Advanced Environmental Laboratories, Inc.

MEMBRANE FILTRATION RUN LOG FOR ANALYSIS METHOD

- ☐ SM 9222B Total Coliform CFU/100mL
- ☐ SM 9222D Fecal Coliform CFU/100mL
- ☐ EPA 1600 Enterococci CFU/100mL
- ☒ EPA 1603 E.Coli CFU/100mL

MATRIX ☒ Water ☐ Soil

FR 9/1 3/11/14

HBN / Batch
1688 / 12875
LIMS Report Date/By
YD 3-31-17
Release Date/By

WATERBATH ☐ ~~J6B~~ M8B 4033017

INCUBATOR ☐ ~~J6A~~ M8A 4033017

Date / Time IN	
3-30-17	14:15
Analyst IN	YD

Temp IN 1	35.2
Temp IN 2	44.5

Date / Time OUT	
3-30-17	16:15
Analyst OUT	YD. 3-31-17

Temp OUT 1	35.2
Temp OUT 2	44.6

Media ID: 8m1703-54 | Membrane Filter ID: MW3-12P1 | Chlorine Test Strip ID: MW3-21F10 | Manifold ID M8 | Balance ID M7F

H2O ID: 8m170346 | Petri Pad/Plate ID: MW3-21L1

Funnel	Lab ID	Client Sample ID	Sample Vol.	Dilution	Filtration Start	Colony Count*	CFU /100mL	Cl_2	Additional Information Comments
2	1 Pre BK.		50	2X	14:00	<1	<1	N/A	
1	2 M170127001	11:00 FDG	10	10X	|	6	60	U	~~J64-14-17~~
1	3 1		25	4X	|	32	128	U	~~Report Flags~~ J64-14-17
1	4 Post BK.		50	2X	|	<1	<1	N/A	J64-14-17
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YD 3-31-17

~~SM9222B 22-24hrs.@35.0+/-0.5°C~~

SM9222D 24+/-2hrs.@44.5+/-0.2°C

EPA1600 24+/-2hrs.@41.0+/-0.5°C

EPA1603 2hrs.@35.0+/-0.5°C;22-24hrs.@44.5+/-0.2°C

When using multiple dilutions & no reading falls within the optimum range (20-60colonies SM9222D/EPA1600; 20-80 colonies SM9222B/EPA1603) results are calculated as (an+bn+cn)X100/(a+b+c); where an, bn, & cn are the colony counts at volumes a, b, & c.

*Target Bacteria Colony Count

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Date Analysis Began: 3-30-17 Date Plates Read: 3-31-17

Filter Paper Date/ID#: MW3-12P 1
Media Prep Date/ID#: 8M1703-41
H2O Prep Date / ID#: 8M1703-46

RUN LOG FOR
EPA 1600
Enterococci by Membrane Filtration
CFU/100mL

Analysis begun by: YD Plates read by: YD
LIMS Report date/ Analyst Reporting: YD 3-31-17
HBN: 12756 Batch No: 1686 Released
Incubator ID: **M8L** Manifold ID: **M8G**
Incubator temp in: 40.5 Incubator temp out: 41.0
Incubation Temp/Time: 41.0 +/- 0.5 DegC; 24+/- 2 hrs.

FK 9P 4/1/17

Filter	Lab ID AEL Sample Number	Client Sample ID	Matrix **	Sample Volume(mL)	Dilution Factor	Time Start Filtration	Time in Incubator	Time/Date 1st Read	Time/Date 2nd Read	Fecal Count	Colonies per 100mls	Cl_2 Check	Comments & Qualifiers
3	PreBlk			10	2X	13:45	14:00	14:00	N/A	<1	<1	N/A	
1	M1701277002	11:40 FDEP		10	10X	↓	↓	↓	↓	13	130	U	Not AEL BC
1	↓	↓		25	4X	↓	↓	↓	↓	32	128	U	↓
1	M1701277003	12:30 PDEP		10	10X	↓	↓	↓	↓	1	10	U	>37 ↓
1	↓	↓		25	4X	↓	↓	↓	↓	12	48	U	↓
1	PostBlk			10	2X	↓	↓	↓	↓	<1	<1	N/A	

YD 3-31-17

** WW=Wastewater, GW=Ground water, SW=Surface water, DW=Drinking water
B = Blank; 100ml of Buffer H_2O for QC verification of any carry-over
PRE = 100ml Blank sample filtered prior to each run
POST = 100ml Blank sample filtered after each run
MID-[no.] = 100ml Blank sample filtered after 10 useages of each filter holder
U = Undetected, when used for Cl_2 <0.5mg/L
DUP = Duplication of a sample for QC accuracy calculations
EF = Enterococci faecalis

When using 3 dilutions and no reading falls within optimum range of 20-60 colonies
then results calculated as (an+bn+cn) X 100 / (a+b+c)
Where: an, bn, cn are the colony counts at volumes a, b, and c

Pre/Post Blank Criteria: <1 col/100mL
TNTC = Too numerous to count; [total colonies exceeds 200]
CG = Confluent growth; [colonies not distinct]
↓: Denotes 'identical to entry above'; [i.e., ditto]