

TEST REPORT

Report No: AWRCL/PRTR/17532 /20-21

Date: 07.08.2020

CUSTOMER DETAILS	SAMPLE DETAILS	TEST METHOD
Name & Address: Kind Attn: Dr. Christoph Kellenberger Novamem AG Rütistrasse 16 8952 Schlieren Switzerland	Sample received:10.07.2019	As agreed between testing laboratory and the customer
	Sample code no: AWRCL/17532/20-21	
	Sample Description: Carbon Disc Filter	
	Sample Quantity for Testing: 1 No	
	Submitted by : Novamem – AG, Switzerland	
	Date of Analysis started : 03.08.2020	
	Date of Analysis Completed:07.08.2020	
Subcontract : Not Applicable		
	Sample condition when received : Intact	

TEST SETUP PICTURE



TEST CONDITIONS:

Test flow rate: 2.0LPM

Running cycle: 20 min ON/ 20 Min OFF

Filtration volume per day: 200 Lit/day

Working Pressure: 60 ± 3 PSI

Estimated capacity: 600L

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Note:

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TEST DATA: PESTICIDES REDUCTION at 2.0LPM Flow rate (initially)

Volume of Filtration Liters	Atrazine		Lindane		Malathion		Chlorpyrifos		Flow Rate Lit/min
	Influent water concentration µg/L	Effluent water concentration µg/L	Influent water concentration µg/L	Effluent water concentration µg/L	Influent water concentration µg/L	Effluent water concentration µg/L	Influent water concentration µg/L	Effluent water concentration µg/L	
Initial 10L	2.15	0.14	1.85	0.10	1.85	0.09	1.92	0.12	2.0
50L	2.24	0.13	2.23	0.12	2.40	0.20	2.24	0.23	2.0
125L	2.28	0.11	1.89	0.09	1.88	0.09	1.99	0.18	2.0
250L	2.15	0.28	2.14	0.26	2.21	0.24	2.14	0.31	2.0
375L	2.16	0.29	2.35	0.26	2.38	0.16	2.17	0.35	1.92
500L	2.19	0.71	2.35	0.62	2.30	0.32	2.25	0.70	1.64
600L	2.01	0.77	2.15	0.64	2.17	0.34	2.14	0.71	1.20
Average	2.17	0.35	2.13	0.29	2.17	0.2	2.12	0.37	1.82
Customized requirement	2.0	≤0.2	2.0	≤0.2	2.0	≤0.2	2.0	≤0.2	---

TEST DATA: PESTICIDES REDUCTION at 2.0LPM Flow rate (initially)

Volume of Filtration Liters	Endosulfan α		Endosulfan β		Flow Rate LPM
	Influent water concentration µg/L	Effluent water concentration µg/L	Influent water concentration µg/L	Effluent water concentration µg/L	
Initial 10L	1.94	0.11	1.97	0.14	2.0
50L	1.89	0.23	2.10	0.17	2.0
125L	1.98	0.07	1.95	0.19	2.0
250L	2.18	0.18	2.02	0.25	2.0
375L	2.37	0.15	1.90	0.28	1.92
500L	1.80	0.53	2.26	0.58	1.64
600L	2.08	0.50	2.06	0.61	1.20
Average	2.03	0.25	2.03	0.32	1.82
Customized requirement	2.0	≤0.2	2.0	≤0.2	---

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COMPOSITION OF TEST WATER

Test water Characteristic	NSF/ANSI 53 requirement	Tank 1	Tank 2	Tank 3
pH	7.5 ±0.5	7.51	7.66	7.71
TDS mg/L	200-500	256	266	282
TOC mg/L	≥1	≥1	≥1	≥1
Turbidity NTU	<1	<1	<1	<1
Temperature °C	20±2.5	20	20	20

ANALYSIS

Test water Characteristic	Test Method
pH	APHA 23 rd edn 4500 H+B
TDS mg/L	Calibrated TDS meter
TOC mg/L	HACH DR 2800 Spectrophotometer
Turbidity NTU	APHA 23 rd edn 2130 B
Temperature °C	Calibrated thermometer
Pesticides	GCMS method



Dr S. MURALIDHARA RAO
Head – Laboratory

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