Environmental Services Network

January 15, 2015

Jingbo Chang
Pacific Commercial Services, LLC
PO Box 235117
Honolulu, HI 96823

SUBJECT: DATA REPORT – 300099-02, Kapalama Military Reservation, 5 Sand Island Access Road, Honolulu, HI

ESN Project # D1501070004

Mr. Chang:

Please find enclosed a data report for the samples analyzed from the above referenced project for Pacific Commercial Services, LLC. The samples were received intact. Applicable detection limits, QA/QC data, and any issues encountered during analysis are included in the report.

The following tests were conducted:

- Analyses for polychlorinated biphenyls by EPA 8082 mod.

ESN appreciates the opportunity to have provided analytical services to Pacific Commercial Services, LLC on this project. If you have any further questions relating to the data or report, please do not hesitate to contact us.

Sincerely,

Karen Carvallo

Karen Carvallo
Operations Manager

ESN Pacific
2020-B Kahai Street
Honolulu, HI 96819

Ph: (808) 847-0067
esn@esnpacific.com

ESN PACIFIC'S CHAIN-OF-CUSTODY RECORD

CLIENT: PACIFIC COMMERCIAL SERVICES LLC

ADDRESS: PO BOX 235117, HONOLULU, HI 96823

PHONE: 808-545-4599 FAX: 808-845-9773

EMAIL: Jingbo.chang@pcshi.com

CLIENT PROJECT #: 300099-02 Project Manager: Jingbo Chang

TAT (circle one): 24-hr. 48-hr. (5-day) or Other:_____

DATE: 1/7 /15 PAGE ___1____ OF _ 2

ESN PROJECT #: D150107004

LOCATION/PROJECT NAME: Kapalama Military Reservation, 5 Sand Island Access Rd, Honolulu, HI

COLLECTOR: DATE COLLECTED: 1/7/2015

	Sample ID#	Depth	Time	Sample Type	Container Type	8260 HVOC ext 5035? Y N	8260 VOC ext 5035? Y N	8260 BTEX ext 5035? Y N	8260 MtBE ext 5035? Y N	8015 Fuel Scan only	8015 TPH-Gas ext 5035?	8015 TPH-Diesel	8015 TPH-Oil	8081 Chlor. Pesticides	8082 PCB	8270 PAH DOH-4	Reactivity	Corrosivity	1010 FlashPoint (Ignitibility)	RCRA 8 Metals	Dissovled RCRA 8 Metals	TCLP As, Cd, Cr, Pb	TCLP pesticides	TCLP Herbicides	TCLP VOC	TCLP SVOCs	Comments	# of Containers
1	KMR-T-01			Grab	Glass										X												SN:00A053059	1
2	KMR-T-02			Grab	Glass										X												SN:71AD3951	1
3	KMR-T-03			Grab	Glass										X												SN:98A450193	1
4	KMR-T-04			Grab	Glass										X												SN:71AD4802	1
5	KMR-T-05			Grab	Glass										X												SN:71AB11062	1
6	KMR-T-06			Grab	Glass										X												SN:67692YJTA	1
7	KMR-T-07			Grab	Glass										X												SN:82A420317	1
8	KMR-T-08			Grab	Glass										X												SN:72AF77612	1
9	KMR-T-09			Grab	Glass										X												SN:1860185	1
10	KMR-T-10			Grab	Glass										X												SN:02A082357	1
11	KMR-T-11			Grab	Glass										X												SN:94A173134	1
12	KMR-T-12			Grab	Glass										X												SN:82A411429	1
13	KMR-T-13			Grab	Glass										X												SN:02A082356	1
14	KMR-T-14			Grab	Glass										X												SN:97A502749	1
15	KMR-T-15			Grab	Glass										X												SN:94A173135	1
16	KMR-T-16			Grab	Glass										X												SN:0440106-YZJ	1
17	KMR-T-17			Grab	Glass										X												SN:4930151	1
18	KMR-T-18			Grab	Glass										X												SN:E248236-59K	1
19	KMR-T-19			Grab	Glass										X												SN:94A173133	1
20	KMR-T-20			Grab	Glass										X												SN:96A422634	1

RELINQUISHED BY:(Signature) DATE/TIME: 1/7/15 1500

RECIEVED BY (Signature) DATE/TIME: 1-7-15 1500

RELINQUISHED BY:(Signature) DATE/TIME

RECIEVED BY (Signature) DATE/TIME

SAMPLE RECEIPT:

TOTAL # OF CONTAINERS 32

COC SEALS Y / N / NA

SEALS INTACT Y / N / NA

RECEIVED TEMP: 25°C

LABORATORY NOTES:

SAMPLE DISPOSAL INSTRUCTIONS: X ESN @ $5.00/sample or ____ Return to Client

ESN PACIFIC'S CHAIN-OF-CUSTODY RECORD

CLIENT: PACIFIC COMMERCIAL SERVICES LLC

ADDRESS: PO BOX 235117, HONOLULU, HI 96823

PHONE: 808-545-4599 FAX: 808-845-9773

EMAIL: Jingbo.chang@pcshi.com

CLIENT PROJECT #: 300099-02 Project Manager: Jingbo Chang

TAT (circle one): 24-hr. 48-hr. (5-day) or Other:_____

DATE: 1/7 /15 PAGE 2 OF 2

ESN PROJECT #: D150107004

LOCATION/PROJECT NAME: Kapalama Military Reservation, 5 Sand Island Access Rd, Honolulu, HI

COLLECTOR: DATE COLLECTED: 1/7/2015

	Sample ID#	Depth	Time	Sample Type	Container Type	8260 HVOC ext 5035? Y N	8260 VOC ext 5035? Y N	8260 BTEX ext 5035? Y N	8260 MtBE ext 5035? Y N	8015 Fuel Scan only	8015 TPH-Gas ext 5035?	8015 TPH-Diesel	8015 TPH-Oil	8081 Chlor. Pesticides	8082 PCB	8270 PAH DOH-4	Reactivity	Corrosivity	1010 FlashPoint (Ignitibility)	RCRA 8 Metals	Dissovled RCRA 8 Metals	TCLP As, Cd, Cr, Pb	TCLP pesticides	TCLP Herbicides	TCLP VOC	TCLP SVOCs	Comments	# of Containers
1	KMR-T-21			Grab	Glass										X												SN:1860183	1
2	KMR-T-22			Grab	Glass										X												SN:1860134	1
3	KMR-T-23			Grab	Glass										X												SN:72AF17611	1
4	KMR-T-24			Grab	Glass										X												SN:96A452021	1
5	KMR-T-25			Grab	Glass										X												SN:861029020	1
6	KMR-T-26			Grab	Glass										X												SN:861031590	1
7	KMR-T-27			Grab	Glass										X												SN:02A082358	1
8	KMR-T-28			Grab	Glass										X												SN:72AB14268	1
9	KMR-T-29			Grab	Glass										X												SN:84F1227	
10	KMR-T-30			Grab	Glass										X												SN:84F1228	
11	KMR-T-31			Grab	Glass										X												SN:984F1284	
12	KMR-T-32			Grab	Glass										X												None found	
13																												
14																												
15																												
16																												
17																												
18																												
19																												
20																												

RELINQUISHED BY:(Signature) DATE/TIME
[signature] 1/7/15 1500

RECIEVED BY (Signature) DATE/TIME
[signature] 1-7-15 1500

RELINQUISHED BY:(Signature) DATE/TIME

RECIEVED BY (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS: X ESN @ $5.00/sample or ____ Return to Client

SAMPLE RECEIPT:

TOTAL # OF CONTAINERS 32

COC SEALS Y / N / NA

SEALS INTACT Y / N / NA

RECEIVED TEMP: 2502

LABORATORY NOTES:

Environmental Services Network

ESN Pacific Inc.

PCS - Pacific Commercial Services PROJECT #300099-02
Kapalama Military Reservation, 5 Sand Island Access Road, Honolulu, HI

ESN Project #D1501070004

PCB ANALYSES OF OILS BY EPA 8082 MODIFIED

SAMPLE NUMBER	DATE EXTRACTED	DATE ANALYZED	PCB-1016 (mg/kg)	PCB-1221 (mg/kg)	PCB-1232 (mg/kg)	PCB-1242 (mg/kg)	PCB-1248 (mg/kg)	PCB-1254 (mg/kg)	PCB-1260 (mg/kg)	SURROGATE RECOVERY(%)	FLAGS
Method Blank	1/8/2015	1/9/2015	nd	nd	nd	nd	nd	nd	nd	100%	
KMR-T-01	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	91%	
KMR-T-01 Dup	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	96%	
KMR-T-02	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	nd	135%	
KMR-T-03	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	102%	
KMR-T-04	1/8/2015	1/15/2015	5.49	nd	nd	nd	nd	nd	nd	119%	
KMR-T-04 Dup	1/8/2015	1/15/2015	6.30	nd	nd	nd	nd	nd	nd	104%	
KMR-T-05	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	nd	89%	
KMR-T-06	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	nd	91%	
KMR-T-07	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	99%	
KMR-T-08	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	nd	120%	
KMR-T-09	1/8/2015	1/16/2015	nd	nd	nd	nd	nd	nd	2.62	106%	
KMR-T-10	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	101%	
PQL			0.50	1.00	1.00	0.25	0.25	0.25	0.25		
MDL			0.25	0.75	0.50	0.20	0.10	0.20	0.20		

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (TCMX): 65% - 135%

QA/QC DATA - LABORATORY CONTROL SPIKE ANALYSES

Spike Added	5.00	5.00
Measured Conc.	4.28	4.40
% Recovery	85.6%	88.1%

QA/QC DATA - MATRIX SPIKE ANALYSES

Sample Name: KMR-T-04
*Any hits or matrix interference in sample spiked for MS/MSD are subtracted before reported as measured concentration.

Spike Added	5.00	5.00
Measured Conc.	4.47	5.31
% Recovery	89.4%	106.3%
Spike Added	5.00	5.00
Measured Conc.	4.02	5.31
% Recovery	80.3%	106.2%
RPD	10.7%	0.0%

% Recovery LIMITS: 80% TO 120%
RPD LIMIT: 20%

ANALYSES PERFORMED AND REVIEWED BY : K. Carvallo

2020 Kahai Street, Honolulu, Hawaii 96819

Environmental Services Network

ESN Pacific Inc.

PCS - Pacific Commercial Services PROJECT #300099-02
Kapalama Military Reservation, 5 Sand Island Access Road, Honolulu, HI

ESN Project #D150107000

PCB ANALYSES OF OILS BY EPA 8082 MODIFIED

SAMPLE NUMBER	DATE EXTRACTED	DATE ANALYZED	PCB-1016 (mg/kg)	PCB-1221 (mg/kg)	PCB-1232 (mg/kg)	PCB-1242 (mg/kg)	PCB-1248 (mg/kg)	PCB-1254 (mg/kg)	PCB-1260 (mg/kg)	SURROGATE RECOVERY(%)	FLAGS
Method Blank	1/8/2015	1/9/2015	nd	nd	nd	nd	nd	nd	nd	100%	
KMR-T-11	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	99%	
KMR-T-11 Dup	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	97%	
KMR-T-12	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	92%	
KMR-T-13	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	110%	
KMR-T-14	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	89%	
KMR-T-15	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	96%	
KMR-T-16	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	3.18	109%	
KMR-T-17	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	0.71	96%	
KMR-T-18	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	0.86	103%	
KMR-T-19	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	99%	
KMR-T-20	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	nd*	93%	*DF10 (1260 only)
KMR-T-21	1/8/2015	1/16/2015	nd	nd	nd	nd	nd	nd	nd	DO	DF10
KMR-T-21 Dup	1/8/2015	1/16/2015	nd	nd	nd	nd	nd	nd	nd	DO	DF10
PQL			0.50	1.00	1.00	0.25	0.25	0.25	0.25		
MDL			0.25	0.75	0.50	0.20	0.10	0.20	0.20		

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (TCMX): 65% - 135%

DF: Reported result calculated from dilution factor, multiply detection limit by dilution factor.
DO: Diluted out.

QA/QC DATA - LABORATORY CONTROL SPIKE ANALYSES

Spike Added	5.00	5.00
Measured Conc.	5.19	4.33
% Recovery	103.9%	86.6%

QA/QC DATA - MATRIX SPIKE ANALYSES

Sample Name: KMR-T-21
*Any hits or matrix interference in sample spiked for MS/MSD are subtracted before reported as measured concentration.

Spike Added	5.00	5.00
Measured Conc.	4.23	5.31
% Recovery	84.6%	106.1%
Spike Added	5.00	5.00
Measured Conc.	4.81	4.65
% Recovery	96.3%	92.9%
RPD	12.9%	13.2%

% Recovery LIMITS: 80% TO 120%
RPD LIMIT: 20%

ANALYSES PERFORMED AND REVIEWED BY : K. Carvallo

2020 Kahai Street, Honolulu, Hawaii 96819

Environmental Services Network

PCS - Pacific Commercial Services PROJECT #300099-02
Kapalama Military Reservation, 5 Sand Island Access Road, Honolulu, HI

ESN Project #D1501070004

PCB ANALYSES OF OILS BY EPA 8082 MODIFIED

SAMPLE NUMBER	DATE EXTRACTED	DATE ANALYZED	PCB-1016 (mg/kg)	PCB-1221 (mg/kg)	PCB-1232 (mg/kg)	PCB-1242 (mg/kg)	PCB-1248 (mg/kg)	PCB-1254 (mg/kg)	PCB-1260 (mg/kg)	SURROGATE RECOVERY(%)	FLAGS
Method Blank	1/8/2015	1/9/2015	nd	nd	nd	nd	nd	nd	nd	100%	
KMR-T-22	1/8/2015	1/16/2015	nd	nd	nd	nd	nd	nd	nd	DO	DF10
KMR-T-23	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	nd	113%	
KMR-T-24	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	nd*	124%	*DF10 (1260 only)
KMR-T-25	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	nd	127%	
KMR-T-26	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	nd	105%	
KMR-T-27	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	98%	
KMR-T-28	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	111%	
KMR-T-29	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	94%	
KMR-T-30	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	101%	
KMR-T-31	1/8/2015	1/15/2015	nd	nd	nd	nd	nd	nd	nd	103%	
KMR-T-32	1/8/2015	1/14/2015	nd	nd	nd	nd	nd	nd	nd	92%	
PQL			0.50	1.00	1.00	0.25	0.25	0.25	0.25		
MDL			0.25	0.75	0.50	0.20	0.10	0.20	0.20		

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (TCMX): 65% - 135%

DF: Reported result calculated from dilution factor, multiply detection limit by dilution factor.
DO: Diluted out.

QA/QC DATA - LABORATORY CONTROL SPIKE ANALYSES

Spike Added	5.00	5.00
Measured Conc.	4.85	4.66
% Recovery	96.9%	93.2%

% Recovery LIMITS: 80% TO 120%
RPD LIMIT: 20%

ANALYSES PERFORMED AND REVIEWED BY : K. Carvallo