

Environmental Laboratories

Dates Analysis Began: 9/10/18 KO
 Dates Plates Read: 9/11/18 KO
 Pad / Plate Date ID#: GMI1-4012
 Filter ID#: GMI1-4012
 Pipette ID#: GMI1-4012
 m-TEC ID#: mmtc090618
 Buffer H2O ID#: H20090518
 Chlorine Check Reagent ID#: 8212

RUN LOG FOR
 EPA 1603
 E. coli by Membrane Filter
 CFU/100mL

LIMS Report date/ Analyst Reporting: 9-20-18/ANW
 HBN: 46054 Batch No: 1907 Reviewed by: KO 9/25/18
 Manifold ID: G40
 Incubator #1 ID: G411 Incubator #2 ID: G4A
 Incubator #1 temp in: 35.0 Incubator #1 temp out: 35.0
 Incubator #2 temp in: 44.5 Incubator #2 temp out: 44.5
 Incubation Temp/Time: 35.0 +/- 0.5 °C; 2 hours +/- 0.5 hours
 Incubation Temp/Time: 44.5 +/- 0.2 °C; 22 hours +/- 2 hours

Filter	Bottle Lot#	Lab ID AEL Sample ID	Client ID	Sample ID	Matrix **	Sample Volume (mL)	Dilution Factor	Time Start Filtration	Time in Incubator #1	Time out Incubator #1	Time in Incubator #2	Time Out Incubator #2	Total Count	Colonies per 100mL	Cl ₂ Check	Non-Coliform Colonies	Comments & Qualifiers
From client		G1805060 001	GINE0707 AWHell	WA	B	100	1	1550	11607	1738	1740	1714	0			0	
						50	2		KO				TNTC			50	
						10	10		9/10/17				81	810		20	10x B
						10	10						92			13	
		002	GINE0915 TWWH	W		50	2						2			3	
						10	10						TNTC			15	
		003	GINE0120 POSN-116			50	2						54	540		11	10x B 9/11/18
						10	10						1			3	
						10	10						TNTC			30	
						1	100						66	660		10	10x
		004	GINE0412 HOGAMW		B	100	1						7			2	
						50	2						0			0	
						10	10						TNTC			50	
		Post			B	100	1						88	880		20	10x B
						10	10						10			5	
													0			0	

** 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 Cl₂; <0.2mg/L
 DUP = Duplication of a sample for QC accuracy calculations

Dilutions should be prepared so that the optimum range of 20-80 counts is seen.
 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]
 Note: If present, describe and enter non-coliform colony counts in comments column

* KO
 9/11/18

Advanced Environmental Laboratories

Dates Analysis Began: 9-11-2018

Dates Plates Read: 9-12-18

Pad / Plate Date ID#: GMB1-4052

Filter ID#: GMB1-4012

Pipette ID#: GMB1-4022

m-TEC ID#: MMTec 09118

Buffer H2O ID#: H2O090618

Chlorine Check Reagent ID#: 8a12

RUN LOG FOR

EPA 1603

E. coli by Membrane Filter
CFU/100mL

LIMS Report date/ Analyst Reporting: 9-20-18/MLW

HBN: 40064 Batch No: 1909

Reviewed by: 129 9/29/18

Manifold ID: G4A

Incubator #1 ID: G4A

Incubator #2 ID: G4A

Incubator #1 temp in: 35.4

Incubator #1 temp out: 35.4

Incubator #2 temp in: 44.5

Incubator #2 temp out: 44.4

Incubation Temp/Time: 35.0 +/- 0.5 °C; 2 hours +/- 0.5 hours

Incubation Temp/Time: 44.5 +/- 0.2 °C; 22 hours +/- 2 hours

Funnel	Filter	Bottle Lot#	Lab ID AEL Sample ID	Client ID	Sample ID	Matrix **	Sample Volume (mL)	Dilution Factor	Time Start Filtration	Time in Incubator #1	Time out Incubator #1	Time in Incubator #2	Time Out Incubator #2	Total Count	Colonies per 100mls	Cl ₂ Check	Non-Coliform Colonies	Comments & Qualifiers
✓			Pre			Buffer			1635	1700	1923	1925	1605	0			0	
			Blank			WA	50	2						20	40	NA	15	2x
							10	10						2			0	
							10	10						2			3	
							1	100						0			0	
			G1808099		002	outfall	50	2						14	28		30	2x B
							10	10						4			19	
							1	100						1			4	
			G1808099		003	Damstrick	50	2						69			15	2x
							10	10						24			10	
							1	100						1			1	
						B	100	1						0			0	
			G1808099		001	GENE0900	50	2						213	210	U	80	2x B
							10	10						2			30	
							1	100						2			0	
			G1808099		002	GINE0904	50	2						2	4		8	2x B
							10	10						1			1	
							1	100						0			0	
			G1808099		003	GINE0914	50	2						88			CG	
							10	10						31	310		50	10x
							1	100						5			20	
			Post			B	100	1						0			0	
			PC			E101091018								+				
			NC			PA091018								-				

9/11/18

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DCN: MI-141

eff: 7/12/12, last rev 6/12/17