APPENDIX E: Water Quality Sampling

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: AQUAFOR BEECH LTD
2600 SKYMARK AVE, BUILDING#6, SUITE 202
MISSISSAUGA, ON N1K1B6
(905) 629-0099

ATTENTION TO: Abdul Samadj

PROJECT: El Freeda

AGAT WORK ORDER: 15T005925

MICROBIOLOGY ANALYSIS REVIEWED BY: Inesa Alizarchyk, Inorganic Lab Supervisor

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

WATER ANALYSIS REVIEWED BY: Parvathi Malemath, Data Reviewer

DATE REPORTED: Aug 20, 2015

PAGES (INCLUDING COVER): 13

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Results relate only to the items tested and to all the items tested
All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request

Certificate of Analysis

AGAT WORK ORDER: 15T005925

PROJECT: El Freeda

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CANADA L4Z 1Y2
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CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

Microbiological Analysis (water)

DATE RECEIVED: 2015-08-11

DATE REPORTED: 2015-08-20

				SAMPLE DESCRIPTION:	1		2		3
				SAMPLE TYPE:	Water		Water		Water
				DATE SAMPLED:	8/11/2015		8/11/2015		8/11/2015
Parameter	Unit	G / S	RDL	6843121	RDL	6843139	RDL	6843143	
Escherichia coli	CFU/100mL		100	1000	2	140	100	1200	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6843121-6843143 RDL >1 indicates dilutions of the sample.

Certified By:

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PROJECT: El Freeda

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CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

OC Pesticides (Water)

DATE RECEIVED: 2015-08-11

DATE REPORTED: 2015-08-20

		SAMPLE DESCRIPTION:		1	2	3
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		8/11/2015	8/11/2015	8/11/2015
Parameter	Unit	G / S	RDL	6843121	6843139	6843143
Gamma-Hexachlorocyclohexane	µg/L		0.01	<0.01	<0.01	<0.01
Heptachlor	µg/L		0.01	<0.01	<0.01	<0.01
Aldrin	µg/L		0.01	<0.01	<0.01	<0.01
Heptachlor Epoxide	µg/L		0.01	<0.01	<0.01	<0.01
Endosulfan	µg/L		0.05	<0.05	<0.05	<0.05
Chlordane	µg/L		0.04	<0.04	<0.04	<0.04
DDE	µg/L		0.01	<0.01	<0.01	<0.01
DDD	µg/L		0.05	<0.05	<0.05	<0.05
DDT	µg/L		0.04	<0.04	<0.04	<0.04
Dieldrin	µg/L		0.02	<0.02	<0.02	<0.02
Endrin	µg/L		0.05	<0.05	<0.05	<0.05
Methoxychlor	µg/L		0.04	<0.04	<0.04	<0.04
Hexachlorobenzene	ug/L		0.01	<0.01	<0.01	<0.01
Hexachlorobutadiene	ug/L		0.01	<0.01	<0.01	<0.01
Hexachloroethane	ug/L		0.01	<0.01	<0.01	<0.01
Surrogate	Unit	Acceptable Limits				
TCMX	%	50-140		96	87	93
Decachlorobiphenyl	%	60-140		63	70	66

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6843121-6843143 Note: DDT applies to the total of op'DDT and pp'DDT, DDD applies to the total of op'DDD and pp'DDD and DDE applies to the total of op'DDE and pp'DDE. Endosulfan applies to the total of Endosulfan I and Endosulfan II.
Chlordane applies to the total of Alpha-Chlordane and Gamma-Chlordane.

Certified By:

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ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

OP Pesticides (Water)

DATE RECEIVED: 2015-08-11

DATE REPORTED: 2015-08-20

		SAMPLE DESCRIPTION:		1	2	3
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		8/11/2015	8/11/2015	8/11/2015
Parameter	Unit	G / S	RDL	6843121	6843139	6843143
Phorate	µg/L		0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L		2.5	<2.5	<2.5	<2.5
Terbufos	µg/L		0.5	<0.5	<0.5	<0.5
Diazinon	µg/L		1	<1	<1	<1
Malathion	µg/L		5	<5	<5	<5
Chlorpyrifos	µg/L		1	<1	<1	<1
Parathion	µg/L		1	<1	<1	<1
Azinphos-methyl	µg/L		2	<2	<2	<2
Methyl Parathion	ug/L		0.5	<0.5	<0.5	<0.5

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ODWS - Table D

6843121-6843143 Results relate only to the items tested.

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SAMPLING SITE:

SAMPLED BY:

Temephos Pesticides (Water)

DATE RECEIVED: 2015-08-11

DATE REPORTED: 2015-08-20

SAMPLE DESCRIPTION:				1	2	3
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				8/11/2015	8/11/2015	8/11/2015
Parameter	Unit	G / S	RDL	6843121	6843139	6843143
Temephos	µg/L		10	<10	<10	<10

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6843121-6843143 Results relate only to the items tested.

Certified By:

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SAMPLING SITE:

SAMPLED BY:

Inorganic Chemistry (Water)

DATE RECEIVED: 2015-08-11

DATE REPORTED: 2015-08-20

		SAMPLE DESCRIPTION:		1	2		3
		SAMPLE TYPE:		Water	Water		Water
		DATE SAMPLED:		8/11/2015	8/11/2015		8/11/2015
Parameter	Unit	G / S	RDL	6843121	6843139	RDL	6843143
Total Suspended Solids	mg/L		10	<10	19	10	13
Chloride	mg/L		2.0	498	705	1.0	340
Sodium	mg/L		0.25	287	438	0.25	204
Total Phosphorus	mg/L		0.02	0.07	0.11	0.02	0.24

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6843121-6843143 The RDL's were increased for Chloride and Sodium to reflect a dilution of the sample in order to keep the analytes within a valid calibration range of the instruments.

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CLIENT NAME: AQUAFOR BEECH LTD

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SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals (Comprehensive) (Water)

DATE RECEIVED: 2015-08-11

DATE REPORTED: 2015-08-20

SAMPLE DESCRIPTION:				1	2	3
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				8/11/2015	8/11/2015	8/11/2015
Parameter	Unit	G / S	RDL	6843121	6843139	6843143
Antimony	µg/L		0.5	<0.5	<0.5	<0.5
Arsenic	µg/L		1.0	1.7	1.9	2.9
Barium	µg/L		2.0	141	71.4	69.1
Beryllium	µg/L		0.5	<0.5	<0.5	<0.5
Boron	µg/L		10.0	205	65.7	62.4
Cadmium	µg/L		0.2	<0.2	<0.2	<0.2
Chromium	µg/L		2.0	<2.0	<2.0	<2.0
Cobalt	µg/L		0.5	0.8	0.6	0.7
Copper	µg/L		1.0	5.3	1.7	2.3
Lead	µg/L		0.5	1.7	<0.5	0.8
Molybdenum	µg/L		0.5	2.1	0.7	1.9
Nickel	µg/L		1.0	6.0	2.4	2.8
Selenium	µg/L		1.0	1.6	3.7	1.9
Silver	µg/L		0.2	<0.2	<0.2	<0.2
Thallium	µg/L		0.3	<0.3	<0.3	<0.3
Uranium	µg/L		0.5	2.1	<0.5	1.2
Vanadium	µg/L		0.4	1.7	2.0	2.4
Zinc	µg/L		5.0	24.0	<5.0	6.3

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T1(All-GW)

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Quality Assurance

CLIENT NAME: AQUAFOR BEECH LTD

AGAT WORK ORDER: 15T005925

PROJECT: El Freeda

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

Microbiology Analysis

RPT Date: Aug 20, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Microbiological Analysis (water)															
Escherichia coli	1		2	ND	NA	< 1									

Comments: ND - Not Detected,
NA - % RPD Not Reportable based on the number of colonies count acceptable for RPD calculation

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CLIENT NAME: AQUAFOR BEECH LTD
AGAT WORK ORDER: 15T005925
PROJECT: El Freeda
ATTENTION TO: Abdul Samadj
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis

RPT Date: Aug 20, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
OP Pesticides (Water)															
Phorate		TW	< 0.5	< 0.5	0.0%	< 0.5	81%	60%	140%	77%	60%	140%	81%	60%	140%
Dimethoate		TW	< 2.5	< 2.5	0.0%	< 2.5	64%	60%	140%	63%	60%	140%	74%	60%	140%
Terbufos		TW	< 0.5	< 0.5	0.0%	< 0.5	95%	60%	140%	79%	60%	140%	83%	60%	140%
Diazinon		TW	< 1	< 1	0.0%	< 1	95%	60%	140%	81%	60%	140%	81%	60%	140%
Malathion		TW	< 5	< 5	0.0%	< 5	72%	60%	140%	63%	60%	140%	84%	60%	140%
Chlorpyrifos		TW	< 1	< 1	0.0%	< 1	109%	60%	140%	78%	60%	140%	85%	60%	140%
Parathion		TW	< 1	< 1	0.0%	< 1	112%	60%	140%	127%	60%	140%	81%	60%	140%
Azinphos-methyl		TW	< 2	< 2	0.0%	< 2	62%	60%	140%	84%	60%	140%	84%	60%	140%
Methyl Parathion		TW	< 0.5	< 0.5	0.0%	< 0.5	NA	70%	130%	106%	70%	130%	74%	70%	130%
OC Pesticides (Water)															
Gamma-Hexachlorocyclohexane		TW	< 0.01	< 0.01	0.0%	< 0.01	110%	50%	140%	125%	50%	140%	54%	50%	140%
Heptachlor		TW	< 0.01	< 0.01	0.0%	< 0.01	117%	50%	140%	114%	50%	140%	91%	50%	140%
Aldrin		TW	< 0.01	< 0.01	0.0%	< 0.01	113%	50%	140%	108%	50%	140%	84%	50%	140%
Heptachlor Epoxide		TW	< 0.01	< 0.01	0.0%	< 0.01	116%	50%	140%	134%	50%	140%	83%	50%	140%
Endosulfan		TW	< 0.05	< 0.05	0.0%	< 0.05	106%	50%	140%	107%	50%	140%	90%	50%	140%
Chlordane		TW	< 0.04	< 0.04	0.0%	< 0.04	106%	50%	140%	130%	50%	140%	79%	50%	140%
DDE		TW	< 0.01	< 0.01	0.0%	< 0.01	99%	50%	140%	97%	50%	140%	91%	50%	140%
DDD		TW	< 0.05	< 0.05	0.0%	< 0.05	110%	50%	140%	114%	50%	140%	91%	50%	140%
DDT		TW	< 0.04	< 0.04	0.0%	< 0.04	97%	50%	140%	86%	50%	140%	88%	50%	140%
Dieldrin		TW	< 0.02	< 0.02	0.0%	< 0.02	102%	50%	140%	111%	50%	140%	85%	50%	140%
Endrin		TW	< 0.05	< 0.05	0.0%	< 0.05	104%	50%	140%	118%	50%	140%	92%	50%	140%
Methoxychlor		TW	< 0.04	< 0.04	0.0%	< 0.04	124%	50%	140%	79%	50%	140%	102%	50%	140%
Hexachlorobenzene		TW	< 0.01	< 0.01	0.0%	< 0.01	107%	50%	140%	115%	50%	140%	83%	50%	140%
Hexachlorobutadiene		TW	< 0.01	< 0.01	0.0%	< 0.01	130%	50%	140%	93%	50%	140%	125%	50%	140%
Hexachloroethane		TW	< 0.01	< 0.01	0.0%	< 0.01	126%	50%	140%	106%	50%	140%	65%	50%	140%

Comments: TW: Tap water analysis has been performed as QC sample testing for duplicate and matrix spike due to insufficient sample volume.

Temephos Pesticides (Water)															
Temephos	6860757		< 10	< 10	0.0%	< 10	116%	60%	130%	69%	60%	130%	106%	60%	130%

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Quality Assurance

CLIENT NAME: AQUAFOR BEECH LTD

AGAT WORK ORDER: 15T005925

PROJECT: El Freeda

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

Water Analysis

RPT Date: Aug 20, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals (Comprehensive) (Water)															
Antimony	6840999		0.6	0.8	NA	< 0.5	103%	70%	130%	101%	80%	120%	101%	70%	130%
Arsenic	6840999		1.2	1.1	8.7%	< 1.0	101%	70%	130%	102%	80%	120%	102%	70%	130%
Barium	6840999		46.3	46.7	0.9%	< 2.0	100%	70%	130%	100%	80%	120%	100%	70%	130%
Beryllium	6840999		<0.5	<0.5	0.0%	< 0.5	108%	70%	130%	108%	80%	120%	102%	70%	130%
Boron	6840999		20.8	20.5	1.5%	< 10.0	107%	70%	130%	105%	80%	120%	98%	70%	130%
Cadmium	6840999		<0.2	<0.2	0.0%	< 0.2	100%	70%	130%	105%	80%	120%	101%	70%	130%
Chromium	6840999		<2.0	<2.0	0.0%	< 2.0	99%	70%	130%	101%	80%	120%	98%	70%	130%
Cobalt	6840999		3.0	3.1	3.3%	< 0.5	103%	70%	130%	108%	80%	120%	104%	70%	130%
Copper	6840999		15.2	15.6	2.6%	< 1.0	100%	70%	130%	104%	80%	120%	102%	70%	130%
Lead	6840999		1.5	1.4	6.9%	< 0.5	104%	70%	130%	102%	80%	120%	101%	70%	130%
Molybdenum	6840999		1.3	1.3	0.0%	< 0.5	101%	70%	130%	101%	80%	120%	97%	70%	130%
Nickel	6840999		81.5	81.9	0.5%	< 1.0	99%	70%	130%	102%	80%	120%	97%	70%	130%
Selenium	6840999		2.4	1.4	NA	< 1.0	99%	70%	130%	100%	80%	120%	96%	70%	130%
Silver	6840999		<0.2	<0.2	0.0%	< 0.2	100%	70%	130%	110%	80%	120%	102%	70%	130%
Thallium	6840999		<0.3	<0.3	0.0%	< 0.3	102%	70%	130%	100%	80%	120%	99%	70%	130%
Uranium	6840999		0.6	0.6	0.0%	< 0.5	102%	70%	130%	102%	80%	120%	103%	70%	130%
Vanadium	6840999		0.6	0.8	NA	< 0.4	100%	70%	130%	104%	80%	120%	100%	70%	130%
Zinc	6840999		5.8	5.7	1.7%	< 5.0	101%	70%	130%	106%	80%	120%	111%	70%	130%

Comments: NA signifies Not Applicable.
RPD Qualifier(Antimony,Selenium,Vanadium):As the average value for the sample and a duplicate is less than 5X RDL, lab's RPD acceptance criteria is not applicable

Inorganic Chemistry (Water)															
Total Suspended Solids	6843121	6843121	<10	<10	0.0%	< 10	100%	80%	120%	NA			NA		
Chloride	6846999		58.9	58.9	0.0%	< 0.10	99%	90%	110%	94%	90%	110%	99%	80%	120%
Sodium	6843143	6843143	204	212	3.8%	< 0.05	101%	90%	110%	100%	90%	110%	100%	70%	130%
Total Phosphorus	6843044		0.11	0.10	9.5%	< 0.02	98%	90%	110%	101%	90%	110%	100%	80%	120%

Comments: NA signifies Not Applicable.

Certified By:

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Method Summary

CLIENT NAME: AQUAFOR BEECH LTD

AGAT WORK ORDER: 15T005925

PROJECT: El Freeda

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Microbiology Analysis			
Escherichia coli	MIC-93-7010	EPA 1604	Membrane Filtration
Trace Organics Analysis			
Gamma-Hexachlorocyclohexane	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Heptachlor	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Aldrin	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Heptachlor Epoxide	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Endosulfan	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Chlordane	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
DDE	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
DDD	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
DDT	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Dieldrin	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Endrin	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Methoxychlor	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Hexachlorobenzene	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Hexachlorobutadiene	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Hexachloroethane	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
TCMX	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Decachlorobiphenyl	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Phorate	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Dimethoate	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Terbufos	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Diazinon	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Malathion	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Chlorpyrifos	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Parathion	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Azinphos-methyl	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Methyl Parathion	ORG 5509	EPA SW-846 3510C & 8270	GC/MS
Methyl Parathion	ORG-91-5103	EPA SW-846 3510C & 8270	GC/MS
Temephos	ORG-91-5101	EPA 632 531.1 & MOE E3158	HPLC

Results relate only to the items tested and to all the items tested

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: AQUAFOR BEECH LTD

AGAT WORK ORDER: 15T005925

PROJECT: El Freeda

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Total Suspended Solids	INOR-93-6028	SM 2540 D	BALANCE
Chloride	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Sodium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Total Phosphorus	INOR-93-6022	SM 4500-P B&E	SPECTROPHOTOMETER
Antimony	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Barium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Boron	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Cadmium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Chromium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Copper	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Lead	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Nickel	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Selenium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Silver	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Thallium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Uranium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Zinc	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS

Results relate only to the items tested and to all the items tested

AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
www.agatlabs.com webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Laboratory Use Only
Work Order #: 15T005925
Cooler Quantity:
Arrival Temperatures: 23.6/24.9/24.3 (on ice)
Custody Seal Intact: ☐Yes ☐No ☐N/A
Notes:

Report Information:
Company: Aquafor Beach Ltd.
Contact: Abdul SAMADI
Address:
Phone: 905-629-0099 Ext 305 Fax: 629-0089
Reports to be sent to:
1. Email: samadi.a@aquaforbeach.com
2. Email:

Regulatory Requirements:
☐ No Regulatory Requirement
(Please check all applicable boxes)

☐ Regulation 153/04
Table ____ (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☐ Sewer Use
☐ Sanitary ☐ Storm
Region ____ (Indicate One)

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other ____ (Indicate One)

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Turnaround Time (TAT) Required:
Regular TAT ☑ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

Project Information:
Project: El Freeda
Site Location:
Sampled By: Abdul
AGAT Quote #: 58276 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☑ No ☐
Company:
Contact:
Address:
Email:

Sample Matrix Legend
B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	(Check Applicable) ORPs: ☐B-HWS ☐Cl ☐CN ☐Cr6+ ☐EC ☐FOC ☐NO_3/NO_2 ☐Total N ☐Hg ☐pH ☐SAR	Nutrients: ☐TP ☐NH_3 ☐TKN ☐NO_3 ☐NO_2 ☐NO_3/NO_2	Volatiles: ☐VOC ☐BTEX ☐THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
1	11 AUG 2015	12:30	7																	
2	11 AUG 2015	1:15	7																	
3	11 AUG 2015	2:10	7																	

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
			Shazmin J Aug 11/15	3:40pm	
John Ho	11 AUG 2015	3:40 pm			

Page ____ of ____
N°: T 009448

Document ID: DIV-79-1511.008
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Date Issued: Jan 8, 2015

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http://www.agatlabs.com

CLIENT NAME: AQUAFOR BEECH LTD
2600 SKYMARK AVE, BUILDING#6, SUITE 202
MISSISSAUGA, ON N1K1B6
(905) 629-0099

ATTENTION TO: Abdul Samadj

PROJECT: alfreedo

AGAT WORK ORDER: 15W009798

MICROBIOLOGY ANALYSIS REVIEWED BY: Anthony Dapaah, PhD (Chem), Inorganic Lab Manager

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

WATER ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Coordinator

DATE REPORTED: Aug 31, 2015

PAGES (INCLUDING COVER): 13

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

Results relate only to the items tested and to all the items tested
All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request

Certificate of Analysis

AGAT WORK ORDER: 15W009798

PROJECT: alfreedo

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
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TEL (905)712-5100
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http://www.agatlabs.com

CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

Microbiological Analysis (water)

DATE RECEIVED: 2015-08-20

DATE REPORTED: 2015-08-31

		SAMPLE DESCRIPTION:		1	2	3
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		8/20/2015	8/20/2015	8/20/2015
Parameter	Unit	G / S	RDL	6890372	6890374	6890381
Escherichia coli	CFU/100mL	0	100	2400	1100	5500

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to SDWA - Microbiology

6890372-6890381 RDL >1 indicates dilutions of the sample.

Certified By:

Results relate only to the items tested and to all the items tested

Certificate of Analysis

AGAT WORK ORDER: 15W009798

PROJECT: alfreedo

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http://www.agatlabs.com

CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

OC Pesticides (Water)

DATE RECEIVED: 2015-08-20

DATE REPORTED: 2015-08-31

		SAMPLE DESCRIPTION:		1	2	3
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		8/20/2015	8/20/2015	8/20/2015
Parameter	Unit	G / S	RDL	6890372	6890374	6890381
Gamma-Hexachlorocyclohexane	µg/L		0.01	<0.01	<0.01	<0.01
Heptachlor	µg/L		0.01	<0.01	<0.01	<0.01
Aldrin	µg/L		0.01	<0.01	<0.01	<0.01
Heptachlor Epoxide	µg/L		0.01	<0.01	<0.01	<0.01
Endosulfan	µg/L		0.05	<0.05	<0.05	<0.05
Chlordane	µg/L		0.04	<0.04	<0.04	<0.04
DDE	µg/L		0.01	<0.01	<0.01	<0.01
DDD	µg/L		0.05	<0.05	<0.05	<0.05
DDT	µg/L		0.04	<0.04	<0.04	<0.04
Dieldrin	µg/L		0.02	<0.02	<0.02	<0.02
Endrin	µg/L		0.05	<0.05	<0.05	<0.05
Methoxychlor	µg/L		0.04	<0.04	<0.04	<0.04
Hexachlorobenzene	ug/L		0.01	<0.01	<0.01	<0.01
Hexachlorobutadiene	ug/L		0.01	<0.01	<0.01	<0.01
Hexachloroethane	ug/L		0.01	<0.01	<0.01	<0.01
Surrogate	Unit	Acceptable Limits				
TCMX	%	50-140		113	85	69
Decachlorobiphenyl	%	60-140		63	123	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6890372-6890381 Note: DDT applies to the total of op'DDT and pp'DDT, DDD applies to the total of op'DDD and pp'DDD and DDE applies to the total of op'DDE and pp'DDE. Endosulfan applies to the total of Endosulfan I and Endosulfan II.
Chlordane applies to the total of Alpha-Chlordane and Gamma-Chlordane.

Certified By:

Results relate only to the items tested and to all the items tested

Certificate of Analysis

AGAT WORK ORDER: 15W009798

PROJECT: alfreedo

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CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

OP Pesticides (Water)

DATE RECEIVED: 2015-08-20

DATE REPORTED: 2015-08-31

		SAMPLE DESCRIPTION:		1	2	3
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		8/20/2015	8/20/2015	8/20/2015
Parameter	Unit	G / S	RDL	6890372	6890374	6890381
Phorate	µg/L		0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L		2.5	<2.5	<2.5	<2.5
Terbufos	µg/L		0.5	<0.5	<0.5	<0.5
Diazinon	µg/L		1	<1	<1	<1
Malathion	µg/L		5	<5	<5	<5
Chlorpyrifos	µg/L		1	<1	<1	<1
Parathion	µg/L		1	<1	<1	<1
Azinphos-methyl	µg/L		2	<2	<2	<2
Methyl Parathion	ug/L		0.5	<0.5	<0.5	<0.5

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ODWS - Table D

6890372-6890381 Results relate only to the items tested.

Certified By:

Results relate only to the items tested and to all the items tested

Certificate of Analysis

AGAT WORK ORDER: 15W009798

PROJECT: alfreedo

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CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

Inorganic Chemistry (Water)

DATE RECEIVED: 2015-08-20

DATE REPORTED: 2015-08-31

		SAMPLE DESCRIPTION:		1	2		3
		SAMPLE TYPE:		Water	Water		Water
		DATE SAMPLED:		8/20/2015	8/20/2015		8/20/2015
Parameter	Unit	G / S	RDL	6890372	6890374	RDL	6890381
Total Suspended Solids	mg/L		10	43	39	10	53
Chloride	mg/L		1.0	310	722	0.50	282
Total Phosphorus	mg/L		0.02	0.26	0.21	0.04	0.55
Sodium	mg/L		0.25	180	422	0.10	163

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6890372-6890381 Elevated RDL indicates the degree of dilution prior to the analysis in order to keep analyte within the calibration range of the instrument and to reduce matrix interference.

Certified By:

Results relate only to the items tested and to all the items tested

Certificate of Analysis

AGAT WORK ORDER: 15W009798

PROJECT: alfreedo

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CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals (Comprehensive) (Water)

DATE RECEIVED: 2015-08-20

DATE REPORTED: 2015-08-31

SAMPLE DESCRIPTION:				1	2	3
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				8/20/2015	8/20/2015	8/20/2015
Parameter	Unit	G / S	RDL	6890372	6890374	6890381
Antimony	µg/L		0.5	<0.5	<0.5	<0.5
Arsenic	µg/L		1.0	1.7	2.2	6.0
Barium	µg/L		2.0	109	71.0	111
Beryllium	µg/L		0.5	<0.5	<0.5	<0.5
Boron	µg/L		10.0	162	49.5	48.2
Cadmium	µg/L		0.2	<0.2	<0.2	<0.2
Chromium	µg/L		2.0	3.7	2.4	5.0
Cobalt	µg/L		0.5	0.7	0.6	1.4
Copper	µg/L		1.0	4.0	2.2	7.1
Lead	µg/L		0.5	<0.5	0.8	1.5
Molybdenum	µg/L		0.5	2.1	0.7	1.3
Nickel	µg/L		1.0	3.2	2.5	3.5
Selenium	µg/L		1.0	4.3	2.1	4.8
Silver	µg/L		0.2	<0.2	<0.2	<0.2
Thallium	µg/L		0.3	<0.3	<0.3	<0.3
Uranium	µg/L		0.5	1.3	0.5	1.2
Vanadium	µg/L		0.4	2.0	2.0	3.7
Zinc	µg/L		5.0	9.6	11.9	13.6

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T1(All-GW)

Certified By:

Results relate only to the items tested and to all the items tested

Guideline Violation

AGAT WORK ORDER: 15W009798

PROJECT: alfreedo

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CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
6890372	1	SDWA - Microbiology	Microbiological Analysis (water)	Escherichia coli	0	2400
6890374	2	SDWA - Microbiology	Microbiological Analysis (water)	Escherichia coli	0	1100
6890381	3	SDWA - Microbiology	Microbiological Analysis (water)	Escherichia coli	0	5500

Results relate only to the items tested and to all the items tested

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Quality Assurance

CLIENT NAME: AQUAFOR BEECH LTD

AGAT WORK ORDER: 15W009798

PROJECT: alfreedo

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

Microbiology Analysis

RPT Date: Aug 31, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Microbiological Analysis (water)															
Escherichia coli	1	6890372	2400	2300	4.3%	< 1									

Certified By:

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Results relate only to the items tested and to all the items tested

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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FAX (905)712-5122
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: AQUAFOR BEECH LTD

AGAT WORK ORDER: 15W009798

PROJECT: alfreedo

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Aug 31, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
OC Pesticides (Water)															
Gamma-Hexachlorocyclohexane	TW	< 0.01	< 0.01	0.0%	< 0.01	120%	50%	140%	107%	50%	140%	121%	50%	140%	
Heptachlor	TW	< 0.01	< 0.01	0.0%	< 0.01	130%	50%	140%	109%	50%	140%	99%	50%	140%	
Aldrin	TW	< 0.01	< 0.01	0.0%	< 0.01	138%	50%	140%	116%	50%	140%	120%	50%	140%	
Heptachlor Epoxide	TW	< 0.01	< 0.01	0.0%	< 0.01	126%	50%	140%	127%	50%	140%	102%	50%	140%	
Endosulfan	TW	< 0.05	< 0.05	0.0%	< 0.05	107%	50%	140%	101%	50%	140%	92%	50%	140%	
Chlordane	TW	< 0.04	< 0.04	0.0%	< 0.04	123%	50%	140%	89%	50%	140%	117%	50%	140%	
DDE	TW	< 0.01	< 0.01	0.0%	< 0.01	112%	50%	140%	104%	50%	140%	89%	50%	140%	
DDD	TW	< 0.05	< 0.05	0.0%	< 0.05	120%	50%	140%	109%	50%	140%	102%	50%	140%	
DDT	TW	< 0.04	< 0.04	0.0%	< 0.04	109%	50%	140%	82%	50%	140%	62%	50%	140%	
Dieldrin	TW	< 0.02	< 0.02	0.0%	< 0.02	132%	50%	140%	106%	50%	140%	91%	50%	140%	
Endrin	TW	< 0.05	< 0.05	0.0%	< 0.05	131%	50%	140%	104%	50%	140%	92%	50%	140%	
Methoxychlor	TW	< 0.04	< 0.04	0.0%	< 0.04	115%	50%	140%	90%	50%	140%	98%	50%	140%	
Hexachlorobenzene	TW	< 0.01	< 0.01	0.0%	< 0.01	116%	50%	140%	100%	50%	140%	111%	50%	140%	
Hexachlorobutadiene	TW	< 0.01	< 0.01	0.0%	< 0.01	106%	50%	140%	136%	50%	140%	85%	50%	140%	
Hexachloroethane	TW	< 0.01	< 0.01	0.0%	< 0.01	120%	50%	140%	105%	50%	140%	95%	50%	140%	

Comments: TW: Tap water analysis has been performed as QC sample testing for duplicate and matrix spike due to insufficient sample volume.

OP Pesticides (Water)															
Phorate	TW	< 0.5	< 0.5	0.0%	< 0.5	76%	60%	140%	89%	60%	140%	99%	60%	140%	
Dimethoate	TW	< 2.5	< 2.5	0.0%	< 2.5	74%	60%	140%	62%	60%	140%	126%	60%	140%	
Terbufos	TW	< 0.5	< 0.5	0.0%	< 0.5	80%	60%	140%	78%	60%	140%	92%	60%	140%	
Diazinon	TW	< 0.17	< 0.17	0.0%	< 1	73%	60%	140%	93%	60%	140%	89%	60%	140%	
Malathion	TW	< 0.1	< 0.1	0.0%	< 5	75%	60%	140%	79%	60%	140%	101%	60%	140%	
Chlorpyrifos	TW	< 0.002	< 0.002	0.0%	< 1	94%	60%	140%	86%	60%	140%	83%	60%	140%	
Parathion	TW	< 0.013	< 0.013	0.0%	< 1	86%	60%	140%	79%	60%	140%	106%	60%	140%	
Azinphos-methyl	TW	< 0.01	< 0.01	0.0%	< 2	88%	60%	140%	102%	60%	140%	115%	60%	140%	

Comments: TW: Tap water analysis has been performed as QC sample testing for duplicate and matrix spike due to insufficient sample volume.

Certified By:

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Results relate only to the items tested and to all the items tested

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: AQUAFOR BEECH LTD

AGAT WORK ORDER: 15W009798

PROJECT: alfreedo

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

Water Analysis

RPT Date: Aug 31, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Inorganic Chemistry (Water)															
Total Suspended Solids	6889018		<10	<10	0.0%	< 10	102%	80%	120%	NA			NA		
Chloride	6890381	6890381	282	282	0.0%	< 0.10	102%	90%	110%	105%	90%	110%	100%	80%	120%
Total Phosphorus	6893030		0.08	0.08	0.0%	< 0.02	96%	90%	110%	95%	90%	110%	94%	80%	120%
Sodium	6889180		1.16	1.12	3.5%	< 0.05	101%	90%	110%	100%	90%	110%	102%	70%	130%
Comments: NA signifies Not Applicable															
O. Reg. 153(511) - Metals (Comprehensive) (Water)															
Antimony	6885078		<0.5	<0.5	0.0%	< 0.5	101%	70%	130%	85%	80%	120%	105%	70%	130%
Arsenic	6885078		<1.0	<1.0	0.0%	< 1.0	101%	70%	130%	103%	80%	120%	112%	70%	130%
Barium	6885078		38.9	42.4	8.6%	< 2.0	106%	70%	130%	99%	80%	120%	111%	70%	130%
Beryllium	6885078		<0.5	<0.5	0.0%	< 0.5	97%	70%	130%	103%	80%	120%	108%	70%	130%
Boron	6885078		<10.0	<10.0	0.0%	< 10.0	98%	70%	130%	104%	80%	120%	105%	70%	130%
Cadmium	6885078		<0.2	<0.2	0.0%	< 0.2	99%	70%	130%	100%	80%	120%	100%	70%	130%
Chromium	6885078		2.9	2.8	3.5%	< 2.0	100%	70%	130%	107%	80%	120%	104%	70%	130%
Cobalt	6885078		0.6	0.6	0.0%	< 0.5	98%	70%	130%	108%	80%	120%	102%	70%	130%
Copper	6885078		<1.0	<1.0	0.0%	< 1.0	102%	70%	130%	109%	80%	120%	106%	70%	130%
Lead	6885078		<0.5	<0.5	0.0%	< 0.5	104%	70%	130%	103%	80%	120%	105%	70%	130%
Molybdenum	6885078		0.6	0.6	0.0%	< 0.5	99%	70%	130%	96%	80%	120%	103%	70%	130%
Nickel	6885078		1.4	1.3	7.4%	< 1.0	98%	70%	130%	106%	80%	120%	102%	70%	130%
Selenium	6885078		<1.0	<1.0	0.0%	< 1.0	98%	70%	130%	101%	80%	120%	111%	70%	130%
Silver	6885078		<0.2	<0.2	0.0%	< 0.2	103%	70%	130%	112%	80%	120%	107%	70%	130%
Thallium	6885078		<0.3	<0.3	0.0%	< 0.3	105%	70%	130%	100%	80%	120%	102%	70%	130%
Uranium	6885078		<0.5	<0.5	0.0%	< 0.5	103%	70%	130%	105%	80%	120%	109%	70%	130%
Vanadium	6885078		0.7	0.6	15.4%	< 0.4	104%	70%	130%	109%	80%	120%	102%	70%	130%
Zinc	6885078		<5.0	<5.0	0.0%	< 5.0	99%	70%	130%	106%	80%	120%	103%	70%	130%

Certified By:

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5835 COOPERS AVENUE
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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: AQUAFOR BEECH LTD

AGAT WORK ORDER: 15W009798

PROJECT: alfreedo

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Microbiology Analysis			
Escherichia coli	MIC-93-7010	EPA 1604	Membrane Filtration
Trace Organics Analysis			
Gamma-Hexachlorocyclohexane	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Heptachlor	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Aldrin	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Heptachlor Epoxide	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Endosulfan	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Chlordane	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
DDE	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
DDD	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
DDT	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Dieldrin	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Endrin	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Methoxychlor	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Hexachlorobenzene	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Hexachlorobutadiene	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Hexachloroethane	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
TCMX	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Decachlorobiphenyl	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Phorate	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Dimethoate	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Terbufos	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Diazinon	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Malathion	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Chlorpyrifos	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Parathion	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Azinphos-methyl	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Methyl Parathion	ORG 5509	EPA SW-846 3510C & 8270	GC/MS

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CANADA L4Z 1Y2
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Method Summary

CLIENT NAME: AQUAFOR BEECH LTD

AGAT WORK ORDER: 15W009798

PROJECT: alfreedo

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Total Suspended Solids	INOR-93-6028	SM 2540 D	BALANCE
Chloride	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Total Phosphorus	INOR-93-6022	SM 4500-P B&E	SPECTROPHOTOMETER
Sodium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Antimony	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Barium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Boron	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Cadmium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Chromium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Copper	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Lead	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Nickel	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Selenium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Silver	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Thallium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Uranium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Zinc	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS

Results relate only to the items tested and to all the items tested

AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
agatlabs.com webearth.agatlabs.com

Short Holding Time

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Laboratory Use Only

Work Order #: 1SW009798

Cooler Quantity:

Arrival Temperatures: 8.9 | 8.7 | 7.9

Custody Seal Intact: ☐Yes ☐No ☒N/A

Notes: on ice

Report Information:

Company: Aquafor Beech Ltd.
Contact: Abdul SAMADI
Address:
Phone: 9056290099 (302) Fax: 905 629-0089
Reports to be sent to:
1. Email: samadi.a@aquaforbeech.com
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ No Regulatory Requirement

☐ Regulation 153/04
Table ___ (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☐ Sewer Use
☐ Sanitary ☐ Storm
Region ___ (Indicate One)

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other ___ (Indicate One)

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day

OR Date Required (Rush Surcharges May Apply): ___

Please provide prior notification for rush TAT
*TAT is exclusive of weekends and statutory holidays

Project Information:

Project: Al Freeda
Site Location: Hamilton
Sampled By: Abdul
AGAT Quote #: 58276 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact:
Address:
Email:

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	(Check Applicable) ORPs: ☐B-HWS ☐Cl⁻ ☐CN⁻ ☐Cr⁶⁺ ☐EC ☐FOC ☐NO_3/NO_2 ☐Total N ☐Hg ☐pH ☐SAR	Nutrients: ☐TP ☐NH_3 ☐TKN ☐NO_3 ☐NO_2 ☐NO_3/NO_2	Volatiles: ☐VOC ☐BTEX ☐THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use	Ref Quote 58276
1	8/20	10:45	6	SW																✓
2	8/20	11:15	6	SW																✓
3	8/20	11:45	6	SW																✓

Samples Relinquished By (Print Name and Sign): Rebecca Vito R Vito
Date: 8/20/15 Time: 3:30
Samples Received By (Print Name and Sign): M. Kelly Maggie Kelly
Date: 2015/8/20 Time: 3:30pm

Samples Relinquished By (Print Name and Sign):
Date: Aug 22 Time: 10:05
Samples Received By (Print Name and Sign):

Page 1 of 1
N°: T009449

Pink Copy - Client | Yellow Copy - AGAT | White Copy- AGAT

Document ID: DIV-78-1511.009 Date Issued: Jan 8, 2015

5835 COOPERS AVENUE
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http://www.agatlabs.com

CLIENT NAME: AQUAFOR BEECH LTD
2600 SKYMARK AVE, BUILDING#6, SUITE 202
MISSISSAUGA, ON N1K1B6
(905) 629-0099

ATTENTION TO: Abdul Samadj

PROJECT: Al Frida

AGAT WORK ORDER: 15W026997

MICROBIOLOGY ANALYSIS REVIEWED BY: Inesa Alizarchyk, Inorganic Lab Supervisor

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Sofka Pehlyova, Senior Analyst

DATE REPORTED: Oct 13, 2015

PAGES (INCLUDING COVER): 13

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request

Certificate of Analysis

AGAT WORK ORDER: 15W026997

PROJECT: Al Frida

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:Abdul

Microbiological Analysis (water)

DATE RECEIVED: 2015-09-29

DATE REPORTED: 2015-10-13

				SAMPLE DESCRIPTION:	1	2	3
				SAMPLE TYPE:	Water	Water	Water
				DATE SAMPLED:	9/29/2015	9/29/2015	9/29/2015
Parameter		Unit	G / S	RDL	7054819	7054873	7054881
Escherichia coli		CFU/100mL	0	2	52	ND	6

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to SDWA - Microbiology

7054819 RDL >1 indicates dilutions of the sample.
Sample was analyzed past holding time

7054873 RDL >1 indicates dilutions of the sample.
ND - Not Detected.
Sample was analyzed past holding time

7054881 RDL >1 indicates dilutions of the sample.
Sample was analyzed past holding time

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 15W026997

PROJECT: Al Frida

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CANADA L4Z 1Y2
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CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:Abdul

OC Pesticides (Water)

DATE RECEIVED: 2015-09-29

DATE REPORTED: 2015-10-13

		SAMPLE DESCRIPTION:		1	2	3
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		9/29/2015	9/29/2015	9/29/2015
Parameter	Unit	G / S	RDL	7054819	7054873	7054881
Gamma-Hexachlorocyclohexane	µg/L		0.01	<0.01	<0.01	<0.01
Heptachlor	µg/L		0.01	<0.01	<0.01	<0.01
Aldrin	µg/L		0.01	<0.01	<0.01	<0.01
Heptachlor Epoxide	µg/L		0.01	<0.01	<0.01	<0.01
Endosulfan	µg/L		0.05	<0.05	<0.05	<0.05
Chlordane	µg/L		0.04	<0.04	<0.04	<0.04
DDE	µg/L		0.01	<0.01	<0.01	<0.01
DDD	µg/L		0.05	<0.05	<0.05	<0.05
DDT	µg/L		0.04	<0.04	<0.04	<0.04
Dieldrin	µg/L		0.02	<0.02	<0.02	<0.02
Endrin	µg/L		0.05	<0.05	<0.05	<0.05
Methoxychlor	µg/L		0.04	<0.04	<0.04	<0.04
Hexachlorobenzene	ug/L		0.01	<0.01	<0.01	<0.01
Hexachlorobutadiene	ug/L		0.01	<0.01	<0.01	<0.01
Hexachloroethane	ug/L		0.01	<0.01	<0.01	<0.01
alpha - chlordane	µg/L		0.1	<0.1	<0.1	<0.1
gamma-Chlordane	µg/L		0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L		0.05	<0.05	<0.05	<0.05
Endosulfan II	µg/L		0.05	<0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits				
TCMX	%	50-140		98	117	101
Decachlorobiphenyl	%	60-140		115	119	98

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

7054819-7054881 Note: DDT applies to the total of op'DDT and pp'DDT, DDD applies to the total of op'DDD and pp'DDD and DDE applies to the total of op'DDE and pp'DDE. Endosulfan applies to the total of Endosulfan I and Endosulfan II.
Chlordane applies to the total of Alpha-Chlordane and Gamma-Chlordane.

Certified By:

Results relate only to the items tested and to all the items tested

Certificate of Analysis

AGAT WORK ORDER: 15W026997

PROJECT: Al Frida

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CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:Abdul

OP Pesticides (Water)

DATE RECEIVED: 2015-09-29

DATE REPORTED: 2015-10-13

		SAMPLE DESCRIPTION:		1	2	3
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		9/29/2015	9/29/2015	9/29/2015
Parameter	Unit	G / S	RDL	7054819	7054873	7054881
Phorate	µg/L		0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L		2.5	<2.5	<2.5	<2.5
Terbufos	µg/L		0.5	<0.5	<0.5	<0.5
Diazinon	µg/L		1	<1	<1	<1
Malathion	µg/L		5	<5	<5	<5
Chlorpyrifos	µg/L		1	<1	<1	<1
Parathion	µg/L		1	<1	<1	<1
Azinphos-methyl	µg/L		2	<2	<2	<2
Methyl Parathion	ug/L		0.5	<0.5	<0.5	<0.5

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ODWS - Table D

7054819-7054881 Results relate only to the items tested.

Certified By:

Results relate only to the items tested and to all the items tested

Certificate of Analysis

AGAT WORK ORDER: 15W026997

PROJECT: Al Frida

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http://www.agatlabs.com

CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:Abdul

Inorganic Chemistry (Water)

DATE RECEIVED: 2015-09-29

DATE REPORTED: 2015-10-13

		SAMPLE DESCRIPTION:		1	2		3
		SAMPLE TYPE:		Water	Water		Water
		DATE SAMPLED:		9/29/2015	9/29/2015		9/29/2015
Parameter	Unit	G / S	RDL	7054819	7054873	RDL	7054881
Total Suspended Solids	µg/L		10000	11000	10500	10000	10500
Chloride	µg/L		1000	192000	475000	2000	448000
Total Phosphorus	µg/L		20	248	66	20	121
Sodium	µg/L		250	114000	281000	250	247000

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

7054819-7054881 Chloride & Sodium Analysis: Samples required dilutions prior to analysis in order to minimize matrix interference, and to keep the analytes within the valid calibration range of the instruments; the RDLs were adjusted accordingly.

Certified By:

Results relate only to the items tested and to all the items tested

Certificate of Analysis

AGAT WORK ORDER: 15W026997

PROJECT: Al Frida

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
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CLIENT NAME: AQUAFOR BEECH LTD

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:Abdul

O. Reg. 153(511) - Metals (Comprehensive) (Water)

DATE RECEIVED: 2015-09-29

DATE REPORTED: 2015-10-13

SAMPLE DESCRIPTION:				1	2	3
SAMPLE TYPE:				Water	Water	Water
DATE SAMPLED:				9/29/2015	9/29/2015	9/29/2015
Parameter	Unit	G / S	RDL	7054819	7054873	7054881
Antimony	µg/L		0.5	0.6	<0.5	<0.5
Arsenic	µg/L		1.0	1.1	1.0	4.1
Barium	µg/L		2.0	79.1	42.0	118
Beryllium	µg/L		0.5	<0.5	<0.5	<0.5
Boron	µg/L		10.0	120	78.0	68.5
Cadmium	µg/L		0.2	<0.2	<0.2	<0.2
Chromium	µg/L		2.0	7.5	5.9	10.2
Cobalt	µg/L		0.5	0.6	<0.5	1.0
Copper	µg/L		1.0	3.1	3.7	1.8
Lead	µg/L		0.5	1.2	<0.5	0.5
Molybdenum	µg/L		0.5	2.6	1.6	2.6
Nickel	µg/L		1.0	<1.0	1.1	2.6
Selenium	µg/L		1.0	2.6	<1.0	1.8
Silver	µg/L		0.2	<0.2	<0.2	<0.2
Thallium	µg/L		0.3	<0.3	<0.3	<0.3
Uranium	µg/L		0.5	3.8	0.6	2.3
Vanadium	µg/L		0.4	2.2	2.4	3.1
Zinc	µg/L		5.0	11.2	<5.0	5.9

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T1(All-GW)

Certified By:

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Guideline Violation

AGAT WORK ORDER: 15W026997

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SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
7054819	1	SDWA - Microbiology	Microbiological Analysis (water)	Escherichia coli	0	52
7054881	3	SDWA - Microbiology	Microbiological Analysis (water)	Escherichia coli	0	6

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Quality Assurance

CLIENT NAME: AQUAFOR BEECH LTD

AGAT WORK ORDER: 15W026997

PROJECT: Al Frida

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SAMPLING SITE:

SAMPLED BY:Abdul

Microbiology Analysis

RPT Date: Oct 13, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Microbiological Analysis (water)															
Escherichia coli	1		4	4	NA	< 1									

Comments: NA - % RPD Not Reportable based on the number of colonies count acceptable for RPD calculation

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Quality Assurance

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SAMPLING SITE:

SAMPLED BY:Abdul

Trace Organics Analysis

RPT Date: Oct 13, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
OP Pesticides (Water)															
Phorate		TW	< 0.5	< 0.5	0.0%	< 0.5	75%	60%	140%	103%	60%	140%	106%	60%	140%
Dimethoate		TW	< 2.5	< 2.5	0.0%	< 2.5	75%	60%	140%	97%	60%	140%	65%	60%	140%
Terbufos		TW	< 0.5	< 0.5	0.0%	< 0.5	81%	60%	140%	103%	60%	140%	94%	60%	140%
Diazinon		TW	< 1	< 1	0.0%	< 1	72%	60%	140%	108%	60%	140%	80%	60%	140%
Malathion		TW	< 5	< 5	0.0%	< 5	78%	60%	140%	99%	60%	140%	80%	60%	140%
Chlorpyrifos		TW	< 1	< 1	0.0%	< 1	96%	60%	140%	104%	60%	140%	87%	60%	140%
Parathion		TW	< 1	< 1	0.0%	< 1	88%	60%	140%	89%	60%	140%	75%	60%	140%
Azinphos-methyl		TW	< 2	< 2	0.0%	< 2	84%	60%	140%	84%	60%	140%	60%	60%	140%
Methyl Parathion		TW	< 0.5	< 0.5	0.0%	< 0.5	NA	70%	130%	84%	70%	130%	86%	70%	130%
Comments: TW: Tap water analysis has been performed as QC sample testing for duplicate and matrix spike due to insufficient sample volume.															
OC Pesticides (Water)															
Gamma-Hexachlorocyclohexane	7040173		< 0.01	< 0.01	0.0%	< 0.01	88%	50%	140%	84%	50%	140%	80%	50%	140%
Heptachlor	7040173		< 0.01	< 0.01	0.0%	< 0.01	89%	50%	140%	89%	50%	140%	85%	50%	140%
Aldrin	7040173		< 0.01	< 0.01	0.0%	< 0.01	84%	50%	140%	96%	50%	140%	90%	50%	140%
Heptachlor Epoxide	7040173		< 0.01	< 0.01	0.0%	< 0.01	86%	50%	140%	84%	50%	140%	81%	50%	140%
Endosulfan	7040173		< 0.05	< 0.05	0.0%	< 0.05	102%	50%	140%	101%	50%	140%	90%	50%	140%
Chlordane	7040173		< 0.04	< 0.04	0.0%	< 0.04	96%	50%	140%	100%	50%	140%	95%	50%	140%
DDE	7040173		< 0.01	< 0.01	0.0%	< 0.01	99%	50%	140%	85%	50%	140%	80%	50%	140%
DDD	7040173		< 0.05	< 0.05	0.0%	< 0.05	101%	50%	140%	110%	50%	140%	96%	50%	140%
DDT	7040173		< 0.04	< 0.04	0.0%	< 0.04	93%	50%	140%	95%	50%	140%	90%	50%	140%
Dieldrin	7040173		< 0.02	< 0.02	0.0%	< 0.02	90%	50%	140%	93%	50%	140%	85%	50%	140%
Endrin	7040173		< 0.05	< 0.05	0.0%	< 0.05	84%	50%	140%	86%	50%	140%	80%	50%	140%
Methoxychlor	7040173		< 0.04	< 0.04	0.0%	< 0.04	77%	50%	140%	86%	50%	140%	80%	50%	140%
Hexachlorobenzene	7040173		< 0.01	< 0.01	0.0%	< 0.01	93%	50%	140%	83%	50%	140%	83%	50%	140%
Hexachlorobutadiene	7040173		< 0.01	< 0.01	0.0%	< 0.01	112%	50%	140%	106%	50%	140%	99%	50%	140%
Hexachloroethane	7040173		< 0.01	< 0.01	0.0%	< 0.01	109%	50%	140%	105%	50%	140%	85%	50%	140%
alpha - chlordane	7040143		< 0.1	< 0.1	0.0%	< 0.1	98%	60%	140%	106%	60%	140%	93%	60%	140%
gamma-Chlordane	7040143		< 0.2	< 0.2	0.0%	< 0.2	99%	60%	140%	106%	60%	140%	101%	60%	140%
Endosulfan I	7040143		< 0.05	< 0.05	0.0%	< 0.05	101%	60%	140%	108%	60%	140%	99%	60%	140%
Endosulfan II	7040143		<	<	0.0%	<	93%	60%	140%	104%	60%	140%	98%	60%	140%

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Quality Assurance

CLIENT NAME: AQUAFOR BEECH LTD
AGAT WORK ORDER: 15W026997
PROJECT: Al Frida
ATTENTION TO: Abdul Samadj
SAMPLING SITE:
SAMPLED BY:Abdul

Water Analysis

RPT Date: Oct 13, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Inorganic Chemistry (Water)															
Total Suspended Solids	7054819	7054819	11000	12000	8.6%	< 10000	96%	80%	120%	NA			NA		
Chloride	7057672		107000	102000	4.8%	< 100	99%	90%	110%	104%	90%	110%	100%	80%	120%
Total Phosphorus	7058582		0.09	0.09	0.0%	< 20	98%	90%	110%	94%	90%	110%	96%	80%	120%
Sodium	7054359		1280	1280	0.0%	< 50	101%	90%	110%	101%	90%	110%	98%	70%	130%
O. Reg. 153(511) - Metals (Comprehensive) (Water)															
Antimony	7057296		<0.5	<0.5	0.0%	< 0.5	103%	70%	130%	99%	80%	120%	108%	70%	130%
Arsenic	7057296		<1.0	<1.0	0.0%	< 1.0	106%	70%	130%	100%	80%	120%	116%	70%	130%
Barium	7057296		6.8	7.7	12.4%	< 2.0	100%	70%	130%	97%	80%	120%	102%	70%	130%
Beryllium	7057296		<0.5	<0.5	0.0%	< 0.5	110%	70%	130%	104%	80%	120%	109%	70%	130%
Boron	7057296		<10.0	<10.0	0.0%	< 10.0	104%	70%	130%	99%	80%	120%	107%	70%	130%
Cadmium	7057296		<0.2	<0.2	0.0%	< 0.2	98%	70%	130%	101%	80%	120%	108%	70%	130%
Chromium	7057296		<2.0	<2.0	0.0%	< 2.0	99%	70%	130%	100%	80%	120%	103%	70%	130%
Cobalt	7057296		<0.5	<0.5	0.0%	< 0.5	95%	70%	130%	95%	80%	120%	95%	70%	130%
Copper	7057296		<1.0	<1.0	0.0%	< 1.0	101%	70%	130%	99%	80%	120%	103%	70%	130%
Lead	7057296		<0.5	<0.5	0.0%	< 0.5	97%	70%	130%	96%	80%	120%	96%	70%	130%
Molybdenum	7057296		<0.5	<0.5	0.0%	< 0.5	99%	70%	130%	97%	80%	120%	108%	70%	130%
Nickel	7057296		<1.0	<1.0	0.0%	< 1.0	105%	70%	130%	106%	80%	120%	105%	70%	130%
Selenium	7057296		<1.0	<1.0	0.0%	< 1.0	100%	70%	130%	95%	80%	120%	118%	70%	130%
Silver	7057296		<0.2	<0.2	0.0%	< 0.2	101%	70%	130%	111%	80%	120%	118%	70%	130%
Thallium	7057296		<0.3	<0.3	0.0%	< 0.3	105%	70%	130%	103%	80%	120%	104%	70%	130%
Uranium	7057296		<0.5	<0.5	0.0%	< 0.5	107%	70%	130%	98%	80%	120%	101%	70%	130%
Vanadium	7057296		<0.4	<0.4	0.0%	< 0.4	91%	70%	130%	95%	80%	120%	97%	70%	130%
Zinc	7057296		<5.0	<5.0	0.0%	< 5.0	100%	70%	130%	99%	80%	120%	102%	70%	130%

Comments: NA signifies Not Applicable.

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Method Summary

CLIENT NAME: AQUAFOR BEECH LTD

AGAT WORK ORDER: 15W026997

PROJECT: Al Frida

ATTENTION TO: Abdul Samadj

SAMPLING SITE:

SAMPLED BY:Abdul

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Microbiology Analysis			
Escherichia coli	MIC-93-7010	EPA 1604	Membrane Filtration
Trace Organics Analysis			
Gamma-Hexachlorocyclohexane	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Heptachlor	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Aldrin	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Heptachlor Epoxide	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Endosulfan	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Chlordane	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
DDE	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
DDD	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
DDT	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Dieldrin	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Endrin	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Methoxychlor	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Hexachlorobenzene	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Hexachlorobutadiene	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Hexachloroethane	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
alpha - chlordane	ORG 5504	EPA SW-846 3510C & 8270 & MOE E3121	(P&T)GC/FID
gamma-Chlordane	ORG 5007	EPA SW-846 8081A & 8082	GC/MS & GC/ECD
Endosulfan I	ORG 5007	EPA SW-846 3510 & 8081	GC/ECD
Endosulfan II	ORG 5007	EPA SW-846 8081A & 8082	GC/MS & GC/ECD
TCMX	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Decachlorobiphenyl	ORG-91-5112	EPA SW-846 3510 & 8081	GC/ECD
Phorate	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Dimethoate	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Terbufos	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Diazinon	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Malathion	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Chlorpyrifos	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Parathion	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Azinphos-methyl	ORG-91-5103	EPA SW-846 3510C & 8270 & 8141A	GC/MS
Methyl Parathion	ORG 5509	EPA SW-846 3510C & 8270	GC/MS

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Method Summary

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PROJECT: Al Frida

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SAMPLING SITE:

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Total Suspended Solids	INOR-93-6028	SM 2540 D	BALANCE
Chloride	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Total Phosphorus	INOR-93-6022	SM 4500-P B&E	SPECTROPHOTOMETER
Sodium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Antimony	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Barium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Boron	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Cadmium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Chromium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Copper	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Lead	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Nickel	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Selenium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Silver	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Thallium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Uranium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Zinc	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS

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