## APPENDIX H CHAIN-OF-CUSTODY FORMS

## Shallow Water Habitat Bioaccumulation Survey San Diego Bay (SWHB)

April-May, 2014



**SEND TO: Associated Labs** 

Physis Environmental Labor	ratoriaa Isa	ESTAIL.				PROJE	ECT NA	ME/N												CC	CPAC	SE.	
PROJECT MANAGER	atones, mc.	FAX SC(C	<u>Dphysislal</u>	os.com	<u> </u>	P0#			14	· <u>C</u>	(C)C). Ysis so	<u> </u>	$\propto$	00	~		720	'E OF I	1	<u></u>	of	1	-
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<u>SW</u> = seawater <u>F</u>		***************************************	ater			Q	Ö																
<u>wvv</u> = wastev <u>S</u> = sediment <u>T</u> = tissue <u>E</u> =	The second secon					9	$ \mathcal{C} $	nell the block of the least of the least															
SAMPLE ID	SAMPLE DESCRIPTION	SAM date	IPLE time	physis matrix code	# of bottles																		
1 SWHB-15		3/7/1	-15°cc	W	12	×	X	$\dashv$	$\dashv$		+-							•	_			-	
2 5WHB-21		5/7/1	1050	W	12		X		1			-	-									$\dashv$	,
3 SWHB-EB		5/7/4	0945		2		X		1		+	+											***************************************
1 SW HB-FB		E/7/A	0930	W	2	X	X					+				. 1				_			
5 SW HB-01	***************************************	5/8/14	0840		9	X	X				+	+-+										_	
5 SW 43-22		3814	1230	W	ă	×	X				+	1-1	$\dashv$										
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## DICHAIN OF TERRA CUSTO DIVING.

Innovative Solutions for Nature

1404008-001

## **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

SampleID	Date	Time	Analyses	Sample Type	Bottle Size	Preservative	Count
SWHB-FB	5/7/14	0930	© DOC (EPA 415.3)	Grab	250 mL Amber Glass	Cold (4°C)	-
SWHB-FB			TOC (EPA 415.3)	Grab	250 mL Amber Glass	Cold (4°C) + H2SO4	٨
SWHB-FB			Total & Dissolved Mercury (EPA 245.7)	Grab	250 mL HDPE	Cold (4°C)	(
SWHB-FB	V	C/V	TSS (SM 2540D)	Grab	1000 mL HDPE	Cold (4°C)	

Comments:			
Sampler's Initials:	Date/Time: \$\frac{9}{14} \cdot 830	Received By Dam . Own	Date/Time: 5414 18:30
Relinquished By:	Date/Time:	Received By:	Date/Time:

### City of San Diego

San Diego Bay Zooplankton Bioaccumulation Study

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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

SampleID	Date	Time	Analyses	Sample Type	Bottle Size	Preservative	Bottle Count
SWHB-EB	5/7/14	0945	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	t
SWHB-EB			Total & Dissolved Mercury (EPA 245.7)	Grab	250 mL HDPE	Cold (4°C)	. (
SWHB-EB	V	V	TSS (SM 2540D)	Grab	1000 mL HDPE	Cold (4°C)	1

Comments:			
Sampler's Initials:		de la Con	rb1.1 x.20
Relinquished By:	Date/Time: 5/8/14 1830	Received By: AMM (	Date/Time: 5/8/14 /6:30
Relinquished By:	Date/Time:	Received By:	Date/Time:

### City of San Diego

San Diego Bay Zooplankton Bioaccumulation Study

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To:

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Attn: Misty Mercier 1904 East Wright Circle Anaheim, California 92806

SampleID	Date	Time	Analyses	Sample Type	Bottle Size	Preservative	Bottle Count
SWHB-21	5/3/14	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	(
SWHB-21			Total & Dissolved Mercury (EPA 245.7)	Grab	250 mL HDPE	Cold (4°C)	1
SWHB-21	V	V	TSS (SM 2540D)	Grab	1000 mL HDPE	Cold (4°C)	1

Comments:			
Sampler's Initials:		du a Oua	
Relinquished By:	Date/Time: 5/8/14 1830	Received By. Litam School	Date/Time: <u>58/4/8:3</u> 0
Relinquished By:	Date/Time:	Received By:	Date/Time:

1404003-002

## **Analysis Request and Chain of Custody**

### City of San Diego

San Diego Bay Zooplankton Bioaccumulation Study

From:

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9210 Sky Park Court, Suite 200

San Diego, CA 92123

Comments:

Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.

Attn: Misty Mercier 1904 East Wright Circle Anaheim, California 92806

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)	
SWHB-15	V	Y	TSS (SM 2540D)	Grab	1000 mL HDPE	Cold (4°C)	1

Sampler's Initials: 83	- 2.4	d1 2000	7.1
Relinquished By:	Date/Time: 5/4/14 1830	Received By: MM. Joll	
Relinquished By:	Date/Time:	Received By:	Date/Time:

### City of San Diego

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Attn: Misty Mercier 1904 East Wright Circle Anaheim, California 92806

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	d
SWHB-01			Total & Dissolved Mercury (EPA 245.7)	Grab	250 mL HDPE	Cold (4°C)	- 1
SWHB-01	V	$\checkmark$	TSS (SM 2540D)	Grab	1000 mL HDPE	Cold (4°C)	1

Comments:			
Sampler's Initials:_ 🚜		10 100	1-1-7
Relinquished By:	Date/Time: 5/8/14 1830	Received By:	Date/Time: 5/8/14 18:30
Relinquished By:	Date/Time:	Received By:	Date/Time:

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To:

Physis Environmental Laboratories, Inc.

Attn: Misty Mercier 1904 East Wright Circle Anaheim, California 92806

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	Į.
SWHB-22			Total & Dissolved Mercury (EPA 245.7)	Grab	250 mL HDPE	Cold (4°C)	i
SWHB-22	V	V	TSS (SM 2540D)	Grab	1000 mL HDPE	Cold (4°C)	_1

Comments:			
Sampler's Initials:  Relinquished By:	Date/Time: 5/8/14 1830	Received By Man Call	Date/Time: 5/8/14 16:30
Relinquished By:	Date/Time:	Received By:	Date/Time:

## 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

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	
SWHB-26			Total & Dissolved Mercury (EPA 245.7)	Grab	250 mL HDPE	Cold (4°C)	
SWHB-26	$\bigvee$	V	TSS (SM 2540D)	Grab	1000 mL HDPE	Cold (4°C)	- 1

Comments:			
Sampler's Initials:	Date/Time: 5/8/14 1830	Received By: Man ( )	Date/Time: 5/8/14 18:30
Relinquished By:	Date/Time:	Received By:	Date/Time:



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

FAX 714-538-1209

## SAMPLE ACCEPTANCE CHECKLIST

Section 1 Client: PHYSIS ENVIRO- Date Received: 51014 Sample temperature: Sample(s) received in cooler: Yes  No (Skip Section 2)	03- ; N	<u>003</u> 9	
Shipping Information:			
Section 2 Was the cooler packed with: Ice Ice Packs Bubble Wrap Paper None Other Cooler Temperature: Paper None Other	St	yrofoan	1 
(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample≤10 Deg. C	or arrive	al on ice	)
Section 3	YES	ИО	N/A
Was a COC received?	V		
Is it properly completed? (IDs, sampling date and time, signature, test)	-		
Were custody seals present?		1	
If Yes – were they intact?			1
Were all samples sealed in plastic bags?	V		
Did all samples arrive intact? If no, indicate below.			
Did all bottle labels agree with COC? (ID, dates and times)	1		
Were correct containers used for the tests required?	1		
Was a sufficient amount of sample sent for tests indicated?			
Was there headspace in VOA vials?			1
Were the containers labeled with correct preservatives?	1		
Was total residual chlorine measured (Fish Bioassay samples only)? *			1
*: 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			



## CHAIN of CUSTODY 340530 SEND TO: Associated Labs

COMPANY NAME		EMAIL				PROJ	ECT NAM	ME / NU		. A				~ ~	~~					COC PA	GE	$\Box$
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PROJECT MANAGER Misty Merc	cier		14 602-	5321		PO#				140	s sos AC	# )	3		WET	•		LUE		] DR	Y	
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SAMPLE ID	SAMPLE DESCRIPTION	SAN date	IPLE time	physis matrix code	# of bottles																	
1 SWHB-40	GRAB	5/9/14	1235	W	2	K	X	1									1		+	1		$\neg$
2 SWHB-06	GRAB	5/9/14	1550	2	2	X	X															
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To:

Physis Environmental Laboratories, Inc.

Attn: Misty Mercier 1904 East Wright Circle Anaheim, California 92806

SampleID	Date	Time	Analyses	Sample Type	Bottle Size	Preservative	Bottle Count
SWHB-06	5/9/14	1550	DOC (EPA 415.3)	Grab	250 rnL 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)	- (
SWHB-06	$\bigvee$	1	TSS (SM 2540D)	Grab	1000 mL HDPE	Cold (4°C)	-

Comments:			
Sampler's Initials: 35  Relinquished By: 47  Relinquished By: 47	Date/Time: <u>5/9/14 1910</u>	Received By:	Date/Time: 5 9 4 1910

## 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

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	
SWHB-40			Total & Dissolved Mercury (EPA 245.7)	Grab	250 mL HDPE	Cold (4°C)	
SWHB-40	V	V	TSS (SM 2540D)	Grab	1000 mL HDPE	Cold (4°C)	1

Comments:			
Sampler's Initials:	5/9/14 1918	2 - 12 Chambar	Date/Time: 5 9 14 (910
Relinquished By:	Date/Time:	Received By:	Date/Time:



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

FAX 714-538-1209

## SAMPLE ACCEPTANCE CHECKLIST

Section 1 Client: PHYSIS ENVIRO- Date Received: 5/14/14  Project: 14040 Sampler's Name: Yes	08 -	003	
Date Received: 5/14-1/4 Sampler's Name: Yes	s (Ñ	(o)	
Sample temperature:	<u> </u>		
Sample(s) received in cooler: (Yes) No (Skip Section 2)			
Shipping Information:	~		
Section 2 Was the cooler packed with:    V   Ice   Ice Packs   Bubble Wrap	St	yrofoan	1 
Cooler Temperature: 300 Tuper	·····		
(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample <10 Deg. C		1	<i>)</i>
Section 3	YES	NO	N/A
Was a COC received?	V		
Is it properly completed? (IDs, sampling date and time, signature, test)	1		
Were custody seals present?		<i>V</i>	
If Yes – were they intact?			1
Were all samples sealed in plastic bags?		W	
Did all samples arrive intact? If no, indicate below.	/		
Did all bottle labels agree with COC? (ID, dates and times)	1/		
Were correct containers used for the tests required?	W .		
Was a sufficient amount of sample sent for tests indicated?	i		
Was there headspace in VOA vials?			<i>i</i>
Were the containers labeled with correct preservatives?	•		1
Was total residual chlorine measured (Fish Bioassay samples only)? *			1
*: 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 1414			



SEND TO: Associated Labs

COMPANY NAME		EMAIL				PROJ	ECT NA	AME / N	IUMBER					110	<u>W 1</u>			T	C	OC PAGE	= 7
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SAMPLE ID	SAMPLE DESCRIPTION	SAM date	PLE time	physis matrix code	# of bottles																
sWHB-30		5/12/14	8:00	sw	2	X	Х			_	+										
<sup>2</sup> SWHB-27		5/12/14	10:55	SW	2	X	Х				+-	<b> </b>									
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To:

Physis Environmental Laboratories, Inc.

Attn: Misty Mercier 1904 East Wright Circle Anaheim, California 92806

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)	
SWHB-30			TOC (EPA 415.3)	Grab	250 mL Amber Glass	Cold (4°C) + H2SO4	
SWHB-30			Total & Dissolved Mercury (EPA 245.7)	Grab	250 mL HDPE	Cold (4°C)	1
SWHB-30	V	V	TSS (SM 2540D)	Grab	1000 mL HDPE	Cold (4°C)	(

Comments:			
Sampler's Initials: BUS Relinquished By:	Date/Time:	Received By: Dam - Doll	Date/Time: 5/14/14
Relinquished By:	Date/Time:	Received By:	Date/Time: 2:06

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To:

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SampleID	Date Time Analyses		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)	
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	$\bigvee$		TSS (SM 2540D)	Grab	1000 mL HDPE	Cold (4°C)	_/

Comments:			
Sampler's Initials: 865 Relinquished By:	Date/Time:	Received By:	Date/Time: 5/14/14
Relinquished By:	Date/Time:	Received By:	Date/Time: 12:00

## CHAIN OF TERRA GUSTEO DA AURA ENVIRON ESTA DE LA CRIES, INC.

Innovative Solutions for Nature



1504003-002

COMPANY NAME		EMAIL			PROJECT N	AME / NUN	BER		7.5				COC PA	AGE
Amec Foster Wheeler Inc.	FAX FAX							Shallow W	Vater H	abitat T		25/11/	<b>1</b> of	1
PROJECT MANAGER Chris Stransky (Amec), Doris	Vidal (SCCWRP)	FAX			PO#		P	HYSIS SOS #		□WE		BLUE	USED DR	2Y
COMPANY ADDRESS: AMEC	vidai (CCCVIIII )	PHONE		_	SAMPLED B	Y			- 1			SHIPPED V		
9210 Sky Park Court		858-300-4350; 71	4-755-3216	office	T	yler Hu	ff/ Jere	my Burns		FED	EX [	UPS	US	PS
San Diego, CA		858-775-5547	(Chris)	cell		☐ Client ☐							oth	er
	roov. É	T BUILDIN				R	FO	UES	TEI	7 4	ΙΔΙ	VS	FS	
STANDARD (15-20 business REPORT FORMAT	days)	RUSH	busines	s days			L			E PHYSIS S		. 1 3		
	SWAMP EDD	other							T				TT	
SPECIAL INSTRUCTIONS		3 30.0.					11.1	1 1	4 1					1 1
Project Billing to SCCWRP. Ple (SCCWR	ease include Chris Str RP) on all data deliver		nd Doris	Vidal	Analyte list from Doris SCCWRP									
PHYSIS MATRIX CODES					S is		1 1		1 1					1 1
	FW = freshwater R				SC			11						
	stewater <u>DW</u> = drinkii				na		1 1		1 1	1 1	-	- 1	1 1	1
$\underline{\mathbf{S}}$ = sediment $\underline{\mathbf{T}}$ = tissue	$\underline{\mathbf{E}} = \text{extract}  \underline{\mathbf{O}} = \text{othe}$	er (specify)			ee b				1 1				1 1	
SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE date tim	physis matrix code	# of bottles	Se									
Tissue Samples - See atttached	Tissues	See attached	d	1	Х									
2			1 1 1 1 1									- T		
3					F F F									
4							+	11	++				-	
						-	++	-	+	-				+
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7			4 11							48 (2)				
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Tylestaff	61244	Antec		5/2/	Aka		dell	NA		Monte	1.	Fis		:15
1/3. 1/	191	177	10	71-41	INU	IV		4300	1	LWX	1 NV	1	10	611
		1										/	- 1	OH!

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

Sample #	Region	StationID	SampleID	Bioaccumulation SampleID	Туре	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	
	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
3	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-Plk	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-Plk	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-Plk	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	Туре	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-Plk	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-Plk	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-Plk	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-Plk	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	27
64	San Diego Bay Central	SWHB-SD-Central	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	Musculista senhousia	Bulla gouldiana	Brown Shrimp Farfantepenaeus californiensis	Bivalve (FID: Argopecten ventricosus)	Portunus xantusii and Cancer sp.
-	26	4/22/14			29	1		
North	27	4/23/14						
	30	4/23/14						4
	1	4/22/14	5	>100		1		4
Central	6	4/22/14			50			
	40	4/22/14		20			1	
	15	4/21/14						
South	21	4/21/14	-		1			
	22	4/21/14					1.0	

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

					Bentt	nic Infauna Sample W	eights (grams)				Trawl 9	Sample Invertebrate	s - Number of individ	inls		
SD Bay Region	Site	Date Sampled (infauna:	Polychaetes	Crustacea	Mollusca- Bivalve -sm clams	Gastropoda - sm snails	Gastropoda - Bulta Snaits	Goby	Comments	Assorted Arthropods	Musculista senhousia	Bulla gouldiana	Brown Shrimp F. californiensis	Bivalve	Portunus xantusii and Cancer sp.	ANALYSIS NOTES
	SWHB-26	4/17/14; 4/22/14	11.2	10.2	45.4	59.8	X (unknown gram)	5 (1.2g)		-		29	1	B	-	
North	SWHB-27	4/18/14; 4/23/14	5.4	1.3	54.4		51.4	6 (1.4g)		Sec			J 640	1 2	1 1	
	SWHB-30	4/18/14; 4/23/14	10.2	12.2	3.9	146		2	Sipunculid in sample= 189						4	
TOTAL			26.8	23.7	104	206	51									
	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	Analyze brown shrimp alone, add 4 sm crabs to the infauna crustacea sample
Central	SWHB-06	4/17/14; 4/22/14	8.5	0.5	53.1	17.5	-1	8 (-2g)	Polychaete weight includes anemones	-	÷	50	-	-	,000	
	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								1		
	SWHB-15	4/15/14; 4/21/14	1.7	2.8	5.9	F @ ]	***	8 (2.5 g)	Pheronids in sample= 3.2 g	***	-		-	7		
South	SWHB-21	4/16/14; 4/21/14	3.6	22	17.5	7.5	1 (32g)	-	Polychaete weight includes anemones			1.	(Mar.		(**)	
	SWHB-22	4/15/14; 4/21/14	8.5	0.7	25.5	4.5	F1	2 (0.7g)		3-1	_	-	-	Ť	-	
TOTAL			13.8	5.7	48.9	12		1					7			T.

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)
	26	5/8/14	9.07
North	27	5/12/14	12
	30	5/12/14	53.6
	1	5/8/14	10.6
Central	6	5/9/14	28.6
	40	5/9/14	9.7
	15	5/7/14	11.9
South	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
	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)	
North	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)
	1	4/22/14	5** (135-155)	5** (95-150)	4** (45-105)									
Central	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)			i i i i		
	15	4/21/14	2** (250,290)	7** (65-170)			5^ (80-90)	9** (45-50)						
South	21	4/21/14	6** (135-150)	10 * ** (50-150)										1
	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

A Retained by AMEC in freezer for archive 05/21/2015



PHYSIS PROJECT ID

## **SAMPLE RECEIPT SUMMARY**

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

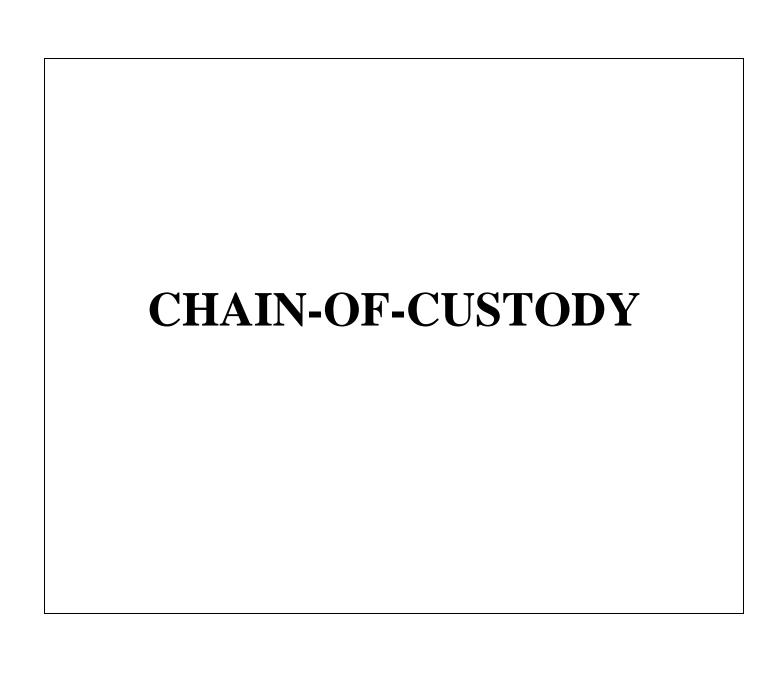
	COURIER	
<b>✓</b> PHYSIS	CLIENT FEDEX UPS	,
teg 09:45 B 14:15	OTHER:	-)

C	OOLER	
<b>✓</b> COOLER	Вох	total #
OTHER:		_3)

	Т	EMPERATU	RE
6	°ر	□ WET ICE	BLUE ICE
0	_	☐ DRY ICE	NONE

## 

# NOTES





## Sample Receipt Form

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

Client: Physis			Date Received: 5/7/15
Temperature:°c			Wet Ice Blue Ice Dry Ice N/A
Custody seals present and intact? Yes	No	٨	ot Applicable
COC received with samples?	Ver. 🔽	No [	Notes:
COC received with samples:	Yes	NO L	⊒
COC signed and dated?	Yes 📉	No	
Analyses requested on COC?	Yes X	No	
Correct sample containers used?	Yes 📉	No	
Container labels match COC?	Yes X	No	
Adequate sample volumes received?	Yes X	No	
Sample containers received intact?	Yes X	No	
Number of Samples Received:30	)		

	111 1	
	Ullx Mrs	- 6/7/1-
Samples checked by: _		Date: 2/1/15



**SEND TO: IIRMES** 

Physis Environmental Laboratories, Inc.		physisla	bs.com		PROJE	ECT NAM	E / NUMBER		4003-0	01			YPE OF ICE	1	OC PAGE	44.
PROJECT MANAGER Misty Mercier	714 602-5321								504003	3	]WE	DRY				
1904 E. Wright Circle Anaheim, CA 92806						LED BY				FEDI	_	SHIPPED UPS Physis		USPS other		
TURNAROUND TIME  ✓ STANDARD 15 -20 BD	RUSH		business	days			RE	QU	<b>EST</b>	E	AI	IAV	LYS	ES		
REPORT FORMAT  PDF/EDD SPECIAL INSTRUCTIONS  SPECIAL INSTRUCTIONS	other						П			T			T	Τ	П	T
please report down to the N Please report results in dry w					0	Size										
PHYSIS MATRIX CODES $ \underline{SW} = \text{seawater}  \underline{FW} = \text{freshwater}  \underline{R} \\ \underline{WW} = \text{wastewater}  \underline{DW} = \text{drinkin} \\ \underline{S} = \text{sediment}  \underline{T} = \text{tissue}  \underline{E} = \text{extract}  \underline{O} = \text{other} $	ng water	ter			TOC	Grain 8										
SAMPLE ID SAMPLE DESCRIPTION	SAMI date	PLE time	physis matrix code	# of bottles												
1 SWHB-01	4/16/14	15:45	SED	1	X	Х										1
2 SWHB-02	4/9/14	12:07	SED	1	Х	Х										
3 SWHB-40	4/16/14	12:24	SED	1	Х	Х										
4 SWHB-07	4/9/14	9:50	SED	1	Х	Х				-43						
5 SWHB-08	4/9/14	10:32	SED	1	Х	Х										H. Int
6 SWHB-09	4/9/14	12:38	SED	1	Х	Х										5
7 SWHB-10	4/9/14	13:05	SED	1	X	Х										
8 SWHB-11	4/8/14	9:14	SED	1	Х	Х								1		HIT
9 SWHB-12	4/8/14	13:36	SED	1	Х	Х										
10 SWHB-13	4/9/14	8:41	SED	1	Х	Х										3
print \ \ \ \ signature	comp	any	date 8	time							1					
Adam Idell Dom. John	Physis		5/7/1	5	1	1-te	ane.H	<b>3</b> 1	Ch	4	U		IIRMES		5/	40



SEND TO: IIRMES

COMP	Physis Environmental	Laboratories Inc	EMAIL SC(6)	physisla	hs com		PROJ	ECT NAM	E / NUI	MBER	150	4003-	001				1	2 coc P	0	
				714 602-5321					PO# PHYSIS SOS # 1504003							TYPE OF ICE USED				
									SAMPLED BY						□ WET     □ BLUE     □ DRY      SHIPPED VIA      □ FEDEX     □ UPS     □ USPS      □ Client     ☑ Physis     □ other					
	AROUND TIME STANDARD 15 -20 BD	Ī	RUSH		business	davs			F	REC	UC	ES'	TE	DA	NA	ALY	SE	S		
REPO	RTFORMAT				-														1 1	
	PDF/EDD ALINSTRUCTIONS	SWAMP EDD	other																	
	ple	ase report down to the se report results in dry					0	Size												
PHYSI	<u>WW</u> =	ter <u>FW</u> = freshwater <u>F</u> wastewater <u>DW</u> = drink e <u>E</u> = extract <u>O</u> = othe	ng water	ater			TOC	Grain S												
	SAMPLE ID	SAMPLE DESCRIPTION	SAM date	PLE time	physis matrix code	# of bottles														
1	SWHB-14		4/8/14	11:49	SED	1	X	Х									Y I			
2	SWHB-15		4/15/14	9:02	SED	1	X	Х				T. T								
3	SWHB-19		4/8/14	10:26	SED	1	X	Х												
4	SWHB-20		4/8/14	14:55	SED	1	X	Х								1				
5	SWHB-21		4/15/14	17:34	SED	1	Х	Х												
6	SWHB-16		4/8/14	13:01	SED	1	X	Х												
7	SWHB-41	Name of the second	4/9/14	17:56	SED	1	Х	Х												
8	SWHB-18		4/8/14	9:53	SED	1	Х	Х								- 1				
9	SWHB-22		4/15/14	14:13	SED	1	Х	Х							E				113	
10	SWHB-23	V	4/8/14	11:05	SED	1	Х	Х				5			1/1		( )			
	print	signature	com	pany	daţe 8	k time									,					
	Adam Idell	(Adam. Sdoo)	Physis		5/7	15	1	1-11	am	u H	2	an	1	4	A	IIRN	MES	5	1/18	



**SEND TO: IIRMES** 

COMF	PANY NAME  Dhysis Environments	Laboratorios Inc	EMAIL SO	n hysislah	ac com		PROJ	ECT NAM	IE / NUM	BER	150/	003-0	001			1	COC P	
PROJ	Physis Environmenta	Laboratories, IIIC.	FAX	physislal	os.com		PO#	-			PHYSIS		1 00	-	TYPE	OF ICE USE		)
Misty Mercier			714 602-5321					1504003								UE IIPPED VIA	P	RY
COMP	1904 E. Wrig Anaheim, C	714 602-5320 office 714 335-5918 cell					LED BY						EEDEX	+	IPS Tysis		SPS ner	
	IAROUND TIME								P	FC	1111	-61	FP	AN	_		C	
	STANDARD 15 -20 BD		_RUSH		business	days			17		XU!	_0 1		AN		IOL	0	
SDEC	PDF/EDD	SWAMP EDD	other					14						H	П	TI		
SPEC	pl	ease report down to the lase report results in dry v						Size										
PHYS	<u>ww</u> =	ater <u>FW</u> = freshwater <u>R</u> wastewater <u>DW</u> = drinki ue <u>E</u> = extract <u>O</u> = othe	ng water	ater			TOC	Grain S										
	SAMPLE ID	SAMPLE DESCRIPTION	SAM date	PLE time	physis matrix code	# of bottles						Ш						
1	SWHB-24		48/14	16:22	SED	1	Х	Х										
2	SWHB-25		4/8/14	15:37	SED	1	Х	Х										
3	SWHB-26		4/17/14	12:56	SED	1	Х	Х					JW J	111		4 5		
4	SWHB-27		4/18/14	14:42	SED	1	Х	Х				1						1212
5	SWHB-33	/	4/9/14	15:30	SED	1	Х	Х										150
6	SWHB-36		4/9/14	17:01	SED	1	Х	Х						4 1 1 1		175.0		
7	SWHB-06		4/7/14	8:35	SED	1	Х	Х										TERE
8	SWHB-28		4/17/14	16:12	SED	1	Х	Х					42					His lor
9	SWHB-53		4/18/14	13:29	SED	1	Х	Х										
10	SWHB-30		4/18/14	8:30	SED	1	Х	Х						7 = 1-		-1		
	print Adam Idell	signature.	Physis		date 8	15	A	1-Ho	amil	Hon		Cex	H	4	IIR	MES	5	17/15
					10.	10												0.10

## CHAIN OF TERRA GUSTEO DA AURA ENVIRON ESTA DE LA CRIES, INC.

Innovative Solutions for Nature

### City of San Diego

San Diego Bay Shallow Water Habitat Study

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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

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	V	1	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	1	l	Grain Size	Grab	Ziploc Bag	None	1
SWHB-	4/16/14	1224	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2
SWHB-	1	1	Grain Size	Grab	Ziploc Bag	None	1

SWHB-	7	V diam's	neo -	Grab	Ziploc Bag	None	
Comments: See att	achment for detaile	ed analytical list.					
Sampler's Initials:	53/TH )	Dato/Time: 4/2	7 /15  130 Received By	Man	do	Date/Time: 4/27/	5 12:3
Relinquished By:	m sw	Date/Time:	Received By			Date/Time:	

#### 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	4/8/14	0950	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2
SWHB-07	L		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	U		Grain Size	Grab	Ziploc Bag	None	1
SWHB-09	4/9/14	(238	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2
SWHB-09	t	J	Grain Size	Grab	Ziploc Bag	None	(

Comments: See attachment for	detailed analytical list.		
Sampler's Initials: 38(TH)	1	M c Chan	1hole
Relinquished By:	Date/Time: 415 / 130	Received By: 1/10/11/11	Date/Time: 427/15 12:30

Relinquished By:

Date/Time:

Date/Time:

Date/Time:

Received By:

# 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

Relinquished By:

Relinquished By:

Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.

Attn: Misty Mercier 1904 East Wright Circle Anaheim, California 92806

Date/Time:

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

	Analyses	Туре	Size	Preservative	Count	
114 (305	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2	
	Grain Size	Grab	Ziploc Bag	None	1	
12014 0914	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2	•
	Grain Size	Grab	Ziploc Bag	None	1	
8/14 1336	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	7	
	Grain Size	Grab	Ziploc Bag	None	T.	
t for detailed analytic		Grab	Ziploc Bag	None		= .III.
	1/2014 0914 L 1336	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,  Grain Size  General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,  Grain Size  General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grain Size  Grab   Grain Size  Grab   Grain Size  Grab  None	Grain Size  Grab		

Received By:

Received By:

Date/Time: 4-2115 [230

Date/Time:

# 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

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	7
SWHB-13	V	V	Grain Size	Grab	Ziploc Bag	None	- T
SWHB-14	4/8/14	1149	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2
SWHB-14	Ų.	U	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	1	<b>1</b>	Grain Size	Grab	Ziploc Bag	None	1

Sampler's Initials: 38/74	122.4	Al. cam	Date/Time: 429/15 12:30
Relinquished By:	Date/Time: 4-27-15 / 1230	Received By: LOW TOWN	Date/Time: 479/15 12:30
Relinquished By:	Date/Time:	Received By:	Date/Time:

# City of San Diego

San Diego Bay Shallow Water Habitat Study

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	ľU	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

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

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	V		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	7
SWHB-20	J	L	Grain Size	Grab	Ziploc Bag	None	T
SWHB-21	4/15/14	1734	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2
SWHB-21	1	1	Grain Size	Grab	Ziploc Bag	None	1

Comments: See attachment for detaile	d analytical list.		
Sampler's Initials: 33/TH Relinquished By: Relinquished By:	Date/Time:	Received By:	Date/Time: 4/27/15 12:30

# City of San Diego

San Diego Bay Shallow Water Habitat Study

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

San Diego, CA 92123

Relinquished By:

Relinquished By:

Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc. Attn: Misty Mercier

1904 East Wright Circle Anaheim, California 92806

Date/Time:

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	7
SWHB-16		V	Grain Size	Grab	Ziploc Bag	None	1
swhB-∳41	4/9/14	1756	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2
SWHB-	T		Grain Size	Grab	Ziploc Bag	None	(
SWHB-18	4/8/14	0953	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2
SWHB-18		C	Grain Size	Grab	Ziploc Bag	None	(

Received By

Received By:

Date/Time: 4/17/15 1230

Date/Time:

# 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

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	1	1	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	l		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	Z	•
SWHB-24	l	U	Grain Size	Grab	Ziploc Bag	None	1	

Comments: See attachment for	detailed analytical list.		
Sampler's Initials: 58/TH Relinquished By:	Date/Time: 4-27-15   230	Received By: Man Color	Date/Time: 4/27/15 12 30
Relinquished By:	Date/Time:	Received By:	Date/Time:

# City of San Diego

San Diego Bay Shallow Water Habitat Study

#### From:

Relinquished By:

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

Date/Time:

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

Date	Time	Analyses	Sample Type	Bottle Size	Preservative	Bottle Count
4/8/14	1537	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2
V		Grain Size	Grab	Ziploc Bag	None	1
4/17/14	1256	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2 •
1	1	Grain Size	Grab	Ziploc Bag	None	
4/18/14	1442	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2
1	1	Grain Size	Grab	Ziploc Bag	None	-1
	4/17/14	4/8/14 1537 U U 4/17/14 1256	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,  Grain Size  General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,  Grain Size  General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,  General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Date Time Analyses Type  General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,  Grab  Grab  General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,  Grab  Grab  Grain Size Grab  Grab  Grab  Grab  Grab  Grab  Grab  Grab  Grab  General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,  Grab   Date Time Analyses Type Size  General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, Grab 4 oz Glass  Grain Size Grab Ziploc Bag  General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, Grab 4 oz Glass  Grain Size Grab Ziploc Bag  General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, Grab 4 oz Glass  Grain Size Grain Size Grab 4 oz Glass	Date       Time       Analyses       Type       Size       Preservative         4 8 4       1537       General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, PCBs, PAHs, Pyrethroid Pesticides, Grab       4 oz Glass       None         4 17 4       1250       General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, PCBs, PAHs, Pyrethroid Pesticides, Grab       4 oz Glass       None         4 18 4       142       General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides, PCBs, PCBs, PAHs, Pyrethroid Pesticides, PCBs, PCBs, PAHs, Pyrethroid Pesticides, PCBs, PCBs, PCBs, PAHs, Pyrethroid Pesticides, PCBs,	

Comments: See attachment for detaile	ed analytical list.			
Sampler's Initials: 13/14			M. como	Ahali 5 12:30
Relinquished By:	Date/Time: 4-27-15	130	Received By: 100000	Date/Time: 4/27/1 3 12:30

Date/Time:

Received By:

### 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, Californía 92806

SampleID	Date	Time	Analyses	Sample Type	Bottle Size	Preservative	Bottle Count	
SWHB-	4/9/14	1530	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2	-
33 SWHB- <b>♠</b>	1	U	Grain Size	Grab	Ziploc Bag	None	1	
SWHB- <b>85</b> 34	4/9/14	1701	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2	-
SWHB- <b>66</b> 34	1		Grain Size	Grab	Ziploc Bag	None		-
SWHB-06	4/17/14	0836	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	2	-
SWHB-06	1	V	Grain Size	Grab	Ziploc Bag	None	1	
								7

Comments: See attachment for	detailed analytical list.		
Sampler's Initials:	1	A com	Alaska
Relinquished By:	Date/Time: 4-27-15 1230	Received By: WIM SUL	Date/Time: 427/15 12:30
Relinquished By:	Date/Time:	Received By:	Date/Time:

# 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

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		4	Grain Size	Grab	Ziploc Bag	None	
SWHB-	4/18/14	1329	General Chemistry, Metals, PBDE, PCBs, PAHs, Pyrethroid Pesticides,	Grab	4 oz Glass	None	9
SWHB-29	1	1	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	$\downarrow$	<b>V</b>	Grain Size	Grab	Ziploc Bag	None	1

Comments: See attachment for detailed analytical list.						
Sampler's Initials: 3/8/1	Date/Time: 4-27-15   23-0	Received By: Mam Caloo	Date/Time: 4/2/15 12:30			
Relinquished By:	Date/Time: 4-27-3 123-	Received By:	Date/Time:			



PHYSIS PROJECT ID

# SAMPLE RECEIPT SUMMARY

CLIENT:	SCCWRP	Date Received:	Apr 27, 2015	Received By: Al	Inspected By: Al
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COUR	IER
PHYSIS CLIEN	T FEDEX DUPS
tgOT	HER:

C	OOLER	
<b></b> COOLER	Вох	total #
OTHER:		

T	EMPERATU	RE
-2.9 ℃	✓ WET ICE	BLUE ICE
2.9	☐ DRY ICE	□ NONE /

# 

#### 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		EMAIL					CI NAME								- 10		COC PA	GE	
Amec Foster Wheeler Inc.		chris.stransky	@amec.com;	dorisv@scc	wrp.org	PO#	San Die	ego B	ay Sh		Wate	r Hal	oitat T			1 CE USED	of	1	Щ
Chris Stransky (Amec), Doris Vidal (S	CCWRP)	rmx				10#			rniala	303#			WET		BLU		DR	Y	
COMPANY ADDRESS: AMEC	3311111	PHONE				SAMPL									SHIPPE	D VIA			
9210 Sky Park Court		858-300-43	350; 714-75	55-3216	office	- 1	Tyler H	luff/ J	erem	y Burn	S		FEDE		UPS	_	USI		
San Diego, CA		858-77	5-5547 (Ch	ris)	cell								Client		Phys		othe	er	
STANDARD (15-20 business days)		RUSH	- 9	business	days			RE	Ql	JES			A PHYSIS S		LY	SE	S		
PHYSIS PDF/EDD SWAMP E	DD 🗆	other									FLEAS	LOCE	THISIS	1	П		T		П
SPECIAL INSTRUCTIONS						1													
Remaining samples missing from the SCCWRP. Please include Chris Stransky data deli						Size													
PHYSIS MATRIX CODES						Grain												П	
<u>SW</u> = seawater <u>FW</u> = fr	_	_	ater			้อ									1 1			П	
<u>ww</u> = wastewater		_									1 1							ш	
$\underline{\underline{S}}$ = sediment $\underline{\underline{T}}$ = tissue $\underline{\underline{E}}$ = extra				1 1		1									1 1				
SAMPLEID	MPLE RIPTION	SAM date	time	physis matrix code	# of bottles														
1 SWHB-12 See	diment	4/8/14	13:36		1	Х													
2 SWHB-16 See	diment	4/8/14	13:01		1	X													
3 SWHB-20 See	diment	4/8/14	14:55		F	X													
4 SWHB-24 See	diment	4/8/14	16:22		1	Х													
5 SWHB-25 See	diment	4/8/14	15:37		1	Х													
6											III.		115						
7														1			9 0		
8			81 - 11														-44		-1
9									Hi										7
10									1.0	9	1								
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PHYSIS PROJECT ID

# **SAMPLE RECEIPT SUMMARY**

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

	COURIER	
✓ PHYSIS	CLIENT FEDEX	UPS
start 09:45 b 14:15	OTHER:	)

C	OOLER	
<b></b> COOLER	Вох	total #
OTHER: _		_3)

T	EMPERATU	RE
6.1 °C	□ WET ICE	☐BLUE ICE
	☐ DRY ICE	NONE

# 

NOTES												
See Temperature												

# Regional Harbor Monitoring Program (RHMP)

Aug.-Sept. 2013

# CHAIN OF TERRA GUSTEO DA AURA ENVIRON ESTA DE LA CRIES, INC.

Innovative Solutions for Nature

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

Date	Time	Analyses	Sample Type	Bottle Size	Preservative	# Ind/ Weight
9/6/13	0725	Tissue Chemistry	Tissue	Foil/Bag	None	7
		Tissue Chemistry	Tissue	Foil/Bag	None	10.30
		Tissue Chemistry	Tissue	Foil/Bag	None	4-09
1		Tissue Chemistry	Tissue	Foil/Bag	None	5
9/5/13	1367	Tissue Chemistry	Tissue	Foil/Bag	None	7
$\downarrow$	$\downarrow$	Tissue Chemistry	Tissue	Foil/Bag	None	3.30
	9/6/13	9/6/13 0725	7/6/13 0725 Tissue Chemistry   Date Time Analyses Type   9/6/13 0725 Tissue Chemistry Tissue   Tissue Chemistry Tissue	Date     Time     Analyses     Type     Size       9/6/13     0725     Tissue Chemistry     Tissue     Foil/Bag       Tissue Chemistry     Tissue     Foil/Bag       Tissue Chemistry     Tissue     Foil/Bag       1     Tissue Chemistry     Tissue     Foil/Bag       1     Tissue Chemistry     Tissue     Foil/Bag       1     Tissue Chemistry     Tissue     Foil/Bag	Date     Time     Analyses     Type     Size     Preservative       9/0/13     0725     Tissue Chemistry     Tissue     Foil/Bag     None       Tissue Chemistry     Tissue     Foil/Bag     None       Tissue Chemistry     Tissue     Foil/Bag     None       9/5/13     1357     Tissue Chemistry     Tissue     Foil/Bag     None       Tissue Chemistry     Tissue     Foil/Bag     None	

Comments: See attachment for detailed	d analytical list.		
Sampler's Initials: BC S		A	
Sampler's initials.	-la-1111 1116	10000	-1001

Relinquished By:

Relinquished By:

Date/Time:

Received By:

Received By Clare Soll

Date/Time:

Date/Time:

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:

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4	SampleID	Date	Time	Analyses	Sample Type	Bottle Size	Preservative	# Ind/ Weight
×	B13-8020-CH	9/5/13	1357	Tissue Chemistry	Tissue	Foil/Bag	None	4
X	B13-8020-P	1	+	Tissue Chemistry	Tissue	Foil/Bag	None	4-49
V	B13-8029-BSB	9/5/13	0749	Tissue Chemistry	Tissue	Foil/Bag	None	4
X	B13-8029-CH			Tissue Chemistry	Tissue	Foil/Bag	None	4_
X	B13-8029-M			Tissue Chemistry	Tissue	Foil/Bag	None	67.30
X	B13-8029-P	1		Tissue Chemistry	Tissue	Foil/Bag	None	5.39

Comments: See attachment for detailed a	nalytical list.		
Sampler's Initials: BCS Relinquished By: Augustian Relinquished By:	Date/Time: 5 (22 / 14)	Received By: Acceived By:	Date/Time: 5/22/14 11:20

Bioaccumulation Tissue Analysis

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Relinquished By:

AMEC Environment & Infrastructure Attn: Chris Stransky 9210 Sky Park Court, Suite 200 San Diego, CA 92123

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To:

Physis Environmental Laboratories, Inc.

Attn: Misty Mercier 1904 East Wright Circle Anaheim, California 92806

Date/Time:

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

SampleID	Date	Time	Analyses	Sample Type	Bottle Size	Preservative	# Ind/ Weight
B13-8052-BSB	9/5/13	1034	Tissue Chemistry	Tissue	Foil/Bag	None	7
B13-8052-CH		1	Tissue Chemistry	Tissue	Foil/Bag	None	2
X B13-8052-M			Tissue Chemistry	Tissue	Foil/Bag	None	25.30
B13-8052-P		1	Tissue Chemistry	Tissue	Foil/Bag	None	4.99
B13-8060-BSB	9/4/13	0953	7 Tissue Chemistry	Tissue	Foil/Bag	None	4
B13-8060-C	1	1	Tissue Chemistry	Tissue	Foil/Bag	None	9.39

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Comments: See att	achment for detailed	analytical list.				
Sampler's Initials:	3CS			h - 00-0	1	
Relinquished By:	russim	Date/Time: <u>5</u> [2]	2/14 The Received By	Dom Soo	Date/Time:_5/3	12/14 11:2

Received By:

Date/Time:

Bioaccumulation Tissue Analysis

From:

AMEC Environment & Infrastructure Attn: Chris Stransky 9210 Sky Park Court, Suite 200 San Diego, CA 92123

Sampler's Initials: BCS

Relinquished By:

Relinquished By:

Phone: 858-300-4350 Fax: 858-300-4301

To:

Physis Environmental Laboratories, Inc.

Attn: Misty Mercier 1904 East Wright Circle Anaheim, California 92806

Date/Time:

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

1	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	2.89
,	B13-8060-SSB	1	1	Tissue Chemistry	Tissue	Foil/Bag	None	6
X	B13-8078-C	9/4/13	0733	Tissue Chemistry	Tissue	Foil/Bag	None	6.89
×	B13-8078-CH			Tissue Chemistry	Tissue	Foil/Bag	None	5
X	B13-8078-P	1	V	Tissue Chemistry	Tissue	Foil/Bag	None	6.09

1119

Date/Time:

Received By

Received By:

Bioaccumulation Tissue Analysis

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AMEC Environment & Infrastructure

Attn: Chris Stransky

9210 Sky Park Court, Suite 200

San Diego, CA 92123

Phone: 858-300-4350 Fax: 858-300-4301

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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	9.39
B13-8109-CH			Tissue Chemistry	Tissue	Foil/Bag	None	Y
B13-8109-P			Tissue Chemistry	Tissue	Foil/Bag	None	7.89
X 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	Date/Time: 5/22/14	1119 Received By: Harr 2000	Date/Time: \$22/14 11:20					
Relinquished By:  Relinquished By:	Date/Time:	Received By:	Date/Time:					

Bioaccumulation Tissue Analysis

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

San Diego, CA 92123

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To:

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Attn: Misty Mercier 1904 East Wright Circle Anaheim, California 92806

SampleID	Date	Time	Analyses	Sample Type	Bottle Size	Preservative	# Ind/ Weight
XB13-8118-BSB-D	9/3/1:	3 1204	Tissue Chemistry	Tissue	Foil/Bag	None	8
XB13-8118-C			Tissue Chemistry	Tissue	Foil/Bag	None	37.30
B13-8118-CH			Tissue Chemistry	Tissue	Foil/Bag	None	5
B13-8118-CH-D			Tissue Chemistry	Tissue	Foil/Bag	None	5
<b>⊁</b> B13-8118-P	J	1	Tissue Chemistry	Tissue	Foil/Bag	None	3.59
B13-8122-BSB	9/3/13	3 085	Tissue Chemistry	Tissue	Foil/Bag	None	12

Comments: See attachment for detailed a	nalytical list.		
Sampler's Initials:BCS	Classif 1116	40 000	5/02/14 110

Sampler's Initials: 1703	6/22/14	Received By: Man 2000	Date/Time: 500/4 11:2
Relinquished By: Chuyshin	Date/Time:	Received By	Date/Time: 2001(41).
Relinquished By:	Date/Time:	Received By:	Date/Time:

Bioaccumulation Tissue Analysis

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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

Date	Time	Analyses	Sample Type	Bottle Size	Preservative	# Ind/ Weight
9/3/13	0863	Tissue Chemistry	Tissue	Foil/Bag	None	3.59
		Tissue Chemistry	Tissue	Foil/Bag	None	7
$\downarrow$		Tissue Chemistry	Tissue	Foil/Bag	None	7.39
8/8/13	3 1459	Tissue Chemistry	Tissue	Foil/Bag	None	5
		Tissue Chemistry	Tissue	Foil/Bag	None	5.3g
<b>V</b>	-	Tissue Chemistry	Tissue	Foil/Bag	None	959
	9/3/13	9/3/13 0863	Tissue Chemistry   Date Time Analyses Type   9/3/13 0863 Tissue Chemistry Tissue   Tissue Chemistry Tissue	Date     Time     Analyses     Type     Size       9/3/13     0863     Tissue Chemistry     Tissue     Foil/Bag       Tissue Chemistry     Tissue     Foil/Bag       1     Tissue Chemistry     Tissue     Foil/Bag       1     Tissue Chemistry     Tissue     Foil/Bag       1     Tissue Chemistry     Tissue     Foil/Bag       2     Tissue Chemistry     Tissue     Foil/Bag	Date     Time     Analyses     Type     Size     Preservative       9/3/13     0863     Tissue Chemistry     Tissue     Foil/Bag     None       1     Tissue Chemistry     Tissue     Foil/Bag     None       1     Tissue Chemistry     Tissue     Foil/Bag     None       2/8/13     1459     Tissue Chemistry     Tissue     Foil/Bag     None       Tissue Chemistry     Tissue     Foil/Bag     None	

Comments: See attachment for detailed	analytical list.		
Sampler's Initials: BCS	5122 114	Received By Man Jaco	Date/Time: 5/20/14 11:20
Relinquished By: augustum	Date/Time:		
Relinquished By:	Date/Time:	Received By:	Date/Time:

#### RHMP

Bioaccumulation Tissue Analysis

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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

SampleID	Date	Time	Analyses	Sample Type	Bottle Size	Preservative	# Ind/ Weight
X B13-8159-YC	8/8/13	3 1459	Tissue Chemistry	Tissue	Foil/Bag	None	9
X B13-8239-CH	8/6/13	1445	Tissue Chemistry	Tissue	Foil/Bag	None	
XB13-8239-P			Tissue Chemistry	Tissue	Foil/Bag	None	79
X B13-8239-S			Tissue Chemistry	Tissue	Foil/Bag	None	Sta
(XB13-8239-SC	1	1	Tissue Chemistry	Tissue	Foil/Bag	None	4
( B13-8263-CH	8/5/1	3 1740	Tissue Chemistry	Tissue	Foil/Bag	None	5

Comments: See attachment	for detailed analytical list.		
Sampler's Initials: BUS Relinquished By: CWA	hun Date/Time: 5/22	14 Meceived By Dlam Blood	Date/Time: 5/22/14 11: 20
Relinquished By:	Date/Time:	Received By:	Date/Time:

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

Comments: See attachment for detailed analytical list.

To:

Physis Environmental Laboratories, Inc.

Attn: Misty Mercier 1904 East Wright Circle Anaheim, California 92806

	SampleID	Date	Time	Analyses	Sample Type	Bottle Size	Preservative	# Ind/ Weight
X	B13-8263-P	8/6/13	1740	Tissue Chemistry	Tissue	Foil/Bag	None	89
×	B13-8263-S	4		Tissue Chemistry	Tissue	Foil/Bag	None	459
×	B13-8263-SC	1	1	Tissue Chemistry	Tissue	Foil/Bag	None	4

Sampler's Initials: BC	5		40 - 20 0	- F T
Relinquished By:	ayshin		Received By: Mdun House	Date/Time: 5/02/14 11: 20
Relinquished By:		Date/Time:	Received By:	Date/Time:

Bioaccumulation Tissue Analysis

From:

AMEC Environment & Infrastructure

Attn: Chris Stransky

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San Diego, CA 92123

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To:

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	SampleID	Date	Time	Analyses	Type	Size	Preservative	# Ind/ Weight
X	B13-8159-DA	8/8/	13 1459	Tissue Chemistry	Tissue	Foil/Bag	None	8
×	B13-8159-Q			Tissue Chemistry	Tissue	Foil/Bag	None	44
X	B13-8159-SA		<b>V</b>	Tissue Chemistry	Tissue	Foil/Bag	None	27
X	B13-8239-Q	8/41	13 1445	Tissue Chemistry	Tissue	Foil/Bag	None	X168)

Comments: See attachment for detailed	d analytical list.		
Sampler's Initials: 665	The III	1119 0 0000	-[-]-4
Relinquished By: Quantum	Date/Time: 5/22 /14	Received By:	
Relinquished By:	Date/Time:	Received By:	Date/Time:

# 13 Regional Harbor Monitoring Program # 1315102302 1014 Bight '13 Bioaccumulation Special Study – Tissue Analysis Summary and Linstructions (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)