



Microbac Laboratories, Inc., Sayre Division

CERTIFICATE OF ANALYSIS

S0C0301

Client Sample ID: Filter Plant	Collected By: Rose Martino
Sample Matrix: Drinking Water	Collection Date: 04/06/2020 13:00
Lab Sample ID: S0C0301-01	

Volatile Organic Compounds by GC/ECD	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 504.1, Rv. 1.1 (1995)								
1,2-Dibromo-3-chloropropane (DBCP) [2C]	<0.0100	0.200 MCL	0.0100	ug/L		04/10/20 0800	04/11/20 0158	GEG
1,2-Dibromoethane (Ethylene dibromide, EDB) [2C]	<0.0100	0.0500 MCL	0.0100	ug/L		04/10/20 0800	04/11/20 0158	GEG
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	75.0	Limit: 70-130		% Rec		04/10/20 0800	04/11/20 0158	GEG

Volatile Organic Compounds by GCMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv. 4.1 (1995)								
Benzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Bromodichloromethane	7.28		0.50	ug/L			04/10/20 2036	RSD
Bromoform	<0.50		0.50	ug/L			04/10/20 2036	RSD
Bromomethane	<0.50		0.50	ug/L			04/10/20 2036	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Chloroform	9.16		0.50	ug/L			04/10/20 2036	RSD
Chloromethane	<0.50		0.50	ug/L			04/10/20 2036	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Dibromochloromethane	3.16		0.50	ug/L			04/10/20 2036	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD

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Volatile Organic Compounds by GCMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Styrene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			04/10/20 2036	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			04/10/20 2036	RSD
Surrogate: 4-Bromofluorobenzene	104	Limit: 70-130		% Rec			04/10/20 2036	RSD
Surrogate: 1,2-Dichlorobenzene-d4	101	Limit: 70-130		% Rec			04/10/20 2036	RSD

Herbicides by GC/ECD	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 515.3, Rv. 1 (1996)								
2,4-D [2C]	<0.100	70.0 MCL	0.100	ug/L		04/09/20 0900	04/09/20 2131	CKC
Dalapon [2C]	<1.00	200 MCL	1.00	ug/L		04/09/20 0900	04/09/20 2131	CKC
Dicamba [2C]	<0.100		0.100	ug/L		04/09/20 0900	04/09/20 2131	CKC

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Lab Sample ID: S0C0301-01	

Herbicides by GC/ECD	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP) [2C]	<0.200	7.00 MCL	0.200	ug/L		04/09/20 0900	04/09/20 2131	CKC
Pentachlorophenol [2C]	<0.0400	1.00 MCL	0.0400	ug/L		04/09/20 0900	04/09/20 2131	CKC
Picloram [2C]	<0.100	500 MCL	0.100	ug/L		04/09/20 0900	04/09/20 2131	CKC
2,4,5-TP (Silvex) [2C]	<0.200	50.0 MCL	0.200	ug/L		04/09/20 0900	04/09/20 2131	CKC
Surrogate: 2,4-Dichloropenylacetic acid	107	Limit: 70-130		% Rec		04/09/20 0900	04/09/20 2131	CKC
Surrogate: 2,4-Dichloropenylacetic acid [2C]	108	Limit: 70-130		% Rec		04/09/20 0900	04/09/20 2131	CKC

Pesticides and Polychlorinated Biphenyls (PCBs) by GC/ECD	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 505, Rv. 2.1 (1995)								
Chlordane (tech.) [2C]	<0.200	2.00 MCL	0.200	ug/L		04/10/20 0800	04/10/20 1832	GEG
Dieldrin [2C]	<0.0200		0.0200	ug/L		04/10/20 0800	04/10/20 1832	GEG
Endrin [2C]	<0.0100	2.00 MCL	0.0100	ug/L		04/10/20 0800	04/10/20 1832	GEG
Toxaphene [2C]	<1.00	3.00 MCL	1.00	ug/L		04/10/20 0800	04/10/20 1832	GEG
Aroclor-1016 (PCB-1016) [2C]	<0.0800		0.0800	ug/L		04/10/20 0800	04/10/20 1832	GEG
Aroclor-1221 (PCB-1221) [2C]	<20.0		20.0	ug/L		04/10/20 0800	04/10/20 1832	GEG
Aroclor-1232 (PCB-1232) [2C]	<0.500		0.500	ug/L		04/10/20 0800	04/10/20 1832	GEG
Aroclor-1242 (PCB-1242) [2C]	<0.300		0.300	ug/L		04/10/20 0800	04/10/20 1832	GEG
Aroclor-1248 (PCB-1248) [2C]	<0.100		0.100	ug/L		04/10/20 0800	04/10/20 1832	GEG
Aroclor-1254 (PCB-1254) [2C]	<0.100		0.100	ug/L		04/10/20 0800	04/10/20 1832	GEG
Aroclor-1260 (PCB-1260) [2C]	<0.100		0.100	ug/L		04/10/20 0800	04/10/20 1832	GEG
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	74.0	Limit: 70-130		% Rec		04/10/20 0800	04/10/20 1832	GEG

Herbicides by HPLC	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 531.2, Rv. 1 (2001)								
Aldicarb sulfoxide	<0.500		0.500	ug/L		04/13/20 1121	04/14/20 0111	IMM
Aldicarb sulfone	<0.800		0.800	ug/L		04/13/20 1121	04/14/20 0111	IMM
Oxamyl	<2.00	200 MCL	2.00	ug/L		04/13/20 1121	04/14/20 0111	IMM
Methomyl (Lannate)	<0.500		0.500	ug/L		04/13/20 1121	04/14/20 0111	IMM
3-Hydroxycarbofuran	<0.500		0.500	ug/L		04/13/20 1121	04/14/20 0111	IMM
Aldicarb (Temik)	<0.500		0.500	ug/L		04/13/20 1121	04/14/20 0111	IMM
Carbofuran (Furaden)	<0.900	40.0 MCL	0.900	ug/L		04/13/20 1121	04/14/20 0111	IMM
Carbaryl (Sevin)	<0.500		0.500	ug/L		04/13/20 1121	04/14/20 0111	IMM
Surrogate: 4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	88.3	Limit: 70-130		% Rec		04/13/20 1121	04/14/20 0111	IMM

Semivolatile Organic Compounds by GCMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 525.2, Rv. 2 (1995)

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SOC0301

Client Sample ID: Filter Plant	Collected By: Rose Martino
Sample Matrix: Drinking Water	Collection Date: 04/06/2020 13:20
Lab Sample ID: SOC0301-01	

Semivolatile Organic Compounds by GCMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Alachlor	<0.192	2.00 MCL	0.192	ug/L		04/10/20 1000	04/14/20 1123	GMP
Aldrin	<0.096		0.096	ug/L		04/10/20 1000	04/14/20 1123	GMP
Atrazine	<0.096	3.00 MCL	0.096	ug/L		04/10/20 1000	04/14/20 1123	GMP
Benzo[a]pyrene	<0.019	0.200 MCL	0.019	ug/L		04/10/20 1000	04/14/20 1123	GMP
gamma-BHC (Lindane)	<0.019	0.200 MCL	0.019	ug/L		04/10/20 1000	04/14/20 1123	GMP
Butachlor	<0.096		0.096	ug/L		04/10/20 1000	04/14/20 1123	GMP
bis(2-Ethylhexyl)adipate	<0.577	400 MCL	0.577	ug/L		04/10/20 1000	04/14/20 1123	GMP
bis(2-Ethylhexyl)phthalate	<0.577	6.00 MCL	0.577	ug/L		04/10/20 1000	04/14/20 1123	GMP
Heptachlor	<0.038	0.400 MCL	0.038	ug/L		04/10/20 1000	04/14/20 1123	GMP
Heptachlor epoxide	<0.019	0.200 MCL	0.019	ug/L		04/10/20 1000	04/14/20 1123	GMP
Hexachlorobenzene	<0.096	1.00 MCL	0.096	ug/L		04/10/20 1000	04/14/20 1123	GMP
Hexachlorocyclopentadiene	<0.096	50.0 MCL	0.096	ug/L		04/10/20 1000	04/14/20 1123	GMP
Methoxychlor	<0.096	40.0 MCL	0.096	ug/L		04/10/20 1000	04/14/20 1123	GMP
Metolachlor	<0.096		0.096	ug/L		04/10/20 1000	04/14/20 1123	GMP
Metribuzin	<0.096		0.096	ug/L		04/10/20 1000	04/14/20 1123	GMP
Propachlor (Ramrod)	<0.096		0.096	ug/L		04/10/20 1000	04/14/20 1123	GMP
Simazine	<0.067	4.00 MCL	0.067	ug/L		04/10/20 1000	04/14/20 1123	GMP
Surrogate: 1,3-Dimethyl-2-nitrobenzene	101	Limit: 70-130		% Rec		04/10/20 1000	04/14/20 1123	GMP
Surrogate: Pyrene-d10	98.0	Limit: 70-130		% Rec		04/10/20 1000	04/14/20 1123	GMP
Surrogate: Triphenyl phosphate	116	Limit: 70-130		% Rec		04/10/20 1000	04/14/20 1123	GMP