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Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

D9D2294

Narragansett Indian Tribe

Stan Bailey
P.O. Box 268
Charlestown, RI 02813

Project Name: 0502002 Administration

Project / PO Number: N/A
Received: 04/23/2019
Reported: 05/02/2019

Analytical Testing Parameters

Client Sample ID: Entry Point - EP001
Sample Matrix: Drinking Water
Lab Sample ID: D9D2294-01
Collected By: Paul A. Bucacci
Collection Date: 04/23/2019 13:50

Herbicides - GC/ECD	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 515.3, Rv 1.0								
2,4-D	<0.100	70.0 MCL	0.100	ug/L		04/30/19 0900	04/30/19 2327	MRB
Dalapon	<1.00	200 MCL	1.00	ug/L		04/30/19 0900	04/30/19 2327	MRB
Dicamba	<0.100		0.100	ug/L		04/30/19 0900	04/30/19 2327	MRB
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	<0.200	7.00 MCL	0.200	ug/L		04/30/19 0900	04/30/19 2327	MRB
Pentachlorophenol	<0.0400	1.00 MCL	0.0400	ug/L		04/30/19 0900	04/30/19 2327	MRB
Picloram	<0.100	500 MCL	0.100	ug/L		04/30/19 0900	04/30/19 2327	MRB
2,4,5-TP (Silvex)	<0.200	50.0 MCL	0.200	ug/L		04/30/19 0900	04/30/19 2327	MRB
Surrogate: 2,4-Dichloropenylacetic acid	108	Limit: 70-130		% Rec		04/30/19 0900	04/30/19 2327	MRB

Inorganics	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: Wet Chem - DW/SM4500-NO3 F-2000								
Nitrate as N	<0.0500	10.0 MCL	0.0500	mg/L			04/24/19 2038	DCH

Pesticides and Polychlorinated Biphenyls (PCBs) - GC/ECD	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 505, Rv 2.1								
Chlordane (tech.) [2C]	<0.200	2.00 MCL	0.200	ug/L		05/01/19 1400	05/01/19 2107	MRB
Dieldrin [2C]	<0.0200		0.0200	ug/L		05/01/19 1400	05/01/19 2107	MRB
Endrin [2C]	<0.0100	2.00 MCL	0.0100	ug/L		05/01/19 1400	05/01/19 2107	MRB
Toxaphene [2C]	<1.00	3.00 MCL	1.00	ug/L		05/01/19 1400	05/01/19 2107	MRB
Aroclor-1016 (PCB-1016) [2C]	<0.0800		0.0800	ug/L		05/01/19 1400	05/01/19 2107	MRB
Aroclor-1221 (PCB-1221) [2C]	<20.0		20.0	ug/L		05/01/19 1400	05/01/19 2107	MRB
Aroclor-1232 (PCB-1232) [2C]	<0.500		0.500	ug/L		05/01/19 1400	05/01/19 2107	MRB
Aroclor-1242 (PCB-1242) [2C]	<0.300		0.300	ug/L		05/01/19 1400	05/01/19 2107	MRB
Aroclor-1248 (PCB-1248) [2C]	<0.100		0.100	ug/L		05/01/19 1400	05/01/19 2107	MRB
Aroclor-1254 (PCB-1254) [2C]	<0.100		0.100	ug/L		05/01/19 1400	05/01/19 2107	MRB
Aroclor-1260 (PCB-1260) [2C]	<0.100		0.100	ug/L		05/01/19 1400	05/01/19 2107	MRB
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	86.0	Limit: 70-130		% Rec		05/01/19 1400	05/01/19 2107	MRB

Semi-Volatile Organic Compounds - GC/ECD	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 504.1, Rv 1.1								

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Sample Matrix:	Drinking Water	**Collected By:**	Paul A. Bucacci
Lab Sample ID:	D9D2294-01	**Collection Date:**	04/23/2019 13:50

Semi-Volatile Organic Compounds - GC/ECD	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
1,2-Dibromo-3-chloropropane (DBCP) [2C]	<0.0100	0.200 MCL	0.0100	ug/L		04/29/19 1400	04/29/19 1942	MRB
1,2-Dibromoethane (Ethylene dibromide, EDB) [2C]	<0.0100	0.0500 MCL	0.0100	ug/L		04/29/19 1400	04/29/19 1942	MRB
Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]	81.5	Limit: 70-130		% Rec		04/29/19 1400	04/29/19 1942	MRB

Semi-Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 525.2, Rv 2.0								
Alachlor	<0.200	2.00 MCL	0.200	ug/L		04/26/19 1100	04/29/19 1736	GMP
Aldrin	<0.100		0.100	ug/L		04/26/19 1100	04/29/19 1736	GMP
Atrazine	<0.100	3.00 MCL	0.100	ug/L		04/26/19 1100	04/29/19 1736	GMP
Benzo[a]pyrene	<0.020	0.200 MCL	0.020	ug/L		04/26/19 1100	04/29/19 1736	GMP
gamma-BHC (Lindane)	<0.020	0.200 MCL	0.020	ug/L		04/26/19 1100	04/29/19 1736	GMP
Butachlor	<0.100		0.100	ug/L		04/26/19 1100	04/29/19 1736	GMP
bis(2-Ethylhexyl)adipate	<0.600	400 MCL	0.600	ug/L		04/26/19 1100	04/29/19 1736	GMP
bis(2-Ethylhexyl)phthalate	<0.600	6.00 MCL	0.600	ug/L		04/26/19 1100	04/29/19 1736	GMP
Heptachlor	<0.040	0.400 MCL	0.040	ug/L		04/26/19 1100	04/29/19 1736	GMP
Heptachlor epoxide	<0.020	0.200 MCL	0.020	ug/L		04/26/19 1100	04/29/19 1736	GMP
Hexachlorobenzene	<0.100	1.00 MCL	0.100	ug/L		04/26/19 1100	04/29/19 1736	GMP
Hexachlorocyclopentadiene	<0.100	50.0 MCL	0.100	ug/L		04/26/19 1100	04/29/19 1736	GMP
Methoxychlor	<0.100	40.0 MCL	0.100	ug/L		04/26/19 1100	04/29/19 1736	GMP
Metolachlor	<0.100		0.100	ug/L		04/26/19 1100	04/29/19 1736	GMP
Metribuzin	<0.100		0.100	ug/L		04/26/19 1100	04/29/19 1736	GMP
Propachlor (Ramrod)	<0.100		0.100	ug/L		04/26/19 1100	04/29/19 1736	GMP
Simazine	<0.070	4.00 MCL	0.070	ug/L		04/26/19 1100	04/29/19 1736	GMP
Surrogate: 1,3-Dimethyl-2-nitrobenzene	98.0	Limit: 70-130		% Rec		04/26/19 1100	04/29/19 1736	GMP
Surrogate: Pyrene-d10	97.0	Limit: 70-130		% Rec		04/26/19 1100	04/29/19 1736	GMP
Surrogate: Triphenyl phosphate	110	Limit: 70-130		% Rec		04/26/19 1100	04/29/19 1736	GMP

Semi-Volatile Organic Compounds - HPLC	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 531.2, Rv 1.0								
Aldicarb sulfone	<0.800		0.800	ug/L		04/23/19 1405	04/24/19 1016	RSD
Aldicarb sulfoxide	<0.500		0.500	ug/L		04/23/19 1405	04/24/19 1016	RSD
Aldicarb (Temik)	<0.500		0.500	ug/L		04/23/19 1405	04/24/19 1016	RSD
Carbaryl (Sevin)	<0.500		0.500	ug/L		04/23/19 1405	04/24/19 1016	RSD
Carbofuran (Furaden)	<0.900	40.0 MCL	0.900	ug/L		04/23/19 1405	04/24/19 1016	RSD
3-Hydroxycarbofuran	<0.500		0.500	ug/L		04/23/19 1405	04/24/19 1016	RSD
Methomyl (Lannate)	<0.500		0.500	ug/L		04/23/19 1405	04/24/19 1016	RSD
Oxamyl	<2.00	200 MCL	2.00	ug/L		04/23/19 1405	04/24/19 1016	RSD

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Sample Matrix:	Drinking Water	**Collected By:**	Paul A. Bucacci
Lab Sample ID:	D9D2294-01	**Collection Date:**	04/23/2019 13:50

Semi-Volatile Organic Compounds - HPLC	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Surrogate: 4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	91.9	Limit: 70-130		% Rec		04/23/19 1405	04/24/19 1016	RSD

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5.00 MCL	0.50	ug/L			04/26/19 1707	RSD
Bromobenzene	<0.50		0.50	ug/L			04/26/19 1707	RSD
Bromochloromethane	<0.50		0.50	ug/L			04/26/19 1707	RSD
Bromodichloromethane	<0.50		0.50	ug/L			04/26/19 1707	RSD
Bromoform	<0.50		0.50	ug/L			04/26/19 1707	RSD
Bromomethane	<0.50		0.50	ug/L			04/26/19 1707	RSD
tert-Butylbenzene	<0.50		0.50	ug/L			04/26/19 1707	RSD
sec-Butylbenzene	<0.50		0.50	ug/L			04/26/19 1707	RSD
n-Butylbenzene	<0.50		0.50	ug/L			04/26/19 1707	RSD
Carbon tetrachloride	<0.50	5.00 MCL	0.50	ug/L			04/26/19 1707	RSD
Chlorobenzene	<0.50	100 MCL	0.50	ug/L			04/26/19 1707	RSD
Chloroethane (Ethyl chloride)	<0.50		0.50	ug/L			04/26/19 1707	RSD
Chloroform	<0.50		0.50	ug/L			04/26/19 1707	RSD
Chloromethane	<0.50		0.50	ug/L			04/26/19 1707	RSD
2-Chlorotoluene	<0.50		0.50	ug/L			04/26/19 1707	RSD
4-Chlorotoluene	<0.50		0.50	ug/L			04/26/19 1707	RSD
Dibromochloromethane	<0.50		0.50	ug/L			04/26/19 1707	RSD
Dibromomethane (Methylene bromide)	<0.50		0.50	ug/L			04/26/19 1707	RSD
1,4-Dichlorobenzene	<0.50	75.0 MCL	0.50	ug/L			04/26/19 1707	RSD
1,2-Dichlorobenzene	<0.50	600 MCL	0.50	ug/L			04/26/19 1707	RSD
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04/26/19 1707	RSD
Dichlorodifluoromethane (Freon-12)	<0.50		0.50	ug/L			04/26/19 1707	RSD
1,2-Dichloroethane	<0.50	5.00 MCL	0.50	ug/L			04/26/19 1707	RSD
1,1-Dichloroethane	<0.50		0.50	ug/L			04/26/19 1707	RSD
trans-1,2-Dichloroethene	<0.50	100 MCL	0.50	ug/L			04/26/19 1707	RSD
cis-1,2-Dichloroethene	<0.50	70.0 MCL	0.50	ug/L			04/26/19 1707	RSD
1,1-Dichloroethene	<0.50	7.00 MCL	0.50	ug/L			04/26/19 1707	RSD
1,3-Dichloropropane	<0.50		0.50	ug/L			04/26/19 1707	RSD
2,2-Dichloropropane	<0.50		0.50	ug/L			04/26/19 1707	RSD
1,2-Dichloropropane	<0.50	5.00 MCL	0.50	ug/L			04/26/19 1707	RSD
1,1-Dichloropropene	<0.50		0.50	ug/L			04/26/19 1707	RSD
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04/26/19 1707	RSD
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04/26/19 1707	RSD
Ethylbenzene	<0.50	700 MCL	0.50	ug/L			04/26/19 1707	RSD
Hexachlorobutadiene	<0.50		0.50	ug/L			04/26/19 1707	RSD
Isopropylbenzene (Cumene)	<0.50		0.50	ug/L			04/26/19 1707	RSD

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Client Sample ID:	Entry Point - EP001		
Sample Matrix:	Drinking Water	**Collected By:**	Paul A. Bucacci
Lab Sample ID:	D9D2294-01	**Collection Date:**	04/23/2019 13:50

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50		0.50	ug/L			04/26/19 1707	RSD
Methyl tert-butyl ether (MTBE)	<0.50		0.50	ug/L			04/26/19 1707	RSD
Methylene chloride (Dichloromethane)	<0.50	5.00 MCL	0.50	ug/L			04/26/19 1707	RSD
Naphthalene	<0.50		0.50	ug/L			04/26/19 1707	RSD
n-Propylbenzene	<0.50		0.50	ug/L			04/26/19 1707	RSD
Styrene	<0.50	100 MCL	0.50	ug/L			04/26/19 1707	RSD
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04/26/19 1707	RSD
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04/26/19 1707	RSD
Tetrachloroethene	<0.50	5.00 MCL	0.50	ug/L			04/26/19 1707	RSD
Toluene	<0.50	1000 MCL	0.50	ug/L			04/26/19 1707	RSD
1,2,4-Trichlorobenzene	<0.50	70.0 MCL	0.50	ug/L			04/26/19 1707	RSD
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			04/26/19 1707	RSD
1,1,1-Trichloroethane	<0.50	200 MCL	0.50	ug/L			04/26/19 1707	RSD
1,1,2-Trichloroethane	<0.50	5.00 MCL	0.50	ug/L			04/26/19 1707	RSD
Trichloroethene	<0.50	5.00 MCL	0.50	ug/L			04/26/19 1707	RSD
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			04/26/19 1707	RSD
1,2,3-Trichloropropane	<0.50		0.50	ug/L			04/26/19 1707	RSD
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			04/26/19 1707	RSD
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			04/26/19 1707	RSD
Vinyl chloride	<0.50	2.00 MCL	0.50	ug/L			04/26/19 1707	RSD
m,p-Xylene	<0.50		0.50	ug/L			04/26/19 1707	RSD
o-Xylene	<0.50		0.50	ug/L			04/26/19 1707	RSD
Xylenes (total)	<0.50	10000 MCL	0.50	ug/L			04/26/19 1707	RSD
Surrogate: 4-Bromofluorobenzene	99.2	Limit: 70-130		% Rec			04/26/19 1707	RSD
Surrogate: 1,2-Dichlorobenzene-d4	98.3	Limit: 70-130		% Rec			04/26/19 1707	RSD

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CERTIFICATE OF ANALYSIS

D9D2294

Client Sample ID:	Natural Resources Office		
Sample Matrix:	Drinking Water	**Collected By:**	Paul A. Bucacci
Lab Sample ID:	D9D2294-02	**Collection Date:**	04/23/2019 13:40

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: SM4500-Cl G-2000								
Chlorine - Total Residual	<0.05		0.05	mg/L			04/23/19 1340	PAB

General Paramaters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: Wet Chem - DW/SM2120 B-2001								
Color - Apparent	50		1	Color Units			04/23/19 2222	CCM
Method: Wet Chem - DW/SM2130 B-2001								
Turbidity	10.9		0.100	NTU			04/23/19 2222	CCM
Method: Wet Chem - DW/SM2150 B-1997								
Odor - TON	<1		1	T.O.N.			04/23/19 2222	CCM
Method: Wet Chem - DW/SM4500 H+ B-2000								
pH	6.75	6.50-8.5 SMCL		pH Units	**H**		04/23/19 2222	CCM
Method: Wet Chem - DW/SM4500 H+ B-2011								
Temperature for pH	19.3			°C			04/23/19 2200	CCM

Microbiology	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: SM9223 B-1997								
Total Coliform	Absent	1.0 MCL		in 100mL		04/23/19 1704	04/24/19 1948	ARM
Escherichia coli	Absent	1.0 MCL		in 100mL		04/23/19 1704	04/24/19 1948	ARM

*Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.*

Definitions

Absent:	A result of "Absent" for Total Coliform in drinking water indicates the sample is currently IN COMPLIANCE with theTotal Coliform Rule as established under the Safe Drinking Water Act.
H:	Sample was analyzed past holding time.
MCL:	US EPA Maximum Contaminant Level
RL:	Reporting Limit
SMCL:	US EPA Secondary Maximum Contaminant Level

Project Requested Certification(s)

Microbac Laboratories, Inc. - Dayville

LAO00346 Rhode Island Department of Health

Microbac Laboratories, Inc. - Dayville

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D9D2294

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Melisa L. Montgomery

QA Officer

Reported: 05/02/2019 17:05

4/23

3/28/20 D9D2294 | - Page 1

Narragansett Indian Tribe

Lab PO: 155142

Frequency	Project	Description	Pickup Date	Required By
Monthly	**0502002 Administ...**	**RI Quarter 2 N/N**	**01-APR-19**	**30-APR-19**

Sampling Point Information

Narragansett Indian Tribe
Admin. Building
4375 B S. County Trail
Charlestown, RI

Client Information [NARRA INDIAN]

Narragansett Tribe
P.O. Box 268
Charlestown, RI 02813

Contact Information

Stan Bailey
401-364-1100 x 227

call Dinalyn when on way 401-932-1204

Comments: Call Stan's cell # 401-557-7634 w/FYI sampling today.
Greg c1-401-741-6835

Natural Resources Office is in 3 bay garage.
CALL JESS ASAP IF THERE IS AN ISSUE

Sampling Point	Product	Times/Readings
Entry Point - EP001	Nitrate as N by SM4500-NO3 F in DW/WW	1350
Entry Point - EP001	RI SOC	1350
Entry Point - EP001	RI Volatiles by 524.2. in DW	1350
Natural Resources Office - DS001	TC 9223B & Physicals	1340
Natural Resources Office - DS001	Total Residual Chlorine by SM4500-Cl-G	=ND

4.9 02
PB

Chain Of Custody

Sampler/Affiliation: 4-23-19 Date/Time: 1350

Relinquished/Affiliation: 4-23-19 Date/Time: 1555

Received/Affiliation: Date/Time: 4-23-19 1555

Relinquished/Affiliation: Date/Time:

Received/Affiliation: Date/Time: