

Exhibit C

## DECLARATION OF KENNETH TENNO

I, Kenneth Tenno, declare as follows:

1. I am the Wastewater Laboratory Director for the City and County of Honolulu ("CCH") Department of Environmental Services, Water Quality Laboratory. In that capacity I supervised the preparation and transmittal of effluent samples to the CH2M Hill Applied Sciences Laboratory in Corvallis, Oregon ("ASL") during the period of April through December, 2007.
2. From April 24 through December 16, 2007, CCH conducted sampling of effluent from both the Honouliuli and Sand Island municipal wastewater treatment plants in support of a special split-sample study to analyze for the pesticides chlordane and dieldrin by two analytical methods at two separate laboratories.
3. During each sampling event, the collected samples were each split into two sets of separate containers for shipment, with one set shipped to ASL for gas chromatography/mass spectrometry analysis, and the other set delivered to CCH's Water Quality Laboratory for gas chromatography/electron capture detector analysis.
4. Samples from April through May 2007 (6 total sample events for each plant) were grab samples; subsequent samples (from August through December 2007), were 24-hour composite samples (14 sample events for Sand Island and 9 events for Honouliuli).
5. The chain-of-custody forms attached to this declaration serve to document the time and date for each sampling event, the sampler's name, and the name of those receiving the samples prior to analysis by each laboratory. Because each laboratory has its own chain-of-custody form, by comparing each laboratory's form for

each sampling date, it can easily be documented that the samples shipped, received, and analyzed were in fact the split samples collected on a given date.

6. Also provided with this declaration are the analytical data sheets from the CCH Water Quality Laboratory, documenting that the samples analyzed by GC/ECD are the same as those shipped to ASL, as recorded on the chain-of-custody forms. These data sheets provide the detected concentrations, method detection limits, and other relevant quality assurance information for each sample analyzed.

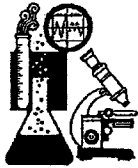
7. For example, the first page of the Attachment is CCH's chain-of-custody form dated December 17, 2007, reflecting a composite sample taken between December 16 and 17, 2007. The sample was split into three containers: nos. 5304T01, 5304Z01, 5304Z02. The first sample container was delivered to the CCH Water Quality Laboratory for analysis. Sample containers 5304Z01 and 5304Z02 were shipped by FedEx to ASL, as evidenced by the second page of the Attachment.

8. The second page of the Attachment is the ASL chain-of-custody form, reflecting the identical sample container nos. 5304Z01 and 5304Z02.

9. The third page of the Attachment is the analytical data from the CCH Water Quality Laboratory for this sample. The corresponding sample date and sample container no. 5304T01 are reflected in this document.

I, Kenneth Tenno, declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct. Executed on March 6, 2009 in Honolulu, Hawaii.

  
\_\_\_\_\_  
Kenneth Tenno



# 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

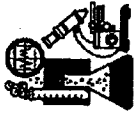
Login Date is: Monday, December 17, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: *Glenthall*

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE		START TIME		UNIT ANALYSES	
		END DATE	END DATE	END TIME	END TIME		TYPE PRESERVATIVE
5304T01	Sand Island Effluent	12/16/07	12/17/07	0650	0645	Comp T Special Study-Pestici <i>Temp. = 1.0°C</i> <i>12/17/07</i>	
5304Z01	Sand Island Effluent	12/16/07	12/17/07			Comp Z Special Study-Pestici	
5304Z02	Sand Island Effluent	12/16/07	12/17/07			Comp Z Special Study-Pestici	
Relinquished by: <i>Glenthall</i>		Received by Sample Custodian: <i>My My</i>				Date/Time: 12-17-07 0710	
Relinquished by: <i>My My</i>		Received for: Toxics <i>Glenthall</i>				Date/Time: 12/17/07 0723	

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) 947-8360

## EPA 608 Organochlorine Pesticides/PCBs Analytical Report

Sampling Site: Sand Island (S)  
Sampling Dates: 12/16/07-12/17/07

Extraction Date: 12/17/2007  
Completion Date: 12/20/2007

Toxics Log Numbers:

Analyte	MDL ug/L	ML ug/L	5304T01		5304T01		LCS %R	Method %R Range
			Effluent (S11A) ug/L	Effluent (S11B) ug/L	Effluent MS(S11S) %R	Effluent MS(S11S) %R		
Chlordane	0.020	0.100	0.119	0.104	65%	65%	74%	45% - 119%
Dieldrin	0.004	0.009	0.064	0.067	131%	131%	86%	36% - 146%
DDT	0.002	0.009	ND	ND	70%	70%	80%	26% - 160%

Surrogates

TMX %R	79%	65%	72%	77%	80% - 150%*
DCB %R	65%	59%	71%	76%	60% - 150%*

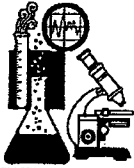
\*Advisory QC %R Range

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

Note: No Honolulu Effluent Composite sample was collected.

*Richard S. Zahayman* 1/11/08  
Analyst

*Raymond Jones* 1/11/08  
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: Monday, December 03, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: Reginald Gw

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE		START TIME		UNIT ANALYSES
		END DATE	END DATE	END TIME	END TIME	
				TYPE	PRESERVATIVE	
5300T01	Sand Island Influent	12/2/07 12/3/07	12/2/07 12/3/07	7:15 7:15	7:15 7:15	Comp T Chlordane, Dieldrin
5301T01	Sand Island Effluent	12/2/07 12/3/07	12/2/07 12/3/07	7:10 7:07	7:10 7:07	Comp T Chlordane, Dieldrin
5301T02	Sand Island Effluent	12/2/07 12/3/07	12/2/07 12/3/07	↓	↓	Comp T Chlordane, Dieldrin
5301Z01	Sand Island Effluent	12/2/07 12/3/07	12/2/07 12/3/07	↓	↓	Comp Z Special Study-Pestic
5301Z02	Sand Island Effluent	12/2/07 12/3/07	12/2/07 12/3/07	↓	↓	Comp Z Special Study-Pestic
Relinquished by: <u>R. Gw</u>		Received by Sample Custodian: <u>[Signature]</u>			Date/Time 12/3/07 0750hr	
Relinquished by: <u>[Signature]</u>		Received for: Toxics: Rm 310 Refrig			Date/Time 12/3/07 0755hr	

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**

C/O 2300 NW Walnut Boulevard  
 Corvallis, OR 97331-3636  
 (541) 752-4271 FAX (541) 752-0276

COC #

Project #		334222.01.12		Purchase Order #				THIS AREA FOR LAB USE ONLY	
Project Name		CCH Special Study		Requested Analytical Method #				Lab #	
Company Name		City & County of Honolulu		Preservative				Page	
Project Manager or Contact & Phone #		Report Copy to:		TOTAL # OF CONTAINERS				of	
Dennis Shelton Kuo				1					
Requested Completion Date:		Site ID		Sample Disposal:				EPA Tier QC Level	
				Dispose <input type="checkbox"/>				1 (Screening) 2 3 4	
				Return <input type="checkbox"/>				Alternate Description	
				LAB QC				Lab ID	
Type		Matrix		CLIENT SAMPLE ID					
GRAVEL		WATER		(9 CHARACTERS)					
COMB		SOIL							
Date		Time		Date/Time		Received By		Date/Time	
12/17/07		7:07		5301201		Retained By		12/31/07 7:50 AM	
12/17/07				5301202		Retained By		12/31/07 09:30 AM	
				Sand Island Affluent Composite					
Relinquished By		Date/Time		Received By		Date/Time			
Retained By		12/17/07		Retained By		12/31/07			
Retained By		12/17/07		Retained By		12/31/07			
Retained By		12/17/07		Retained By		12/31/07			
Special Instructions:		8613 5063 5383		Shipping #					
				Shipping #					

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# WATER QUALITY LABORATORY

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

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

Sampling Site: Sand Island  
Sampling Date: 12/2/07 - 12/3/07  
Extraction Date: 12/3/07  
Completion Date: 12/7/07

Equipment: HP 5890GC

Analyte	5300T01		5301T01			Blank ug/L	Effluent MS %R	Effluent MSD %R	RPD	LCS %R	Method %R Range
	MDL ug/L	ML ug/L	Influent ug/L	Effluent ug/L	Effluent Duplicate ug/L						
Chlordane	0.022	0.100	0.238	0.151	0.145	ND	71%	70%	0%	51%	45% - 119%
Dieldrin	0.002	0.009	0.104	0.058	0.061	ND	82%	56%	28%	77%	35% - 146%
Surrogates											
TMX %R			78%	76%	75%	81%	75%	76%		78%	80% - 150%*
DCB %R			75%	74%	73%	81%	68%	74%		85%	60% - 150%*

\*Advisory QC %R Range

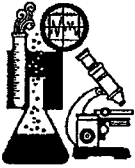
J - qualifier flag for estimate--result is between the MDL and ML  
ND - not detected at or above the MDL

*Richard S. Keegan* 12/19/07  
Analyst

*Reginald Brown* 12/19/07  
Supervisor

Cd120207.xls Printed: 12/19/07

00005



# 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) 847-8360

Login Date is: Monday, November 26, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: *Reginald Kw Mathford*

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE		START TIME		TYPE	UNIT ANALYSES	
		END DATE	END DATE	END TIME	END TIME		PRESERVATIVE	
5297T01	Sand Island Effluent	11/25/07	11/26/07	7:10	7:05	Comp	T	Special Study-Pestici Temp: 54.6°C 075 11/26/07
5297Z01	Sand Island Effluent	11/25/07	11/26/07			Comp	Z	Special Study-Pestici
5297Z02	Sand Island Effluent	11/25/07	11/26/07			Comp	Z	Special Study-Pestici

Relinquished by: <i>Reginald Kw</i>	Received by Sample Custodian: <i>Mary Murray</i>	Date/Time: 11/26/07 0719
Relinquished by: <i>Mary Murray</i>	Received for: <i>[Signature]</i>	Date/Time: 11/26/07 0733

Comp = Composite Sample Unit Code: 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 2200 NW Walnut Boulevard  
 Corvallis, OR 97330-3638  
 (541) 752-4271 FAX (541) 752-0276

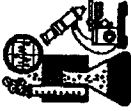
COC #

THIS AREA FOR LAB USE ONLY

Project # 334222.01.12		Purchase Order #		Requested Analytical Method #		Lab #		Page		of	
Project Name CCH Special Study		Company Name City & County of Honolulu		Project Manager or Contact & Phone # Dennis Shelton/CVO		Requested Completion Date: Site ID		Sample Disposal: Dispose <input type="checkbox"/> Return <input type="checkbox"/>		EPA Tier QC Level 1 (Screening) 2 3 4	
Requested Analytical Method #		Preservative		Alternate Description		Lab ID					
TOTAL # OF CONTAINERS		Pesticides		AOC							
Type		Matrix		CLIENT SAMPLE ID (9 CHARACTERS)		LAB QC		Date/Time		Received By	
C O M P		W A T E R		5 2 9 7 2 0 1		T6		11/26/07 7:01		Relinquished By Reginald Neal	
G R A B		S A I L		5 2 9 7 2 0 2		T6		11/26/07 7:02		Date/Time	
S A M P L I N G		D A T E		Sand Island Effluent Composite						Relinquished By Reginald Neal	
Date		Time								Date/Time	
11/26/07		7:01								11/26/07 7:01	
7:02										11/26/07 7:02	
11/26/07										11/26/07 7:03	
Relinquished By		Date/Time		Received By		Date/Time		Relinquished By		Date/Time	
Reginald Neal		11/26/07		Reginald Neal		11/26/07 6:00		Reginald Neal		11/26/07 7:01	
Received By		Date/Time		Relinquished By		Date/Time		Relinquished By		Date/Time	
Reginald Neal		11/26/07 7:01		Reginald Neal		11/26/07 6:00		Reginald Neal		11/26/07 7:03	
Received By		Date/Time		Relinquished By		Date/Time		Relinquished By		Date/Time	
Reginald Neal		11/26/07 7:03		Reginald Neal		11/26/07 6:00		Reginald Neal		11/26/07 7:03	
Special Instructions:		Shipping #		8613 5063 545 3							

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# 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) 847-4350

## EPA 608 Organochlorine Pesticides/PCBs Analytical Report

Sampling Site: Honolulu (H) & Sand Island (S)  
Sampling Dates: 11/25/07-11/26/07

Extraction Date: 11/26/2007  
Completion Date: 11/29/2007

Toxics Log Numbers:

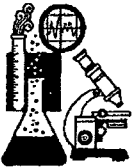
Analyte	MDL ug/L	ML ug/L	5287T01		5287T01		LCS %R	Method %R Range
			Effluent (S10A) ug/L	Effluent (S10B) ug/L	Effluent MS(S10S) %R	Effluent MS(S10S) %R		
Chlordane	0.020	0.100	0.069 J	0.066 J	58%	75%	45% - 118%	
Dieldrin	0.004	0.009	0.019	0.020	108%	86%	36% - 148%	
DOT	0.002	0.006	ND	ND	47%	63%	25% - 160%	
Surrogates								
TMX %R			66%	65%	66%	76%	60% - 150%*	
DCB %R			48%	45%	51%	55%	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  
Note: No Honolulu Effluent Composite sample was collected.

*Richard S. Toloyama* 1/11/08  
Analyst

*Raymond* 1/11/08  
Supervisor






# WATER QUALITY LABORATORY

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

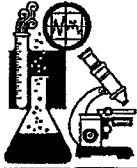
1350 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-8360

Login Date is: Wednesday, November 14, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: Nicole Fortin

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE	START TIME	UNIT ANALYSES	
		END DATE	END TIME	TYPE	PRESERVATIVE
5294T01	Honouliuli Effluent	11/13/07 11/14/07	0910 0807	Comp	T Special Study-Pestici 
5294Z01	Honouliuli Effluent	11/13/07 11/14/07	0910 0807	Comp	Z Special Study-Pestici 
5294Z02	Honouliuli Effluent	11/13/07 11/14/07	0910 0807	Comp	Z Special Study-Pestici 
Relinquished by: <u>Nicole Fortin</u>		Received by Sample Custodian: <u>[Signature]</u>		Date/Time: <u>11/14/07 0952</u>	
Relinquished by: <u>[Signature]</u>		Received for: <u>[Signature]</u>		Date/Time: <u>11/14/07 1012</u>	

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) 847-8360

Login Date is: Wednesday, November 14, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: Reginald Gw

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE	START TIME	UNIT ANALYSES
		END DATE	END TIME	
5295T01	Sand Island Effluent	11/13/07 11/14/07	7:10 7:05	Comp T Special Study-Pestici TEMP = 5.8°C 11/14/07
5295Z01	Sand Island Effluent	11/13/07 11/14/07	↓	Comp Z Special Study-Pestici
5295Z02	Sand Island Effluent	11/13/07 11/14/07	↓	Comp Z Special Study-Pestici

Relinquished by: <u>Reginald Gw</u>	Received by Sample Custodian: <u>[Signature]</u>	Date/Time 11/14/07 0730
Relinquished by: <u>[Signature]</u>	Received for: Toxics <u>[Signature]</u>	Date/Time 11/14/07 0735

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

Project # <b>334222.01.12</b>		Purchase Order #		Requested Analytical Method #		THIS AREA FOR LAB USE ONLY	
Project Name <b>CCH Special Study</b>		Company Name <b>City &amp; County of Honolulu</b>		Project Manager or Contact & Phone # <b>Dennis Shelton / CVO</b>		Lab #	
Requested Completion Date: Site ID		Sample Disposal: Dispose <input type="checkbox"/> Return <input type="checkbox"/>		Preservative		EPA Tier QC Level	
Type		Matrix		CLIENT SAMPLE ID (9 CHARACTERS)		LAB QC	
COMPOSITE		SOLID		5294Z01		1 (Screening) 2 3 4	
Date		Time		Date		Lab ID	
11/13/07		8:07		11/14/07		APC	
11/14/07		7:00		11/14/07		APC	
Date		Time		Date		Time	
11/14/07		8:07		11/14/07		8:50	
Relinquished By		Date/Time		Relinquished By		Date/Time	
Nigel Fortin		11/14/07 8:57		Nigel Fortin		11/14/07 8:50	
Received By		Date/Time		Received By		Date/Time	
Mey Nix		11/14/07 8:57		BRENEN BRENENS		11/14/07 10:12	
Received By		Date/Time		Shipped Via		Shipping #	
Reginald Go		11/14/07 10:12		UPS		8613 5063 5361	
Special Instructions:		Date/Time		Date/Time		Date/Time	
TOTAL # OF CONTAINERS		Relinquished By		Relinquished By		Date/Time	
1		Mey Nix		Nigel Fortin		11/14/07 8:50	
1		Mey Nix		BRENEN BRENENS		11/14/07 10:12	

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

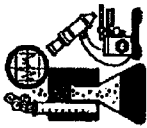
C/O 2300 NW Wetland Boulevard  
 Corvallis, OR 97330-3838  
 (541) 752-4271 FAX (541) 752-0276

COC # \_\_\_\_\_ THIS AREA FOR LAB USE ONLY

Project # <b>234222.01.12</b>		Purchase Order #		Requested Analytical Method #		Lab #		Page		of	
Project Name <b>CCH Special Study</b>		Company Name <b>City &amp; County of Honolulu</b>		Preservative		EPA Tier QC Level		1 (Screening) 2 3 4		Lab ID	
Project Manager or Contact & Phone # <b>Dennis Shelton/cvo</b>		Report Copy to:		Sample Disposal: Dispose <input type="checkbox"/> Return <input type="checkbox"/>		TOTAL # OF CONTAINERS		AOC		Alternate Description	
Requested Completion Date: Site ID		CLIENT SAMPLE ID (9 CHARACTERS)		LAB QC		Date		Time		Date/Time	
Type C O M P O S I T E		Matrix W A T E R		5 2 9 5 2 0 1		✓		7:05		11/10/07	
5 2 9 5 2 0 2		✓		SAND ISLAND EFFLUENT COMPOSITE		✓				11/10/07	
Relinquished By		Date/Time		Received By		Date/Time		Relinquished By		Date/Time	
Reginald Ann REGINALD Goo		11/10/07 7:00		Reginald Ann REGINALD Goo		11/10/07 7:00		Reginald Ann REGINALD Goo		11/10/07 7:00	
Mig Nix		11/10/07 7:00		Mig Nix		11/10/07 7:00		Mig Nix		11/10/07 7:00	
Reginald Ann REGINALD Goo		11/10/07 7:00		Reginald Ann REGINALD Goo		11/10/07 7:00		Reginald Ann REGINALD Goo		11/10/07 7:00	
Special Instructions:		Shipping #		8613 5063 5361		Other					

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# 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: Honolulu (H) & Sand Island (S)  
 Sampling Dates: 11/13-14/07

Extraction Date: 11/14/07  
 Completion Date: 11/21/07

Toxics Log Numbers:

Analyte	MDL ug/L	ML ug/L	Equipment: HP 5890GC			Blank ug/L	Effluent MS(H9S) %R	Effluent MS(S9S) %R	LCS %R	Method %R Range
			5294 Effluent (H9A) ug/L	5295 Effluent (H9B) ug/L	5295 Effluent (S9A) ug/L					
Chlordane	0.022	0.100	0.099 J	0.100	0.074 J	0.060 J	96%	104%	91%	45% - 119%
Dieldrin	0.002	0.008	0.020	0.012	0.014	0.026	80%	67%	77%	36% - 146%
4,4'-DDT	0.003	0.008	ND	ND	ND	ND	63%	50%	48%	25% - 160%

**Surrogates**

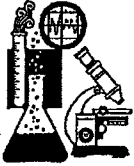
TMX %R	76%	57%	75%	58%	79%	73%	60%	60% - 150%*
DCB %R	60%	42%	64%	48%	70%	63%	53%	60% - 150%*

\*Advisory QC %R Range

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

*Pauline S. Valenzuela* 11/21/07  
 Analyst

*Reshmi Patel* 11/21/07  
 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: Friday, November 02, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: Residual Pool

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE		START TIME		UNIT ANALYSES	PRESERVATIVE
		END DATE	END DATE	END TIME	END TIME		
5292T01	Sand Island Influent	11/1/07 11/2/07	11/1/07 11/2/07	7:27 7:27	7:27 7:27	Comp T Dieldrin Chlordane Temp = 4.8°C	u10207 0801
5293T01	Sand Island Effluent	11/1/07 11/2/07	11/1/07 11/2/07	7:19 7:15	7:19 7:15	Comp T Dieldrin Chlordane	u10207 0801
5293T02	Sand Island Effluent	11/1/07 11/2/07	11/1/07 11/2/07			Comp T Dieldrin Chlordane	u10207 0801
5293Z01	Sand Island Effluent	11/1/07 11/2/07	11/1/07 11/2/07			Comp Z Special Study-Pestici	u10207 0801
5293Z02	Sand Island Effluent	11/1/07 11/2/07	11/1/07 11/2/07			Comp Z Special Study-Pestici	u10207 0801
Relinquished by: <u>Residual Pool</u>		Received by Sample Custodian: <u>Mary Mey</u>				Date/Time: <u>u10207 0801</u>	
Relinquished by: <u>Mary Mey</u>		Received by: <u>[Signature]</u>				Date/Time: <u>u10207 0806</u>	

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

Sampling Site: Sand Island  
 Sampling Date: 11/1/07 - 11/2/07  
 Extraction Date: 11/2/07  
 Completion Date: 11/9/07  
 Toxics Log Numbers:

Equipment: HP 6890GC

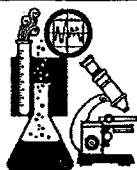
Analyte	5292T01		5293T02		Blank ug/L	Effluent MS %R	Effluent MSD %R	RPD	LCS %R	Method %R Range
	MDL ug/L	ML ug/L	Influent ug/L	Effluent ug/L						
Chlordane	0.020	0.100	0.136	0.097 J	0.088 J	ND	64%	71%	8%	83% 45% - 119%
Dieldrin	0.004	0.009	0.076	0.022	0.023	ND	141%	113%	20%	85% 36% - 146%
Surrogates										
TMX %R			75%	79%	82%	82%	79%	81%		88% 60% - 150*
DCB %R			61%	60%	63%	81%	63%	64%		82% 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 J. Takayama 11/19/07*  
 Analyst

*Reginald Brown 11/21/07*  
 Supervisor



# WATER QUALITY LABORATORY

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

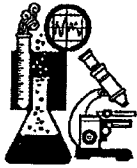
1350 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-8360

Login Date is: Monday, October 29, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: A. Mays

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE END DATE	START TIME END TIME	TYPE	UNIT ANALYSES	
					PRESERVATIVE	
5271T01	Honouliuli Effluent	10/28/07 10/29/07	<i>DAS</i> <i>0653</i>	Comp	T	Pesticides Special St TEMP: 24°C 10/29/07
<del>5271T02</del>	<del>Honouliuli Effluent</del>	<del>10/28/07 10/29/07</del>		<del>Comp</del>	<del>T</del>	<del>Pesticides Special St</del>
<del>5271T03</del>	<del>Honouliuli Effluent</del>	<del>10/28/07 10/29/07</del>		<del>Comp</del>	<del>T</del>	<del>Pesticides Special St</del>
<del>5271T04</del>	<del>Honouliuli Effluent</del>	<del>10/28/07 10/29/07</del>		<del>Comp</del>		<del>Pesticides Special St</del>
5271Z01	Honouliuli Effluent	10/28/07 10/29/07	<i>DAS</i> <i>0653</i>	Comp	Z	Pesticides Special St
5271Z02	Honouliuli Effluent	10/28/07 10/29/07	<i>DAS</i> <i>0653</i>	Comp	Z	Pesticides Special St
Relinquished by: <i>[Signature]</i>		Received by Sample Custodian: <i>[Signature]</i>			Date/Time: 10/29/07 1016	
Relinquished by: <i>[Signature]</i>		Received for: <i>[Signature]</i>			Date/Time: 10/29/07 1026	

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, October 29, 2007

PRIORITY POLLUTANT SAMPLING

SAMPLER: Reginald Gao

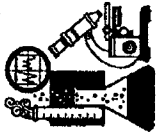
SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE	START TIME	UNIT ANALYSES
		END DATE	END TIME	
		TYPE PRESERVATIVE		
5270T01	Sand Island Effluent	10/28/07 10/29/07	7:12 7:08	Comp T Pesticides Special St 
<del>5270T02</del>	<del>Sand Island Effluent</del>	<del>10/28/07 10/29/07</del>	<del></del>	<del>Comp T Pesticides Special St </del>
<del>5270T03</del>	<del>Sand Island Effluent</del>	<del>10/28/07 10/29/07</del>	<del></del>	<del>Comp T Pesticides Special St </del>
<del>5270T04</del>	<del>Sand Island Effluent</del>	<del>10/28/07 10/29/07</del>	<del></del>	<del>Comp T Pesticides Special St </del>
5270Z01	Sand Island Effluent	10/28/07 10/29/07	7:12 7:08	Comp Z Pesticides Special St  TEMP. = 5.8°C @ 10/29/07
5270Z02	Sand Island Effluent	10/28/07 10/29/07	↓	Comp Z Pesticides Special St 
Relinquished by: <u>Reginald Gao</u>		Received by Sample Custodian: <u>Mary Muey</u>		Date/Time: 10/29/07 0132
Relinquished by: <u>Mary Muey</u>		Received for: Toxics: <u>VIA ROOM 310</u> <u>SAMPLE REFRIGERATOR</u>		Date/Time: 10/29/07 0139

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: Honolulu (H) & Sand Island (S)  
 Sampling Dates: 10/28-29/07

Extraction Date: 10/29/2007  
 Completion Date: 11/4/2007

Toxics Log Numbers:

Analyte	MDL ug/L	ML ug/L	Equipment: HP 5890GC				Blank ug/L	Effluent (S8B) ug/L	Effluent (H8B) ug/L	Effluent (S8A) ug/L	Effluent (H8A) ug/L	Effluent MS(H8S) %R	Effluent MS(S8S) %R	LCS %R	Method %R Range
			5271	5271	5270	5270									
Chlordane	0.022	0.100	0.080 J	ND	0.061 J	ND	0.065 J	ND	58%	58%	74%	94%	45% - 119%		
Dieldrin	0.002	0.009	0.011	0.012	0.023	ND	0.023	ND	82%	82%	89%	76%	36% - 146%		
4,4'-DDT	0.003	0.009	ND	ND	ND	ND	ND	ND	56%	56%	61%	69%	25% - 160%		

**Surrogates**

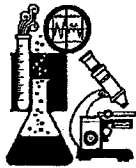
TMX %R	76%	79%	86%	77%	80%	100%	84%	60% - 150%*
DCB %R	54%	57%	70%	64%	65%	88%	76%	60% - 150%*

\*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. Velazquez 11/29/07*  
 Analyst

*Reginald Pao 11/29/07*  
 Supervisor



# WATER QUALITY LABORATORY

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

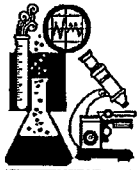
1550 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-3360

Login Date is: **Monday, October 15, 2007**

PRIORITY POLLUTANT SAMPLING SAMPLER: A. KAWADA

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE		START TIME		UNIT ANALYSES	
		END DATE	END DATE	END TIME	END TIME		TYPE PRESERVATIVE
5269T01	Honouliuli Effluent	10/14/07	10/15/07	6:09	07:00	Comp T Pesticides Special St <i>Temp = 24.1°C no residue</i>	
<del>5269T02</del>	<del>Honouliuli Effluent</del>	<del>10/14/07</del>	<del>10/15/07</del>			<del>Comp T Pesticides Special St</del>	
<del>5269T03</del>	<del>Honouliuli Effluent</del>	<del>10/14/07</del>	<del>10/15/07</del>			<del>Comp T Pesticides Special St</del>	
<del>5269T04</del>	<del>Honouliuli Effluent</del>	<del>10/14/07</del>	<del>10/15/07</del>			<del>Comp T Pesticides Special St</del>	
5269Z01	Honouliuli Effluent	10/14/07	10/15/07	6:29	07:00	Comp Z Pesticides Special St	
5269Z02	Honouliuli Effluent	10/14/07	10/15/07	6:20	07:00	Comp Z Pesticides Special St	
Relinquished by: <i>Cheryl Hamel</i>		Received by Sample Custodian: <i>Mary Mary</i>				Date/Time: 10/15/07 10:01	
Relinquished by: <i>Mary Mary</i>		Received for: Toxics: <i>Reynolds</i>				Date/Time: 10/15/07 10:52	

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

1330 Sand Island Parkway, Bld #9 Honolulu, Hawaii 96819 (808) 847-8360

Login Date is: Monday, October 15, 2007

PRIORITY POLLUTANT SAMPLING SAMPLER: Raymond Go

SAMPLE NUMBER	SAMPLE DESCRIPTION	START DATE	START TIME	UNIT ANALYSES	PRESERVATIVE
		END DATE	END TIME		
5268T01	Sand Island Effluent	10/14/07 10/15/07	7:08 7:10	Comp T Pesticides Special St Temp = 7.2°C	10/15/07
5268T02	Sand Island Effluent	10/14/07 10/15/07		Comp T Pesticides Special St	
5268T03	Sand Island Effluent	10/14/07 10/15/07		Comp T Pesticides Special St	
5268T04	Sand Island Effluent	10/14/07 10/15/07		Comp T Pesticides Special St	
5268Z01	Sand Island Effluent	10/14/07 10/15/07	7:08 7:10	Comp Z Pesticides Special St	
5268Z02	Sand Island Effluent	10/14/07 10/15/07	↓	Comp Z Pesticides Special St	
Relinquished by: <u>Raymond Go</u>		Received by Sample Custodian: <u>Mung Mung</u>		Date/Time: 10/15/07 0729	
Relinquished by: <u>Mung Mung</u>		Received for: <u>Toxic</u>		Date/Time: 10/15/07 0741	

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