

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-19
CLIENT SAMPLE ID	BLWA-9 2-6in	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/30/2018 11:50:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	61	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	160	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Acenaphthylene	EPA-8270 SIM	130	20	1	UG/KG	08/08/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Phenanthrene	EPA-8270 SIM	130	20	1	UG/KG	08/08/2018	PAB
Anthracene	EPA-8270 SIM	76	20	1	UG/KG	08/08/2018	PAB
Fluoranthene	EPA-8270 SIM	520	20	1	UG/KG	08/08/2018	PAB
Pyrene	EPA-8270 SIM	400	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	320	20	1	UG/KG	08/08/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	1200	20	1	UG/KG	08/08/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	610	20	1	UG/KG	08/08/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	800	20	1	UG/KG	08/08/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	200	20	1	UG/KG	08/08/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	950	20	1	UG/KG	08/08/2018	PAB
Mercury	EPA-7471	1.5	0.20	10	MG/KG	08/08/2018	RAL
Arsenic	EPA-6020	5.7	0.61	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	0.96	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	25	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	2900	2.0	10	MG/KG	08/09/2018	RAL
Lead	EPA-6020	310	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	690	21	10	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	81.7	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	91.0	08/08/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains light oil/lube oil.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-20
CLIENT SAMPLE ID	BLWA-9 2ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/30/2018 11:55:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Mercury	EPA-7471	0.048	0.020	1	MG/KG	08/08/2018	RAL
Arsenic	EPA-6020	3.3	0.61	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	18	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	49	0.20	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	11	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	92	2.1	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	82.9	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	94.7	08/08/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-21
CLIENT SAMPLE ID	BLWA-9 5ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/30/2018 12:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/16/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/16/2018	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	95.0	08/16/2018	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018
ALS JOB#: EV18080025
ALS SAMPLE#: EV18080025-22

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment
CLIENT SAMPLE ID: AST-1 2ft

DATE RECEIVED: 08/03/2018
COLLECTION DATE: 7/30/2018 9:35:00 AM
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	0.030	1	MG/KG	08/10/2018	JMK
Toluene	EPA-8021	U	0.050	1	MG/KG	08/10/2018	JMK
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	08/10/2018	JMK
Xylenes	EPA-8021	U	0.20	1	MG/KG	08/10/2018	JMK
TPH-Diesel Range	NWTPH-DX w/ SGA	8000	500	20	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	10000	1000	20	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	400	20	1	UG/KG	08/08/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	780	20	1	UG/KG	08/08/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Pyrene	EPA-8270 SIM	1300	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	460	20	1	UG/KG	08/08/2018	PAB
Mercury	EPA-7471	0.037	0.020	1	MG/KG	08/08/2018	RAL
Arsenic	EPA-6020	3.3	0.64	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.20	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	17	0.32	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	40	0.21	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	27	0.21	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	100	2.2	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	EPA-8021	93.0	08/10/2018	JMK
C25 20X Dilution	NWTPH-DX w/ SGA	104	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	105	08/08/2018	PAB

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-22
CLIENT SAMPLE ID	AST-1 2ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/30/2018 9:35:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered diesel and lube oil.
Diesel range product results biased high due to oil range product overlap.

DRAFT

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-23
CLIENT SAMPLE ID	Storm Sed.-1	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/30/2018 3:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury (TCLP)	EPA-7470/1311	U	0.00020	1	MG/L	08/13/2018	RAL
Arsenic (TCLP)	EPA-6020/1311	U	0.025	5	MG/L	08/10/2018	RAL
Barium (TCLP)	EPA-6020/1311	1.1	0.025	5	MG/L	08/10/2018	RAL
Cadmium (TCLP)	EPA-6020/1311	U	0.025	5	MG/L	08/10/2018	RAL
Chromium (TCLP)	EPA-6020/1311	U	0.025	5	MG/L	08/10/2018	RAL
Lead (TCLP)	EPA-6020/1311	0.36	0.025	5	MG/L	08/10/2018	RAL
Selenium (TCLP)	EPA-6020/1311	U	0.025	5	MG/L	08/10/2018	RAL
Silver (TCLP)	EPA-6020/1311	U	0.025	5	MG/L	08/10/2018	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-24

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment

DATE RECEIVED: 08/03/2018

COLLECTION DATE: 7/30/2018 1:10:00 PM

CLIENT SAMPLE ID MW-1 2-6in

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	2600	250	10	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	8200	500	10	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	29	20	1	UG/KG	08/08/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	80	20	1	UG/KG	08/08/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	27	20	1	UG/KG	08/08/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Fluoranthene	EPA-8270 SIM	120	20	1	UG/KG	08/08/2018	PAB
Pyrene	EPA-8270 SIM	210	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	120	20	1	UG/KG	08/08/2018	PAB
Mercury	EPA-7471	0.47	0.040	2	MG/KG	08/08/2018	RAL
Arsenic	EPA-6020	6.2	0.61	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	8.9	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	44	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	1700	2.0	10	MG/KG	08/09/2018	RAL
Lead	EPA-6020	410	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	1200	21	10	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25 10X Dilution	NWTPH-DX w/ SGA	159 SUR12	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	87.4	08/08/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

SUR12 -Surrogate recoveries were outside of the control limits due to matrix interference.

Chromatogram indicates that it is likely that sample contains light oil/lube oil.



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-25

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment

DATE RECEIVED: 08/03/2018

COLLECTION DATE: 7/30/2018 12:50:00 PM

CLIENT SAMPLE ID MW-1 12ft

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	32	3.0	1	MG/KG	08/09/2018	JMK
Benzene	EPA-8021	U	0.030	1	MG/KG	08/09/2018	JMK
Toluene	EPA-8021	U	0.050	1	MG/KG	08/09/2018	JMK
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	08/09/2018	JMK
Xylenes	EPA-8021	U	0.20	1	MG/KG	08/09/2018	JMK
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Mercury	EPA-7471	U	0.020	1	MG/KG	08/08/2018	RAL
Arsenic	EPA-6020	3.4	0.66	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.20	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	18	0.33	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	32	0.21	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	4.4	0.21	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	30	2.3	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	90.0	08/09/2018	JMK
TFT	EPA-8021	87.4	08/09/2018	JMK
C25	NWTPH-DX w/ SGA	72.4	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	103	08/08/2018	PAB

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-25
CLIENT SAMPLE ID	MW-1 12ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/30/2018 12:50:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified gasoline range product.

DRAFT

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-26
CLIENT SAMPLE ID	MW-1 15ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/30/2018 1:15:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	08/09/2018	JMK
Benzene	EPA-8021	U	0.030	1	MG/KG	08/09/2018	JMK
Toluene	EPA-8021	U	0.050	1	MG/KG	08/09/2018	JMK
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	08/09/2018	JMK
Xylenes	EPA-8021	U	0.20	1	MG/KG	08/09/2018	JMK
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Mercury	EPA-7471	U	0.020	1	MG/KG	08/08/2018	RAL
Arsenic	EPA-6020	2.1	0.64	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.20	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	12	0.33	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	23	0.21	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	1.8	0.21	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	24	2.2	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	91.8	08/09/2018	JMK
TFT	EPA-8021	94.5	08/09/2018	JMK
C25	NWTPH-DX w/ SGA	66.7	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	103	08/08/2018	PAB

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-26
CLIENT SAMPLE ID	MW-1 15ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/30/2018 1:15:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

U - Analyte analyzed for but not detected at level above reporting limit.

DRAFT



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018
ALS JOB#: EV18080025
ALS SAMPLE#: EV18080025-27

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment
CLIENT SAMPLE ID: MW-2 6in

DATE RECEIVED: 08/03/2018
COLLECTION DATE: 7/30/2018 1:55:00 PM
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	32	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	160	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Acenaphthylene	EPA-8270 SIM	33	20	1	UG/KG	08/08/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Phenanthrene	EPA-8270 SIM	100	20	1	UG/KG	08/08/2018	PAB
Anthracene	EPA-8270 SIM	66	20	1	UG/KG	08/08/2018	PAB
Fluoranthene	EPA-8270 SIM	290	20	1	UG/KG	08/08/2018	PAB
Pyrene	EPA-8270 SIM	180	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	380	20	1	UG/KG	08/08/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/08/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	64	20	1	UG/KG	08/08/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	110	20	1	UG/KG	08/08/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	35	20	1	UG/KG	08/08/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	120	20	1	UG/KG	08/08/2018	PAB
Mercury	EPA-7471	0.64	0.080	4	MG/KG	08/08/2018	RAL
Arsenic	EPA-6020	7.2	0.61	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	2.3	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	27	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	2100	2.0	10	MG/KG	08/09/2018	RAL
Lead	EPA-6020	230	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	540	21	10	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	74.7	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	83.0	08/08/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains light oil/lube oil.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-28
CLIENT SAMPLE ID	MW-2 7ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/30/2018 2:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	21	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	75	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	72	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	50	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	45	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	60	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	48	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	35	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	40	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.024	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	6.2	0.74	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	0.67	0.23	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	13	0.38	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	24	0.24	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	29	0.24	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	37	2.6	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	77.5	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	81.2	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018
ALS JOB#: EV18080025
ALS SAMPLE#: EV18080025-29

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment
CLIENT SAMPLE ID: WES-Dup.-1

DATE RECEIVED: 08/03/2018
COLLECTION DATE: 7/30/2018 9:10:00 AM
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	41	3.0	1	MG/KG	08/09/2018	JMK
Benzene	EPA-8021	U	0.030	1	MG/KG	08/09/2018	JMK
Toluene	EPA-8021	U	0.050	1	MG/KG	08/09/2018	JMK
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	08/09/2018	JMK
Xylenes	EPA-8021	U	0.20	1	MG/KG	08/09/2018	JMK
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	U	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	2.8	0.66	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.20	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	15	0.34	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	28	0.21	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	3.4	0.21	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	27	2.3	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	86.7	08/09/2018	JMK
TFT	EPA-8021	90.3	08/09/2018	JMK
C25	NWTPH-DX w/ SGA	82.0	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	81.6	08/09/2018	PAB

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-29
CLIENT SAMPLE ID	WES-Dup.-1	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/30/2018 9:10:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains an unidentified gasoline range product.

DRAFT

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
 228 E. Champion St., Suite 101
 Bellingham, WA 98225
CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment
CLIENT SAMPLE ID OPALCO-2 2-6in

DATE: 8/27/2018
ALS JOB#: EV18080025
ALS SAMPLE#: EV18080025-30
DATE RECEIVED: 08/03/2018
COLLECTION DATE: 7/31/2018 10:10:00 AM
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	34	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	72	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	55	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	39	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	22	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
PCB-1016	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1221	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1232	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1242	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1248	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1254	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1260	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1268	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.026	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	4.8	0.63	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	0.92	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	17	0.32	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	68	0.20	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	54	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	2600	22	10	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	81.9	08/07/2018	EBS

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-30
CLIENT SAMPLE ID	OPALCO-2 2-6in	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 10:10:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
Terphenyl-d14	EPA-8270 SIM	81.0	08/09/2018	PAB
TCMX	EPA-8082	87.7	08/09/2018	PAB
DCB	EPA-8082	93.2	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018
ALS JOB#: EV18080025
ALS SAMPLE#: EV18080025-32

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment
CLIENT SAMPLE ID: OPALCO-2 5ft

DATE RECEIVED: 08/03/2018
COLLECTION DATE: 7/31/2018 10:30:00 AM
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
PCB-1016	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1221	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1232	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1242	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1248	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1254	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1260	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1268	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
Mercury	EPA-7471	U	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	3.2	0.62	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	16	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	45	0.20	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	2.1	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	250	2.1	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	85.7	08/07/2018	EBS

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-32
CLIENT SAMPLE ID	OPALCO-2 5ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 10:30:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
Terphenyl-d14	EPA-8270 SIM	81.6	08/09/2018	PAB
TCMX	EPA-8082	90.3	08/09/2018	PAB
DCB	EPA-8082	96.4	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-33
CLIENT SAMPLE ID	OPALCO-3 2-6in	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 10:55:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	110	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	40	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	32	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	240	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	44	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	340	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	210	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	95	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	160	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	170	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	61	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	45	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	60	20	1	UG/KG	08/09/2018	PAB
PCB-1016	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1221	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1232	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1242	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1248	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1254	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1260	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1268	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.34	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	7.1	0.61	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	1.1	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	30	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	1300	0.99	5	MG/KG	08/09/2018	RAL
Lead	EPA-6020	990	0.99	5	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	720	11	5	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	83.2	08/07/2018	EBS

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-33
CLIENT SAMPLE ID	OPALCO-3 2-6in	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 10:55:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
Terphenyl-d14	EPA-8270 SIM	79.8	08/09/2018	PAB
TCMX	EPA-8082	86.2	08/09/2018	PAB
DCB	EPA-8082	88.5	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-35
CLIENT SAMPLE ID	OPALCO-3 4ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 11:10:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
PCB-1016	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1221	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1232	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1242	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1248	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1254	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1260	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1268	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.025	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	4.1	0.61	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	16	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	44	0.20	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	4.5	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	39	2.1	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	81.1	08/07/2018	EBS

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-35
CLIENT SAMPLE ID	OPALCO-3 4ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 11:10:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
Terphenyl-d14	EPA-8270 SIM	90.0	08/09/2018	PAB
TCMX	EPA-8082	88.8	08/09/2018	PAB
DCB	EPA-8082	94.1	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-36
CLIENT SAMPLE ID	OPALCO-4 2-6in	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 9:35:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	24	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	59	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	41	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	57	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	24	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	35	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	41	20	1	UG/KG	08/09/2018	PAB
PCB-1016	EPA-8082	U	0.10	1	MG/KG	08/13/2018	PAB
PCB-1221	EPA-8082	U	0.10	1	MG/KG	08/13/2018	PAB
PCB-1232	EPA-8082	U	0.10	1	MG/KG	08/13/2018	PAB
PCB-1242	EPA-8082	U	0.10	1	MG/KG	08/13/2018	PAB
PCB-1248	EPA-8082	U	0.10	1	MG/KG	08/13/2018	PAB
PCB-1254	EPA-8082	U	0.10	1	MG/KG	08/13/2018	PAB
PCB-1260	EPA-8082	U	0.10	1	MG/KG	08/13/2018	PAB
PCB-1268	EPA-8082	U	0.10	1	MG/KG	08/13/2018	PAB
Mercury	EPA-7471	0.67	0.080	4	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	5.5	0.60	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	18	0.30	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	120	0.19	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	40	0.19	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	74	2.1	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	82.4	08/07/2018	EBS

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-36
CLIENT SAMPLE ID	OPALCO-4 2-6in	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 9:35:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
Terphenyl-d14	EPA-8270 SIM	84.4	08/09/2018	PAB
TCMX	EPA-8082	61.5	08/13/2018	PAB
DCB	EPA-8082	60.3	08/13/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-38
CLIENT SAMPLE ID	OPALCO-4 5ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 9:50:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
PCB-1016	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1221	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1232	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1242	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1248	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1254	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1260	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1268	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
Mercury	EPA-7471	U	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	3.3	0.61	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	15	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	34	0.20	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	2.2	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	31	2.1	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	86.6	08/07/2018	EBS

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-38
CLIENT SAMPLE ID	OPALCO-4 5ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 9:50:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
Terphenyl-d14	EPA-8270 SIM	89.3	08/09/2018	PAB
TCMX	EPA-8082	88.2	08/09/2018	PAB
DCB	EPA-8082	72.5	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018
ALS JOB#: EV18080025
ALS SAMPLE#: EV18080025-39

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment
CLIENT SAMPLE ID: SYC-1 2-6in

DATE RECEIVED: 08/03/2018
COLLECTION DATE: 7/31/2018 12:25:00 PM
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	120	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	20	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	25	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.026	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	4.0	0.62	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	24	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	42	0.20	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	19	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	74	2.1	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	70.7	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	86.7	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-40
CLIENT SAMPLE ID	SYC-1 2ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 12:30:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.026	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	4.2	0.62	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	21	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	26	0.20	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	6.6	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	54	2.1	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	78.9	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	88.2	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-42
CLIENT SAMPLE ID	SYC-2 2-6in	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 12:40:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	130	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	34	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.036	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	4.2	0.61	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	0.21	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	21	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	48	0.20	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	46	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	87	2.1	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	79.9	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	88.6	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-43

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment

DATE RECEIVED: 08/03/2018

COLLECTION DATE: 7/31/2018 12:45:00 PM

CLIENT SAMPLE ID: SYC-2 2ft

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Mercury	EPA-7471	0.022	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	4.2	0.61	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	22	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	37	0.20	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	8.3	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	46	2.1	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	85.3	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	75.6	08/10/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-45
CLIENT SAMPLE ID	SYC-3 2-6in	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 1:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	70	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Fluoranthene	EPA-8270 SIM	31	20	1	UG/KG	08/10/2018	PAB
Pyrene	EPA-8270 SIM	30	20	1	UG/KG	08/10/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Mercury	EPA-7471	0.063	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	6.3	0.60	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	0.40	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	29	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	99	0.19	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	57	0.19	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	1000	10	5	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	80.2	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	89.6	08/10/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-46

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment

DATE RECEIVED: 08/03/2018

COLLECTION DATE: 7/31/2018 1:05:00 PM

CLIENT SAMPLE ID: SYC-3 3ft

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/10/2018	PAB
Mercury	EPA-7471	U	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	3.9	0.61	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	14	0.31	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	33	0.20	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	2.9	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	34	2.1	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	83.7	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	44.1	08/10/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-48

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment

DATE RECEIVED: 08/03/2018

COLLECTION DATE: 7/31/2018 1:20:00 PM

CLIENT SAMPLE ID SYC-4 2-6in

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	140	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	45	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	40	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	22	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	24	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	54	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	25	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	26	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	43	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.27	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	6.9	0.60	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	0.32	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	22	0.30	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	140	0.19	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	63	0.19	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	140	2.1	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	83.2	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	103	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-49

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment

DATE RECEIVED: 08/03/2018

COLLECTION DATE: 7/31/2018 1:25:00 PM

CLIENT SAMPLE ID: SYC-4 2ft

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	49	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	48	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	24	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	30	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	43	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	27	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	21	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	26	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.23	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	4.6	0.62	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	22	0.32	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	63	0.20	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	51	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	76	2.2	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	77.8	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	83.8	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-51
CLIENT SAMPLE ID	MW-4 2-6in	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 8:30:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	120	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	150	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	45	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	240	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	170	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	95	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	92	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	170	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	76	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	58	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	70	20	1	UG/KG	08/09/2018	PAB
PCB-1016	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1221	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1232	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1242	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1248	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1254	EPA-8082	0.10	0.10	1	MG/KG	08/09/2018	PAB
PCB-1260	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1268	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.22	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	7.9	0.60	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	0.79	0.19	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	43	0.30	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	590	0.19	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	390	0.19	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	620	2.1	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	75.8	08/07/2018	EBS

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-51
CLIENT SAMPLE ID	MW-4 2-6in	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 8:30:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
Terphenyl-d14	EPA-8270 SIM	76.7	08/09/2018	PAB
TCMX	EPA-8082	84.5	08/09/2018	PAB
DCB	EPA-8082	76.0	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-52
CLIENT SAMPLE ID	MW-4 11ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 8:50:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
PCB-1016	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1221	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1232	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1242	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1248	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1254	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1260	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
PCB-1268	EPA-8082	U	0.10	1	MG/KG	08/09/2018	PAB
Mercury	EPA-7471	U	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	8.4	0.74	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.23	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	64	0.38	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	31	0.24	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	3.4	0.24	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	45	2.6	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	76.9	08/07/2018	EBS

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-52
CLIENT SAMPLE ID	MW-4 11ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 8:50:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
Terphenyl-d14	EPA-8270 SIM	81.0	08/09/2018	PAB
TCMX	EPA-8082	167 GS4	08/09/2018	PAB
DCB	EPA-8082	153	08/09/2018	PAB

GS4 - Surrogate outside of control limits with a high bias. Associated compounds non-detect. No corrective action taken.
 U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-53
CLIENT SAMPLE ID	MW-5 2-6in	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 4:30:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	96	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	31	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	96	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	88	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	48	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	53	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	90	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	50	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	39	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	48	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.10	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	4.9	0.63	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	0.70	0.20	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	39	0.32	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	140	0.20	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	120	0.20	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	190	2.2	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	81.4	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	89.8	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-54

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment

DATE RECEIVED: 08/03/2018

COLLECTION DATE: 7/31/2018 5:25:00 PM

CLIENT SAMPLE ID MW-5 10ft

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	U	0.020	1	MG/KG	08/09/2018	RAL
Arsenic	EPA-6020	2.4	0.71	1	MG/KG	08/09/2018	RAL
Cadmium	EPA-6020	U	0.22	1	MG/KG	08/09/2018	RAL
Chromium	EPA-6020	18	0.36	1	MG/KG	08/09/2018	RAL
Copper	EPA-6020	14	0.23	1	MG/KG	08/09/2018	RAL
Lead	EPA-6020	2.1	0.23	1	MG/KG	08/09/2018	RAL
Zinc	EPA-6020	26	2.4	1	MG/KG	08/09/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	88.0	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	97.3	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-55

CLIENT CONTACT: Thom Davis

DATE RECEIVED: 08/03/2018

CLIENT PROJECT: Jensen's Shipyard Assessment

COLLECTION DATE: 7/31/2018 1:55:00 PM

CLIENT SAMPLE ID MW-6 2-6in

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.027	0.020	1	MG/KG	08/13/2018	RAL
Arsenic	EPA-6020	4.0	0.60	1	MG/KG	08/14/2018	RAL
Cadmium	EPA-6020	U	0.19	1	MG/KG	08/14/2018	RAL
Chromium	EPA-6020	19	0.30	1	MG/KG	08/14/2018	RAL
Copper	EPA-6020	28	0.19	1	MG/KG	08/14/2018	RAL
Lead	EPA-6020	13	0.19	1	MG/KG	08/14/2018	RAL
Zinc	EPA-6020	65	2.1	1	MG/KG	08/14/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	75.4	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	74.3	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-56
CLIENT SAMPLE ID	MW-6 40ft	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	7/31/2018 3:15:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	U	0.020	1	MG/KG	08/13/2018	RAL
Arsenic	EPA-6020	3.0	0.65	1	MG/KG	08/14/2018	RAL
Cadmium	EPA-6020	U	0.20	1	MG/KG	08/14/2018	RAL
Chromium	EPA-6020	14	0.33	1	MG/KG	08/14/2018	RAL
Copper	EPA-6020	16	0.21	1	MG/KG	08/14/2018	RAL
Lead	EPA-6020	1.5	0.21	1	MG/KG	08/14/2018	RAL
Zinc	EPA-6020	23	2.2	1	MG/KG	08/14/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	77.1	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	97.1	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-57

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment

DATE RECEIVED: 08/03/2018

COLLECTION DATE: 8/1/2018 9:55:00 AM

CLIENT SAMPLE ID SRWA-4 6in

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	79	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	190	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	160	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	240	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	100	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	710	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	730	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	540	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	500	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	590	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	500	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	320	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	98	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	410	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	11	1.0	50	MG/KG	08/13/2018	RAL
Arsenic	EPA-6020	54	0.68	1	MG/KG	08/14/2018	RAL
Cadmium	EPA-6020	0.39	0.21	1	MG/KG	08/14/2018	RAL
Chromium	EPA-6020	35	0.34	1	MG/KG	08/14/2018	RAL
Copper	EPA-6020	2000	4.4	20	MG/KG	08/14/2018	RAL
Lead	EPA-6020	1800	4.4	20	MG/KG	08/14/2018	RAL
Zinc	EPA-6020	450	47	20	MG/KG	08/14/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	80.7	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	92.0	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains light oil/lube oil.

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018
ALS JOB#: EV18080025
ALS SAMPLE#: EV18080025-58

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment
CLIENT SAMPLE ID: SRWA-4 3.5ft

DATE RECEIVED: 08/03/2018
COLLECTION DATE: 8/1/2018 10:00:00 AM
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/08/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/08/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.098	0.020	1	MG/KG	08/13/2018	RAL
Arsenic	EPA-6020	7.7	0.72	1	MG/KG	08/14/2018	RAL
Cadmium	EPA-6020	U	0.22	1	MG/KG	08/14/2018	RAL
Chromium	EPA-6020	24	0.36	1	MG/KG	08/14/2018	RAL
Copper	EPA-6020	35	0.23	1	MG/KG	08/14/2018	RAL
Lead	EPA-6020	15	0.23	1	MG/KG	08/14/2018	RAL
Zinc	EPA-6020	64	2.5	1	MG/KG	08/14/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	82.7	08/08/2018	EBS
Terphenyl-d14	EPA-8270 SIM	66.9	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-59

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment

DATE RECEIVED: 08/03/2018

COLLECTION DATE: 8/1/2018 9:30:00 AM

CLIENT SAMPLE ID SRWA-5 2-6in

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/08/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	72	50	1	MG/KG	08/08/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	37	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	140	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	51	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	340	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	330	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	180	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	190	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	240	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	170	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	120	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	35	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	150	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.33	0.020	1	MG/KG	08/13/2018	RAL
Arsenic	EPA-6020	12	0.68	1	MG/KG	08/14/2018	RAL
Cadmium	EPA-6020	0.32	0.21	1	MG/KG	08/14/2018	RAL
Chromium	EPA-6020	20	0.35	1	MG/KG	08/14/2018	RAL
Copper	EPA-6020	420	0.22	1	MG/KG	08/14/2018	RAL
Lead	EPA-6020	940	2.2	10	MG/KG	08/14/2018	RAL
Zinc	EPA-6020	460	2.4	1	MG/KG	08/14/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	77.3	08/08/2018	EBS
Terphenyl-d14	EPA-8270 SIM	96.4	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-60

CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Jensen's Shipyard Assessment

DATE RECEIVED: 08/03/2018

COLLECTION DATE: 8/1/2018 9:35:00 AM

CLIENT SAMPLE ID SRWA-5 3.5ft

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	31	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	62	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	57	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	130	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	120	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	65	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	60	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	42	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	50	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	0.040	0.020	1	MG/KG	08/13/2018	RAL
Arsenic	EPA-6020	4.2	1.2	1	MG/KG	08/14/2018	RAL
Cadmium	EPA-6020	1.5	0.38	1	MG/KG	08/14/2018	RAL
Chromium	EPA-6020	11	0.62	1	MG/KG	08/14/2018	RAL
Copper	EPA-6020	43	0.39	1	MG/KG	08/14/2018	RAL
Lead	EPA-6020	21	0.39	1	MG/KG	08/14/2018	RAL
Zinc	EPA-6020	58	4.2	1	MG/KG	08/14/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	88.1	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	91.6	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-61

CLIENT CONTACT: Thom Davis

DATE RECEIVED: 08/03/2018

CLIENT PROJECT: Jensen's Shipyard Assessment

COLLECTION DATE: 8/1/2018 9:40:00 AM

CLIENT SAMPLE ID SRWA-5 5ft

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	U	0.020	1	MG/KG	08/13/2018	RAL
Arsenic	EPA-6020	5.1	0.76	1	MG/KG	08/14/2018	RAL
Cadmium	EPA-6020	U	0.23	1	MG/KG	08/14/2018	RAL
Chromium	EPA-6020	20	0.38	1	MG/KG	08/14/2018	RAL
Copper	EPA-6020	16	0.24	1	MG/KG	08/14/2018	RAL
Lead	EPA-6020	3.6	0.24	1	MG/KG	08/14/2018	RAL
Zinc	EPA-6020	55	2.6	1	MG/KG	08/14/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	83.4	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	98.9	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/27/2018
CLIENT CONTACT:	Thom Davis	ALS JOB#:	EV18080025
CLIENT PROJECT:	Jensen's Shipyard Assessment	ALS SAMPLE#:	EV18080025-62
CLIENT SAMPLE ID	SRWA-6 2-6in	DATE RECEIVED:	08/03/2018
		COLLECTION DATE:	8/1/2018 9:00:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	120	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	640	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	36	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	22	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	260	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	1200	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	370	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	2200	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	1900	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	1200	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	1300	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	1300	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	1100	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	620	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	200	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	680	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	2.8	0.20	10	MG/KG	08/13/2018	RAL
Arsenic	EPA-6020	16	0.73	1	MG/KG	08/14/2018	RAL
Cadmium	EPA-6020	0.64	0.23	1	MG/KG	08/14/2018	RAL
Chromium	EPA-6020	36	0.37	1	MG/KG	08/14/2018	RAL
Copper	EPA-6020	550	0.24	1	MG/KG	08/14/2018	RAL
Lead	EPA-6020	1200	0.24	1	MG/KG	08/14/2018	RAL
Zinc	EPA-6020	1100	25	10	MG/KG	08/14/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	81.3	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	80.2	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains light oil/lube oil.

CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

DATE: 8/27/2018

ALS JOB#: EV18080025

ALS SAMPLE#: EV18080025-63

CLIENT CONTACT: Thom Davis

DATE RECEIVED: 08/03/2018

CLIENT PROJECT: Jensen's Shipyard Assessment

COLLECTION DATE: 8/1/2018 9:10:00 AM

CLIENT SAMPLE ID SRWA-6 3ft

WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/07/2018	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/07/2018	EBS
Naphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
2-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
1-Methylnaphthalene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Acenaphthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluorene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Phenanthrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Chrysene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[B]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[K]Fluoranthene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[A]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	20	1	UG/KG	08/09/2018	PAB
Mercury	EPA-7471	U	0.020	1	MG/KG	08/13/2018	RAL
Arsenic	EPA-6020	5.0	0.67	1	MG/KG	08/14/2018	RAL
Cadmium	EPA-6020	U	0.21	1	MG/KG	08/14/2018	RAL
Chromium	EPA-6020	20	0.34	1	MG/KG	08/14/2018	RAL
Copper	EPA-6020	11	0.22	1	MG/KG	08/14/2018	RAL
Lead	EPA-6020	11	0.22	1	MG/KG	08/14/2018	RAL
Zinc	EPA-6020	32	2.3	1	MG/KG	08/14/2018	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	91.4	08/07/2018	EBS
Terphenyl-d14	EPA-8270 SIM	89.8	08/09/2018	PAB

U - Analyte analyzed for but not detected at level above reporting limit.