHB-26 | | | TOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) + H2SO4 | 1 |
| SWHB-26 | | | Total & Dissolved Mercury (EPA 245.7) | Grab | 250 mL HDPE | Cold (4°C) | 1 |
| SWHB-26 | | | TSS (SM 2540D) | Grab | 1000 mL HDPE | Cold (4°C) | 1 |

Comments:

Sampler's Initials: JS

Relinquished By: _____

Date/Time: 5/8/14 1830

Received By: [Signature]

Date/Time: 5/8/14 18:30

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: PHYSIS ENVIRO- Project: 1404003-003
 Date Received: 5/10/14 Sampler's Name: Yes NO
 Sample temperature: _____
 Sample(s) received in cooler: Yes No (Skip Section 2)
 Shipping Information: _____

Section 2
 Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam
 Paper None Other _____
 Cooler Temperature: 30c

(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample ≤10 Deg. C or arrival on ice)

| Section 3 | YES | NO | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| Was a COC received? | <input checked="" type="checkbox"/> | | |
| Is it properly completed? (IDs, sampling date and time, signature, test) | <input checked="" type="checkbox"/> | | |
| Were custody seals present? | | <input checked="" type="checkbox"/> | |
| If Yes - were they intact? | | | <input checked="" type="checkbox"/> |
| Were all samples sealed in plastic bags? | <input checked="" type="checkbox"/> | | |
| Did all samples arrive intact? If no, indicate below. | <input checked="" type="checkbox"/> | | |
| Did all bottle labels agree with COC? (ID, dates and times) | <input checked="" type="checkbox"/> | | |
| Were correct containers used for the tests required? | <input checked="" type="checkbox"/> | | |
| Was a sufficient amount of sample sent for tests indicated? | <input checked="" type="checkbox"/> | | |
| Was there headspace in VOA vials? | | | <input checked="" type="checkbox"/> |
| Were the containers labeled with correct preservatives? | <input checked="" type="checkbox"/> | | |
| Was total residual chlorine measured (Fish Bioassay samples only)? * | | | <input checked="" type="checkbox"/> |

*: If the answer is no, please inform Fish Bioassay Dept. immediately.

Section 4
 Explanations/Comments

Section 5
 Was Project Manager notified of discrepancies: Y / N N/A
 Project Manager's response: _____

Completed By: _____

Date: _____

5/10/14

PHYSIS

**CHAIN OF
CUSTODY**

TERRA ENVIRONMENTAL LABORATORIES, INC. AURA

Innovative Solutions for Nature

1404008-002

Analysis Request and Chain of Custody

City of San Diego

San Diego Bay Zooplankton Bioaccumulation Study

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
9210 Sky Park Court, Suite 200
San Diego, CA 92123
Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|--------|------|---------------------------------------|-------------|--------------------|--------------------|--------------|
| SWHB-06 | 5/9/14 | 1550 | DOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) | 1 |
| SWHB-06 | | | TOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) + H2SO4 | 1 |
| SWHB-06 | | | Total & Dissolved Mercury (EPA 245.7) | Grab | 250 mL HDPE | Cold (4°C) | 1 |
| SWHB-06 | | | TSS (SM 2540D) | Grab | 1000 mL HDPE | Cold (4°C) | 1 |

Comments:

Sampler's Initials: CS

Relinquished By: [Signature]

Date/Time: 5/9/14 1910

Received By: [Signature]

Date/Time: 5/9/14 1910

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody
City of San Diego
 San Diego Bay Zooplankton Bioaccumulation Study

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: 858-300-4350 Fax: 858-300-4301

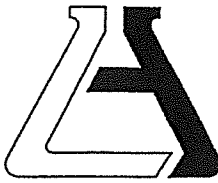
To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|--------|------|---------------------------------------|-------------|--------------------|--------------------|--------------|
| SWHB-40 | 5/9/14 | 1235 | DOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) | 1 |
| SWHB-40 | | | TOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) + H2SO4 | 1 |
| SWHB-40 | | | Total & Dissolved Mercury (EPA 245.7) | Grab | 250 mL HDPE | Cold (4°C) | 1 |
| SWHB-40 | | | TSS (SM 2540D) | Grab | 1000 mL HDPE | Cold (4°C) | 1 |

Comments:

Sampler's Initials: JS
 Relinquished By: [Signature] Date/Time: 5/9/14 1910 Received By: [Signature] Date/Time: 5/9/14 1910
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____



ASSOCIATED LABORATORIES

806 North Batavia – Orange, California 92868 – 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: PHYSIS ENVIRO - Project: 1404008-003
 Date Received: 5/14/14 Sampler's Name: Yes No
 Sample temperature: _____
 Sample(s) received in cooler: Yes No (Skip Section 2)
 Shipping Information: _____

Section 2
 Was the cooler packed with: Ice _____ Ice Packs _____ Bubble Wrap _____ Styrofoam
 _____ Paper _____ None _____ Other _____
 Cooler Temperature: 30C

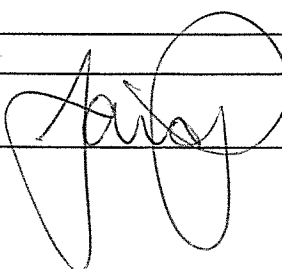
(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample ≤ 10 Deg. C or arrival on ice)

| Section 3 | YES | NO | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| Was a COC received? | <input checked="" type="checkbox"/> | | |
| Is it properly completed? (IDs, sampling date and time, signature, test) | <input checked="" type="checkbox"/> | | |
| Were custody seals present? | | <input checked="" type="checkbox"/> | |
| If Yes – were they intact? | | | <input checked="" type="checkbox"/> |
| Were all samples sealed in plastic bags? | | <input checked="" type="checkbox"/> | |
| Did all samples arrive intact? If no, indicate below. | <input checked="" type="checkbox"/> | | |
| Did all bottle labels agree with COC? (ID, dates and times) | <input checked="" type="checkbox"/> | | |
| Were correct containers used for the tests required? | <input checked="" type="checkbox"/> | | |
| Was a sufficient amount of sample sent for tests indicated? | <input checked="" type="checkbox"/> | | |
| Was there headspace in VOA vials? | | | <input checked="" type="checkbox"/> |
| Were the containers labeled with correct preservatives? | | | <input checked="" type="checkbox"/> |
| Was total residual chlorine measured (Fish Bioassay samples only)? * | | | <input checked="" type="checkbox"/> |

*: If the answer is no, please inform Fish Bioassay Dept. immediately.

Section 4
 Explanations/Comments

Section 5
 Was Project Manager notified of discrepancies: Y / N N/A
 Project Manager's response: _____

Completed By:  Date: 5/14/14

PHYSIS

**CHAIN OF
CUSTODY**

TERRA ENVIRONMENTAL LABORATORIES, INC. AURA

Innovative Solutions for Nature

Analysis Request and Chain of Custody
City of San Diego
 San Diego Bay Zooplankton Bioaccumulation Study

From:

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To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|---------------------------------------|-------------|--------------------|--------------------|--------------|
| SWHB-30 | 5/12/14 | 0800 | DOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) | 1 |
| SWHB-30 | | | TOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) + H2SO4 | 1 |
| SWHB-30 | | | Total & Dissolved Mercury (EPA 245.7) | Grab | 250 mL HDPE | Cold (4°C) | 1 |
| SWHB-30 | | | TSS (SM 2540D) | Grab | 1000 mL HDPE | Cold (4°C) | 1 |

Comments:

Sampler's Initials: BLS

Relinquished By: [Signature] Date/Time: _____

Received By: [Signature] Date/Time: 5/14/14

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 12:06

Analysis Request and Chain of Custody

City of San Diego

San Diego Bay Zooplankton Bioaccumulation Study

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
9210 Sky Park Court, Suite 200
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To:

Physis Environmental Laboratories, Inc.
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1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|---------------------------------------|-------------|--------------------|--------------------|--------------|
| SWHB-27 | 5/12/14 | 1055 | DOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) | 1 |
| SWHB-27 | | | TOC (EPA 415.3) | Grab | 250 mL Amber Glass | Cold (4°C) + H2SO4 | 1 |
| SWHB-27 | | | Total & Dissolved Mercury (EPA 245.7) | Grab | 250 mL HDPE | Cold (4°C) | 1 |
| SWHB-27 | | | TSS (SM 2540D) | Grab | 1000 mL HDPE | Cold (4°C) | 1 |

Comments:

Sampler's Initials: BCS

Relinquished By: [Signature]

Date/Time: _____

Received By: [Signature]

Date/Time: 5/14/14

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: 12:00

CHAIN OF CUSTODY

TERRA FUTURE ENERGY SOLUTIONS AURA
ENVIRONMENTAL LABORATORIES, INC.

Innovative Solutions for Nature

San Diego Bay - Shallow Water Habitat Tissue Samples for Chemical Analysis - Physis
Collected: April 2014

| Sample # | Region | StationID | SampleID | Bioaccumulation SampleID | Type | Common Name | Weight (g) | No. Individuals | Processing Instructions | Comment |
|----------|-----------------------|-----------|------------------|--------------------------|-------------|--------------------|------------|-----------------|--|---|
| 1 | San Diego Bay North | SWHB-26 | SWHB-26-SBB | SWHB-26-SSB | Fish | Spotted sand bass | Unknown | 5 | Combine and analyze all fish | |
| 2 | San Diego Bay North | SWHB-26 | SWHB-26-CH | SWHB-26-CH | Fish | California halibut | Unknown | 5 | Combine and analyze all fish | |
| 3 | San Diego Bay North | SWHB-26 | SWHB-26-SP-Small | SWHB-26-SP-1 | Fish | Shiner perch | Unknown | 5 | Sub-sample: Combine and analyze the 5 smallest fish in bag | Small sub-sample for wild life analysis |
| | San Diego Bay North | SWHB-26 | SWHB-26-SP-Large | SWHB-26-SP-2 | Fish | Shiner perch | Unknown | 5 | Sub-sample: Combine and analyze the 5 largest fish; process for Human Health Risk Assess. | Large sub-sample to be process for human health risk |
| 4 | San Diego Bay North | SWHB-26 | SWHB-26-BP | SWHB-26-BP | Fish | Black perch | Unknown | 6 | Combine and analyze all fish | |
| 5 | San Diego Bay North | SWHB-26 | SWHB-26-C | SWHB-26-C-1 | Crustacea | Crustacea | 10.2 | Unknown | Combine and analyze all | |
| 6 | San Diego Bay North | SWHB-26 | SWHB-26-P | SWHB-26-P | Polychaetes | Polychaetes | 11.2 | Unknown | Combine and analyze all | |
| 7 | San Diego Bay North | SWHB-26 | SWHB-26-M | SWHB-26-M | Mollusks | Mollusks | 45.4 | Unknown | Combine and analyze all | Small clams |
| 8 | San Diego Bay North | SWHB-26 | SWHB-26-FC | SWHB-26-C-2 | Crustacea | Brown shrimp | 15 | Unknown | Analyze single shrimp | F. Californiensis |
| 9 | San Diego Bay North | SWHB-26 | SWHB-26-ZP | SWHB-26-Pik | Plankton | Plankton | 9.1 | Unknown | Analyze all | |
| 10 | San Diego Bay North | SWHB-27 | SWHB-27-SBB | SWHB-27-SSB | Fish | Spotted sand bass | Unknown | 6 | Combine and analyze all fish | |
| 11 | San Diego Bay North | SWHB-27 | SWHB-27-CH | SWHB-27-CH | Fish | California halibut | Unknown | 6 | Combine and analyze all fish | |
| 12 | San Diego Bay North | SWHB-27 | SWHB-27-SP | SWHB-27-SP | Fish | Shiner perch | Unknown | 6 | Combine and analyze all fish | |
| 13 | San Diego Bay North | SWHB-27 | SWHB-27-P | SWHB-27-P | Polychaetes | Polychaetes | 5.4 | Unknown | Combine and analyze all | |
| 14 | San Diego Bay North | SWHB-27 | SWHB-27-M | SWHB-27-M | Mollusks | Mollusks | 54.4 | Unknown | Combine and analyze all | Small clams |
| 15 | San Diego Bay North | SWHB-27 | SWHB-27-ZP | SWHB-27-Pik | Plankton | Plankton | 12 | Unknown | Analyze all | |
| 16 | San Diego Bay North | SWHB-30 | SWHB-30-SBB | SWHB-30-SSB | Fish | Spotted sand bass | Unknown | 5 | Combine and analyze all fish | |
| 17 | San Diego Bay North | SWHB-30 | SWHB-30-CH | SWHB-30-CH | Fish | California halibut | Unknown | 5 | Combine and analyze all fish | |
| 18 | San Diego Bay North | SWHB-30 | SWHB-30-BP | SWHB-30-BP | Fish | Black perch | Unknown | 5 | Combine and analyze all fish | |
| 19 | San Diego Bay North | SWHB-30 | SWHB-30-C | SWHB-30-C-1 | Crustacea | Crustacea | 8 | Unknown | Combine and analyze all | |
| 20 | San Diego Bay North | SWHB-30 | SWHB-30-P | SWHB-30-P | Polychaetes | Polychaetes | 12.5 | Unknown | Combine and analyze all | |
| 21 | San Diego Bay North | SWHB-30 | SWHB-30-M | SWHB-30-M | Mollusks | Mollusks | 59.2 | Unknown | Combine and analyze all | Small clams |
| 22 | San Diego Bay North | SWHB-30 | SWHB-30-Crabs | SWHB-30-C-2 | Crustacea | Crabs | Unknown | 4 | Combine and analyze all | Portunis + sm. cancer crabs |
| 23 | San Diego Bay North | SWHB-30 | SWHB-30-ZP | SWHB-30-Pik | Plankton | Plankton | 53.6 | Unknown | Analyze all | |
| 24 | San Diego Bay Central | SWHB-01 | SWHB-01-SBB | SWHB-01-SSB | Fish | Spotted sand bass | Unknown | 5 | Combine and analyze all fish | |
| 25 | San Diego Bay Central | SWHB-01 | SWHB-01-CH | SWHB-01-CH | Fish | California halibut | Unknown | 5 | Combine and analyze all fish | |
| 26 | San Diego Bay Central | SWHB-01 | SWHB-01-SP | SWHB-01-SP | Fish | Shiner perch | Unknown | 4 | Combine and analyze all fish | |
| 27 | San Diego Bay Central | SWHB-01 | SWHB-01-C | SWHB-01-C-1 | Crustacea | Crustacea | 3.3 | Unknown | Combine and analyze all | |
| 28 | San Diego Bay Central | SWHB-01 | SWHB-01-P | SWHB-01-P | Polychaetes | Polychaetes | 13.5 | Unknown | Combine and analyze all | |
| 29 | San Diego Bay Central | SWHB-01 | SWHB-01-M | SWHB-01-M | Mollusks | Mollusks | 52.5 | Unknown | Combine and analyze all | Small clams |
| 30 | San Diego Bay Central | SWHB-01 | SWHB-01-FC | SWHB-01-C-2 | Crustacea | Brown shrimp | 15 | Unknown | Analyze brown shrimp alone; add the 4 small crabs to other infauna crustacea in SWHB-01-C | F. Californiensis |
| 31 | San Diego Bay Central | SWHB-01 | SWHB-01-ZP | SWHB-01-Pik | Plankton | Plankton | 10.6 | Unknown | Analyze all | |
| 32 | San Diego Bay Central | SWHB-06 | SWHB-06-SBB | SWHB-06-SSB | Fish | Spotted sand bass | Unknown | 5 | Combine and analyze all fish | |
| 33 | San Diego Bay Central | SWHB-06 | SWHB-06-CH-Small | SWHB-06-CH-1 | Fish | California halibut | Unknown | 5 | Sub-sample: Combine and analyze the 5 smallest fish in bag | Small replicate |
| | San Diego Bay Central | SWHB-06 | SWHB-06-CH-Large | SWHB-06-CH-2 | Fish | California halibut | Unknown | 5 | Sub-sample: Combine and analyze the 5 largest fish in bag | Large replicate |
| 34 | San Diego Bay Central | SWHB-06 | SWHB-06-P | SWHB-06-P | Polychaetes | Polychaetes | 8.5 | Unknown | Combine and analyze all polychaetes (excluding anemones. Fresh foil, Bag and re-freeze anemones) | Delivered foil package includes anemone. DO NOT TEST anemone, only polychaete worms |
| 35 | San Diego Bay Central | SWHB-06 | SWHB-06-M | SWHB-06-M | Mollusks | Mollusks | 53.1 | Unknown | Combine and analyze all | Small clams |
| 36 | San Diego Bay Central | SWHB-06 | SWHB-06-ZP | SWHB-06-Pik | Plankton | Plankton | 28.6 | Unknown | Analyze all | |

**San Diego Bay - Shallow Water Habitat Tissue Samples for Chemical Analysis - Physis
Collected: April 2014**

| Sample # | Region | StationID | SampleID | Bioaccumulation SampleID | Type | Common Name | Weight (g) | No. Individuals | Processing Instructions | Comment |
|----------|-----------------------|----------------|--------------------|--------------------------|-------------|--------------------|------------|-----------------|--|---|
| 37 | San Diego Bay Central | SWHB-40 | SWHB-40-SBB | SWHB-40-SSB | Fish | Spotted sand bass | Unknown | 6 | Combine and analyze all fish | |
| 38 | San Diego Bay Central | SWHB-40 | SWHB-40-CH | SWHB-40-CH | Fish | California halibut | Unknown | 5 | Combine and analyze all fish | |
| 39 | San Diego Bay Central | SWHB-40 | SWHB-40-SP | SWHB-40-SP | Fish | Shiner perch | Unknown | 6 | Combine and analyze all fish | |
| 40 | San Diego Bay Central | SWHB-40 | SWHB-40-C | SWHB-40-C | Crustacea | Crustacea | 8 | Unknown | Combine and analyze all | |
| 41 | San Diego Bay Central | SWHB-40 | SWHB-40-P | SWHB-40-P | Polychaetes | Polychaetes | 12.5 | Unknown | Combine and analyze all | |
| 42 | San Diego Bay Central | SWHB-40 | SWHB-40-M | SWHB-40-M | Mollusks | Mollusks | 59.2 | Unknown | Combine and analyze all | Small clams |
| 43 | San Diego Bay Central | SWHB-40 | SWHB-40-ZP | SWHB-40-Pik | Plankton | Plankton | 9.7 | Unknown | Analyze all | |
| 44 | San Diego Bay South | SWHB-15 | SWHB-15-SBB | SWHB-15-SSB | Fish | Spotted sand bass | Unknown | 2 | Combine and analyze both fish | |
| 45 | San Diego Bay South | SWHB-15 | SWHB-15-CH | SWHB-15-CH | Fish | California halibut | Unknown | 7 | Combine and analyze 5 smallest fish in bag | |
| 46 | San Diego Bay South | SWHB-15 | SWHB-15-SA-small | SWHB-15-SA | Fish | Slough anchovy | Unknown | 10 | Combine and analyze all fish | Small |
| 47 | San Diego Bay South | SWHB-15 | SWHB-15-C | SWHB-15-C | Crustacea | Crustacea | 2.8 | Unknown | Combine and analyze all | |
| 48 | San Diego Bay South | SWHB-15 | SWHB-15-P | SWHB-15-P | Polychaetes | Polychaetes | 1.7 | Unknown | Combine and analyze all | |
| 49 | San Diego Bay South | SWHB-15 | SWHB-15-M | SWHB-15-M | Mollusks | Mollusks | 5.9 | Unknown | Combine and analyze all | Small clams |
| 50 | San Diego Bay South | SWHB-15 | SWHB-15-ZP | SWHB-15-Pik | Plankton | Plankton | 11.9 | Unknown | Analyze all | |
| 51 | San Diego Bay South | SWHB-21 | SWHB-21-SBB | SWHB-21-SSB | Fish | Spotted sand bass | Unknown | 6 | Combine and analyze all fish | |
| 52 | San Diego Bay South | SWHB-21 | SWHB-21-CH-small | SWHB-21-CH-1 | Fish | California halibut | Unknown | 5 | Sub-sample: Combine and analyze the 5 smallest fish in bag | Small replicate |
| | San Diego Bay South | SWHB-21 | SWHB-21-CH-large | SWHB-21-CH-2 | Fish | California halibut | Unknown | 5 | Sub-sample: Combine and analyze the 5 largest fish in bag | Large replicate |
| 53 | San Diego Bay South | SWHB-21 | SWHB-21-C | SWHB-21-C | Crustacea | Crustacea | 2.2 | Unknown | Combine and analyze all fish | |
| 54 | San Diego Bay South | SWHB-21 | SWHB-21-P | SWHB-21-P | Polychaetes | Polychaetes | 3.6 | Unknown | Combine and analyze all polychaetes (excluding anemones. Fresh foil, Bag and re-freeze anemones) | Delivered foil package includes anemone. DO NOT TEST anemone, only polychaete worms |
| 55 | San Diego Bay South | SWHB-21 | SWHB-21-B | SWHB-21-M | Mollusks | Mollusks | 17.5 | Unknown | Combine and analyze all | Small clams |
| 56 | San Diego Bay South | SWHB-21 | SWHB-21-ZP | SWHB-21-Pik | Plankton | Plankton | 5.3 | Unknown | Analyze all | |
| 57 | San Diego Bay South | SWHB-22 | SWHB-22-SBB | SWHB-22-SSB | Fish | Spotted sand bass | Unknown | 6 | Combine and analyze all fish | |
| 58 | San Diego Bay South | SWHB-22 | SWHB-22-CH | SWHB-22-CH | Fish | California halibut | Unknown | 6 | Combine and analyze all fish | |
| 59 | San Diego Bay South | SWHB-22 | SWHB-22-SP | SWHB-22-SP | Fish | Shiner perch | Unknown | 2 | Combine and analyze all fish | |
| 60 | San Diego Bay South | SWHB-22 | SWHB-22-P | SWHB-22-P | Polychaetes | Polychaetes | 8.5 | Unknown | Combine and analyze all polychaetes (excluding anemones. Fresh foil, Bag and re-freeze anemones) | Delivered foil package includes anemone. DO NOT TEST anemone, only polychaete worms |
| 61 | San Diego Bay South | SWHB-22 | SWHB-22-M | SWHB-22-M | Mollusks | Mollusks | 25.5 | Unknown | Combine and analyze all | Small clams |
| 62 | San Diego Bay South | SWHB-22 | SWHB-22-ZP | SWHB-22-Pik | Plankton | Plankton | 13.8 | Unknown | Analyze all | |
| 63 | San Diego Bay North | SWHB-SD-North | SWHB-26-27-Goby | SWHB-North-G | Fish | Goby sp. | Unknown | 11 | Combine and analyze all gobies from Sites 26 and 27 | Sample composited from stations 26, 27 |
| 64 | San Diego Bay Central | SWHB-SD-Centra | SWHB-01-06-40-Goby | SWHB-Central-G | Fish | Goby sp. | Unknown | 12 | Combine and analyze all gobies from Sites 01, 06, and 40 | Sample composited from stations 01, 06, 40 |
| 65 | San Diego Bay South | SWHB-SD-South | SWHB-15-22-Goby | SWHB-South-G | Fish | Goby sp. | Unknown | 10 | Combine and analyze all gobies from Sites 15 and 22 | Sample composited from stations 15, 22 |

NOTE: Green shading provided only to visually differentiate different site locations in the table.

**San Diego Bay Shallow Water Habitat Benthic Trawl Collections for Bioaccumulation Tissue
(Epibenthic Invertebrates)**

| San Diego Subregion | Site | Date Sampled | Assorted Arthropods | <i>Musculista senhousia</i> | <i>Bulla gouldiana</i> | <i>Brown Shrimp Farfantepenaeus californiensis</i> | Bivalve (FID: <i>Argopecten ventricosus</i>) | <i>Portunus xantusii</i> and <i>Cancer</i> sp. |
|---------------------|------|--------------|---------------------|-----------------------------|------------------------|--|---|--|
| North | 26 | 4/22/14 | | | 29 | 1 | | |
| | 27 | 4/23/14 | | | | | | |
| | 30 | 4/23/14 | | | | | | 4 |
| Central | 1 | 4/22/14 | 5 | >100 | | 1 | | 4 |
| | 6 | 4/22/14 | | | 50 | | | |
| | 40 | 4/22/14 | | 20 | | | 1 | |
| South | 15 | 4/21/14 | | | | | | |
| | 21 | 4/21/14 | | | 1 | | | |
| | 22 | 4/21/14 | | | | | 1.0 | |

**San Diego Bay Shallow Water Habitat Benthic Collections for Bioaccumulation Tissue
(Invertebrates)**

| SD Bay Region | Site | Date Sampled (Infauna) | Benthic Infauna Sample Weights (grams) | | | | | | | Trawl Sample Invertebrates - Number of individuals | | | | | |
|---------------|---------|------------------------|--|-------------|----------------------------|------------------------|---------------------------|-----------|-------------------------------------|--|----------------------|-----------------|--------------------------------|---------|---------------------------------|
| | | | Polychaetes | Crustacea | Mollusca-Bivalve -sm clams | Gastropoda - sm snails | Gastropoda - Bulla Snails | Goby | Comments | Assorted Arthropods | Musculista senhousia | Bulla gouldiana | Brown Shrimp F. californiensis | Bivalve | Porunus xantusii and Cancer sp. |
| North | SWHB-26 | 4/17/14; 4/22/14 | 11.2 | 10.2 | 45.4 | 59.8 | X (unknown gram) | 5 (1.2g) | --- | --- | --- | 29 | 1 | --- | --- |
| | SWHB-27 | 4/18/14; 4/23/14 | 5.4 | 1.3 | 54.4 | --- | 51.4 | 6 (1.4g) | --- | --- | --- | --- | --- | --- | --- |
| | SWHB-30 | 4/18/14; 4/23/14 | 10.2 | 12.2 | 3.9 | 146 | --- | --- | Sipunculid in sample= 189 | --- | --- | --- | --- | --- | 4 |
| TOTAL | | | 26.8 | 23.7 | 104 | 206 | 51 | | | | | | | | |
| Central | SWHB-01 | 4/16/14; 4/22/14 | 13.5 | 3.3 | 52.5 | 4 (2.9g) | --- | 3 (1.0g) | Most bivalves are Musculista | 5 | >100 | --- | 1 | --- | 4 |
| | SWHB-06 | 4/17/14; 4/22/14 | 8.5 | 0.5 | 53.1 | 17.5 | --- | 8 (-2g) | Polychaete weight includes anemones | --- | --- | 50 | --- | --- | --- |
| | SWHB-40 | 4/16/14; 4/22/14 | 12.5 | 8 | 59.2 | 3 (1.9g) | --- | 1 (1.2g) | Most bivalves are Musculista | --- | 20 | --- | --- | 1 | --- |
| TOTAL | | | 34.5 | 11.8 | 165 | 17.5 | | | | | | | | | |
| South | SWHB-15 | 4/15/14; 4/21/14 | 1.7 | 2.8 | 5.9 | --- | --- | 8 (2.5 g) | Pheronids in sample= 3.2 g | --- | --- | --- | --- | --- | --- |
| | SWHB-21 | 4/16/14; 4/21/14 | 3.6 | 2.2 | 17.5 | 7.5 | 1 (32g) | --- | Polychaete weight includes anemones | --- | --- | 1. | --- | --- | --- |
| | SWHB-22 | 4/15/14; 4/21/14 | 8.5 | 0.7 | 25.5 | 4.5 | --- | 2 (0.7g) | --- | --- | --- | --- | --- | 1 | --- |
| TOTAL | | | 13.8 | 5.7 | 48.9 | 12 | | | | | | | | | |

ANALYSIS NOTES

Analyze brown shrimp alone, add 4 sm crabs to the infauna crustacea sample.

Recommend for analysis
Taken by Physis courier on 5/21/2015
Retained by AMEC in freezer 05/21/2015

**San Diego Bay Shallow Water Habitat Collections for Bioaccumulation
Tissue
(Zooplankton)**

| San Diego Bay Subregion | Site | Date Sampled | Wet Weight (g) |
|-------------------------|------|--------------|----------------|
| North | 26 | 5/8/14 | 9.07 |
| | 27 | 5/12/14 | 12 |
| | 30 | 5/12/14 | 53.6 |
| Central | 1 | 5/8/14 | 10.6 |
| | 6 | 5/9/14 | 28.6 |
| | 40 | 5/9/14 | 9.7 |
| South | 15 | 5/7/14 | 11.9 |
| | 21 | 5/7/14 | 5.3 |
| | 22 | 5/7/14 | 13.8 |

**San Diego Bay Shallow Water Habitat Benthic Trawl Collections for Bioaccumulation Tissue - Fish Species
and length range in mm)**

(#

| San Diego Bay Subregion | Site | Date Sampled | Spotted sand bass | CA halibut | Shiner perch | Spotted turbot | Diamond turbot | Slough anchovy | Barred sand bass | Kelp Bass (Calico Bass) | Black perch | Dwarf surfperch | Bay blenny | CO turbot |
|-------------------------|------|--------------|-------------------|---------------------|---------------------|----------------|----------------|----------------|------------------|-------------------------|------------------|-----------------|---------------|------------|
| North | 26 | 4/22/14 | 5** (125-140) | 5** (130-195) | 10 * ** (95-110) | | | | 10^ (55-100) | 10^ (58-87) | 6** (58-60) | 6^ (90-100) | 8^ (68-92) | |
| | 27 | 4/23/14 | 6** (62-108) | 6** (100-150) | 6** (62-108) | | | | | 1^ (130) | | | | |
| | 30 | 4/23/14 | 3** (235-310) | 5** (120-140) | | 3^ (75-133) | | | | 2^ (160,165) | 5** (115-150) | | | 1^ (95) |
| Central | 1 | 4/22/14 | 5** (135-155) | 5** (95-150) | 4** (45-105) | | | | | | | | | |
| | 6 | 4/22/14 | 5** (180-240) | 10 * ** (65-120) | | 5^ (80-120) | | | | | | | | |
| | 40 | 4/22/14 | 6** (80-135) | 5** (80-155) | 6** (50-110) | | | | 6^ (85-135) | | | | | |
| South | 15 | 4/21/14 | 2** (250,290) | 7** (65-170) | | | 5^ (80-90) | 9** (45-50) | | | | | | |
| | 21 | 4/21/14 | 6** (135-150) | 10 * ** (50-150) | | | | | | | | | | |
| | 22 | 4/21/14 | 6** (125-165) | 6** (50-125) | 2** (54,64) | | | 1^ (51) | 6^ (90-165) | | | | | |

Highlighted values for recommended analysis

Benthic species
 Pelagic species

- * Split for duplicate analysis (See Sample Detail list for sub-sample split of largest 5 vs smallest 5 fish.)
- ** Taken by Physis courier 05/21/2015 for analysis
- ^ Retained by AMEC in freezer for archive 05/21/2015

SAMPLE RECEIPT SUMMARY

CLIENT: SCCWRP Date Received: May 21, 2015 Received By: AI Inspected By: AI

COURIER

PHYSIS CLIENT FEDEX UPS

start 09:45 end 14:15 OTHER: _____

COOLER

COOLER BOX total #

OTHER: _____ 3

TEMPERATURE

6 °C WET ICE BLUE ICE

DRY ICE NONE

SAMPLE INTEGRITY UPON RECEIPT

1. COC(s) included and completely filled out..... **YES**
2. All sample containers arrived intact..... **YES**
3. All samples listed on COC(s) are present..... **YES**
4. Information on containers consistent with information on COC(s)..... **YES**
5. Correct containers and volume for all analyses indicated..... **YES**
6. All samples received within method holding time..... **YES**
7. Correct preservation used for all analyses indicated..... **YES**
8. Name of sampler included on COC(s)..... **YES**

NOTES

CHAIN-OF-CUSTODY



Sample Receipt Form

Institute for Integrated Research in Materials, Environments, and Society (IIRMES)

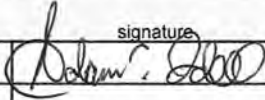
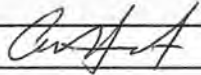
Client: Physis Date Received: 5/7/15

Temperature: 5 °C Wet Ice Blue Ice Dry Ice N/A

Custody seals present and intact? Yes No Not Applicable

| | | | | | |
|---------------------------------------|-----|-------------------------------------|----|--------------------------|--------|
| COC received with samples? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Notes: |
| COC signed and dated? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Analyses requested on COC? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Correct sample containers used? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Container labels match COC? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Adequate sample volumes received? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Sample containers received intact? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Number of Samples Received: <u>30</u> | | | | | |

Samples checked by: Ulex King Date: 5/7/15

| COMPANY NAME Physis Environmental Laboratories, Inc. | | EMAIL sc@physislabs.com | | PROJECT NAME / NUMBER 1504003-001 | | | COC PAGE 3 of 3 | | | | | | | | |
|--|--------------------|--|-------------|---|--------------------------------|---|---|-------------------|---|---|--|---------------|--|-------------------------|--|
| PROJECT MANAGER Misty Mercier | | FAX 714 602-5321 | | PO # | PHYSIS SOS # 1504003 | TYPE OF ICE USED <input checked="" type="checkbox"/> MET <input checked="" type="checkbox"/> FUE <input checked="" type="checkbox"/> FRY | | | | | | | | | |
| COMPANY ADDRESS 1904 E. Wright Circle Anaheim, CA 92806 | | PHONE 714 602-5320 office 714 335-5918 cell | | SAMPLED BY | | | SHIPPED VIA <input checked="" type="checkbox"/> FEDEX <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> USPS <input type="checkbox"/> ent <input checked="" type="checkbox"/> physis <input type="checkbox"/> her | | | | | | | | |
| TURNAROUND TIME <input checked="" type="checkbox"/> STANDARD 15 -20 BD <input type="checkbox"/> RUSH business days | | | | REQUESTED ANALYSES | | | | | | | | | | | |
| REPORT FORMAT <input checked="" type="checkbox"/> PDF/EDD <input type="checkbox"/> SWAMP EDD <input type="checkbox"/> other | | | | | | | | | | | | | | | |
| SPECIAL INSTRUCTIONS please report down to the MDL Please report results in dry weight | | | | | | | | | | | | | | | |
| PHYSIS MATRIX CODES <u>SW</u> = seawater <u>FW</u> = freshwater <u>RW</u> = rainwater <u>WW</u> = wastewater <u>DW</u> = drinking water <u>S</u> = sediment <u>T</u> = tissue <u>E</u> = extract <u>O</u> = other (specify) | | | | TOC | Grain Size | | | | | | | | | | |
| SAMPLE ID | SAMPLE DESCRIPTION | SAMPLE date | SAMPLE time | | | physis matrix code | # of bottles | | | | | | | | |
| 1 | SWHB-24 | 4/8/14 | 16:22 | | | SED | 1 | X | X | | | | | | |
| 2 | SWHB-25 | 4/8/14 | 15:37 | | | SED | 1 | X | X | | | | | | |
| 3 | SWHB-26 | 4/17/14 | 12:56 | | | SED | 1 | X | X | | | | | | |
| 4 | SWHB-27 | 4/18/14 | 14:42 | | | SED | 1 | X | X | | | | | | |
| 5 | SWHB-33 | 4/9/14 | 15:30 | | | SED | 1 | X | X | | | | | | |
| 6 | SWHB-36 | 4/9/14 | 17:01 | | | SED | 1 | X | X | | | | | | |
| 7 | SWHB-06 | 4/7/14 | 8:35 | | | SED | 1 | X | X | | | | | | |
| 8 | SWHB-28 | 4/17/14 | 16:12 | | | SED | 1 | X | X | | | | | | |
| 9 | SWHB-53 | 4/18/14 | 13:29 | | | SED | 1 | X | X | | | | | | |
| 10 | SWHB-30 | 4/18/14 | 8:30 | SED | 1 | X | X | | | | | | | | |
| print Adam Idell | | signature  | | company Physis Labs | | date & time 5/7/15 16:40 | | A-Hamilton | |  | | IIRMES | | 5/7/15 16:40 | |

**CHAIN OF
CUSTODY**

TERRA FUTURE ENERGY SOLUTIONS AURA
ENVIRONMENTAL LABORATORIES, INC.

Innovative Solutions for Nature

Analysis Request and Chain of Custody

City of San Diego

San Diego Bay Shallow Water Habitat Study

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|------------|---------|------|---|-------------|-------------|--------------|--------------|
| SWHB-01 | 4/16/14 | 1548 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-01 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-02 | 4/9/14 | 1207 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-02 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-40 CB | 4/16/14 | 1224 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-40 CB | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JB/T/H
 Relinquished By: [Signature] Date/Time: 4/27/15 1230 Received By: [Signature] Date/Time: 4/27/15 12:30
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

City of San Diego

San Diego Bay Shallow Water Habitat Study

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|--------|------|---|-------------|-------------|--------------|--------------|
| SWHB-07 | 4/9/14 | 0950 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-07 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-08 | 4/9/14 | 1032 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-08 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-09 | 4/9/14 | 1238 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-09 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS/TH
 Relinquished By: [Signature] Date/Time: 4-15/1230 Received By: [Signature] Date/Time: 4/27/15 12:30
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

City of San Diego

San Diego Bay Shallow Water Habitat Study

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
9210 Sky Park Court, Suite 200
San Diego, CA 92123
Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|----------|------|---|-------------|-------------|--------------|--------------|
| SWHB-10 | 4/9/14 | 1305 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-10 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-11 | 4/8/2014 | 0914 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-11 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-12 | 4/8/14 | 1336 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-12 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JB/TJA

Relinquished By: [Signature] Date/Time: 4-22-15 1230

Received By: [Signature]

Date/Time: 4/27/15 12:30

Relinquished By: _____ Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

City of San Diego

San Diego Bay Shallow Water Habitat Study

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|---|-------------|-------------|--------------|--------------|
| SWHB-13 | 4/9/14 | 0841 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-13 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-14 | 4/8/14 | 1149 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-14 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-15 | 4/15/14 | 0902 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-15 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JB/TH
 Relinquished By: [Signature] Date/Time: 4-22-15 / 1230 Received By: [Signature] Date/Time: 4/27/15 12:30
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

City of San Diego

San Diego Bay Shallow Water Habitat Study

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
9210 Sky Park Court, Suite 200
San Diego, CA 92123
Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|---|-------------|-------------|--------------|--------------|
| SWHB-19 | 4/8/14 | 1026 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-19 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-20 | 4/8/14 | 1455 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-20 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-21 | 4/15/14 | 1734 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-21 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JB/TH
Relinquished By: Chris Stransky Date/Time: 4-27-15/1230 Received By: Adam [Signature] Date/Time: 4/27/15 12:30
Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody
City of San Diego
 San Diego Bay Shallow Water Habitat Study

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|---------------|--------|------|---|-------------|-------------|--------------|--------------|
| SWHB-16 | 4/8/14 | 1301 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-16 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-41 JB | 4/9/14 | 1756 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-41 JB | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-18 | 4/8/14 | 0953 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-18 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JB/TA
 Relinquished By: Chris Stransky Date/Time: 4/27/15 1230 Received By: [Signature] Date/Time: 4/27/15 12:30
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

City of San Diego

San Diego Bay Shallow Water Habitat Study

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|---|-------------|-------------|--------------|--------------|
| SWHB-22 | 4/15/14 | 1413 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-22 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-23 | 4/8/14 | 1105 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-23 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-24 | 4/8/14 | 1622 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-24 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JB/TH
 Relinquished By: [Signature] Date/Time: 4-27-15 1230 Received By: [Signature] Date/Time: 4/27/15 12:30
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

City of San Diego

San Diego Bay Shallow Water Habitat Study

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
9210 Sky Park Court, Suite 200
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Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|----------|---------|------|---|-------------|-------------|--------------|--------------|
| SWHB-25 | 4/8/14 | 1537 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-25 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-26 | 4/17/14 | 1256 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-26 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-27 | 4/18/14 | 1442 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-27 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: IB/JH

Relinquished By: [Signature]

Date/Time: 4-27-15 1230

Received By: [Signature]

Date/Time: 4/27/15 12:30

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

City of San Diego

San Diego Bay Shallow Water Habitat Study

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|--|---------|------|---|-------------|-------------|--------------|--------------|
| SWHB- 03 ³³ (33) | 4/9/14 | 1530 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB- 03 ³³ (33) | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB- 05 ³⁶ (36) | 4/9/14 | 1701 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB- 05 ³⁶ (36) | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-06 | 4/17/14 | 0835 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-06 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS/TH
 Relinquished By: [Signature] Date/Time: 4-27-15 1230 Received By: [Signature] Date/Time: 4/27/15 12:30
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

City of San Diego

San Diego Bay Shallow Water Habitat Study

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
 San Diego, CA 92123
 Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | Bottle Count |
|-----------------------------------|---------|---------------------------------|---|-------------|-------------|--------------|--------------|
| SWHB-28 | 4/17/14 | 1612 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-28 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB- 28 ⁵³ | 4/18/14 | 1814 ¹³²⁹ | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB- 28 ⁵³ | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |
| SWHB-30 | 4/18/14 | 0830 | General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, | Grab | 4 oz Glass | None | 2 |
| SWHB-30 | ↓ | ↓ | Grain Size | Grab | Ziploc Bag | None | 1 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: JS/ALH
 Relinquished By: [Signature] Date/Time: 4-27-15 1230 Received By: [Signature] Date/Time: 4/27/15 12:30
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

SAMPLE RECEIPT SUMMARY

CLIENT: SCCWRP Date Received: Apr 27, 2015 Received By: AI Inspected By: AI

COURIER

PHYSIS
 CLIENT
 FEDEX
 UPS
start 11:50 end 13:15
 OTHER: _____

COOLER

COOLER
 BOX
 total #
 OTHER: _____
 2

TEMPERATURE

-2.9 °C
 WET ICE
 BLUE ICE
 DRY ICE
 NONE

SAMPLE INTEGRITY UPON RECEIPT

1. COC(s) included and completely filled out..... **YES**
2. All sample containers arrived intact..... **NO; see notes below**
3. All samples listed on COC(s) are present..... **YES**
4. Information on containers consistent with information on COC(s)..... **YES**
5. Correct containers and volume for all analyses indicated..... **YES**
6. All samples received within method holding time..... **YES**
7. Correct preservation used for all analyses indicated..... **YES**
8. Name of sampler included on COC(s)..... **YES**

NOTES

Sample ID SWHB-12 bag for grain size was not received.
 Sample ID SWHB-16 bag for grain size was not received.
 Sample ID SWHB-20 bag for grain size was not received.
 Sample ID SWHB-24 bag for grain size was not received.
 Sample ID SWHB-25 bag for grain size was not received.

CHAIN of CUSTODY

| | | | |
|---|---|--|---|
| COMPANY NAME Amec Foster Wheeler Inc. | EMAIL chris.stransky@amec.com; dorisv@sccwrp.org | PROJECT NAME / NUMBER San Diego Bay Shallow Water Habitat Tissues | COC PAGE 1 of 1 |
| PROJECT MANAGER Chris Stransky (Amec), Doris Vidal (SCCWRP) | FAX | PO # | PHYSIS SOS # |
| COMPANY ADDRESS: AMEC 9210 Sky Park Court San Diego, CA | PHONE 858-300-4350; 714-755-3216 office 858-775-5547 (Chris) cell | SAMPLED BY Tyler Huff/ Jeremy Burns | TYPE OF ICE USED <input type="checkbox"/> WET <input type="checkbox"/> BLUE <input type="checkbox"/> DRY |
| | | SHIPPED VIA <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Physis <input type="checkbox"/> other | |

TURNAROUND TIME
 STANDARD (15-20 business days) RUSH business days

REPORT FORMAT
 PHYSIS PDF/EDD SWAMP EDD other

SPECIAL INSTRUCTIONS
Remaining samples missing from the first batch submitted. Project Billing to SCCWRP. Please include Chris Stransky (Amec) and Doris Vidal (SCCWRP) on all data deliverables.

REQUESTED ANALYSES

PLEASE SEE PHYSIS SOS

PHYSIS MATRIX CODES
SW = seawater FW = freshwater RW = rainwater
WW = wastewater DW = drinking water
S = sediment I = tissue E = extract O = other (specify)

| Grain Size | SAMPLE ID | SAMPLE DESCRIPTION | SAMPLE | | physis matrix code | # of bottles | | | | | | | | | | | | | | |
|------------|-----------|--------------------|----------|--------|--------------------|--------------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | date | time | | | | | | | | | | | | | | | | |
| | 1 | SWHB-12 | Sediment | 4/8/14 | 13:36 | | 1 | X | | | | | | | | | | | | |
| | 2 | SWHB-16 | Sediment | 4/8/14 | 13:01 | | 1 | X | | | | | | | | | | | | |
| | 3 | SWHB-20 | Sediment | 4/8/14 | 14:55 | | 1 | X | | | | | | | | | | | | |
| | 4 | SWHB-24 | Sediment | 4/8/14 | 16:22 | | 1 | X | | | | | | | | | | | | |
| | 5 | SWHB-25 | Sediment | 4/8/14 | 15:37 | | 1 | X | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | | | | | | | |
| | 7 | | | | | | | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | | | | | | | |
| | 9 | | | | | | | | | | | | | | | | | | | |
| | 10 | | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|----------------------------|---------------|------------------------|-------------------------------------|---------------------------|---------------|--------------------------|-------------------------------|
| RELINQUISHED BY | | | | RECEIVED BY | | | |
| print <i>Tyler Huff</i> | signature | company <i>AMEC</i> | date & time <i>5/21/15 12:15</i> | print <i>Adam Dell</i> | signature | company <i>Physis</i> | date & time <i>5/21/15</i> |

SAMPLE RECEIPT SUMMARY

CLIENT: SCCWRP Date Received: May 21, 2015 Received By: AI Inspected By: AI

COURIER

PHYSIS
 CLIENT
 FEDEX
 UPS
start 09:45 end 14:15
 OTHER: _____

COOLER

COOLER
 BOX
 total #
 OTHER: _____
 3

TEMPERATURE

6.1 °C
 WET ICE
 BLUE ICE
 DRY ICE
 NONE

SAMPLE INTEGRITY UPON RECEIPT

1. COC(s) included and completely filled out..... **YES**
2. All sample containers arrived intact..... **YES**
3. All samples listed on COC(s) are present..... **YES**
4. Information on containers consistent with information on COC(s)..... **YES**
5. Correct containers and volume for all analyses indicated..... **YES**
6. All samples received within method holding time..... **YES**
7. Correct preservation used for all analyses indicated..... **NO; see notes below**
8. Name of sampler included on COC(s)..... **YES**

NOTES

See Temperature

Regional Harbor Monitoring Program (RHMP)

Aug.-Sept. 2013

**CHAIN OF
CUSTODY**

TERRA FUTURE AURA
ENVIRONMENTAL LABORATORIES, INC.

Innovative Solutions for Nature

1406005-001

Analysis Request and Chain of Custody

RHMP

Bioaccumulation Tissue Analysis

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
9210 Sky Park Court, Suite 200
San Diego, CA 92123
Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | # Ind/ Weight |
|-----------------|--------|------|------------------|-------------|-------------|--------------|---------------|
| LX B13-8017-BSB | 9/6/13 | 0725 | Tissue Chemistry | Tissue | Foil/Bag | None | 7 |
| LX B13-8017-C | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 10.3g |
| LX B13-8017-P | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 4.0g |
| LX B13-8017-RR | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 5 |
| X B13-8020-BSB | 9/5/13 | 1357 | Tissue Chemistry | Tissue | Foil/Bag | None | 7 |
| X B13-8020-C | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 3.3g |

Comments: See attachment for detailed analytical list.

Sampler's Initials: BCS

Relinquished By: [Signature]

Date/Time: 5/22/14 1115

Received By: [Signature]

Date/Time: 5/22/14 11:20

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Analysis Request and Chain of Custody

RHMP

Bioaccumulation Tissue Analysis

From:

AMEC Environment & Infrastructure
 Attn: Chris Stransky
 9210 Sky Park Court, Suite 200
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 Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | # Ind/ Weight |
|----------------|--------|------|------------------|-------------|-------------|--------------|---------------|
| X B13-8020-CH | 9/5/13 | 1357 | Tissue Chemistry | Tissue | Foil/Bag | None | 4 |
| X B13-8020-P | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 4.4g |
| ✓ B13-8029-BSB | 9/5/13 | 0749 | Tissue Chemistry | Tissue | Foil/Bag | None | 6 |
| X B13-8029-CH | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 4 |
| X B13-8029-M | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 67.3g |
| X B13-8029-P | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 5.3g |

Comments: See attachment for detailed analytical list.

Sampler's Initials: BCS
 Relinquished By: [Signature] Date/Time: 5/22/14 1115 Received By: [Signature] Date/Time: 5/22/14 11:20
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

RHMP

Bioaccumulation Tissue Analysis

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
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San Diego, CA 92123
Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | # Ind/ Weight |
|----------------|--------|------|------------------|-------------|-------------|--------------|---------------|
| X B13-8052-BSB | 9/5/13 | 1036 | Tissue Chemistry | Tissue | Foil/Bag | None | 7 |
| X B13-8052-CH | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 2 |
| X B13-8052-M | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 25.3g |
| X B13-8052-P | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 4.9g |
| ✓ B13-8060-BSB | 9/4/13 | 0953 | Tissue Chemistry | Tissue | Foil/Bag | None | 6 |
| ✓ B13-8060-C | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 9.3g |

Comments: See attachment for detailed analytical list.

Sampler's Initials: BCS
Relinquished By: [Signature] Date/Time: 5/22/14 1115 Received By: [Signature] Date/Time: 5/22/14 11:20
Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

RHMP

Bioaccumulation Tissue Analysis

From:

AMEC Environment & Infrastructure
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To:

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 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | # Ind/ Weight |
|----------------|--------|------|------------------|-------------|-------------|--------------|---------------|
| ✓ B13-8060-CH | 9/4/13 | 0953 | Tissue Chemistry | Tissue | Foil/Bag | None | 4 |
| ✓ B13-8060-P | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 2.8g |
| ✓ B13-8060-SSB | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 6 |
| ✗ B13-8078-C | 9/4/13 | 0733 | Tissue Chemistry | Tissue | Foil/Bag | None | 6.8g |
| ✗ B13-8078-CH | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 5 |
| ✗ B13-8078-P | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 6.0g |

Comments: See attachment for detailed analytical list.

Sampler's Initials: BCS
 Relinquished By: [Signature] Date/Time: 5/22/14 11:15 Received By: [Signature] Date/Time: 5/22/14 11:20
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

RHMP

Bioaccumulation Tissue Analysis

From:

AMEC Environment & Infrastructure
Attn: Chris Stransky
9210 Sky Park Court, Suite 200
San Diego, CA 92123
Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.
Attn: Misty Mercier
1904 East Wright Circle
Anaheim, California 92806
Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | # Ind/ Weight |
|----------------|--------|------|------------------|-------------|-------------|--------------|---------------|
| ✓ B13-8078-SSB | 9/4/13 | 0733 | Tissue Chemistry | Tissue | Foil/Bag | None | 6 |
| ✓ B13-8109-BSB | 9/3/13 | 1428 | Tissue Chemistry | Tissue | Foil/Bag | None | 2 |
| ✓ B13-8109-C | | | Tissue Chemistry | Tissue | Foil/Bag | None | 9.3g |
| ✓ B13-8109-CH | | | Tissue Chemistry | Tissue | Foil/Bag | None | 4 |
| ✓ B13-8109-P | | | Tissue Chemistry | Tissue | Foil/Bag | None | 7.8g |
| ✓ B13-8118-BSB | 9/3/13 | 1206 | Tissue Chemistry | Tissue | Foil/Bag | None | 9 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: BCS
Relinquished By: [Signature] Date/Time: 5/22/14 1115 Received By: [Signature] Date/Time: 5/22/14 11:20
Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

RHMP

Bioaccumulation Tissue Analysis

From:

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Attn: Chris Stransky
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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | # Ind/ Weight |
|------------------|--------|------|------------------|-------------|-------------|--------------|---------------|
| ✓ B13-8118-BSB-D | 9/3/13 | 1206 | Tissue Chemistry | Tissue | Foil/Bag | None | 8 |
| ✓ B13-8118-C | | | Tissue Chemistry | Tissue | Foil/Bag | None | 37.3g |
| ✓ B13-8118-CH | | | Tissue Chemistry | Tissue | Foil/Bag | None | 5 |
| ✓ B13-8118-CH-D | | | Tissue Chemistry | Tissue | Foil/Bag | None | 5 |
| ✓ B13-8118-P | | | Tissue Chemistry | Tissue | Foil/Bag | None | 3.5g |
| ✓ B13-8122-BSB | 9/3/13 | 0853 | Tissue Chemistry | Tissue | Foil/Bag | None | 12 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: BCS
Relinquished By: [Signature] Date/Time: 5/22/14 11:15 Received By: [Signature] Date/Time: 5/22/14 11:20
Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

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To:

Physis Environmental Laboratories, Inc.
 Attn: Misty Mercier
 1904 East Wright Circle
 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | # Ind/ Weight |
|---------------|---------|------|------------------|-------------|-------------|--------------|---------------|
| ✓ B13-8122-C | 9/13/13 | 0853 | Tissue Chemistry | Tissue | Foil/Bag | None | 3.5g |
| ✓ B13-8122-CH | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 7 |
| ✓ B13-8122-P | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 7.3g |
| ✗ B13-8159-CH | 8/8/13 | 1459 | Tissue Chemistry | Tissue | Foil/Bag | None | 5 |
| ✗ B13-8159-P | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 5.3g |
| ✗ B13-8159-S | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 9.5g |

Comments: See attachment for detailed analytical list.

Sampler's Initials: BCS
 Relinquished By: [Signature] Date/Time: 5/22/14 1115 Received By: [Signature] Date/Time: 5/20/14 11:20
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

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 Anaheim, California 92806
 Phone: 714-602-5320 Fax: 714-602-5321

| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | # Ind/ Weight |
|---------------|--------|------|------------------|-------------|-------------|--------------|---------------|
| X B13-8159-YC | 8/8/13 | 1459 | Tissue Chemistry | Tissue | Foil/Bag | None | 9 |
| X B13-8239-CH | 8/6/13 | 1445 | Tissue Chemistry | Tissue | Foil/Bag | None | 1 |
| X B13-8239-P | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 7g |
| X B13-8239-S | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 80g |
| X B13-8239-SC | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 4 |
| X B13-8263-CH | 8/5/13 | 1740 | Tissue Chemistry | Tissue | Foil/Bag | None | 5 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: BCS
 Relinquished By: [Signature] Date/Time: 5/22/14 1115 Received By: [Signature] Date/Time: 5/22/14 11:20
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

RHMP

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | # Ind/Weight |
|---------------|--------|------|------------------|-------------|-------------|--------------|--------------|
| X B13-8263-P | 8/5/13 | 1740 | Tissue Chemistry | Tissue | Foil/Bag | None | 8g |
| X B13-8263-S | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 45g |
| X B13-8263-SC | ↓ | ↓ | Tissue Chemistry | Tissue | Foil/Bag | None | 4 |

Comments: See attachment for detailed analytical list.

Sampler's Initials: BCS
Relinquished By: [Signature] Date/Time: 9/22/14 Received By: [Signature] Date/Time: 5/22/14 11:20
Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Analysis Request and Chain of Custody

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| SampleID | Date | Time | Analyses | Sample Type | Bottle Size | Preservative | # Ind/Weight |
|---------------|--------|------|------------------|-------------|-------------|--------------|--------------|
| X B13-8159-DA | 8/8/13 | 1459 | Tissue Chemistry | Tissue | Foil/Bag | None | 8 |
| X B13-8159-Q | | | Tissue Chemistry | Tissue | Foil/Bag | None | 46 |
| X B13-8159-SA | | | Tissue Chemistry | Tissue | Foil/Bag | None | 27 |
| X B13-8239-Q | 8/6/13 | 1445 | Tissue Chemistry | Tissue | Foil/Bag | None | 716 (2) |

Comments: See attachment for detailed analytical list.

Sampler's Initials: BGS

Relinquished By: [Signature]

Date/Time: 5/22/14 1115

Received By: [Signature]

Date/Time: 5/22/14 11:20

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

AMSE T.O. JAV
 P.O. JAV

Bight '13 Bioaccumulation Special Study – Tissue Analysis Summary and Instructions (Physis)

RHMP (Proj #5025102302)

May 22, 2014

| No. | Sample ID | Species | #Ind/Weight | Instructions |
|-----|--------------|--------------------|-------------|--|
| 1 | B13-8017-BSB | Barred Sand Bass | 7 | Combine and analyze all 7 fish |
| 2 | B13-8017-C | Crustacea | 10.3g | Combine and analyze all |
| 3 | B13-8017-P | Polychaetes | 4.0g | Combine and analyze all |
| 4 | B13-8017-RR | Round Rays | 5 | Combine and analyze all 5 fish |
| 5 | B13-8020-BSB | Barred Sand Bass | 7 | Combine and analyze all fish |
| 6 | B13-8020-C | Crustacea | 3.3g | Combine and analyze all |
| 7 | B13-8020-CH | California Halibut | 4 | Combine and analyze the 3 smallest fish (~90-150mm) |
| 8 | B13-8020-P | Polychaetes | 4.4g | Combine and analyze all |
| 9 | B13-8029-BSB | Barred Sand Bass | 6 | Combine and analyze all 7 fish |
| 10 | B13-8029-CH | California Halibut | 4 | Combine and analyze the 3 smallest fish (~120-150mm) |
| 11 | B13-8029-M | Molluscs | 67.3g | Combine and analyze all |
| 12 | B13-8029-P | Polychaetes | 5.3g | Combine and analyze all |
| 13 | B13-8052-BSB | Barred Sand Bass | 7 | Combine and analyze all 7 fish |
| 14 | B13-8052-CH | California Halibut | 2 | Combine and analyze both fish (2) |
| 15 | B13-8052-M | Molluscs | 25.3g | Combine and analyze all |
| 16 | B13-8052-P | Polychaetes | 4.9g | Combine and analyze all |
| 17 | B13-8060-BSB | Barred Sand Bass | 6 | Combine and analyze all 6 fish |
| 18 | B13-8060-C | Crustacea | 9.3g | Combine and analyze all |
| 19 | B13-8060-CH | California Halibut | 4 | Combine and analyze the 3 smallest fish (~150-200mm) |
| 20 | B13-8060-P | Polychaetes | 2.8g | Combine and analyze all |
| 21 | B13-8060-SSB | Spotted Sand Bass | 6 | Combine and analyze the 5 smallest fish |
| 22 | B13-8078-C | Crustacea | 6.8g | Combine and analyze all samples. |
| 23 | B13-8078-CH | California Halibut | 5 | Combine and analyze the four smallest fish (~150-220 mm) |
| 24 | B13-8078-P | Polychaetes | 6.0g | Combine and analyze all samples |
| 25 | B13-8078-SSB | Spotted Sand Bass | 6 | Combine and analyze 5 smallest fish |
| 26 | B13-8109-BSB | Barred Sand Bass | 2 | Combine and analyze both fish (2) |
| 27 | B13-8109-C | Crustacea | 9.3g | Combine and analyze all |
| 28 | B13-8109-CH | California Halibut | 6 | Combine and analyze the 5 smallest fish (~130-200mm). |
| 29 | B13-8109-P | Polychaetes | 7.8g | Combine and analyze all |

| | | | | samples |
|----|------------------------|--------------------|-------|---|
| 30 | B13-8118-BSB (small) | Barred Sand Bass | 9 | Combine and analyze the 9 smallest fish |
| 31 | B13-8118-BSB-D (large) | Barred Sand Bass | 8 | Duplicate Species Combine and analyze the 8 largest fish. |
| 32 | B13-8118-C | Crustacea | 37.3g | Combine and analyze all |
| 33 | B13-8118-CH (small) | California Halibut | 5 | Combine and analyze the 5 smallest fish |
| 34 | B13-8118-CH-D (large) | California Halibut | 5 | Duplicate Species Combine and analyze the 5 largest fish |
| 35 | B13-8118-P | Polychaetes | 3.5g | Combine and analyze all |
| 36 | B13-8122-BSB | Barred Sand Bass | 12 | Combine and analyze all 12 fish |
| 37 | B13-8122-C | Crustacea | 3.5g | Combine and analyze all |
| 38 | B13-8122-CH | California Halibut | 7 | Combine and analyze the 5 smallest fish (~96-170mm) |
| 39 | B13-8122-P | Polychaetes | 7.3g | Combine and analyze all |
| 40 | B13-8159-CH | California Halibut | 5 | Combine and analyze the 5 smallest fish |
| 41 | B13-8159-P | Polychaetes | 5.3g | Combine and analyze all |
| 42 | B13-8159-YC | Yellowfin Croaker | 9 | Combine and analyze all 9 fish |
| 43 | B13-8159-S | Shrimp | 95g | Combine and analyze all shrimp, excluding crabs |
| 44 | B13-8239-CH | California Halibut | 1 | Analyze the 1 fish |
| 45 | B13-8239-P | Polychaetes | 7.0g | Combine and analyze all |
| 46 | B13-8239-SC | Spotfin Croaker | 4 | Combine and analyze all 4 fish |
| 47 | B13-8239-S | Shrimp | 80g | Combine and analyze all shrimp, excluding crabs |
| 52 | B13-8239-Q | Queenfish | 16 | Combine and analyze all 7 fish |
| 48 | B13-8263-CH | California Halibut | 5 | Combine and analyze all 5 fish |
| 49 | B13-8263-P | Polychaetes | 8.0g | Combine and analyze all |
| 50 | B13-8263-S | Shrimp | 45g | Combine and analyze all shrimp, excluding crabs |
| 51 | B13-8263-SC | Spotfin Croaker | 4 | Combine and analyze all 4 fish |
| 53 | B13-8159-Q | Queenfish | 46 | Combine and analyze all 46 fish |
| 54 | B13-8159-DA | Deepbody Anchovy | 8 | Combine and analyze all 8 fish |
| 55 | B13-8159-SA | Slough Anchovy | 27 | Combine and analyze all 27 fish |

55 Samples Total (RHMP)