

Date Analysis Began: 3-27-17 Date Plates Read: 3-28-17
 Filter Paper Date/ID#: NW3-20R1
 Media Prep Date/ID#: 8m1703-41
 H2O Prep Date / ID#: 8m1703-33

 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 3-29-17
 HBN: 12401 Batch No: 1681 Released: DMMH 3/29/17
 Incubator ID: M8L Manifold ID: M8G
 Incubator temp in: 41.0 Incubator temp out: 42.0
 Incubation Temp/Time: 41.0 +/- 0.5 DegC; 24+/- 2 hrs.

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
	<u>Pre BK</u>			<u>50</u>	<u>2X</u>	<u>14:20</u>	<u>14:40</u>	<u>15:40</u>	<u>N/A</u>	<u>21</u>	<u>21</u>	<u>N/A</u>	<u>Post a AEL</u>
	<u>M1701226001</u>	<u>11:00</u>		<u>10</u>	<u>10X</u>					<u>510</u>	<u>5100</u>	<u>U</u>	<u>Both U</u>
	<u>1</u>	<u>1</u>		<u>25</u>	<u>4X</u>					<u>10</u>	<u>40</u>	<u>U</u>	
	<u>M1701226002</u>	<u>11:20</u>		<u>10</u>	<u>10X</u>					<u>46</u>	<u>460</u>	<u>U</u>	
	<u>1</u>	<u>1</u>		<u>25</u>	<u>4X</u>					<u>93</u>	<u>372</u>	<u>U</u>	
	<u>M1701226003</u>	<u>11:45</u>		<u>10</u>	<u>10X</u>					<u>4</u>	<u>40</u>	<u>U</u>	
	<u>1</u>	<u>1</u>		<u>25</u>	<u>4X</u>					<u>5</u>	<u>20</u>	<u>U</u>	<u>726</u>
	<u>POST BK 4032717</u>			<u>50</u>	<u>2X</u>					<u>51</u>	<u>51</u>	<u>N/A</u>	
	<u>POST BK</u>												

** WW=Wastewater, GW=Ground water, SW=Surface water, DW=Drinking water
 B = Blank; 100ml of Buffer H₂O 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 usages of each filter holder
 U = Undetected, when used for C_E <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 $(an+bn+cn) \times 100 / (a+b+c)$
 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]

I: Denotes 'identical to entry above'; [i.e., ditto]



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

HBN / Batch
1680 / 12398
LIMS Report Date/By
YD / 3-29-17
Release Date/By
DMH / 3-30-17

WATERBATH ☐ 168-M8B
40327-17
INCUBATOR ☐ 16A-M8A
40327-17

Date / Time IN
3-27-17 15:15
Analyst IN
YD

Date / Time OUT
3-27-17 17:20
Analyst OUT
3F

Temp IN 1
35.1°C
Temp IN 2
44.5°C

Temp OUT 1
35.0°C
Temp OUT 2
44.5°C

date out 3-28-17 16:35

Media ID: 8m170347	Membrane Filter ID: MW3-20R1	Chlorine Test Strip ID: MW3-21F10
H ₂ O ID: 8m170333	Petri Pad/Plate ID: MW3-21L1	Manifold ID: M88
		Balance ID: M7F

Funnel	Lab ID	Client Sample ID	Sample Vol.	Dilution	Filtration Start	Colony Count*	CFU /100mL	$\bar{c}_n$	Additional Information Comments
3	Pre BK		50	2x	12:55	21	41	N/A	
1	M1701226004	12:15	10	10x		3	30	U	31 Bolls not an AEL Bottle
3	L	L	25	4x		8	32	U	
1	M1701226005	12:45	10	10x		28	280	U	231
1	L	L	25	4x		53	212	U	
6	Post BK		50	2x		21	41	N/A	
7									
8									
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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 (20-60 colonies SM9222D/EPA1600; 20-80 colonies SM9222B/EPA1603) results are calculated as $(an+bn+cn) \times 100 / (a+b+c)$; where an, bn, & cn are the colony counts at volumes a, b, & c.

*Target Bacteria Colony Count

DCN: MIC-141, Created 12/30/14, rev 3/21/16j