

## SM 9222D G1c1- Fecal Coliform/ E.coli - CFU Final Report

**Job Number: 201107**

**Client: Midway Sewer District**

**Address: 1200 S 216th St**

**Des Moines, WA 98198**

**Project Name: Microbiology Project -09-17-2020**

**Project No.:**

**PO Number:**

**PWS ID:**

**Reference No.:**

**Report Number: 201107R02**

**Report Date: 9/18/2020**

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
201107 - S2	1A - South of Creek, WA Water ID#: 11923497	SM 9222D G1c1- Fecal Coliform/ E.coli - CFU		9/17/2020
201107 - S4	2A - Mouth of Creek, WA Water ID#: 11923499	SM 9222D G1c1- Fecal Coliform/ E.coli - CFU		9/17/2020
201107 - S6	3A - North of Creek, WA Water ID#: 11923501	SM 9222D G1c1- Fecal Coliform/ E.coli - CFU		9/17/2020
201107 - S8	4A - In Creek, WA Water ID#: 11923503	SM 9222D G1c1- Fecal Coliform/ E.coli - CFU		9/17/2020
201107 - S10	5A - 50 Ft Before Y, WA Water ID#: 11923505	SM 9222D G1c1- Fecal Coliform/ E.coli - CFU		9/17/2020
201107 - S12	6A - 500 Ft Before Y, WA Water ID#: 11923507	SM 9222D G1c1- Fecal Coliform/ E.coli - CFU		9/17/2020
201107 - S15	NEGCTRL - Negative Control, WA Water ID#: 11923510	SM 9222D G1c1- Fecal Coliform/ E.coli - CFU		9/17/2020
201107 - S16	POSCTRL - Positive Control, WA Water ID#: 11923511	SM 9222D G1c1- Fecal Coliform/ E.coli - CFU		9/17/2020

---

## SM 9222D G1c1- Fecal Coliform/ E.coli - CFU Final Report

Job Number: 201107

Client: Midway Sewer District

Project Name: Microbiology Project -09-17-2020

Report Number: 201107R02

Report Date: 9/18/2020

---

SM 9222D G1c1- Fecal Coliform/ E.coli - CFU The presence of Fecal Coliform and E. coli from waters and/or environmental sources are tested using the following standard methods:

**SM9222 D&G1c1:**

Qualitative and Quantitative analysis of Fecal Coliforms and E. coli using a Membrane Filtration procedure begins with selecting a volume of sample that will yield optimal colony counts. Several aliquots are filtered onto sterile, gridded, 0.1um MCE filters. The filters are then placed onto a culture dish containing fecal coliform selective medium. The samples are then incubated in a water bath at  $44.5 \pm 0.2$  °C for  $24 \pm 2$  hours.

Upon completion of incubation, positive fecal coliform colonies will produce various shades of blue while negative non-fecal coliform colonies will produce a gray to cream colored colony. Fecal Coliform densities are then calculated and reported as CFU/ 100ml.

After completion of the fecal coliform enumeration, the gridded filter is removed from the fecal coliform selective medium and transferred to a nutrient agar substrate containing 4-methylumbelliferyl-b-d-glucuronide (MUG). The samples are then incubated at  $35 \pm 0.5$  °C for 4 hours. The sample is placed beneath a 365nm ultraviolet lamp to determine the presence of Escherichia coli. A colony producing a blue fluorescence around the periphery is diagnostic for the presence of E. coli.

**Disclaimer** The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,



**Derk Wipprecht**  
Laboratory Supervisor

## SM 9222D G1c1- Fecal Coliform/ E.coli - CFU - Final Report

Job Number: 201107 SEA

Client: Midway Sewer District

Project Name: Microbiology Project -09-17-2020

Report Number: 201107R02

Date Received: 9/17/2020

Lab/Cor Sample No.	Client Sample	Analyte Type	Analysis Result	UOM	95% Confidence Interval	Sample Date	Sample Time	Analyst
S2	1A - South of Creek, WA Water ID#: 11923497	FECAL COLIFORM	3060	CFU/ 100ml	2885.1 - 3234.9	9/17/2020	10:20 AM	SB 9/18/2020
S2	1A - South of Creek, WA Water ID#: 11923497	E. COLI	2400	CFU/ 100ml	2245.1 - 2554.9	9/17/2020	10:20 AM	SB 9/18/2020
S4	2A - Mouth of Creek, WA Water ID#: 11923499	FECAL COLIFORM	780	CFU/ 100ml	691.7 - 868.3	9/17/2020	10:25 AM	SB 9/18/2020
S4	2A - Mouth of Creek, WA Water ID#: 11923499	E. COLI	780	CFU/ 100ml	691.7 - 868.3	9/17/2020	10:25 AM	SB 9/18/2020
S6	3A - North of Creek, WA Water ID#: 11923501	FECAL COLIFORM	3620	CFU/ 100ml	3429.7 - 3810.3	9/17/2020	10:30 AM	SB 9/18/2020
S6	3A - North of Creek, WA Water ID#: 11923501	E. COLI	3500	CFU/ 100ml	3312.9 - 3687.1	9/17/2020	10:30 AM	SB 9/18/2020
S8	4A - In Creek, WA Water ID#: 11923503	FECAL COLIFORM	3540	CFU/ 100ml	3351.9 - 3728.1	9/17/2020	10:35 AM	SB 9/18/2020
S8	4A - In Creek, WA Water ID#: 11923503	E. COLI	2960	CFU/ 100ml	2788 - 3132	9/17/2020	10:35 AM	SB 9/18/2020
S10	5A - 50 Ft Before Y, WA Water ID#: 11923505	FECAL COLIFORM	4050	CFU/ 100ml	3848.8 - 4251.2	9/17/2020	10:40 AM	SB 9/18/2020
S10	5A - 50 Ft Before Y, WA Water ID#: 11923505	E. COLI	3700	CFU/ 100ml	3507.6 - 3892.4	9/17/2020	10:40 AM	SB 9/18/2020

## SM 9222D G1c1- Fecal Coliform/ E.coli - CFU - Final Report

Job Number: 201107 SEA

Report Number: 201107R02

Client: Midway Sewer District

Date Received: 9/17/2020

Project Name: Microbiology Project -09-17-2020

Lab/Cor Sample No.	Client Sample	Analyte Type	Analysis Result	UOM	95% Confidence Interval	Sample Date	Sample Time	Analyst
S12	6A - 500 Ft Before Y, WA Water ID#: 11923507	FECAL COLIFORM	4280	CFU/ 100ml	4073.1 - 4486.9	9/17/2020	10:45 AM	SB 9/18/2020
S12	6A - 500 Ft Before Y, WA Water ID#: 11923507	E. COLI	4120	CFU/ 100ml	3917 - 4323	9/17/2020	10:45 AM	SB 9/18/2020
S15	NEGCTRL - Negative Control, WA Water ID#: 11923510	FECAL COLIFORM	<1	CFU/ 100ml	0 - 3.7	9/17/2020	1:30 PM	SB 9/18/2020
S15	NEGCTRL - Negative Control, WA Water ID#: 11923510	E. COLI	<1	CFU/ 100ml	0 - 3.7	9/17/2020	1:30 PM	SB 9/18/2020
S16	POSCTRL - Positive Control, WA Water ID#: 11923511	FECAL COLIFORM	35	CFU/ 100ml	29.1 - 40.9	9/17/2020	1:30 PM	SB 9/18/2020
S16	POSCTRL - Positive Control, WA Water ID#: 11923511	E. COLI	35	CFU/ 100ml	29.1 - 40.9	9/17/2020	1:30 PM	SB 9/18/2020

Reviewed by:

  
 X  
 Derk Wipprecht  
 Laboratory Supervisor