

**CH2MHILL Applied Sciences Lab**  
 CHAIN OF CUSTODY RECORD  
 AND AGREEMENT TO PERFORM SERVICES

C/O 2300 NW Walnut Boulevard  
 Corvallis, OR 97330-3038  
 (541) 752-4271 FAX (541) 752-0276

COC #

Project #		Purchase Order #		THIS AREA FOR LAB USE ONLY	
334222.01.12				Lab #	Page of
Project Name		Requested Analytical Method #			
CCH Special Study					
Company Name		Preservative		EPA Tier QC Level	
City & County of Honolulu				1 (Screening) 2 3 4	
Project Manager or Contact & Phone #		Report Copy to:		Alternate Description	
Dennis Shelton / CVO				Lab ID	
Requested Completion Date:		Site ID			
Sample Disposal:		TOTAL # OF CONTAINERS			
Dispose <input type="checkbox"/>		2			
Return <input type="checkbox"/>					
CLIENT SAMPLE ID (9 CHARACTERS)		LAB QC			
5244201					
5244202					
Handwritten: HANDBOOK 2 PAGES COMPO SITE					
Date		Date/Time		Date/Time	
9/10/07 6:24		9/10/07 0800		9/14/07 0755 AM	
9/11/07		9/10/07 0800		9/14/07 0755 AM	
Type		Matrix		Date/Time	
C O M P		S O I L		9/14/07 0755 AM	
G R A B		W A T E R		9/14/07 0755 AM	
S O I L		A I R		9/14/07 0755 AM	
R E C E I V E D		S C I Y		9/14/07 8:54	
Relinquished By: [Signature]		Date/Time		Received By: [Signature]	
DALE TAKATA		9/10/07 0800		tyeshizuma	
Relinquished By: [Signature]		Date/Time		Relinquished By: [Signature]	
SCY		9/10/07 0800		tyeshizuma	
Relinquished By: [Signature]		Date/Time		Relinquished By: [Signature]	
REYNALD [Signature]		9/10/07 1:00		REYNALD [Signature]	
Relinquished By: [Signature]		Date/Time		Relinquished By: [Signature]	
REYNALD [Signature]		9/10/07 1:00		REYNALD [Signature]	
Relinquished By: [Signature]		Date/Time		Relinquished By: [Signature]	
REYNALD [Signature]		9/10/07 1:00		REYNALD [Signature]	
Special Instructions:		Shipping #		Shipping #	
		UPS		Fed-Ex	
		Other		Other	

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: Original - LAB, Yellow - LAB, Pink - Client  
 REV 09/2006 LAB FORM 340

**CH2MHILL Applied Sciences Lab**  
**CHAIN OF CUSTODY RECORD**  
**AND AGREEMENT TO PERFORM SERVICES**

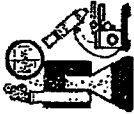
C/O 2300 NW Walnut Boulevard  
 Corvallis, OR 97330-3636  
 (541) 752-4271 FAX (541) 752-0276

COC #

Project # <b>334222-01.12</b>		Purchase Order #		THIS AREA FOR LAB USE ONLY	
Project Name <b>CCH Special Study</b>		Requested Analytical Method #		Lab #	Page of
Company Name <b>City &amp; County of Honolulu</b>		Project Manager or Contact & Phone # <b>Dennis Shelton / CVO</b>			
Report Copy to:		Site ID			
Requested Completion Date:		Sample Disposal: Dispose <input type="checkbox"/> Return <input type="checkbox"/>			
Type		Matrix		EPA Tier QC Level	
C O M P		W S A I R		1 (Screening) 2 3 4	
G R A T E R		O I L		Alternate Description	
C H A R A C T E R S		LAB QC		Lab ID	
CLIENT SAMPLE ID (9 CHARACTERS)		Date/Time		Date/Time	
5 2 4 3 2 0 1		9/4/07 7:07		9/4/07 7:48	
5 2 4 3 2 0 2		9/4/07		9/4/07 8:57	
Sand Island					
Sediment Composite					
TOTAL # OF CONTAINERS		Received By		Date/Time	
2		Reynoldson, Dan		9/4/07 7:48	
Pesticides		Reynoldson, Dan		9/4/07 7:48	
AOC		Reynoldson, Dan		9/4/07 8:57	
✓		Reynoldson, Dan		9/4/07 8:57	
		Shipped Via		Shipping #	
		UPS Fed-Ex Other			
Relinquished By		Date/Time		Date/Time	
Reynoldson, Dan		9/4/07 7:07		9/4/07 7:48	
Reynoldson, Dan		9/4/07 7:07		9/4/07 8:57	
Luteshin, W		9/4/07 7:07		9/4/07 8:57	
Special Instructions:					

DISTRIBUTION: Original - LAB, Yellow - LAB, Pink - Client  
 REV 09/2006 LAB FORM 340

Instructions and Agreement Provisions on Reverse Side



# WATER QUALITY LABORATORY

C&C of Honolulu, Department of Environmental Services, Division of Environmental Quality  
1350 Sand Island Parkway, 3rd #9 Honolulu, Hawaii 96819 (808) 847-4360

Sampling Site: Honolulu (H) & Sand Island (S)  
Sampling Dates: 9/3/07-9/4/07

Extraction Date: 9/4/07  
Completion Date: 9/11/07

Toxics Log Numbers:

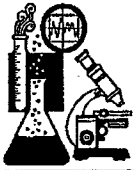
Analyte	5244T01		5242T01		5244T01		5242T01		5242T01		5242T01	
	MDL ug/L	ML ug/L	Effluent (H3A) ug/L	Effluent (H3B) ug/L	Effluent (S3A) ug/L	Effluent (S3B) ug/L	Influent ug/L	Effluent MS(H3S) %R	Effluent MS(S3S) %R	Effluent MSD %R	LCS %R	Method %R Range
Chlordane	0.020	0.100	0.049 J	0.061 J	0.072 J	0.070 J	0.089 J	76%	85%	76%	121%	45% - 119%
Dieldrin	0.004	0.009	0.017	0.015	0.034	0.035	0.039	105%	106%	88%	86%	36% - 146%
DDT	0.002	0.009	ND	ND	ND	ND	ND	88%	102%	106%	127%	25% - 160%
Surrogates												
TMX %R			77%	88%	77%	89%	85%	98%	82%	98%	92%	80% - 150%*
DCB %R			69%	70%	65%	75%	78%	78%	68%	86%	70%	60% - 150%*

\*Advisory QC %R Range

J - qualifier flag for estimate--result is between the MDL and ML  
ND - not detected at or above the MDL

Richard S. Johnson 10/12/07  
*[Signature]*  
Analyst

*[Signature]*  
Supervisor 10/12/07






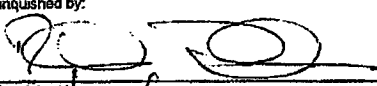
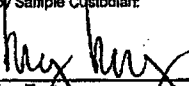
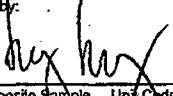
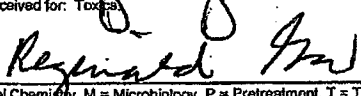
# WATER QUALITY LABORATORY

C&C of Honolulu, Department of Environmental Services, Division of Environmental Quality

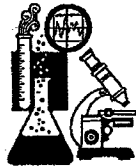
1350 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-8360

Login Date is: Monday, August 27, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: 21

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE END DATE	START TIME END TIME	UNIT ANALYSES	
				TYPE	PRESERVATIVE
5240T01	Honouliuli Effluent	8/26/07 8/27/07	0811 0709	Comp	T Special Study-Pestici 
5240Z01	Honouliuli Effluent	8/26/07 8/27/07	0811 0709	Comp	Z Special Study-Pestici 
5240Z02	Honouliuli Effluent	8/26/07 8/27/07	0811 0709	Comp	Z Special Study-Pestici  Temp. 5.0°C 08/27/07
Relinquished by: 		Received by Sample Custodian: 		Date/Time: 08/27/07 0900	
Relinquished by: 		Received for: Toxic 		Date/Time: 08/27/07 0917	

Comp = Composite Sample Unit Codes: B = Aquatic Biology, C = General Chemistry, M = Microbiology, P = Pretreatment, T = Toxics, Z = Contracted Out






# WATER QUALITY LABORATORY

C&C of Honolulu, Department of Environmental Services, Division of Environmental Quality

1350 Sand Island Parkway, Bldg #9 Honolulu, Hawaii 96819 (808) 547-8360

Login Date is: Monday, August 27, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: Reginald Bai

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE		START TIME		UNIT ANALYSES	
		END DATE	END DATE	END TIME	END TIME		TYPE PRESERVATIVE
5239T01	Sand Island Effluent	8/26/07	8/27/07	7:05	7:07	Comp T Special Study-Pestici 	
5239Z01	Sand Island Effluent	8/26/07	8/27/07	↓	↓	Comp Z Special Study-Pestici 	
5239Z02	Sand Island Effluent	8/26/07	8/27/07	↓	↓	Comp Z Special Study-Pestici 	
Relinquished by: <u>Reginald Bai</u>		Received by Sample Custodian: <u>Mxy Mxy</u>				Date/Time: 08/21/07 0727	
Relinquished by: <u>Mxy Mxy</u>		Received for: Toxics: <u>VIA ROOM 310</u> <u>SAMPLE REFRIGERATOR</u>				Date/Time: 08/21/07 0731	

Comp = Composite Sample Unit Codes: B = Aquatic Biology, C = General Chemistry, M = Microbiology, P = Pretreatment, T = Toxics, Z = Contracted Out

**CH2M HILL Applied Sciences Lab**  
**CHAIN OF CUSTODY RECORD**  
**AND AGREEMENT TO PERFORM SERVICES**

CVO 2300 NW Weinstock Boulevard  
 Conville, OR 97330-3638  
 (541) 752-4271 FAX (541) 752-0276

COC #

Project # <b>334222.01.12</b>		Purchase Order #		THIS AREA FOR LAB USE ONLY	
Project Name <b>CCH Special Study</b>		Requested Analytical Method #		Lab #	Page of
Company Name <b>City &amp; County of Honolulu</b>		Preservative			
Project Manager or Contact & Phone # <b>Dennis Shelton/CVO</b>		Report Copy to:			
Requested Completion Date: Site ID		Sample Disposal: Dispos <input type="checkbox"/> Return <input type="checkbox"/>		EPA Tier QC Level	
		LAB QC		1 (Screening) 2 3 4	
CLIENT SAMPLE ID (9 CHARACTERS)		LAB QC		Alternate Description	
Type Matrix		LAB QC		Lab ID	
C O W S A M W T O R P A B E L		LAB QC			
Date Time		LAB QC			
8/24/07 7:07		LAB QC			
8/27/07		LAB QC			
5 2 3 9 2 0 1		LAB QC			
5 2 3 9 2 0 2		LAB QC			
Sand Island Effluent Composite		LAB QC			
TOTAL # OF CONTAINERS		LAB QC			
2		LAB QC			
Received By <i>[Signature]</i>		Date/Time 8/27/07 0727			
Relinquished By <i>[Signature]</i>		Date/Time 8/27/07 7:45			
Relinquished By <i>[Signature]</i>		Date/Time 8/27/07 7:45			
Relinquished By <i>[Signature]</i>		Date/Time 8/27/07 7:45			
Shipped Via UPS Fed-Ex Other		Shipping #			
Special Instructions:					

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: Original - LAB, Yellow - LAB, Pink - Client  
 REV 08/2006 LAB FORM 340

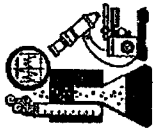
**CH2MHILL Applied Sciences Lab**  
**CHAIN OF CUSTODY RECORD**  
**AND AGREEMENT TO PERFORM SERVICES**

CVO 2300 NW Walnut Boulevard  
 Corvallis, OR 97330-3638  
 (841) 752-4271 FAX (841) 752-0276

COC #

Project # 334222.01.12		Purchase Order #		THIS AREA FOR LAB USE ONLY	
Project Name CCH Special Study		Requested Analytical Method #		Lab #	Page of
Company Name City of County of Howard		Preservative			
Project Manager or Contact & Phone # Dennis Shelton/CVO		Report Copy to:			
Requested Completion Date: Site ID:		Sample Dispositi: Dispose <input type="checkbox"/> Return <input type="checkbox"/>		EPA Tier QC Level	
				1 (Screening) 2 3 4	
		CLIENT SAMPLE ID (9 CHARACTERS)		Alternate Description	
		LAB QC		Lab ID	
		TOTAL # OF CONTAINERS			
		2			
Relinquished By RIP		Received By Muxluk		Date/Time 08/21/07 0906	
Sampled By and Title D. R. RAY TARA SCRY		Relinquished By Muxluk		Date/Time 08/21/07 0907	
Relinquished By REGANED GOO		Relinquished By Reganeda Muxluk		Date/Time 8/22/07 9:15	
Received By		Shipped Via UPS Fed-Ex Other		Shipping #	
Special Instructions:					

Instructions and Agreement Provisions on Reverse Side



# WATER QUALITY LABORATORY

C&C of Honolulu, Department of Environmental Services, Division of Environmental Quality  
1330 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-8360

## EPA 608 Organochlorine Pesticides/PCBs Analytical Report

Sampling Site: Honouliuli (H) & Sand Island (S)  
Sampling Dates: 8/26-27/07

Extraction Date: 8/29/2007  
Completion Date: 9/8/2007  
Toxics Log Numbers:

Analyte	MDL ug/L	ML ug/L	5240		5239		5240		5239		Equipment: HP 5890GC		Method %R Range
			Effluent (H2A) ug/L	Effluent (H2B) ug/L	Effluent (S2A) ug/L	Effluent (S2B) ug/L	Blank ug/L	MS(H2S) %R	MS(S2S) %R	LCS %R			
Chlordane	0.022	0.100	ND	ND	0.040 J	0.047 J	ND	ND	90%	86%	87%	86%	45% - 119%
Dieldrin	0.002	0.009	0.009	0.006 J	0.024	0.024	ND	ND	82%	66%	78%	66%	36% - 146%
4,4'-DDT	0.003	0.009	ND	ND	ND	ND	ND	ND	62%	58%	71%	58%	25% - 160%

### Surrogates

TMX %R	78%	80%	77%	83%	77%	81%	79%	84%	80% - 150%*
DCB %R	65%	68%	69%	72%	76%	68%	68%	77%	60% - 150%*

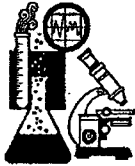
\*Advisory QC %R Range

J - qualifier flag for estimate--result is between the MDL and ML  
ND - not detected at or above the MDL

*Revised 9/21/13/07*  
Supervisor

*Richard S. Takayama 11/13/07*  
Analyst





# WATER QUALITY LABORATORY

*C&C of Honolulu, Department of Environmental Services, Division of Environmental Quality*

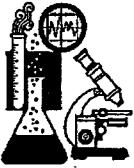
1350 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-8360

Login Date is: **Monday, August 13, 2007**

**PRIORITY POLLUTANT SAMPLING**    **SAMPLER:** *L. Kan*

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE		START TIME		UNIT ANALYSES	PRESERVATIVE
		END DATE	END DATE	END TIME	END TIME		
5232T01	Honouliuli Effluent	8/12/07	8/13/07	<i>0745</i>	<i>0705</i>	Comp T Special Study-Pestici	
5232Z01	Honouliuli Effluent	8/12/07	8/13/07	<i>0745</i>	<i>0705</i>	Comp Z Special Study-Pestici	
5232Z02	Honouliuli Effluent	8/12/07	8/13/07	<i>0745</i>	<i>0705</i>	Comp Z Special Study-Pestici	
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i> Sample Custodian				Date/Time: <i>08/13/07 1026</i>	
Relinquished by: <i>[Signature]</i>		Received for: <i>[Signature]</i> Toxic				Date/Time: <i>08/13/07 1020</i>	

Comp = Composite Sample    Unit Codes: B = Aquatic Biology, C = General Chemistry, M = Microbiology, P = Pretreatment, T = Toxics, Z = Contracted Out



# WATER QUALITY LABORATORY

C&C of Honolulu, Department of Environmental Services, Division of Environmental Quality

1350 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-8360

Login Date is: Monday, August 13, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: Reginald Gao

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE		START TIME		UNIT ANALYSES
		END DATE	END DATE	END TIME	END TIME	
5231T01	Sand Island Effluent	8/12/07	8/13/07	7:10	7:06	Comp T Special Study-Pestici Temp = 5.2°C MS 08/13/07
5231Z01	Sand Island Effluent	8/12/07	8/13/07			Comp Z Special Study-Pestici
5231Z02	Sand Island Effluent	8/12/07	8/13/07			Comp Z Special Study-Pestici

Relinquished by: <u>Reginald Gao</u>	Received by Sample Custodian: <u>My My</u>	Date/Time: <u>08/13/07 0731</u>
--------------------------------------	--	---------------------------------

Relinquished by: <u>My My</u>	Received for: Toxic: <u>VIA ROOM</u> <u>310 SAMPLE REPLICATOR</u>	Date/Time: <u>08/13/07 0736</u>
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Comp = Composite Sample Unit Codes: B = Aquatic Biology, C = General Chemistry, M = Microbiology, P = Pretreatment, T = Toxics, Z = Contracted Out

**CH2M HILL Applied Sciences Lab**  
**CHAIN OF CUSTODY RECORD**  
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 Corvallis, OR 97330-3838  
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Project # <b>334222.01.12</b>		Purchase Order #		THIS AREA FOR LAB USE ONLY	
Project Name <b>CCH Special Study</b>		Requested Analytical Method #		Lab #	Page of
Company Name <b>City &amp; County of Honsaleku</b>		Preservative			
Project Manager or Contact & Phone # <b>Denn is Shelton /CVO</b>		Report Copy to:			
Requested Completion Date: Site ID		Sample Disposal: Disease <input type="checkbox"/> Return <input type="checkbox"/>			
Sampling	Type	Matrix	CLIENT SAMPLE ID (9 CHARACTERS)	LAB QC	EPA Tier QC Level
	CGWA COMB				
Date	Time				Alternate Description
8/12/07	7:05		5232201		
			5232202		
			Honsaleku, Shelton		
			Composite		
Retrieved By <b>S. WA</b>		Date/Time	Received By	Date/Time	
Sampled By and Title <b>L. KAM S.C.I.</b>		8/12/07	<b>MANI MW</b>	8/12/07	1024
Received By		Date/Time	Relinquished By (Please sign and print name)	Date/Time	
			<b>REGULATED GPO</b>	8/13/07	10.50
Received By		Date/Time	Relinquished By (Please sign and print name)	Date/Time	
Special Instructions:		Shipped Via		Shipping #	
		UPS Fed-Ex Other			

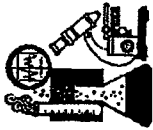
Instructions and Agreement Provisions on Reverse Side

**CH2M HILL Applied Sciences Lab**  
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Project Name <b>CCH Special Study</b>		Requested Analytical Method #		Lab #	Page of
Company Name <b>City &amp; County of Honolulu</b>		Preservative			
Project Manager or Contact & Phone # <b>Dennis Shelton / CVO</b>		Report Copy to:			
Requested Completion Date: _____		Site ID			
Sample Disposal: Dispose <input type="checkbox"/> Return <input type="checkbox"/>		TOTAL # OF CONTAINERS			
Type Matrix		CLIENT SAMPLE ID (8 CHARACTERS)		EPA Tier QC Level	
Sampling	C G W A S I R A T I O N C M P L E X	LAB QC		1 (Screening) 2 3 4	
Date	Time			Alternate Description	
8/12/07	7:06	5231201			
8/13/07		5231202			
		Sand Island			
		Effluent			
		Composite			
Relinquished By <b>Reynold Yu</b>	Date/Time <b>8/10/07</b>	Received By <b>Muyong</b>	Date/Time <b>08/13/07</b>		
Sampled by and Title <b>Reynold Yu</b>	Date/Time <b>8/10/07</b>	Relinquished By <b>Muyong</b>	Date/Time <b>08/13/07</b>		
Received By <b>Reynold Yu</b>	Date/Time <b>8/10/07</b>	Relinquished By <b>Muyong</b>	Date/Time <b>08/13/07</b>		
Received By	Date/Time	Shipped Via UPS Fed-Ex Other	Shipping #		
Special Instructions:					



# WATER QUALITY LABORATORY

C&C of Honolulu, Department of Environmental Services, Division of Environmental Quality  
1350 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-8360

## EPA 608 Organochlorine Pesticides/PCBs Analytical Report

Sampling Site: Honouliuli (H) & Sand Island (S)  
Sampling Dates: 8/12-13/07

Extraction Date: 8/13/2007  
Completion Date: 8/22/2007

Toxics Log Numbers:

Equipment: HP 5890GC

Analyte	MDL ug/L	ML ug/L	5232		5231		5232		5231		LCS %R	Method %R Range
			Effluent (H1A) ug/L	Effluent (H1B) ug/L	Effluent (S1A) ug/L	Effluent (S1B) ug/L	Blank ug/L	Effluent MS(H1S) %R	Effluent MS(S1S) %R			
Chlordane	0.022	0.100	ND	ND	0.035 J	0.054 J	ND	ND	98%	107%	83%	45% - 119%
Dieldrin	0.002	0.009	0.016	0.005 J	ND	0.015	ND	ND	74%	92%	70%	36% - 146%
4,4'-DDT	0.003	0.008	ND	ND	ND	0.021	ND	ND	96%	90%	99%	25% - 160%

### Surrogates

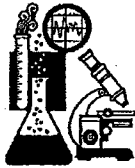
TMX %R	86%	77%	59%	95%	86%	88%	91%	60% - 150%*
DCB %R	67%	52%	54%	75%	78%	73%	83%	60% - 150%*

\*Advisory QC %R Range

J - qualifier flag for estimate--result is between the MDL and ML  
ND - not detected at or above the MDL

*Richard S. Zaborone 11/13/07*  
Analyst

*Reginald Gray 11/13/07*  
Supervisor



# WATER QUALITY LABORATORY

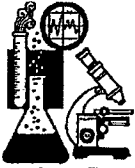
C&C of Honolulu, Department of Environmental Services, Division of Environmental Quality

1350 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-8360

Login Date is: Tuesday, August 07, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: R600, R.TAKAZAWA, J.RUTHERFORD, LISA S.FAULT

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE END DATE	START TIME END TIME	TYPE	UNIT ANALYSES PRESERVATIVE	
5195T01	Sand Island Influent	8/6/07 8/7/07	7:19 0715	Comp	T MET HNO3	
5195T02	Sand Island Influent	8/6/07 8/7/07		Comp	T 608	
5195T03	Sand Island Influent	8/6/07 8/7/07		Comp	T 608	
5195Z01 ✓	Sand Island Influent	8/6/07 8/7/07		Comp	Z 614	
5195Z02 ✓	Sand Island Influent	8/6/07 8/7/07		Comp	Z 614	
5195Z03 ✓	Sand Island Influent	8/6/07 8/7/07		Comp	Z 625	
5195Z04 ✓	Sand Island Influent	8/6/07 8/7/07		Comp	Z 625	
5195Z05 ✓	Sand Island Influent	8/6/07 8/7/07		Comp	Z 613	
5195Z06 ✓	Sand Island Influent	8/6/07 8/7/07		Comp	Z 613	
5196T01 ✓	Sand Island Effluent	8/6/07 8/7/07	7:12 0710	Comp	T MET HNO3	
5196T02 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	T DMET HNO3	
5196T03 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	T 608	
5196T04 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	T 608	
5196Z01 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 614	
5196Z02 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 614	
5196Z03 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 614	
5196Z04 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 614	
5196Z05 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 614	
5196Z06 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 614	
5196Z07 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 614	



# WATER QUALITY LABORATORY

C&C of Honolulu, Department of Environmental Services, Division of Environmental Quality

1350 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-8360

Login Date is: Tuesday, August 07, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: R. COO, R. TAKAZAWA, J. RUTHERFORD, L. FUJITA

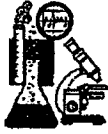
SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE END DATE	START TIME END TIME	UNIT ANALYSES	
				TYPE	PRESERVATIVE
5196Z08 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 625
5196Z09 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 625
5196Z10 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 625
5196Z11 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 625
5196Z12 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 625
5196Z13 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 613
5196Z14 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 613
5196Z15 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 613
5196Z16 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 613
5196Z17 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z 613
5196Z18 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z Organotin
5196Z19 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z Organotin
5196Z20 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z Organotin
5196Z21 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z Organotin
5196Z22 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z Organotin
5196Z23 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z Pesticides Special study
5196Z24 ✓	Sand Island Effluent	8/6/07 8/7/07		Comp	Z Pesticides Special study

Relinquished by: <i>[Signature]</i>	Received by Sample Custodian: <i>[Signature]</i>	Date/Time 8-7-07 0750
Relinquished by: <i>[Signature]</i>	Received for: Toxics: <i>[Signature]</i>	Date/Time 08/07/07 0800

Comp = Composite Sample Unit Codes: B = Aquatic Biology, C = General Chemistry, M = Microbiology, P = Pretreatment, T = Toxics, Z = Contracted Out







# WATER QUALITY LABORATORY

C&C of Honolulu, Department of Environmental Services, Division of Environmental Quality

1350 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-8360

## EPA 608 Organochlorine Pesticides/PCBs Analytical Report

Sampling Site: Sand Island WWTP      Sampling Date: 8/6/07 - 8/7/07  
 Extraction Date: 8/7/07      Completion Date: 8/13/07  
 Toxics Log Numbers: 5195T02 5196T03      Equipment: HP 6890 GC

Analyte	ML ug/L	Influent ug/L	Effluent ug/L	Effluent Duplicate ug/L	Blank ug/L	Effluent MS %R	Effluent MSD %R	RPD	LCS %R	Method %R Range
Aldrin	0.009	ND	ND	ND	ND	84%	77%	9%	89%	42% - 122%
alpha-BHC	0.009	ND	ND	ND	ND	91%	84%	8%	95%	37% - 134%
beta-BHC	0.009	ND	ND	ND	ND	89%	83%	7%	94%	17% - 147%
delta-BHC	0.009	ND	ND	ND	ND	91%	81%	11%	99%	19% - 140%
gamma-BHC	0.009	ND	ND	ND	ND	93%	85%	9%	97%	32% - 127%
Chlordane	0.10	0.07 J	0.05 J	0.07 J	ND					45% - 119%
4,4' -DDD	0.009	ND	ND	0.013	ND	112%	91%	21%	114%	31% - 141%
4,4' -DDE	0.009	ND	ND	ND	ND	97%	89%	9%	100%	30% - 145%
4,4' -DDT	0.009	ND	ND	0.011	ND	108%	87%	21%	111%	25% - 180%
Dieldrin	0.009	0.043	0.021	0.038	ND	104%	91%	12%	102%	38% - 146%
Endosulfan I	0.009	ND	ND	ND	ND	83%	77%	8%	86%	45% - 153%
Endosulfan II	0.009	ND	ND	ND	ND	98%	81%	18%	93%	D - 202%
Endosulfan sulfate	0.020	ND	ND	0.009	ND	121%	99%	20%	100%	26% - 144%
Endrin	0.020	ND	ND	ND	ND	107%	87%	20%	95%	30% - 147%
Endrin aldehyde	0.009	ND	ND	ND	ND	75%	53%	35%	92%	NA
Heptachlor	0.009	ND	ND	ND	ND	89%	81%	9%	89%	34% - 111%
Heptachlor epoxide	0.009	ND	ND	ND	ND	94%	85%	10%	93%	37% - 142%
Methoxychlor	0.009	ND	ND	ND	ND	76%	70%	8%	87%	NA
Mirex	0.009	ND	ND	ND	ND	87%	83%	4%	86%	NA
PCB 1016	0.25	ND	ND	ND	ND					50% - 114%
PCB 1221	0.25	ND	ND	ND	ND					15% - 178%
PCB 1232	0.25	ND	ND	ND	ND					10% - 215%
PCB 1242	0.25	ND	ND	ND	ND					39% - 150%
PCB 1248	0.25	ND	ND	ND	ND					38% - 158%
PCB 1254	0.25	ND	ND	ND	ND					29% - 131%
PCB 1260	0.25	ND	ND	ND	ND					8% - 127%
Toxaphene	0.25	ND	ND	ND	ND					41% - 126%
Surrogates										*Advisory QC %R Range
TMX %R		79%	71%	75%	88%	83%	77%		78%	60% - 150%*
DCB %R		69%	67%	73%	76%	72%	70%		73%	60% - 150%*

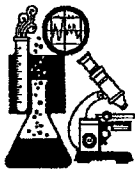
ND = not detected above Method Detection Limit (MDL). Minimum Level (ML) = lowest calibration standard used.  
 MS = Matrix Spike; MSD = MS Duplicate; RPD = Relative Percent Difference; %R = Percent Recovery

B = Analyte was found in laboratory blank and indicates possible reagent or background contamination.

Richard S. Zubazena 8/22/07  
Analyst

Reynald J. Dow 8/23/07  
Supervisor

SI080607.xlt Printed: 8/22/07



# WATER QUALITY LABORATORY

C&C of Honolulu, Department of Environmental Services, Division of Environmental Quality

1350 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-8360

Login Date is: Friday, May 04, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: Reginald Gao

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE END DATE	START TIME END TIME	UNIT ANALYSES	
				TYPE	PRESERVATIVE
5141T01	Honouliuli Effluent	5/4/07	7:30	Grab	T Dieldrin Chlordane
5141T03	Honouliuli Effluent	5/4/07		Grab	T Dieldrin Chlordane
5141Z01	Honouliuli Effluent	5/4/07		Grab	Z Pesticides
5141Z02	Honouliuli Effluent	5/4/07		Grab	Z Pesticides Temp: 0°C

Relinquished by: <u>Reginald Gao</u>	Received by Sample Custodian: <u>Mary Mey</u>	Date/Time 05/04/07 0827
Relinquished by: <u>Mary Mey</u>	Received for: Toxics VIA ROOM 310 SAMPLE REGENERATOR	Date/Time 05/04/07 0829

Comp = Composite Sample Unit Codes: B = Aquatic Biology, C = General Chemistry, M = Microbiology, P = Pretreatment, T = Toxics, Z = Contracted Out