



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2001826

Report Created for: Basic Laboratory, Inc.

2218 Railroad Avenue
Redding, CA 96001

Project Contact: Jennifer McCurdy

Project P.O.:

Project: 20A0806

Project Received: 01/21/2020

Analytical Report reviewed & approved for release on 01/27/2020 by:

Jennifer Lagerbom

Project Manager

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Glossary of Terms & Qualifier Definitions

Client: Basic Laboratory, Inc.

Project: 20A0806

WorkOrder: 2001826

Glossary Abbreviation

| | |
|--------------|--|
| %D | Serial Dilution Percent Difference |
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| DLT | Dilution Test (Serial Dilution) |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ERS | External reference sample. Second source calibration verification. |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| LQL | Lowest Quantitation Level |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| PDS | Post Digestion Spike |
| PDSD | Post Digestion Spike Duplicate |
| PF | Prep Factor |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| SPLP | Synthetic Precipitation Leachate Procedure |
| ST | Sorbent Tube |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| TZA | TimeZone Net Adjustment for sample collected outside of MAI's UTC. |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |



Glossary of Terms & Qualifier Definitions

Client: Basic Laboratory, Inc.
Project: 20A0806
WorkOrder: 2001826

Analytical Qualifiers

J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.



Analytical Report

Client: Basic Laboratory, Inc.
Date Received: 01/21/2020 10:26
Date Prepared: 01/21/2020
Project: 20A0806

WorkOrder: 2001826
Extraction Method: E625
Analytical Method: E625
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | | | Instrument | Batch ID |
|-------------------------------|--------------|------------|------------------|--------|----|------------------|----------|
| 20A0806-01 BIG SPRINGS MAIN | 2001826-001A | Water | 01/20/2020 12:57 | | | GC17 01222019.D | 192620 |
| Analytes | Result | Qualifiers | MDL | RL | DF | Date Analyzed | |
| Acenaphthene | ND | | 0.0049 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Acenaphthylene | ND | | 0.0048 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Anthracene | ND | | 0.0041 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Benzidine | ND | | 0.53 | 4.8 | 1 | 01/22/2020 17:55 | |
| Benzo (a) anthracene | ND | | 0.018 | 0.019 | 1 | 01/22/2020 17:55 | |
| Benzo (a) pyrene | ND | | 0.0062 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Benzo (b) fluoranthene | ND | | 0.0048 | 0.024 | 1 | 01/22/2020 17:55 | |
| Benzo (g,h,i) perylene | ND | | 0.0068 | 0.019 | 1 | 01/22/2020 17:55 | |
| Benzo (k) fluoranthene | ND | | 0.0061 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Benzyl Alcohol | ND | | 2.8 | 4.8 | 1 | 01/22/2020 17:55 | |
| Bis (2-chloroethoxy) Methane | ND | | 0.81 | 0.96 | 1 | 01/22/2020 17:55 | |
| Bis (2-chloroethyl) Ether | ND | | 0.0020 | 0.0048 | 1 | 01/22/2020 17:55 | |
| Bis (2-chloroisopropyl) Ether | ND | | 0.0086 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Bis (2-ethylhexyl) Adipate | ND | | 0.38 | 2.9 | 1 | 01/22/2020 17:55 | |
| Bis (2-ethylhexyl) Phthalate | ND | | 0.050 | 0.096 | 1 | 01/22/2020 17:55 | |
| 4-Bromophenyl Phenyl Ether | ND | | 0.43 | 0.96 | 1 | 01/22/2020 17:55 | |
| Butylbenzyl Phthalate | ND | | 0.027 | 0.048 | 1 | 01/22/2020 17:55 | |
| 4-Chloroaniline | ND | | 0.0049 | 0.019 | 1 | 01/22/2020 17:55 | |
| 4-Chloro-3-methylphenol | ND | | 0.53 | 0.96 | 1 | 01/22/2020 17:55 | |
| 2-Chloronaphthalene | ND | | 0.55 | 0.96 | 1 | 01/22/2020 17:55 | |
| 2-Chlorophenol | ND | | 0.0083 | 0.019 | 1 | 01/22/2020 17:55 | |
| 4-Chlorophenyl Phenyl Ether | ND | | 0.46 | 0.96 | 1 | 01/22/2020 17:55 | |
| Chrysene | ND | | 0.0090 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Dibenzo (a,h) anthracene | ND | | 0.0091 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Dibenzofuran | ND | | 0.36 | 0.96 | 1 | 01/22/2020 17:55 | |
| Di-n-butyl Phthalate | 0.015 | J | 0.012 | 0.019 | 1 | 01/22/2020 17:55 | |
| 1,2-Dichlorobenzene | ND | | 1.1 | 1.9 | 1 | 01/22/2020 17:55 | |
| 1,3-Dichlorobenzene | ND | | 1.2 | 1.9 | 1 | 01/22/2020 17:55 | |
| 1,4-Dichlorobenzene | ND | | 0.96 | 1.9 | 1 | 01/22/2020 17:55 | |
| 3,3-Dichlorobenzidine | ND | | 0.0078 | 0.019 | 1 | 01/22/2020 17:55 | |
| 2,4-Dichlorophenol | ND | | 0.0059 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Diethyl Phthalate | ND | | 0.014 | 0.019 | 1 | 01/22/2020 17:55 | |
| 2,4-Dimethylphenol | ND | | 0.78 | 0.96 | 1 | 01/22/2020 17:55 | |
| Dimethyl Phthalate | ND | | 0.011 | 0.019 | 1 | 01/22/2020 17:55 | |
| 4,6-Dinitro-2-methylphenol | ND | | 1.7 | 4.8 | 1 | 01/22/2020 17:55 | |
| 2,4-Dinitrophenol | ND | | 0.14 | 0.48 | 1 | 01/22/2020 17:55 | |
| 2,4-Dinitrotoluene | ND | | 0.0064 | 0.024 | 1 | 01/22/2020 17:55 | |

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Analytical Report

Client: Basic Laboratory, Inc.
Date Received: 01/21/2020 10:26
Date Prepared: 01/21/2020
Project: 20A0806

WorkOrder: 2001826
Extraction Method: E625
Analytical Method: E625
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | | | Instrument | Batch ID |
|---------------------------------|--------------|------------|------------------|--------|----|------------------|----------|
| 20A0806-01 BIG SPRINGS MAIN | 2001826-001A | Water | 01/20/2020 12:57 | | | GC17 01222019.D | 192620 |
| Analytes | Result | Qualifiers | MDL | RL | DF | Date Analyzed | |
| 2,6-Dinitrotoluene | ND | | 0.0051 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Di-n-octyl Phthalate | ND | | 0.019 | 0.12 | 1 | 01/22/2020 17:55 | |
| 1,2-Diphenylhydrazine | ND | | 0.39 | 0.96 | 1 | 01/22/2020 17:55 | |
| Fluoranthene | ND | | 0.0066 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Fluorene | ND | | 0.0062 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Hexachlorobenzene | ND | | 0.0041 | 0.0048 | 1 | 01/22/2020 17:55 | |
| Hexachlorobutadiene | ND | | 0.0034 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Hexachlorocyclopentadiene | ND | | 0.46 | 4.8 | 1 | 01/22/2020 17:55 | |
| Hexachloroethane | ND | | 0.0066 | 0.0096 | 1 | 01/22/2020 17:55 | |
| Indeno (1,2,3-cd) pyrene | ND | | 0.0063 | 0.019 | 1 | 01/22/2020 17:55 | |
| Isophorone | ND | | 0.64 | 0.96 | 1 | 01/22/2020 17:55 | |
| 2-Methylnaphthalene | ND | | 0.0051 | 0.0096 | 1 | 01/22/2020 17:55 | |
| 2-Methylphenol (o-Cresol) | ND | | 0.51 | 0.96 | 1 | 01/22/2020 17:55 | |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | | 0.39 | 0.96 | 1 | 01/22/2020 17:55 | |
| Naphthalene | ND | | 0.0046 | 0.0096 | 1 | 01/22/2020 17:55 | |
| 2-Nitroaniline | ND | | 1.7 | 4.8 | 1 | 01/22/2020 17:55 | |
| 3-Nitroaniline | ND | | 3.0 | 4.8 | 1 | 01/22/2020 17:55 | |
| 4-Nitroaniline | ND | | 2.6 | 4.8 | 1 | 01/22/2020 17:55 | |
| Nitrobenzene | ND | | 0.92 | 0.96 | 1 | 01/22/2020 17:55 | |
| 2-Nitrophenol | ND | | 2.3 | 4.8 | 1 | 01/22/2020 17:55 | |
| 4-Nitrophenol | ND | | 1.1 | 4.8 | 1 | 01/22/2020 17:55 | |
| N-Nitrosodiphenylamine | ND | | 0.39 | 0.96 | 1 | 01/22/2020 17:55 | |
| N-Nitrosodi-n-propylamine | ND | | 0.63 | 0.96 | 1 | 01/22/2020 17:55 | |
| Pentachlorophenol | ND | | 0.053 | 0.24 | 1 | 01/22/2020 17:55 | |
| Phenanthrene | ND | | 0.0053 | 0.019 | 1 | 01/22/2020 17:55 | |
| Phenol | ND | | 0.0085 | 0.019 | 1 | 01/22/2020 17:55 | |
| Pyrene | ND | | 0.0055 | 0.019 | 1 | 01/22/2020 17:55 | |
| Pyridine | ND | | 0.47 | 0.96 | 1 | 01/22/2020 17:55 | |
| 1,2,4-Trichlorobenzene | ND | | 0.086 | 0.96 | 1 | 01/22/2020 17:55 | |
| 2,4,5-Trichlorophenol | ND | | 0.0059 | 0.048 | 1 | 01/22/2020 17:55 | |
| 2,4,6-Trichlorophenol | ND | | 0.0047 | 0.048 | 1 | 01/22/2020 17:55 | |
| N-Nitrosodimethylamine | ND | | 2.7 | 4.8 | 1 | 01/22/2020 17:55 | |

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Analytical Report

Client: Basic Laboratory, Inc.
Date Received: 01/21/2020 10:26
Date Prepared: 01/21/2020
Project: 20A0806

WorkOrder: 2001826
Extraction Method: E625
Analytical Method: E625
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------------------------|--------------|--------|------------------|-----------------|----------|
| 20A0806-01 BIG SPRINGS MAIN | 2001826-001A | Water | 01/20/2020 12:57 | GC17 01222019.D | 192620 |

| Analytes | Result | Qualifiers | MDL | RL | DF | Date Analyzed |
|----------------------|----------------|------------|-----|---------------|----|------------------|
| Surrogates | REC (%) | | | Limits | | |
| 2-Fluorophenol | 40 | | | 1-92 | | 01/22/2020 17:55 |
| Phenol-d5 | 26 | | | 5-104 | | 01/22/2020 17:55 |
| Nitrobenzene-d5 | 63 | | | 4-143 | | 01/22/2020 17:55 |
| 2-Fluorobiphenyl | 61 | | | 9-134 | | 01/22/2020 17:55 |
| 2,4,6-Tribromophenol | 67 | | | 1-159 | | 01/22/2020 17:55 |
| Terphenyl-d14 | 40 | | | 5-150 | | 01/22/2020 17:55 |

Analyst(s): REB



Quality Control Report

Client: Basic Laboratory, Inc.
Date Prepared: 01/21/2020
Date Analyzed: 01/21/2020
Instrument: GC17
Matrix: Water
Project: 20A0806

WorkOrder: 2001826
BatchID: 192620
Extraction Method: E625
Analytical Method: E625
Unit: µg/L
Sample ID: MB/LCS/LCSD-192620

QC Summary Report for E625

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---------------------------------|-----------|--------|-------|---------|------------|--------------|
| 1,1-Biphenyl | ND | 0.012 | 0.050 | - | - | - |
| 1,2,4-Trichlorobenzene | ND | 0.089 | 1.0 | - | - | - |
| 1,2-Dichlorobenzene | ND | 1.1 | 2.0 | - | - | - |
| 1,2-Diphenylhydrazine | ND | 0.40 | 1.0 | - | - | - |
| 1,3-Dichlorobenzene | ND | 1.2 | 2.0 | - | - | - |
| 1,4-Dichlorobenzene | ND | 1.0 | 2.0 | - | - | - |
| 1-Methylnaphthalene | ND | 0.0052 | 0.010 | - | - | - |
| 2,4,5-Trichlorophenol | ND | 0.0061 | 0.050 | - | - | - |
| 2,4,6-Trichlorophenol | ND | 0.0049 | 0.050 | - | - | - |
| 2,4-Dichlorophenol | ND | 0.0061 | 0.010 | - | - | - |
| 2,4-Dimethylphenol | ND | 0.81 | 1.0 | - | - | - |
| 2,4-Dinitrophenol | ND | 0.15 | 0.50 | - | - | - |
| 2,4-Dinitrotoluene | ND | 0.0066 | 0.025 | - | - | - |
| 2,6-Dinitrotoluene | ND | 0.0053 | 0.010 | - | - | - |
| 2-Chloronaphthalene | ND | 0.57 | 1.0 | - | - | - |
| 2-Chlorophenol | ND | 0.0086 | 0.020 | - | - | - |
| 2-Methylnaphthalene | ND | 0.0053 | 0.010 | - | - | - |
| 2-Methylphenol (o-Cresol) | ND | 0.53 | 1.0 | - | - | - |
| 2-Nitroaniline | ND | 1.8 | 5.0 | - | - | - |
| 2-Nitrophenol | ND | 2.4 | 5.0 | - | - | - |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | 0.41 | 1.0 | - | - | - |
| 3,3-Dichlorobenzidine | ND | 0.0081 | 0.020 | - | - | - |
| 3-Nitroaniline | ND | 3.1 | 5.0 | - | - | - |
| 4,6-Dinitro-2-methylphenol | ND | 1.8 | 5.0 | - | - | - |
| 4-Bromophenyl Phenyl Ether | ND | 0.45 | 1.0 | - | - | - |
| 4-Chloro-3-methylphenol | ND | 0.55 | 1.0 | - | - | - |
| 4-Chloroaniline | ND | 0.0051 | 0.020 | - | - | - |
| 4-Chlorophenyl Phenyl Ether | ND | 0.48 | 1.0 | - | - | - |
| 4-Nitroaniline | ND | 2.7 | 5.0 | - | - | - |
| 4-Nitrophenol | ND | 1.1 | 5.0 | - | - | - |
| Acenaphthene | ND | 0.0051 | 0.010 | - | - | - |
| Acenaphthylene | ND | 0.0050 | 0.010 | - | - | - |
| Acetochlor | ND | 0.49 | 2.0 | - | - | - |
| Anthracene | ND | 0.0043 | 0.010 | - | - | - |
| Benzidine | ND | 0.55 | 5.0 | - | - | - |
| Benzo (a) anthracene | ND | 0.019 | 0.020 | - | - | - |
| Benzo (a) pyrene | ND | 0.0064 | 0.010 | - | - | - |
| Benzo (b) fluoranthene | ND | 0.0050 | 0.025 | - | - | - |

(Cont.)



Quality Control Report

Client: Basic Laboratory, Inc.
Date Prepared: 01/21/2020
Date Analyzed: 01/21/2020
Instrument: GC17
Matrix: Water
Project: 20A0806

WorkOrder: 2001826
BatchID: 192620
Extraction Method: E625
Analytical Method: E625
Unit: µg/L
Sample ID: MB/LCS/LCSD-192620

QC Summary Report for E625

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|-------------------------------|-----------|--------|--------|---------|------------|--------------|
| Benzo (g,h,i) perylene | ND | 0.0071 | 0.020 | - | - | - |
| Benzo (k) fluoranthene | ND | 0.0063 | 0.010 | - | - | - |
| Benzoic Acid | ND | 2.7 | 5.0 | - | - | - |
| Benzyl Alcohol | ND | 2.9 | 5.0 | - | - | - |
| Bis (2-chloroethoxy) Methane | ND | 0.84 | 1.0 | - | - | - |
| Bis (2-chloroethyl) Ether | ND | 0.0021 | 0.0050 | - | - | - |
| Bis (2-chloroisopropyl) Ether | ND | 0.0089 | 0.010 | - | - | - |
| Bis (2-ethylhexyl) Adipate | ND | 0.39 | 3.0 | - | - | - |
| Bis (2-ethylhexyl) Phthalate | ND | 0.052 | 0.10 | - | - | - |
| Butylbenzyl Phthalate | ND | 0.028 | 0.050 | - | - | - |
| Carbazole | ND | 0.36 | 1.0 | - | - | - |
| Chrysene | ND | 0.0093 | 0.010 | - | - | - |
| Dibenzo (a,h) anthracene | ND | 0.0094 | 0.010 | - | - | - |
| Dibenzofuran | ND | 0.37 | 1.0 | - | - | - |
| Diethyl Phthalate | ND | 0.015 | 0.020 | - | - | - |
| Dimethyl Phthalate | ND | 0.011 | 0.020 | - | - | - |
| Di-n-butyl Phthalate | ND | 0.012 | 0.020 | - | - | - |
| Di-n-octyl Phthalate | ND | 0.020 | 0.12 | - | - | - |
| Fluoranthene | ND | 0.0068 | 0.010 | - | - | - |
| Fluorene | ND | 0.0064 | 0.010 | - | - | - |
| Hexachlorobenzene | ND | 0.0043 | 0.0050 | - | - | - |
| Hexachlorobutadiene | ND | 0.0035 | 0.010 | - | - | - |
| Hexachlorocyclopentadiene | ND | 0.48 | 5.0 | - | - | - |
| Hexachloroethane | ND | 0.0068 | 0.010 | - | - | - |
| Indeno (1,2,3-cd) pyrene | ND | 0.0065 | 0.020 | - | - | - |
| Isophorone | ND | 0.66 | 1.0 | - | - | - |
| Naphthalene | ND | 0.0048 | 0.010 | - | - | - |
| n-Decane | ND | 1.3 | 2.0 | - | - | - |
| Nitrobenzene | ND | 0.95 | 1.0 | - | - | - |
| N-Nitrosodimethylamine | ND | 2.8 | 5.0 | - | - | - |
| N-Nitrosodi-n-propylamine | ND | 0.65 | 1.0 | - | - | - |
| N-Nitrosodiphenylamine | ND | 0.41 | 1.0 | - | - | - |
| n-Octadecane | ND | 0.29 | 1.0 | - | - | - |
| Pentachlorophenol | ND | 0.055 | 0.25 | - | - | - |
| Phenanthrene | ND | 0.0055 | 0.020 | - | - | - |
| Phenol | ND | 0.0088 | 0.020 | - | - | - |
| Pyrene | ND | 0.0057 | 0.020 | - | - | - |
| Pyridine | ND | 0.49 | 1.0 | - | - | - |

(Cont.)



Quality Control Report

| | |
|---------------------------------------|--------------------------------------|
| Client: Basic Laboratory, Inc. | WorkOrder: 2001826 |
| Date Prepared: 01/21/2020 | BatchID: 192620 |
| Date Analyzed: 01/21/2020 | Extraction Method: E625 |
| Instrument: GC17 | Analytical Method: E625 |
| Matrix: Water | Unit: µg/L |
| Project: 20A0806 | Sample ID: MB/LCS/LCSD-192620 |

QC Summary Report for E625

| Analyte | MB Result | MDL | RL | SPK Val | MB SS %REC | MB SS Limits |
|---------------------------|--------------|-----|----|------------|---------------|-----------------|
| Surrogate Recovery | | | | | | |
| 2-Fluorophenol | 3.6 | | | 5 | 71 | 36-131 |
| Phenol-d5 | 3.7 | | | 5 | 74 | 43-149 |
| Nitrobenzene-d5 | 3.7 | | | 5 | 73 | 39-150 |
| 2-Fluorobiphenyl | 3.4 | | | 5 | 69 | 43-133 |
| 2,4,6-Tribromophenol | 3.5 | | | 5 | 71 | 42-147 |
| 4-Terphenyl-d14 | 2.7 | | | 5 | 54 | 44-124 |

(Cont.)



Quality Control Report

Client: Basic Laboratory, Inc.
Date Prepared: 01/21/2020
Date Analyzed: 01/21/2020
Instrument: GC17
Matrix: Water
Project: 20A0806

WorkOrder: 2001826
BatchID: 192620
Extraction Method: E625
Analytical Method: E625
Unit: µg/L
Sample ID: MB/LCS/LCSD-192620

QC Summary Report for E625

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---------------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| 1,2,4-Trichlorobenzene | 7.1 | 6.9 | 10 | 71 | 69 | 54-112 | 3.40 | 25 |
| 1,2-Dichlorobenzene | 6.0 | 5.7 | 10 | 60 | 57 | 43-125 | 4.95 | 25 |
| 1,2-Diphenylhydrazine | 6.9 | 6.3 | 10 | 69 | 63 | 53-110 | 9.28 | 25 |
| 1,3-Dichlorobenzene | 5.9 | 5.6 | 10 | 59 | 56 | 55-108 | 4.89 | 25 |
| 1,4-Dichlorobenzene | 5.8 | 5.6 | 10 | 58 | 56 | 52-108 | 3.88 | 25 |
| 2,4,5-Trichlorophenol | 0.40 | 0.36 | 0.50 | 80 | 72 | 52-119 | 10.5 | 25 |
| 2,4,6-Trichlorophenol | 0.38 | 0.36 | 0.50 | 77 | 71 | 53-115 | 7.71 | 25 |
| 2,4-Dichlorophenol | 8.2 | 7.7 | 10 | 82 | 77 | 56-121 | 5.56 | 25 |
| 2,4-Dimethylphenol | 7.8 | 7.4 | 10 | 78 | 74 | 47-112 | 4.98 | 25 |
| 2,4-Dinitrophenol | 8.8 | 8.5 | 10 | 88 | 85 | 29-114 | 2.84 | 25 |
| 2,4-Dinitrotoluene | 0.49 | 0.45 | 0.50 | 98 | 90 | 59-128 | 8.96 | 25 |
| 2,6-Dinitrotoluene | 0.47 | 0.43 | 0.50 | 94 | 86 | 56-118 | 8.51 | 25 |
| 2-Chloronaphthalene | 7.4 | 7.0 | 10 | 74 | 70 | 54-109 | 5.64 | 25 |
| 2-Chlorophenol | 0.30 | 0.29 | 0.50 | 61 | 58 | 51-117 | 5.52 | 25 |
| 2-Methylnaphthalene | 0.40 | 0.38 | 0.50 | 80 | 76 | 51-132 | 5.56 | 25 |
| 2-Methylphenol (o-Cresol) | 6.8 | 6.4 | 10 | 68 | 64 | 47-127 | 4.95 | 25 |
| 2-Nitroaniline | 44 | 39 | 50 | 87 | 79 | 56-126 | 9.99 | 25 |
| 2-Nitrophenol | 43 | 41 | 50 | 85 | 82 | 60-119 | 4.07 | 25 |
| 3 & 4-Methylphenol (m,p-Cresol) | 8.4 | 7.8 | 10 | 84 | 78 | 51-126 | 7.39 | 25 |
| 3,3-Dichlorobenzidine | 0.40 | 0.37 | 0.50 | 80 | 74 | 52-118 | 8.07 | 25 |
| 3-Nitroaniline | 46 | 41 | 50 | 92 | 83 | 57-124 | 10.3 | 25 |
| 4,6-Dinitro-2-methylphenol | 43 | 40 | 50 | 87 | 80 | 33-117 | 7.98 | 25 |
| 4-Bromophenyl Phenyl Ether | 6.9 | 6.3 | 10 | 69 | 63 | 53-108 | 9.19 | 25 |
| 4-Chloro-3-methylphenol | 7.6 | 6.9 | 10 | 76 | 69 | 60-126 | 9.26 | 25 |
| 4-Chloroaniline | 0.41 | 0.38 | 0.50 | 82 | 77 | 57-121 | 6.83 | 25 |
| 4-Chlorophenyl Phenyl Ether | 7.6 | 7.0 | 10 | 76 | 70 | 59-108 | 8.86 | 25 |
| 4-Nitroaniline | 46 | 42 | 50 | 93 | 84 | 58-130 | 9.67 | 25 |
| 4-Nitrophenol | 46 | 41 | 50 | 91 | 82 | 34-143 | 10.2 | 25 |
| Acenaphthene | 0.39 | 0.36 | 0.50 | 77 | 71 | 55-112 | 7.78 | 25 |
| Acenaphthylene | 0.41 | 0.38 | 0.50 | 83 | 76 | 53-109 | 8.26 | 25 |
| Anthracene | 0.38 | 0.34 | 0.50 | 76 | 68 | 57-112 | 10.7 | 25 |
| Benzidine | 24 | 26 | 50 | 48 | 53 | 33-87 | 8.40 | 25 |
| Benzo (a) anthracene | 0.41 | 0.37 | 0.50 | 81 | 74 | 54-103 | 9.13 | 25 |
| Benzo (a) pyrene | 0.39 | 0.36 | 0.50 | 78 | 71 | 50-116 | 9.46 | 25 |
| Benzo (b) fluoranthene | 1.9 | 1.7 | 2.5 | 74 | 68 | 49-111 | 9.08 | 25 |
| Benzo (g,h,i) perylene | 0.38 | 0.35 | 0.50 | 76 | 69 | 48-106 | 9.75 | 25 |
| Benzo (k) fluoranthene | 0.37 | 0.40 | 0.50 | 74 | 80 | 52-111 | 8.00 | 25 |
| Benzyl Alcohol | 39 | 36 | 50 | 78 | 72 | 38-130 | 8.32 | 25 |

(Cont.)



Quality Control Report

Client: Basic Laboratory, Inc.
Date Prepared: 01/21/2020
Date Analyzed: 01/21/2020
Instrument: GC17
Matrix: Water
Project: 20A0806

WorkOrder: 2001826
BatchID: 192620
Extraction Method: E625
Analytical Method: E625
Unit: µg/L
Sample ID: MB/LCS/LCSD-192620

QC Summary Report for E625

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| Bis (2-chloroethoxy) Methane | 7.3 | 7.0 | 10 | 73 | 70 | 52-120 | 5.42 | 25 |
| Bis (2-chloroethyl) Ether | 0.33 | 0.31 | 0.50 | 66 | 63 | 37-142 | 5.27 | 25 |
| Bis (2-chloroisopropyl) Ether | 0.33 | 0.32 | 0.50 | 66 | 64 | 40-140 | 2.75 | 25 |
| Bis (2-ethylhexyl) Adipate | 7.4 | 6.6 | 10 | 74 | 66 | 49-109 | 11.1 | 25 |
| Bis (2-ethylhexyl) Phthalate | 0.38 | 0.34 | 0.50 | 76 | 67 | 39-136 | 12.1 | 25 |
| Butylbenzyl Phthalate | 0.38 | 0.34 | 0.50 | 76 | 68 | 48-124 | 9.83 | 25 |
| Chrysene | 0.38 | 0.35 | 0.50 | 76 | 69 | 53-104 | 8.92 | 25 |
| Dibenzo (a,h) anthracene | 0.40 | 0.37 | 0.50 | 80 | 73 | 51-112 | 9.42 | 25 |
| Dibenzofuran | 7.7 | 7.1 | 10 | 77 | 71 | 57-108 | 7.64 | 25 |
| Diethyl Phthalate | 0.41 | 0.37 | 0.50 | 82 | 74 | 56-122 | 9.96 | 25 |
| Dimethyl Phthalate | 0.43 | 0.38 | 0.50 | 85 | 77 | 49-121 | 10.3 | 25 |
| Di-n-butyl Phthalate | 0.41 | 0.37 | 0.50 | 82 | 73 | 52-121 | 11.1 | 25 |
| Di-n-octyl Phthalate | 0.39 | 0.35 | 0.50 | 79 | 70 | 36-152 | 11.2 | 25 |
| Fluoranthene | 0.41 | 0.37 | 0.50 | 82 | 74 | 56-117 | 10.5 | 25 |
| Fluorene | 0.42 | 0.38 | 0.50 | 84 | 77 | 58-119 | 9.22 | 25 |
| Hexachlorobenzene | 0.37 | 0.34 | 0.50 | 74 | 67 | 51-107 | 9.76 | 25 |
| Hexachlorobutadiene | 0.34 | 0.32 | 0.50 | 67 | 65 | 54-109 | 4.06 | 25 |
| Hexachlorocyclopentadiene | 36 | 34 | 50 | 72 | 68 | 26-107 | 5.84 | 25 |
| Hexachloroethane | 0.35 | 0.34 | 0.50 | 71 | 68 | 52-109 | 4.50 | 25 |
| Indeno (1,2,3-cd) pyrene | 0.40 | 0.36 | 0.50 | 79 | 72 | 50-107 | 9.34 | 25 |
| Isophorone | 7.6 | 6.9 | 10 | 76 | 69 | 58-120 | 10.7 | 25 |
| Naphthalene | 0.37 | 0.35 | 0.50 | 74 | 71 | 49-116 | 4.70 | 25 |
| Nitrobenzene | 7.2 | 6.8 | 10 | 72 | 68 | 52-119 | 6.11 | 25 |
| N-Nitrosodimethylamine | 35 | 33 | 50 | 70 | 66 | 42-121 | 6.02 | 25 |
| N-Nitrosodi-n-propylamine | 6.6 | 6.1 | 10 | 66 | 61 | 55-122 | 7.64 | 25 |
| N-Nitrosodiphenylamine | 7.7 | 6.9 | 10 | 77 | 69 | 56-106 | 10.9 | 25 |
| Pentachlorophenol | 2.0 | 1.9 | 2.5 | 81 | 74 | 45-119 | 9.02 | 25 |
| Phenanthrene | 0.38 | 0.34 | 0.50 | 76 | 69 | 56-108 | 10.1 | 25 |
| Phenol | 1.6 | 1.5 | 2 | 79 | 74 | 50-118 | 7.18 | 25 |
| Pyrene | 0.41 | 0.37 | 0.50 | 81 | 74 | 49-104 | 9.12 | 25 |
| Pyridine | 6.4 | 6.4 | 10 | 64 | 64 | 36-96 | 0 | 25 |

(Cont.)



Quality Control Report

Client: Basic Laboratory, Inc.
Date Prepared: 01/21/2020
Date Analyzed: 01/21/2020
Instrument: GC17
Matrix: Water
Project: 20A0806

WorkOrder: 2001826
BatchID: 192620
Extraction Method: E625
Analytical Method: E625
Unit: µg/L
Sample ID: MB/LCS/LCSD-192620

QC Summary Report for E625

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| Surrogate Recovery | | | | | | | | |
| 2-Fluorophenol | 3.0 | 3.1 | 5 | 60 | 63 | 36-131 | 4.18 | 25 |
| Phenol-d5 | 3.3 | 3.4 | 5 | 66 | 68 | 43-149 | 1.78 | 25 |
| Nitrobenzene-d5 | 3.7 | 3.9 | 5 | 74 | 77 | 39-150 | 3.65 | 25 |
| 2-Fluorobiphenyl | 3.7 | 3.8 | 5 | 74 | 76 | 43-133 | 2.62 | 25 |
| 2,4,6-Tribromophenol | 3.7 | 3.6 | 5 | 74 | 72 | 42-147 | 2.51 | 25 |
| 4-Terphenyl-d14 | 3.0 | 3.0 | 5 | 61 | 59 | 44-124 | 0 | 25 |

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2001826 ClientCode: BASIC QuoteID: 192096

WaterTrax WriteOn EDF
 Excel EQulS Email HardCopy ThirdParty J-flag
 Detection Summary Dry-Weight

Requested TAT: 5 days;

Bill to:
 Nathan Hawley
 Basic Laboratory, Inc.
 2218 Railroad Avenue
 Redding, CA 96001
 accounting@basiciab.com

Email: jmccurdy@basiciab.com
 cc/3rd Party:
 PO:
 Project: 20A0806

Date Received: 01/21/2020
 Date Logged: 01/21/2020

Report to:
 Jennifer McCurdy
 Basic Laboratory, Inc.
 2218 Railroad Avenue
 Redding, CA 96001
 530.243.7234 FAX: 530.243.7494

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | | |
|-------------|-----------------------------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|--|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| 2001826-001 | 20A0806-01 BIG SPRINGS MAIN | Water | 1/20/2020 12:57 | <input type="checkbox"/> | A | A | | | | | | | | | | | | |

Test Legend:

| | | | |
|---|------------|----|----|
| 1 | 625_SCSM_W | 3 | 4 |
| 5 | | 7 | 8 |
| 9 | | 11 | 12 |

Project Manager: Susan Thompson

Prepared by: Agustina Venegas

Comments: Susan is PM

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.
 "When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
 http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: BASIC LABORATORY, INC.
Client Contact: Jennifer McCurdy
Contact's Email: jmccurdy@basiclab.com

Project: 20A0806
Comments: Susan is PM

Work Order: 2001826
QC Level:
Date Logged: 1/21/2020

WaterTrax WriteOn EDF Excel EQUIS Email HardCopy ThirdParty J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative chlorinated | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold SubOut |
|--------------|------------|--------|--------------|------------------------|-----------------------------------|----------------|------------------------|--------|------------------|-------------|
| 2001826-001A | 20A0806-01 | Water | E625 (SVOCs) | 2 | | | 1/20/2020 12:57 | 5 days | None | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

SUBCONTRACT ORDER

Basic Laboratory Inc
20A0806

2001824

SENDING LABORATORY:

Basic Laboratory Inc
2218 Railroad Avenue
Redding, CA 96001-2504
Phone: (530) 243-7234
Fax: (530) 243-6204
Jennifer McCurdy

RECEIVING LABORATORY:

McCAMPBELL ANALYTICAL INC
1534 WILLOW PASS RD
PITTSBURG, CA 94565
Phone :(925) 252-9262
Fax: (925) 798-1622
jmccurdy@basiclab.com

Please use standard TAT unless specific due date is requested. Report to the MDL with J flags. Per Quote: 192096

| Analysis | Due | Expires | Laboratory ID | Comments |
|----------|-----|---------|---------------|----------|
|----------|-----|---------|---------------|----------|

| | | | | |
|--|---------------------------|---------------------------|-------------------------|--|
| ✓ Sample ID: 20A0806-01 | BIG SPRINGS MAIN | Water | Sampled: 01/20/20 12:57 | |
| 625 - Semivolatile Organic Compounds SUB | 02/03/20 15:00 | 01/27/20 12:57 | | |
| Containers Supplied: | | | | |
| 1L Amber Unpres (A) | 1L Amber Unpres (B) | | | |

n. b. c. wet

| | | | |
|-------------|---------|-------------|-----------|
| Ethan J | 1.20.20 | [Signature] | 1/21/2020 |
| Released By | Date | Received By | Date |

| | | | |
|-------------|------|-------------|------|
| | | | |
| Released By | Date | Received By | Date |

UPS. 1Z8336E30379410619



Sample Receipt Checklist

Client Name: **Basic Laboratory, Inc.**
 Project: **20A0806**

Date and Time Received: **1/21/2020 10:26**
 Date Logged: **1/21/2020**
 Received by: **Agustina Venegas**
 Logged by: **Agustina Venegas**

WorkOrder No: **2001826** Matrix: Water
 Carrier: UPS

Chain of Custody (COC) Information

| | | | |
|---|---|--|-----------------------------|
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample IDs noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Date and Time of collection noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sampler's name noted on COC? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| COC agrees with Quote? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |

Sample Receipt Information

| | | | |
|--|---|-----------------------------|--|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper containers/bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Sample Preservation and Hold Time (HT) Information

| | | | |
|---|---|-----------------------------|-----------------------------|
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| Samples Received on Ice? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

(Ice Type: WET ICE)

| | | | |
|--|---|-----------------------------|--|
| Sample/Temp Blank temperature | | Temp: 3.6°C | NA <input type="checkbox"/> |
| Water - VOA vials have zero headspace / no bubbles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Sample labels checked for correct preservation? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

UCMR Samples:

| | | | |
|--|------------------------------|-----------------------------|--|
| pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Free Chlorine tested and acceptable upon receipt (<0.1mg/L)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

 Comments:

20A0806
1

BASIC LABORATORY CHAIN OF CUSTODY RECORD

2218 Railroad Avenue, Redding, CA 96001 (530) 243-7234 FAX (530) 243-7494

LAB #: 20A0806

CLIENT NAME: W.A.T.E.R
We Advocate Thorough Environmental Review
MAILING ADDRESS:
724 Butte Ave.
mt. Shasta, CA 96067

PROJECT NAME: Big Springs

PROJECT #: 2B

PAGE 1 OF 1

REPORT DUE DATE: 2.3.20

TURN AROUND TIME: Standard Rush

OF SAMPLES: 2

PROJECT MANAGER: Raven Stevens (RS)

PHONE: 530-925-0493

EMAIL: flyraven@sbcglobal.net

| ANALYSIS REQUESTED | |
|--------------------|---|
| NUMBER OF BOTTLES | <u>525-2 SVOC</u> <u>(625 per past practice)</u> |

MATRIX / TYPE: W

CUSTODY SEAL INTACT?
Yes No N/A

SYSTEM #:

EDD TYPE:

QC: Standard Level II

FAX:

RESULTS SENT: Email Fax EDD Mail

INVOICE TO: Same as above

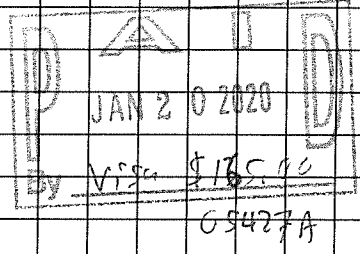
PO#:

| SAMPLE DATE | SAMPLE TIME | WATER | COMP | SOLID | SAMPLE LOCATION / IDENTIFICATION |
|-------------|-------------|-------|------|-------|----------------------------------|
|-------------|-------------|-------|------|-------|----------------------------------|

| | | | | | |
|----------------|--------------|--|--|--|----------------------------|
| <u>1-20-20</u> | <u>12:57</u> | | | | <u>Big Springs - March</u> |
| <u>1-20-20</u> | <u>12:59</u> | | | | <u>Big Springs - March</u> |

| | | | | | |
|----------|----------|--|--|--|--|
| <u>2</u> | <u>X</u> | | | | |
| | <u>X</u> | | | | |

| LAB ID | CHLORINE RESIDUAL OR COMMENTS |
|----------|-------------------------------|
| <u>1</u> | <u>10.96</u> |



' Client requests 625-SVOC per past work 15F036d - 1-20-20

PRESERVED WITH: HNO₃ H₂SO₄ NaOH ZnAc/NaOH HCL NaThio OTHER _____

| | | | |
|--|-------------------------------------|---|-----------------------------------|
| SAMPLED BY (PRINT): <u>Raven Stevens</u> | SAMPLE DATE/TIME: <u>1-20-20 AM</u> | RELINQUISHED BY: <u>Raven Stevens</u> | DATE/TIME: <u>1-20-20 1:04 pm</u> |
| RECEIVED BY: <u>FRANK TORIELLO</u> | DATE/TIME: <u>1/20/20 1:05 PM</u> | RELINQUISHED BY: <u>Frank S. Toriello</u> | DATE/TIME: <u>1/20/20 2:43 PM</u> |
| RECEIVED BY (LAB): <u>Ethan J</u> | DATE/TIME: <u>1.20.20 1443</u> | PROCESSED AND VERIFIED BY: <u>Ethan J</u> | DATE/TIME: <u>1-20-20 1448</u> |
| LOGGED IN BY: <u>Ethan J</u> | DATE/TIME: <u>1.20.20 1455</u> | CARRIER: _____ | COOLER TEMPERATURE: _____ °c |

INSTRUCTIONS, TERMS AND CONDITIONS ON BACK.

SAMPLE TYPE: 1 = ROUTINE, 2 = REPEAT, 3 = REPLACEMENT, 4 = SPECIAL 5 = RAW