**Lab/Cor, Inc.**
7619 6th Ave NW
Seattle, WA 98117

# Analysis Report Cover

**Final Report**

*A Professional Service Corporation in the Northwest*

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**Job Number: 080440** **SEA**

**Report Number:** 080440R01

**Report Date:** 3/17/2008

**Client:** **ABC Environmental Company**

**Address:** **123 Laboratory Ave.**
**Anytown, WA 98000**

**Project Name:** LT2ESWTR

**Project No.:** 01-04-2008

**PO Number:**

**PWS ID:** WA5200001

**Reference No.:**

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: |
|---|---|---|---|---|
| 080440 - S1 | 01 - Raw Source Water Tap #1 | E. coli - Total Coliform, MPN | | 3/15/2008 |
| 080440 - S2 | 02 - Raw Source Water Tap #2 | E. coli - Total Coliform, MPN | | 3/17/2008 |

**E. coli - Total Coliform, MPN - Standard Methods**

The presence of Escherichia coli and Total Coliforms from waters and/or environmental sources are tested using the following standard methods:

SM 9223 B: Colilert
Qualitative and Quantitative analysis of Total Coliforms and Escherichia coli is performed using one of the two media types: Colilert 18 or Colilert 24. Upon incubating the sample at 35.0 ± 0.5 °C for 18 or 24 hours, the indicator nutrient O-nitrophenyl-b-D-galactopyranoside (OPNG) is metabolized in the presence of coliforms, producing a yellow hue. Non-coliform bacteria are suppressed and cannot metabolize the OPNG. Wells that produce a yellow hue are positive for Total Coliforms.

Upon completion of Total Coliform analysis, the sample is placed beneath a 365nm ultraviolet lamp to determine the presence of Escherichia coli. Definition of Escherichia coli positive is defined from the cleavage of the substrate methyl-umbelliferyl-D-glucoronide (MUG) into the fluorescent compound 4-methyl-umbelliferone and other products. A well that fluoresces is diagnostic of the presence of Escherichia coli.

SM 9223 B: Colisure
Qualitative and Quantitative analysis of Total Coliforms and Escherichia coli is performed using the following media type: Colisure. Upon incubating the sample at 35.0 ± 0.5 °C for 24 hours, the indicator nutrient chlorophenyl red-b-D-galactopyranoside (CPRG) is metabolized in the presence of coliforms, producing a magenta hue. Non-coliform bacteria are suppressed and cannot metabolize the CPRG. Wells that produce a magenta hue are positive for Total Coliforms.

Upon completion of the Total Coliform analysis, the sample is placed beneath a 365nm ultraviolet lamp to determine the presence of Escherichia coli. Definition of Escherichia coli positive is defined from the cleavage of the substrate chlorophenyl Red-b-D-galactopyranoside (CPRG) into the fluorescent compound chlorophenol red and other products. A well that fluoresces blue is diagnostic of the presence of Escherichia coli.

**Disclaimer**

The results reported relate only to the samples tested or analyzed. 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,

X Derk Wipprecht
Analyst

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# E. coli / Total Coliform MPN Results

**Job Number:** 080440
**Client:** ABC Environmental Company
**Project Name:** LT2ESWTR
**Project Number:** 01-04-2008
**PWS ID:** WA5200001

**Report Number:** 080440R01
**Date Received:** 3/15/2008

**Lab/Cor Sample No.:** S1
**Client Sample No.:** 01
**Description:** Raw Source Water Tap #1
**Volume:** 100 ml
**Sample Notes:**
**Culture Start:** 3/15/2008 9:00:00 AM
**Culture End:** 3/16/2008 9:00:00 AM

**Facility ID:** TP01
**Sample Point ID:** SP01
**Viability:** Viable
**Collector Type:** Bottle, 100ml
**Sample Composition:**
**Analyte Group Code:** MICRO
**Sample Type:** Field
**Sample Purpose:** New Sample
**Collection Mode:** FS
**Suitability Code:**

| Analyst(s) | Analysis Date |
|---|---|
| DW | 3/17/2008 |

| | Analyte Name | Analysis Result (MPN) | UOM | 95% Confidence Level | DOH# | Water EPA# |
|---|---|---|---|---|---|---|
| 1 | TOTAL COLIFORM | 130.1 | /100ml | 95.29 - 172.42 | 0001 | 3100 |
| 2 | FECAL COLIFORM | | /100ml | - | 0002 | 3013 |
| 3 | E. COLI | 14.6 | /100ml | 8.15 - 24.62 | 0003 | 3002 |
| 4 | ENTEROCOCCUS | | /100ml | - | 0004 | 0999 |

**Lab/Cor Sample No.:** S2
**Client Sample No.:** 02
**Description:** Raw Source Water Tap #2
**Volume:** 100 ml
**Sample Notes:**
**Culture Start:** 3/15/2008 9:00:00 AM
**Culture End:** 3/16/2008 9:00:00 AM

**Facility ID:** TP01
**Sample Point ID:** SP01
**Viability:** Viable
**Collector Type:** Bottle, 100ml
**Sample Composition:**
**Analyte Group Code:** MICRO
**Sample Type:** Field
**Sample Purpose:** New Sample
**Collection Mode:** FS
**Suitability Code:**

| Analyst(s) | Analysis Date |
|---|---|
| DW | 3/17/2008 |

| | Analyte Name | Analysis Result (MPN) | UOM | 95% Confidence Level | DOH# | Water EPA# |
|---|---|---|---|---|---|---|
| 1 | TOTAL COLIFORM | 29.4 | /100ml | 19.24 - 42.71 | 0001 | 3100 |
| 2 | FECAL COLIFORM | | /100ml | - | 0002 | 3013 |
| 3 | E. COLI | 2.0 | /100ml | 0.26 - 7.13 | 0003 | 3002 |
| 4 | ENTEROCOCCUS | | /100ml | - | 0004 | 0999 |

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# E. coli / Total Coliform MPN Results

**Job Number:** **080440**
**Client:** **ABC Environmental Company**
**Project Name:** LT2ESWTR
**Project Number:** 01-04-2008
**PWS ID:** WA5200001

**Report Number:** 080440R01
**Date Received:** 3/17/2008

**Reviewed by:**