**Eaton Analytical** 

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Laboratory Report

for

Honolulu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843 Attention: Erwin Kawata Fax: 808-550-5018

Date of Issue 05/23/2022

DEB: Debbie L Frank

Project Manager

Report: 1001682 Project: RED-HILL Group: Weekly TPH-8015\_RED-HILL (2022) - EMAX

\* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.

- \* Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis.
- \* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received,
- Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.
- \* Test results relate only to the sample(s) tested.
- \* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
- \* This report shall not be reproduced except in full, without the written approval of the laboratory.
- \* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

ORAT

Utah ELCP CA00006



**Eaton Analytical** 

## STATE CERTIFICATION LIST

| State            | <b>Certification Number</b> | State                                      | Certification Number |
|------------------|-----------------------------|--|----------------------|
| Alabama          | 41060                       | Montana                                    | Cert 0035            |
| Arizona          | AZ0778                      | Nebraska                                   | NE-OS-21-13          |
| Arkansas         | CA00006                     | Nevada                                     | CA00006              |
| California       | 2813                        | New Hampshire *                            | 2959                 |
| Colorado         | CA00006                     | New Jersey *                               | CA 008               |
| Connecticut      | PH-0107                     | New Mexico                                 | CA00006              |
| Delaware         | CA 006                      | New York *                                 | 11320                |
| Florida *        | E871024                     | North Carolina                             | 06701                |
| Georgia          | 947                         | North Dakota                               | R-009                |
| Guam             | 21-008R                     | Ohio - 537.1                               | 87786                |
| Hawaii           | CA00006                     | Oregon *                                   | 4034                 |
| Idaho            | CA00006                     | Pennsylvania *                             | 68-00565             |
| Illinois         | 200033                      | Puerto Rico                                | CA00006              |
| Indiana          | C-CA-01                     | Rhode Island                               | LAO00326             |
| Iowa – Asbestos  | 413                         | South Carolina                             | 87016                |
| Kansas *         | E-10268                     | South Dakota                               | CA11320              |
| Kentucky         | 90107                       | Tennessee                                  | TN02839              |
| Louisiana *      | LA008                       | Texas *                                    | T104704230-20-18     |
| Maine            | CA00006                     | Utah (Primary AB) *                        | CA00006              |
| Maryland         | 224                         | Vermont                                    | VT0114               |
| Marianas Islands | MP0004                      | Virginia *                                 | 460260               |
| Massachusetts    | M-CA006                     | Washington                                 | C838                 |
| Michigan         | 9906                        | EPA Region 5                               | CA00006              |
| Mississippi      | CA00006                     | Los Angeles County<br>Sanitation Districts | 10264                |

# \* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC

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### ISO/IEC 17025:2917 Accredited Method List

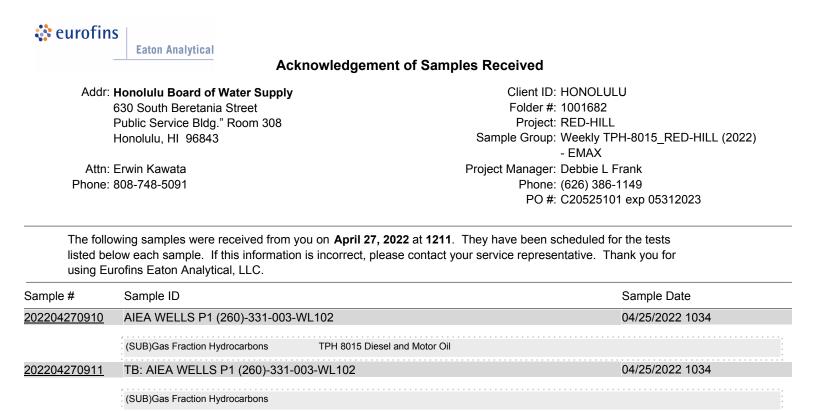
The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA. Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:

|   | https:// | www.e | eurofinsus. | .com/Eator |
|---|----------|-------|-------------|------------|
| - |          |       |             |            |

| Test(s)Method(s)Potable<br>WaterWaste<br>WaterEnterococciEnterolentxxEscherichia coliSM 9221 FxxFecal Coliform (PA and<br>Enumeration)M9230 BxxFecal Streptococci and<br>EnumerationSM 9230 BxxHeterotrophic BacteriaSM 9215 BxxLegionellaLegiolett®xxPseudomonas aeruginosaPseudalentxxTotal Coliform, TotalSM 9221, SM 8221 CxxTotal Coliform, TotalSM 9221, SM 8221 CxxPresentSM 9221, SM 8221 CxxTotal Coliform, TotalSM 9221 BxxTotal Coliform, TotalSM 9223xxTotal Coliform, TotalSM 9223xxTotal Coliforny, TotalSM 9221 BxxTotal Coliforny, Total not faita BxxTotal Coliforny, TotalSM 9223xTotal Coliforny, TotalSM 9221 BxTotal Coliforny, TotalSM 9221 BxTotal Coliforny, TotalSM 9221 BxAlcalinitySM 9223xAlcalinitySM 9200 CxAlcalinitySM 9200 CxAlcalinitySM 920  |                            |                                       |         | www.eu |
|---|----------------------------|---------------------------------------|---------|--------|
| WaterWaterEnterococciEnteroleftXXEscherichia coliSM 9221 F.1XXFecal Coliform (P/A and<br>EnterococciSM 9221 F.1XXFecal Streptococci and<br>EnterococciSM 9220 B.XXFecal Streptococci and<br>EnterococciSM 9220 B.XXHeterotrophic BacteriaSM 9215 B.XXPseudomonas aeruginosa<br>PseudalentNXXTotal Coliform (P/A and<br>Enumeration)SM 9221 G.XXTotal Coliform, Total<br>Coliform with Chlorine<br>PresentSM 9221 B.XXTotal Coliform, Total<br>Coliform with Chlorine<br>RodukinsSM 9223XXTotal Coliform (P/A and<br>Enumeration, Idexx Collier,<br>Idexx Collier, SM 9221 B.XXYeast and MoidSM 9223XX12.3.7.6.TODModified EPA<br>1613 BXXYeast and MoidSM 9200XX1.2.3.7.6.TODModified EPA<br>1613 BXXAcrylamide*LCMS 2440)XXAlgal Toxins/Microcystin*LCMS 2440XXAdrylamide*LCMS 2440XXAcrylamide*LCMS 2440XXAcrylamide*LCMS 2440XXAcrylamide*LCMS 2440XXAcrylamide*LCMS 2440XXAcrylamide*LCMS 2440XXAcrylamide*LCMS 2440XXAcrylamide*LCMS 2440  | Test(s)                    | Method(s)                             |         |        |
| Escherichie coli         SM 9221 F. 1         x           Fecal Coliform (P/A and<br>Enumeration)         SM 923 Context (Context (Contex                               | 1001(0)                    | mounou(o)                             | Water * | Water  |
| (Enumeration)SM 9221 FXFecal Coliform (P/A and<br>EnUmeration)MTFE0, SM 9221<br>EUTFE0)XXFecal Streptococci and<br>EnterrocociSM 9230 BXXHeterotrophic BacteriaSM 9215 BXXLegionellaLegioletBXXPseudomonas aeruginosaIdexxXXTotal Coliform, Total<br>   | Enterococci                | Enterolert                            | х       | x      |
| LEnumeration)       SM 9221 F         Fecal Colliform (P/A and<br>Enterotococi       SM 9230 B       x       x         Heterotrophic Bacteria       SM 9215 B       x       x         Pseudomonas aeruginosa       Idexx       x       x         Pseudomonas aeruginosa       Idexx       x       x         Total Collform (P/A and<br>Enumeration)       SM 9221 B       x       x         Total Collform, Total<br>Collform with closic (P/A and<br>Enumeration, Idexx Colliert, SM 9221 B       x       x         Total Collform, Ecoli (P/A and<br>Enumeration, Idexx Colliert, SM 9223 x       x       x         Total Collform, Idex Colliert, SM 9223 x       x       x         Total Collform, Idex Colliert, SM 9223 x       x       x         Total Moorystins and<br>Nodularins       EPA 546       X         Yeast and Mold       SM 9203 X       x         1,2,3-Trichloropropane<br>(TCP) at 5 PPT       TCP       x         1,4-Dicxane       EPA 522       x       x         Alkalinity as       SM 2320B       x       x         Acrylamide       *LCMS 2440)       x       x         Acrylamide       *LCMS 2300 B       x       x         Bob/CBOD       SM 5210 B       x       x         <   | Escherichia coli           | SM 9221 B.1                           | ×       |        |
| Telenomeration       IMTFECD, SM 8221       X       X         Fecal Streptococci and<br>Enterococci       SM 9230 B       X       X         Heterotrophic Bacteria       SM 9215 B       X       X         Pseudomonas aeruginosa       Legiolent®       X       X         Total Coliform (P/A and<br>Enumeration)       SM 9221, SM<br>92218, SM 9221 C       X       X         Total Coliform, total<br>Coliform with Chlorine<br>Present       SM 9223       X       X         Total Coliform, Gal (PA and<br>Enumeration)       SM 9223       X       X         Yeast and Mold       SM 9223       X       X       X         Total Coliform, Gal (PA and<br>Enumeration, Idex Colient,<br>Idex Colient 18, Colisure)       SM 9223       X       X         Yeast and Mold       SM 9220       X       X       X         12,3-Tichloropropane<br>(TCP) at 5 PPT       TCP       X       X         14,4-Dioxane       EPA 522       X       X         Acrylamide       *LCMS 3470       X       X         Algal Toxins/Microcystin       *LCMS 3470       X       X         Acrylamide       SM 4500-NH3       X       X         Bicarbonate Alkalinity as       SM 4500-L12       X       X         Bicarbonate alkol  | (Enumeration)              |                                       | ×       |        |
| Enumeration)       E_MTFEC)         Fecal Streptococci and<br>Enterococci       SM 9230 B       x         Heterotrophic Bacteria       SM 9215 B       x         Pseudomonas aeruginosa       Idexx<br>Pseudalart       x         Total Coliform (P/A and<br>Enumeration)       SM 9221 B       x       x         Total Coliform, Total<br>Coliform with Chorine       SM 9221 B       x       x         Total Coliform (F. coli (P/A and<br>Enumeration, Idex Colient,<br>SM 9221 B       x       x         Total Coliform (F. coli (P/A and<br>Enumeration, Idex Colient,<br>SM 9223 x       x       x         Total Coliform with coli (P/A and<br>Enumeration, Idex Colient,<br>SM 9210 x       x       x         Yeast and Mold       SM 9223 x       x       x         1,2,3-Trichloropropane<br>(TCP) at 5 PPT       CA SRL 524M-<br>TCP       x       x         2,3,7,8-TCD       Modified EPA<br>1613 B       x       x         Acrylamide       * LCMS 3870 x       x       x         Algal Toxins/Microcystin       * LCMS 3870 x       x       x         Asbestos       EPA 400.2 x       x       x         Bicarbonate Alkalinity as       M2300 B       x       x         HCO3       SM 2300 B       x       x         Chorinate as CO3       SM 5  | Fecal Coliform (P/A and    | SM 9221 C                             |         |        |
| Fecal Streptococci<br>enterococciSM 9230 BxxHeterotrophic BacteriaSM 9215 BxLegionellaLegiolert®xPseudomonas aeruginosaIdexx<br>PseudalertxTotal Collform (P/A and<br>Enumeration)SM 9221 CxTotal Collform (P/A and<br>Enumeration, texx Coller,<br>Idexx Collert,<br>Idexx Collert 18, Collisore)SM 9221 BxTotal Collform F. coll (P/A and<br>Enumeration, texx Coller,<br>Idexx Collert 18, Collisore)SM 9223xTotal Microrysins and<br>NodularinsEPA 546XYeast and MoldSM 9610x1,2,3-Trichloropropane<br>(If 3 BCA SRL 524M-<br>Total SPPT<br>(If 3 BX2,3,7,8-TCDDModified EPA<br>1613 BXAcrylamide* LCMS 2440)xAlkalinitySM 2320BxAlkalinitySM 2302BxAlkalinitySM 2300BxAlkalinitySM 2300 BxAnrionate a SC03SM 2330 BxAcrylamide* LCMS-2447xCarbonate Alkalinity as<br>HC03SM 2300 BxBicarbonate Alkalinity as<br>HC03SM 230 BxCarbonylsEPA 556xChorinated AcidsEPA 515.4xChorinated AcidsEPA 120.1,<br>SM 5220DxChorinated AcidsEPA 120.1,<br>SM 230 BxChorinated AcidsEPA 120.1,<br>SM 230 BxChorinated AcidsEPA 120.1,<br>SM 230 BxChorinated AcidsEPA 120.1,<br>SM 230 Bx </td <td>Enumeration)</td> <td>E (MTF/EC), SM 9221</td> <td>x</td> <td>x</td>  | Enumeration)               | E (MTF/EC), SM 9221                   | x       | x      |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  |                            |                                       |         |        |
| Heterotrophic Bacteria       SM 9215 B       x         Legionella       Legiolett®       x         Pseudomonas aeruginosa       Idexx       Pseudalert       x         Total Coliform (P/A and<br>Enumeration)       SM 9221 B       x       x         Total Coliform, Total<br>Coliform with Chlorine<br>Present       SM 9221 B       x       x         Total Coliform, E.oil (P/A and<br>Enumeration, Idex Collert,<br>Idexx Collert 18, Collisore)       SM 9223       x       x         Total Microcystins and<br>Nodularins       EPA 546       X       x       x         1,2,3-Trichloropropane<br>(TCP) at 5 PPT       CA SRL 524M-<br>Total 3B       x       x         4,4g1 Toxins/Microcystin       *LCMS 2440)       x       x         Acrytamide       *LCMS 2440)       x       x         Algal Toxins/Microcystin       *LCMS 2440)       x       x         Activalinity       SM 2320B       x       x         Activalinity as       SM 2330 B       x       x         Carbonate ak CO3       SM 2330 B       x       x   |                            | SM 9230 B                             | х       | х      |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$  |                            | SM 9215 B                             | x       |        |
| Pseudomonas aeruginosa         Idexx<br>Pseudalert         x           Total Coliform (P/A and<br>Enumeration)         SM 92216, SM 9221 C         X         X           Total Coliform, Total<br>Coliform with Chlorine<br>Present         SM 9221 B         X         X           Total Coliform, Fotal<br>Enumeration, Idex Colient,<br>Brosson, Idex Colient,<br>Nodularins         SM 9223         X         X           Total Microcystin and<br>Nodularins         EPA 546         X         X           Yeast and Mold         SM 9210         X         X           1,2,3-Trichloropropane<br>(TCP) at 5 PPT         CA SRL 524M-<br>1613 B         X         X           Acrylamide         *LCMS 3870         X         X           Algal Toxins/Microcystin<br>*LCMS 3870         X         X           Akalinity         SM 2320B         X         X           Bicarbonate Alkalinity as<br>Bicarbonate Alkalinity as<br>Bicarbonate Alkalinity as<br>Bicarbonate as CO3         SM 2330 B         X         X           BOD/CBOD         SM 5210 B         X         X         X           Chorinated Acids         EPA 556         X         X           Chorinated Acids         EPA 515.4         X         X           Chorinate Acids         EPA 515.4         X         X           Chorina Residual,<br>Chl  |                            |                                       |         |        |
| Pseudomonas aeruginosa       Pseudalert       x         Total Coliform (P/A and<br>Exumeration)       SM 221, SM<br>2218, SM 221       x       x         Total Coliform (P/A and<br>Coliform E. coli (P/A and<br>Nodularins       SM 9221       x       x         Total Coliform E. coli (P/A and<br>Nodularins       SM 9221       x       x         Total Microcystins and<br>Nodularins       EPA 546       X       x         1,4-Dioxane       EPA 522       x       x         1,4-Dioxane       EPA 522       x       x         2,3,7,8-TCDD       Modified EPA<br>1613 B       x       x         Acrylamide       * LCMS 3870       x       x         Algal Toxins/Microcystin       * LCMS 3870       x       x         Bicarbonate Alkalinity as       SM 2300 B       x       x         Bicarbonate Alkalinity as       SM 2330 B       x       x         BoD/C8DO       SM 5210 B       x       x         Carbonate as C03       SM 3230 B       x       x         Chlorinated Acids       EPA 410.4,<br>SM 4500-CLO2       x       x         Chlorinated Acids       EPA 451.4       x       x         Carbonate as C03,<br>HC03       SM 4500-CLO2       x       x         Chordio  | Legionena                  |                                       | ^       |        |
| Total Coliform (P/A and<br>Enumeration)SM 9221 S. SM 9221 CXXTotal Coliform, Total<br>Coliform with Chlorine<br>PresentSM 9221 BXXTotal Colliform/E. coli (P/A and<br>Enumeration, Idex Collient,<br>Idex Collient, SM 9223XXTotal Colliform/E. coli (P/A and<br>Enumeration, Idex Collient,<br>NodularinsSM 9223XTotal Colliform/E. coli (P/A and<br>Enumeration, Idex Collient,<br>Idex Collient, Idex Collient,<br>SM 9223XXTotal Colliform/E. coli (P/A and<br>Enumeration, Idex Collient,<br>Idex Collient, Idex Collient,<br>SM 9223XX1,2,3-Trichloropropane<br>(TCP) at 5 PPTCA SRL 524M-<br>TCPXX2,3,7,8-TCDDModified EPA<br>1613 BXXAcrylamide* LCMS 2440)XXAlgal Toxins/Microcystin* LCMS 3570XXAlkalinitySM 2320BXXXBicarbonate Alkalinity as<br>HCO3SM 2330 BXXBODCBODSM 5210 BXXBoromate*LCMS-2447XXCarbonylsEPA 556XXChlorina E as CO3SM 2330 BXXChlorina E as CO3SM 2330 BXXChlorina E AcidaEPA 515.4XPalin Test<br>Chlorido X Plus,<br>SM 4500-CL02XChlorina PioxideSM 4500-Cl G<br>GXXCorrosivity (Langeller<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-Cl G<br>GXCorrosivity (Langeller<br>Index), Carbonate as CO3,<br>Hydroxi   | Pseudomonas aeruginosa     |                                       | х       |        |
| Enumeration)92218, SM 9221 CXXTotal Coliform, Total<br>PresentSM 9221 BXXTotal Coliform With Chlorine<br>PresentSM 9223XTotal Microcystins and<br>NodularinsEPA 546XYeast and MoldSM 9223X1,2,3-Trichloropropane<br>(TCP) at 5 PPTCA SRL 524M-<br>TCPX2,3,7,8-TCDD1613 BXAlqal Toxins/Microcystin* LCMS 2440)XAlqal Toxins/Microcystin* LCMS 3670XAlkalinitySM 2320 BXXAkalinitySM 2320 BXXBicarbonate Alkalinity as<br>BCDonate Alkalinity as<br>BC200 DSM 5210 BXBoD/CBODSM 5210 BXXBoD/CBODSM 5220DXXCarbonate as C03<br>Chlorine DixideEPA 515.4XChlorine DixideChlorido X Plus,<br>SM 4500-CLO2XChlorine DixideSM 4500-CLGXChlorine DixideSM 4500-CLGXChlorine DixideSM 4500-CLGXCorrosivity (Langeliar<br>Index), Carbonate as C03,<br>Hydroxide as OH<br>CalculatedSM 4500-CLGChlorine DixideSM 4500-CLGXCorrosivity (Langeliar<br>Index), Carbonate as C03,<br>Hydroxide as OH<br>CalculatedSM 4500-CLGChlorine DixideSM 4500-CLGXChlorine DixideSM 4500-CLGXChlorine DixideSM 4500-CLGXChlorine DixideSM 4500-CLGXChlorine DixideSM 4500-CLGX<   | Total Coliform (P/A and    |                                       |         |        |
| Total Collform, Votal<br>Collform with Chlorine<br>PresentSM 9221 BXXTotal Collform/E.coll (P/A and<br>Enumeration, Ideax Collert,<br>Ideax Colliert, Solley, Ideax Colliert, Solley, Ideax Colliert,<br>NodularinsSM 9223xTotal Microcystins and<br>(TCP) at 5 PPTEPA 546XYeast and MoldSM 9610x1,4-DioxaneEPA 522x2,3,7,8-TCDDModified EPA<br>1613 BXAlgal Toxins/Microcystin*LCMS 3570xAlkalinitySM 2320BxAlkalinitySM 2320BxAlkalinitySM 2320BxAlkalinitySM 2300BxAbsestosEPA 100.2xBicarbonate Alkalinity as<br>HCO3SM 2330 BxBorb/CBODSM 5210 BxBorb/CBODSM 5210 BxCarbonate as CO3SM 2330 BxCarbonate as CO3SM 2330 BxChlorine DioxideEPA 556xChlorine DioxideSM 4500-CI GxChlorine DioxideSM 4500-CI GxCorros Sivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CI GxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hyd   |                            | SM 9221A, SM<br>9221B, SM 9221 C      | х       | х      |
| Coliform with Chlorine<br>PresentSM 9221 BxxTotal Coliforny: coli (PA and<br>Enumeration, Idex Collert,<br>Idex Collert 18, Collsure)SM 9223xTotal Microcystins and<br>   |                            |                                       |         |        |
| PresentSM 9221 BTotal Colifort, Idex Colliert, Idex C |                            |                                       | v       | v      |
| Total Colform/E.coli (P/A and<br>Enumerian, Ideax Colilert, B. Colisure)SM 9223xTotal Microsystins and<br>NodularinsEPA 546XYeast and MoldSM 9610x1,4-DioxaneEPA 522x2,3,7,8-TCDD16i13 BXArylamide*LCMS 3440)xAlgal Toxins/Microcystin*LCMS 3570xAlkalinitySM 2320BxxAsbestosEPA 350.1,xAmmoniaSM 4500-NH3xHC03SM 2330 BxAsbestosEPA 100.2xBicabonate Alkalinity asSM 2330 BxBCD/CBODSM 5210 BxBromate*LCMS-2447xCarbonate Alkalinity asEPA 556xChorine A closeEPA 410.4,xCarbonate Alkalinity asEPA 556xChorine AcidsEPA 515.4xChorine DioxideSM 4500-CLGxChlorine DioxideSM 4500-CLGxChlorine Residual,<br>ChloraminesSM 4500-CLGxCorrosivity (Langelier<br>Index), Carbonate as CO3SM 2330 BxCorrosivity (Langelier<br>Index), Carbonate as CO3SM 2330 BxCorrosivity (Langelier<br>Index), Carbonate as CO3SM 2300-CL CxCorrosivity (Langelier<br>Index), Carbonate as CO3SM 2330 BxCorrosivity (Langelier<br>Index), Carbonate as CO3SM 2330 BxCorrosivity (Langelier<br>Index), Carbonate as CO3SM 2330 BxCorrosivity (Langelier<br>In   |                            | SM 9221 B                             | ^       | ^      |
| Enumeration, Idex Colliert, Idex Colliert 18, Collision)       SM 9223       x         Total Microcystins and Nodularins       EPA 546       X         Yeast and Mold       SM 9610       x         1,2,3-Trichloropropane (TCP) at 5 PPT       CA SRL 524M- TCP       x         1,4-Dioxane       EPA 522       x  |                            |                                       |         |        |
| Idex Collient 8, Collisure)EPA 546Total Microcystins and<br>NodularinsEPA 546Yeast and MoldSM 9610xCA SRL 524M-<br>TCP1,4-DioxaneEPA 5222,3,7,8-TCDDModified EPA<br>1613 BAcrylamide*LCMS 2440)xAlgal Toxins/Microcystin* LCMS 3570xAlkalinitySM 230BxxAlkalinitySM 3500-NH3xBicarbonate Alkalinity asBicarbonate Alkalinity asBOD/CBODSM 5210 BxBornate as CO3SM 2330 BxCarbonate as CO3SM 2330 BxChorinated AcidsEPA 556xChlorine ColorSM 2300 BxChorinated AcidsEPA 556xChlorine DioxideChlorine DioxideChlorine DioxideChlorine Sidual,<br>ChloraminesCorro SM2120BxConductivitySM 4500-CL G<br>GxConductivitySM 4500-CN f<br>GxCyanide (Free)SM 4500-CN f<br>GCyanide (Free)SM 4500-CN f<br>G   |                            | SM 9223                               | x       |        |
| Total Nicrocystins and<br>NodularinsEPA 546XYeast and MoldSM 9610x1,2,3-Trichloropropane<br>(TCP) at 5 PPTCA SRL 524M-<br>TCPx1,4-DioxaneEPA 522x2,3,7,8-TCDDModified EPA<br>1613 BXAcrylamide*LCMS 2440)xAlgal Toxins/Microcystin*LCMS 3570xAlkalinitySM 2320BxxEPA 350.1,XXAmmoniaSM 4500-NH3xHCO3SM 2300 BxxBicarbonate Alkalinity asSM 2300 BxxBOD/CBODSM 5210 BxxBromate*LCMS -2447xCarbonate as CO3SM 2330 BxxCarbonate as CO3SM 2330 BxxCarbonate as CO3SM 2330 BxxCarbonate as CO3SM 2230 DxxCarbonate as CO3SM 2230 DxxCarbonate as CO3SM 2230 DxxChorinated AcidsEPA 515.4xxChlorine DioxideSM 4500-CL QxxChlorine DioxideSM 4500-CL GxxColorSM2120BxxxConductivitySM 4230 BxxColorSM 2300 BxxColorSM 2300 BxxChlorine DioxideSM 4500-CL GxChlorine DioxideSM 4500-CL GxColorSM 2500BxxColor<   |                            | OIN OLLO                              | ~       |        |
| Yeast and Mold       SM 9610       x         1,2,3-Trichloropropane<br>(TCP) at 5 PPT       CA SRL 524M-<br>TCP       x         1,4-Dioxane       EPA 522       x         2,3,7,8-TCDD       Modified EPA<br>1613 B       x         Acrylamide       *LCMS 2440)       x         Alkalinity       SM 2320B       x       x         Alkalinity       SM 2320B       x       x         Ammonia       SM 4500-NH3       x       x         Bicarbonate Alkalinity as       SM 2330 B       x       x         BOD/CBOD       SM 5210 B       x       x         Boromate       *LCMS-2447       x       x         Carbonate Alkalinity as       SM 2330 B       x       x         BOD/CBOD       SM 5210 B       x       x         Carbonate Alkalinity as       EPA 556       x       x         Carbonate Acids       EPA 515.4       x       x         Chlorinated Acids       EPA 515.4       x       x         Chlorine Dioxide       SM 4500-CLO2       x       x         Chlorine, Free, Combined,<br>Total Residual,<br>Chloramines       SM 4500-Cl G       x       x         Corrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH       S  |                            |                                       | X       |        |
| 1.2.3-Trichloropropane<br>(TCP) at 5 PPTCA SRL 524M-<br>TCPx1.4-DioxaneEPA 522x2.3.7,8-TCDDModified EPA<br>1613 BXAcrylamide*LCMS 3570xAlkalinitySM 2320BxAlkalinitySM 2320BxAlkalinitySM 2320BxAmmoniaSM 4500-NH3xAmmoniaSM 2330 BxAbsestosEPA 100.2xBicarbonate Alkalinity as<br>HCO3SM 2330 BxAconate as CO3SM 2330 BxActionate as CO3SM 2230 BxCarbonate as CO3SM 2230 BxCarbonate as CO3SM 2230 BxChorinate AcidsEPA 515.4xChorine DioxideSM 4500-CLO2xChlorine DioxideSM 4500-CLO2xCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CL GCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CL GCyanide (Free)SM 4500-CN fxCyanide (Total)EPA 335.4xCyanide (Total)EPA 335.4xCyanide (Total)EPA 549.2xDisolved Organic CarbonSM 5310 CXDBP and HAASM 6221 BDisolved Organic CarbonSM 5310 CCiphoset and AMPA*UC-24467Ciphoset and AMPA*UC-2454Corroside ChorideSM 4500-CGCorroside ChorideSM 4500-CGCornolice Choride<   | Nodularins                 | EPA 546                               | X       |        |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  | Yeast and Mold             | SM 9610                               | х       |        |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  |                            |                                       |         | I      |
| $\begin{array}{c c} (1CP) at 5 PP1 & 1CP & \\ 1,4-Dioxane & EPA 522 & x & \\ 2,3,7,8-TCDD & Modified EPA & x & \\ 1613 B & x & \\ Acrylamide & ^1_LCMS 2440) & x & \\ Algal Toxins/Microcystin & ^1_LCMS 3570 & x & \\ Alkalinity & SM 2320B & x & x & \\ & EPA 350.1, & & \\ Ammonia & SM 4500-NH3 & x & \\ H & & \\ Asbestos & EPA 100.2 & x & x & \\ Bicarbonate Alkalinity as & SM 2330 B & x & x & \\ BOD/CBOD & SM 5210 B & & x & \\ BOD/CBOD & SM 5210 B & & x & \\ Carbonate a & CO3 & SM 2330 B & x & x & \\ Carbonate a & CO3 & SM 2330 B & x & x & \\ Carbonate Alkalinity as & EPA 410.4, & & \\ Carbonate Alkalinity & EPA 410.4, & \\ Chemical Oxygen Demand & EPA 410.4, & \\ Chlorine Dioxide & EPA 515.4 & x & \\ Chlorine Dioxide & SM 4500-CLO2 & & \\ D & & \\ Chlorine, Free, Combined, & SM 4500-CLO2 & & \\ Chlorine Dioxide & SM 4500-CLG & \\ Conductivity & SM 2510B & x & x & \\ Corrosivity (Langelier & \\ Index), Carbonate as CO3, & SM 2330 B & x & x & \\ Caronsivity (Langelier & \\ Index), Carbonate as CO3, & SM 2330 B & x & x & \\ Cyanide (Amenable) & SM 4500-CLG & \\ Cyanide (Amenable) & SM 4500-CL G & \\ Cyanide (Amenable) & SM 4500-CL G & \\ Cyanide (Amenable) & SM 4500-CL G & \\ Cyanide (Amenable) & SM 4500-CN & x & x & \\ Cyanide (Total) & EPA 335.4 & x & x & \\ Cyanide (Total) & EPA 335.4 & x & x & \\ Cyanide (Total) & EPA 335.4 & x & x & \\ Cyanide (Conductivity & SM 4500-CN & x & x & \\ Cyanide (Conductivity & SM 4500-CN & x & x & \\ Cyanide (Conductivity & SM 4500-CN & x & x & \\ Cyanide (Conductivity & EPA 548.1 & x & \\ Cyanide (Conductivity & EPA 548.1 & x & \\ Cyanide (Conductivity & EPA 548.1 & x & \\ EDB/DECP and & EPA 548.1 & x & \\ EDB/DECP and & EPA 548.1 & x & \\ EDB/DECP and & EPA 548.1 & x & \\ EDTA and NTA & ^tWC-24451 & x & \\ EDTA and NTA & ^tWC-2454 & x & \\ Cilyphosate & EPA 548.1 & x & \\ Cilyphosate & EPA 548.1 & x & \\ \end{array}$   |                            |                                       | x       |        |
| 2,3,7,8-TCDDModified EPA<br>1613 BxAcrylamide*LCMS 2440)xAlgal Toxins/Microcystin*LCMS 3570xAlkalinitySM 2320BxxAmmoniaSM 4500-NH3xAmmoniaSM 4500-NH3xBicarbonate Alkalinity as<br>HCO3SM 2330 BxBOD/CBODSM 5210 BxBromate*LCMS-2447xCarbonate as CO3SM 2330 BxCarbonate as CO3SM 2300 BxChemical Oxygen DemandEPA 410.4,<br>SM 5220DxChlorinated AcidsEPA 515.4xChlorine DioxideChlorido X Plus,<br>SM 4500-CLO2<br>DxChlorine DioxideSM 2120BxColorSM2120BxConductivitySM 2510BxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>(Screen)SM 4500-CL GCyanide (Amenable)SM 4500-CN<br>GxCyanide (Free)SM 4500-CN<br>GxCyanide (Free)SM 4500-CN<br>GxCyanide (Total)EPA 549.2xDBP and HAASM 6251 B<br>SM 6251 BxDisolved Organic CarbonSM 5500-CGxEDB/DCBP/TCPEPA 504.1<br>EPA 549.2xEDB/DCBP/TCPEPA 549.1,<br>*(LCMS-24451)xEDTA and NTA*WC-2454xEDTA and NTA*WC-2454xEDTA and AMPA*LCMS-3618x  |                            |                                       |         |        |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | 1,4-Dioxane                |                                       | Х       |        |
| Acrylamide*LCMS 2440)Algal Toxins/Microcystin*LCMS 3570AlkalinitySM 2320BXEPA 350.1,AmmoniaSM 4500-NH3ArmoniaSM 230.0M 4500-NH3XHHAsbestosEPA 100.2Bicarbonate Alkalinity as<br>HCO3SM 230.0BCD/CBODSM 5210.8Arborate al CO3SM 230.0Bromate*LCMS-2447Carbonate as CO3SM 230.0CarbonylsEPA 410.4,<br>SM 5220.0Chorinated AcidsEPA 556XXChlorinated AcidsEPA 515.4Chlorine DioxideSM 4500-CLO2<br>DChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-CLG<br>SM 2510.0ColorSM2120BCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>SM 2510.0Cyanide (Free)SM 4500-CN<br>SM 2330.0Cyanide (Free)SM 4500-CN<br>SM 2330.0Cyanide (Free)SM 4500-CN<br>SM 2330.0Cyanide (Total)EPA 335.4Cyanide (Total)EPA 335.4Cyanide (Total)EPA 549.2Disolved Organic CarbonSM 5310.CCistop Pand HAASM 6251.8M 500-CPEXEDB/DBCPTCPEPA 544.1EDB/DBCP and<br>Disinfection ByproductsEPA 541.1EDA and NTA*WC-2454EDA and NTA*WC-2454EDA and AMPA*LCMS-3618KSM 4500-CEDA and AMPA  |                            | Modified EPA                          | ×       |        |
| Algal Toxins/Microcystin $+ LCMS 3570$ xAlkalinitySM 2320BxxEPA 350.1,SM 4500-NH3xAmmoniaSM 4500-NH3xBicarbonate Alkalinity as<br>HCO3SM 230 BxBicarbonate Alkalinity as<br>HCO3SM 230 BxBoD/CBODSM 5210 BxBromate $+LCMS - 2447$ xCarbonate as CO3SM 2330 BxCarbonylsEPA 410.4,<br>SM 5220DxChemical Oxygen DemandSM 5220DxChlorinated AcidsEPA 556xChlorine DioxideSM 4500-CLO2<br>DxChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-CL G<br>SM 2510BxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>GxCyanide (Free)SM 4500-CN<br>GxxCyanide (Free)SM 4500-CN<br>GxxCyanide (Total)EPA 335.4xxCyanide (Total)EPA 335.4xxCyanide (Total)EPA 549.2xxDisolved Organic CarbonSM 5310 CxxDissolved Organic CarbonSM 5310 CxxEDB/DBPTCPEPA 549.1xxEDB/DBPTCPEPA 544.1xxEDB/DBPTCPEPA 544.1xxEDB/DBCPTCPEPA 544.1xxEDA and NTA*WC-2454xxEDA and NTA*WC-2454xx <td>2,3,7,0-1000</td> <td>1613 B</td> <td>^</td> <td></td>  | 2,3,7,0-1000               | 1613 B                                | ^       |        |
| AlkalinitySM 2320BxxAmmoniaEPA 350.1,<br>SM 4500-NH3xAmmoniaSM 4500-NH3xHXAsbestosEPA 100.2xBicarbonate Alkalinity as<br>HCO3SM 230 BxBOD/CBODSM 5210 BxBromate*LCMS-2447xCarbonylsEPA 556xCarbonylsEPA 556xChorine DioxideEPA 410.4,<br>SM 5220DxChlorine DioxideEPA 515.4xChlorine Free, Combined,<br>Total Residual,<br>ChloramiesSM 4500-CLO2<br>DxColorSM2120BxConductivityEPA 120.1,<br>SM 2510BxConductivitySM 230 B<br>PxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CL G<br>SM 230 B<br>SM 230 B<br>SM 230 B<br>SM 230 BxCyanide (Free)SM 4500-CN<br>G<br>GxxCyanide (Free)SM 4500-CN<br>G<br>GxxCyanide (Free)SM 4500-CN<br>GxxCyanide (Total)EPA 335.4xxDissolved Organic CarbonSM 5310 CxxDissolved OxgenSM 4500-CGxxDissolved OxgenSM 4500-CGxxDissolved OxgenSM 4500-CGxxDissolved OxgenSM 4500-CGxxDissolved OxgenSM 4500-CGxxDissolved OxgenSM 4500-CGxxDissolved Oxgen   | Acrylamide                 | <sup>+</sup> LCMS 2440)               | х       |        |
| AlkalinitySM 2320BxxAmmoniaEPA 350.1,<br>SM 4500-NH3xAmmoniaSM 4500-NH3xHXAsbestosEPA 100.2xBicarbonate Alkalinity as<br>HCO3SM 230 BxBOD/CBODSM 5210 BxBromate*LCMS-2447xCarbonylsEPA 556xCarbonylsEPA 556xChorine DioxideEPA 410.4,<br>SM 5220DxChlorine DioxideEPA 515.4xChlorine Free, Combined,<br>Total Residual,<br>ChloramiesSM 4500-CLO2<br>DxColorSM2120BxConductivityEPA 120.1,<br>SM 2510BxConductivitySM 230 B<br>PxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CL G<br>SM 230 B<br>SM 230 B<br>SM 230 B<br>SM 230 BxCyanide (Free)SM 4500-CN<br>G<br>GxxCyanide (Free)SM 4500-CN<br>G<br>GxxCyanide (Free)SM 4500-CN<br>GxxCyanide (Total)EPA 335.4xxDissolved Organic CarbonSM 5310 CxxDissolved OxgenSM 4500-CGxxDissolved OxgenSM 4500-CGxxDissolved OxgenSM 4500-CGxxDissolved OxgenSM 4500-CGxxDissolved OxgenSM 4500-CGxxDissolved OxgenSM 4500-CGxxDissolved Oxgen   | Algal Toxins/Microcystin   | + LCMS 3570                           | х       |        |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$  |                            |                                       | х       | х      |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  |                            |                                       |         |        |
| HHAsbestosEPA 100.2xxBicarbonate Alkalinity as<br>HC03SM 2330 BxxBOD/CBODSM 5210 BxxBromate* LCMS-2447xxCarbonate as CO3SM 2330 BxxCarbonylsEPA 556xxChemical Oxygen DemandSM 5220DxChlorinet d AcidsEPA 515.4xChlorine DioxideChlorido X Plus,<br>SM 4500-CLO2xChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-Cl GxConductivitySM 2510BxxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>GxxCyanide (Amenable)SM 4500-CN<br>GxxxCyanide (Free)SM 4500-CN<br>GxxxCyanide (Free)SM 4500-CN<br>GxxxCyanide (Total)EPA 335.4xxxCyanide (Total)EPA 335.4xxxCyanide (Total)EPA 335.4xxxDisolved Organic CarbonSM 5310 CxxxDisolved Organic CarbonSM 5310 CxxEDB/DCB/TCPEDB/DCBP/TCPEPA 504.1xEDB/DCB/TCPxxEDB/DCBP/TCPEPA 548.1,<br>* (LCMS-2445)xEPA 548.1,<br>* (LCMS-3618xGlyphosate and AMPA*LCMS-3618xx   | Ammonia                    |                                       |         | x      |
| AsbestosEPA 100.2xxBicarbonate Alkalinity as<br>HCO3SM 2330 BxxBOD/CBODSM 5210 BxBromate*LCMS-2447xCarbonate as CO3SM 2330 BxCarbonate as CO3SM 2330 BxCarbonylsEPA 556xChemical Oxygen DemandSM 5220DxChlorine DioxideSM 4500-CLO2<br>DxChlorine DioxideSM 4500-CLO2<br>DxChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-CL G<br>XxConductivitySM 230 B<br>SM 2300 BxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>GxCyanide (Free)SM 4500-CN<br>GxxCyanide (Free)SM 4500-CN<br>GxxCyanide (Free)SM 4500-CN<br>GxxCyanide (Total)EPA 335.4xxCyanide (Total)EPA 549.2xxDissolved Organic CarbonSM 5310 CxDissolved OxygenDBP and HAASM 6251 BxDissolved OxygenDissolved OxygenSM 4500-CGxxEDTA and NTA* WC-2454xEDTA and NTA* WC-2454xFluorideSM 4500-CxXCyanide (EPA 5477xGlyphosate and AMPA*LCMS-3618x   | Ammonia                    |                                       |         | ^      |
| Bicarbonate Alkalinity as<br>HCO3SM 2330 BxXBOD/CBODSM 5210 BxBromate* LCMS- 2447xCarbonylsEPA 556xChemical Oxygen DemandEPA 410.4,<br>SM 5220DxChlorinated AcidsEPA 515.4xChlorine DioxideFPA 515.4xChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-CLO2<br>DxColorSM2120BxConductivityEPA 120.1,<br>SM 2510BxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>GxCyanide (Free)SM 4500-CN<br>GxxCyanide (Free)SM 4500-CN<br>GxxCyanide (Total)EPA 335.4xxCyanide (Total)EPA 549.2xxDiguat and Paraquat<br>(Screen)EPA 549.2xxDissolved OxygenSM 4500-C GxxDissolved OxygenSM 4500-CN<br>GxxCyanide (Total)EPA 335.4xxCyanide Total)EPA 549.2xxDBP and HAASM 6251 BxDDissolved OxygenSM 4500-C GxxEDB/DCBP/TCPEPA 504.1xEEDB/DCBP/TCPEPA 548.1,<br>*(LCMS-2445)xxEDB/DCBP/TCPEPA 548.1,<br>*(LCMS-2445)xxGlyphosate and AMPA*LCMS-3618xx  | Asbestos                   |                                       | ×       | ×      |
| HCO3XXBOD/CBODSM 5210 BXBromate $^{+}$ LCMS-2447XCarbonylsEPA 556XCarbonylsEPA 556XChemical Oxygen DemandSM 5220DXChlorinated AcidsEPA 515.4XChlorine DioxidePalin TestChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-CLO2<br>DXConductivitySM 4500-CLG<br>DXConductivityEPA 120.1,<br>SM 2510BXCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>GXCyanide (Free)SM 4500-CN<br>GXXCyanide (Free)SM 4500CN F<br>GXXCyanide (Total)EPA 335.4XXCyanide (Total)EPA 549.2XXDiguat and ParaquatEPA 549.2XDDissolved Organic CarbonSM 6251 B<br>SM 63510 CXDDissolved Organic CarbonSM 4500-O GXXEDB/DECP and<br>Disinfection ByproductsEPA 504.1XEPA 551.1EDTA and NTA*WC-2454XEPA 548.1,<br>* (LCMS-2445)XEluorideSM 4500-C CXXGlyphosate and AMPA*LCMS-3618X   |                            |                                       | ^       | ^      |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  |                            | 51VI 2550 D                           | х       | х      |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  |                            | CM 5040 D                             |         |        |
| Carbonate as CO3SM 2330 BxxCarbonylsEPA 556xxChemical Oxygen DemandEPA 410.4,<br>SM 5220DxChlorinated AcidsEPA 515.4xChlorine DioxidePalin Test<br>Chlorine, Free, Combined,<br>Total Residual,<br>ChloraminesxConductivitySM 4500-CLO2<br>DxConductivityEPA 120.1,<br>SM 2510BxConductivityEPA 120.1,<br>SM 2510BxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>GxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)xxDiguat and ParaquatEPA 549.2xxDBP and HAASM 6251 B<br>SM 4500-C GxxEDB/DCBP/TCPEPA 504.1xxEDB/DCBP/TCPEPA 504.1xxEDB/DCBP/TCPEPA 549.1xxEDB/DCBP/TCPEPA 549.1xxEDA and NTA* WC-2454xxEndothallEPA 548.1,<br>* (LCMS-2445)xxElnothallEPA 547.7xxGlyphosate and AMPA* LCMS-3618xx  |                            |                                       |         | X      |
| CarbonylsEPA 556xxChemical Oxygen DemandEPA 410.4,<br>SM 5220DxChlorinated AcidsEPA 515.4xChlorinated AcidsEPA 515.4xChlorine DioxidePalin Test<br>Chlorido X Plus,<br>SM 4500-CLO2xChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-CI G<br>SM 4500-CL GxConductivityEPA 120.1,<br>SM 2510BxConductivitySM 2510BxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>GxCyanide (Free)SM 4500-CN<br>GxxCyanide (Free)SM 4500-CN<br>GxxCyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)xxDBP and HAASM 6251 B<br>SM 5310 CxxDBP and HAASM 6251 B<br>SM 5310 CxxEDB/DBCP and<br>EDB/DBCP and<br>EDB/DBCP and<br>EDA 541.1EPA 541.1<br>xxEDB/DBCP and<br>Disinfection ByproductsEPA 541.1<br>xxEDA and NTA* WC-2454<br>* WC-2454xEndothallEPA 547.1<br>xxElnothallEPA 547.7<br>xxGlyphosate and AMPA* LCMS-3618<br>* LCMS-3618x   |                            |                                       |         |        |
| Chemical Oxygen DemandEPA 410.4,<br>SM 5220DxChlorinated AcidsEPA 515.4xChlorine DioxidePalin Test<br>Chlorio X Plus,<br>SM 4500-CLO2<br>DxChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-CL G<br>DxColorSM2120BxConductivityEPA 120.1,<br>SM 2510BxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>SM 2330 BxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Total)EPA 335.4xxCyanide (Total)EPA 335.4xxCyanide (Total)EPA 549.2xxDBP and HAASM 6251 BxxDissolved Organic CarbonSM 4500-O GxxEDB/DBCP and<br>Disinfection ByproductsEPA 551.1xEDTA and NTA* WC-2454xxEndothallEPA 548.1,<br>* (LCMS-3618xEluorideSM 4500FCxx   |                            |                                       |         |        |
| Chemical Oxygen DemandSM 5220DXChlorinated AcidsEPA 515.4XPalin Test<br>Chlorine DioxidePalin Test<br>Chlorido X Plus,<br>SM 4500-CLO2XChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-CI G<br>DXColorSM2120BXConductivityEPA 120.1,<br>SM 2510BXCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>GXCyanide (Free)SM 4500-CN<br>GXXCyanide (Free)SM 4500CN F<br>GXXCyanide (Total)EPA 335.4XXCyanide (Total)EPA 549.2XXDiguat and ParaquatEPA 549.2XXDBP and HAASM 6251 B<br>SM 4500-CGXXDissolved Organic CarbonSM 4500-CGXXEDB/DCBP/TCPEPA 541.1XXEDB/DCBP/TCPEPA 551.1XXEDTA and NTA* WC-2454XXFluorideSM 4500FCXXGlyphosate and AMPA* LCMS-3618X  | Carbonyls                  |                                       | Х       | Х      |
| Chlorinated AcidsEPA 515.4xChlorinated AcidsEPA 515.4xPalin Test<br>Chlorine DioxidePalin Test<br>Chlorido X Plus,<br>SM 4500-CLO2xChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-Cl GxConductivityEPA 120.1,<br>SM 2510BxxConductivityEPA 120.1,<br>SM 2510BxxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>GxxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Free)SM 4500CN FxxCyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)xxDiguat and ParaquatEPA 549.2xxDBP and HAASM 6251 BxxDissolved Organic Carbon<br>EDB/DCBP/TCPEPA 504.1xxEDB/DCBP/TCPEPA 504.1xxEDB/DCBP/TCPEPA 551.1xxEDB/DCBP/TCPEPA 549.1xxEDA and NTA* WC-2454xxEndothallEPA 541.1<br>* (LCMS-2445)xxFluorideSM 4500F CxxGlyphosate and AMPA* LCMS-3618xx  | Chemical Oxygen Demand     | · · · · · · · · · · · · · · · · · · · |         | x      |
| Chlorine DioxidePalin Test<br>Chlordio X Plus,<br>SM 4500-CLO2<br>DxChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-Cl GxColorSM2120BxConductivityEPA 120.1,<br>SM 2510BxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>GxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)xxDiguat and ParaquatEPA 549.2xxDissolved Organic CarbonSM 4500-CGxxEDB/DCBP/TCPEPA 549.1xxEDB/DBP and HAASM 6251 BxxEDB/DCBP/TCPEPA 549.1xxEDB/DBP/TCPEPA 549.1xxEDA and NTA* WC-2454xxEndothallEPA 540.7xxFluorideSM 4500FCxxEndothallEPA 547xxSuffection ByproductsEPA 547xxEllyphosate and AMPA* LCMS-3618xx  | ,,,                        |                                       |         | ~      |
| Chlorine DioxideChlordio X Plus,<br>SM 4500-CLO2<br>DxChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-CL GxColorSM2120BxConductivityEPA 120.1,<br>SM 2510BxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>SM 2330 BxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Free)SM 4500-CN<br>GxxCyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)xxDiguat and ParaquatEPA 549.2xxDBP and HAASM 6251 BxxDissolved Organic CarbonSM 4500-C GxxEDB/DBCP and<br>Disinfection ByproductsEPA 540.1xxEDA/BCP and<br>Disinfection ByproductsEPA 548.1,<br>* (LCMS-2445)xxEndothallEPA 548.1,<br>* (LCMS-2445)xxFluorideSM 4500F CxxGlyphosate and AMPA* LCMS-3618xx   | Chlorinated Acids          |                                       | Х       |        |
| Chlorine DioxideSM 4500-CLO2<br>DXChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-Cl GXColorSM2120BXConductivityEPA 120.1,<br>SM 2510BXCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>SM 2330 BXCyanide (Amenable)SM 4500-CN<br>GXXCyanide (Free)SM 4500-CN<br>GXXCyanide (Total)EPA 335.4XXCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)XXDBP and HAASM 6251 B<br>SM 5310 CXXDBP and HAASM 6251 B<br>SM 5310 CXXEDB/DBCP and<br>EDB/DBCP and<br>Disinfection ByproductsEPA 551.1<br>EPA 551.1XEndothallEPA 548.1,<br>* (LCMS-2445)XFluorideSM 4500F C<br>XXXEndothallEPA 547.7<br>EPA 547X   |                            | Palin Test                            |         |        |
| SM 4500-CLO2<br>DXChlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-Cl GXColorSM2120BXConductivityEPA 120.1,<br>SM 2510BXCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 4500-CN<br>GXCyanide (Amenable)SM 4500-CN<br>GXXCyanide (Total)EPA 335.4XXCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)XXDiguat and ParaquatEPA 549.2XXDissolved Organic CarbonSM 4500-CGXXEDB/DCBP/TCPEPA 549.1XXEDB/DCBP/TCPEPA 504.1XXEDB/DCBP/TCPEPA 5451.1XXEDB/DCBP/TCPEPA 5451.1XXEDA and NTA* WC-2454XXEndothallEPA 549.7XXFluorideSM 4500FCXXEndothallEPA 547XXGlyphosate and AMPA* LCMS-3618X  | Chloring Dioxido           | Chlordio X Plus,                      | ×       |        |
| Chlorine, Free, Combined,<br>Total Residual,<br>ChloraminesSM 4500-Cl GxColorSM2120BxConductivityEPA 120.1,<br>SM 2510BxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 2330 BxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Free)SM 4500CN FxxCyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)xxDiguat and ParaquatEPA 549.2xxDBP and HAASM 6251 BxxDissolved Organic CarbonSM 4500-CGxxEDB/DCBP/TCPEPA 504.1xxEDB/DBP and NTA* WC-2454xxEDB/DBP And NTA* WC-2454xxEndothallEPA 541.1<br>*(LCMS-2445)xxFluoride<br>SM 4500F CxxxGlyphosate and AMPA* LCMS-3618xx   | Chionne Dioxide            | SM 4500-CLO2                          | X       |        |
| Total Residual,<br>ChloraminesSM 4500-Cl GxColorSM2120BxConductivityEPA 120.1,<br>SM 2510BxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 2330 BxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)xxDiquat and ParaquatEPA 549.2xxDBP and HAASM 6251 B<br>SM 4500-C GxxDissolved Organic CarbonSM 4500-C GxxEDB/DCBP/TCPEPA 504.1xxEDB/DBP/TCPEPA 551.1xxEDTA and NTA* WC-2454xxEndothallEPA 548.1,<br>*(LCMS-2445)xxFluoride<br>Glyphosate and AMPA* LCMS-3618x  |                            | D                                     |         |        |
| Initial Residual,<br>ChloraminesXColorSM2120BXConductivityEPA 120.1,<br>SM 2510BXCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 2330 BXCyanide (Amenable)SM 4500-CN<br>GXXCyanide (Free)SM 4500CN FXXCyanide (Free)SM 4500CN FXXCyanide (Free)SM 4500CN FXXCyanide (Total)EPA 335.4XXCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)XDiquat and ParaquatEPA 549.2XDBP and HAASM 6251 BXDissolved Organic CarbonSM 4500-O GXEDB/DCBP/TCPEPA 504.1XEDB/DCBP/TCPEPA 551.1XEDB/DCBP/TCPEPA 551.1XEDTA and NTA* WC-2454XEndothallEPA 547.1XFluorideSM 4500F CXGlyphosateEPA 547XGlyphosate and AMPA* LCMS-3618X  | Chlorine, Free, Combined,  | 014 4500 01 0                         |         |        |
| ColorSM2120BxConductivityEPA 120.1,<br>SM 2510BxxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 2330 BxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Free)SM 4500CN FxxCyanide (Free)SM 4500CN FxxCyanide (Total)EPA 335.4xxCyanide (Total)EPA 335.4xxCyanide (Total)EPA 549.2xxDiquat and ParaquatEPA 549.2xxDBP and HAASM 6251 BxxDissolved Organic CarbonSM 4500-O GxxEDB/DCBP/TCPEPA 504.1xxEDB/DCBP/TCPEPA 504.1xxEDTA and NTA* WC-2454xxEndothallEPA 548.1,<br>*(LCMS-2445)xxFluorideSM 4500F CxxGlyphosate and AMPA* LCMS-3618xx   | Total Residual,            | SM 4500-CI G                          | х       |        |
| ConductivityEPA 120.1,<br>SM 2510BxxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 2330 BxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Amenable)SM 4500CN FxxCyanide (Free)SM 4500CN FxxCyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)xxDiquat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 4500-OGxEDB/DCBP/TCPEPA 504.1xEDB/DCBP/TCPEPA 504.1xEDB/DCBP/TCPEPA 551.1xEDTA and NTA* WC-2454xFluoride<br>SM 4500F CxxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x  | Chloramines                |                                       |         |        |
| ConductivityEPA 120.1,<br>SM 2510BxxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 2330 BxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Amenable)SM 4500CN FxxCyanide (Free)SM 4500CN FxxCyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)xxDiquat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 4500-OGxEDB/DCBP/TCPEPA 504.1xEDB/DCBP/TCPEPA 504.1xEDB/DCBP/TCPEPA 551.1xEDTA and NTA* WC-2454xFluoride<br>SM 4500F CxxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x  | Color                      | SM2120B                               | х       |        |
| ConductivitySM 2510BxxCorrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 2330 BxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Free)SM 4500CN FxxCyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)xxDiquat and ParaquatEPA 549.2xxDBP and HAASM 6251 BxxDissolved Organic CarbonSM 4500-OGxxEDB/DCBP/TCPEPA 504.1xxEDB/DBCP and<br>Disinfection ByproductsEPA 551.1xEndothallEPA 548.1,<br>* (LCMS-2445)xxFluorideSM 4500FCxxGlyphosateEPA 547xxGlyphosate and AMPA*LCMS-3618xx  |                            |                                       |         |        |
| Corrosivity (Langelier<br>Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 2330 BxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Free)SM 4500CN FxxCyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)xxDiquat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 4500-CGxEDB/DCBP/TCPEPA 504.1xEDB/DBP/TCPEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 549.2xEndothallEPA 550FCxXSM 4500-CGxEDB/DBP/TCPEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 547.1xGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x  | Conductivity               |                                       | х       | х      |
| Index), Carbonate as CO3,<br>Hydroxide as OH<br>CalculatedSM 2330 BxCyanide (Amenable)SM 4500-CN<br>GxxCyanide (Free)SM 4500CN FxxCyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)*335 Mod<br>(WC-24467)xxDiguat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 4500-C GxEDB/DBCP/TCPEPA 504.1xEDB/DBCP and<br>Disinfection ByproductsEPA 551.1xEDA and NTA* WC-2454xEndothallEPA 540.7xFluorideSM 4500F CxSM 4500F CxxEndothallEPA 547xGlyphosate and AMPA* LCMS-3618x   | Corrosivity (Langelier     | 0                                     |         |        |
| Hydroxide as OH<br>CalculatedSM 2330 BXCyanide (Amenable)SM 4500-CN<br>GXXCyanide (Free)SM 4500CN FXXCyanide (Total)EPA 335.4XXCyanogen Chloride<br>(Screen)+335 Mod<br>(WC-24467)XXDiquat and ParaquatEPA 549.2XDBP and HAASM 6251 BXDissolved Organic CarbonSM 4500-O GXEDB/DBCP and<br>Disinfection ByproductsEPA 504.1XEDB/DBCP and<br>Disinfection ByproductsEPA 551.1XEDTA and NTA* WC-2454XEndothallEPA 548.1,<br>* (LCMS-2445)XFluorideSM 4500F CXXGlyphosate and AMPA* LCMS-3618X  |                            |                                       |         |        |
| CalculatedSM 4500-CN<br>GxxCyanide (Amenable)SM 4500CN FxxCyanide (Free)SM 4500CN FxxCyanide (Total)EPA 335.4xxCyanogen Chloride* 335 Mod<br>(WC-24467)xxDiquat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 4500-CGxDissolved OxygenSM 4500-CGxEDB/DCBP/TCPEPA 504.1xEDB/DCBP/TCPEPA 504.1xEDTA and NTA* WC-2454xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500FCxSlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x  |                            | SM 2330 B                             | х       |        |
| Cyanide (Amenable)SM 4500-CN<br>GxxCyanide (Free)SM 4500CN FxxCyanide (Total)EPA 335.4xxCyanogen Chloride* 335 Mod<br>(WC-24467)xDiquat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 4500-OGxEDB/DCBP/TCPEPA 504.1xEDB/DCBP/TCPEPA 504.1xEDB/DCBP/TCPEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500-CxSM 4500F Cxx  |                            |                                       |         |        |
| Cyanide (Amenable)GXXCyanide (Free)SM 4500CN FxxCyanide (Total)EPA 335.4xxCyanogen Chloride*335 Modx(Screen)(WC-24467)xDiquat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 5310 CxDissolved OxygenSM 4500-O GxEDB/DCBP/TCPEPA 504.1xEDB/DBP/TCPEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500F CxSM 4500F CxxGlyphosate and AMPA* LCMS-3618x  |                            | SM 4500-CN                            |         |        |
| Cyanide (Free)SM 4500CN FxxCyanogen Chloride+335 ModxxCyanogen Chloride+335 Modx(Screen)(WC-24467)xDiquat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 5310 CxDissolved OxygenSM 4500-O GxEDB/DBCP andEPA 504.1xEDB/DBCP andEPA 551.1xEDB/DBCP and NTA+ WC-2454xEndothallEPA 548.1,<br>+(LCMS-2445)xFluorideSM 4500F CxSM 4500F Cxx  | Cyanide (Amenable)         |                                       | х       | х      |
| Cyanide (Total)EPA 335.4xxCyanogen Chloride<br>(Screen)* 335 Mod<br>(WC-24467)xDiquat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 5310 CxDissolved OxygenSM 4500-O GxEDB/DCBP/TCPEPA 504.1xEDB/DCBP/TCPEPA 504.1xEDB/DCBP/TCPEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500F CxSM 4500F CxxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x   | Cycopide (Erec)            |                                       |         |        |
| Cyanogen Chloride<br>(Screen)* 335 Mod<br>(WC-24467)xDiquat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 5310 CxDissolved OxygenSM 4500-O GxEDB/DCBP/TCPEPA 504.1xEDB/DBCP and<br>Disinfection ByproductsEPA 551.1xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500F CxSM 4500F Cxx   |                            |                                       |         |        |
| (Šcreen)(WC-24467)XDiquat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 5310 CxDissolved OxygenSM 4500-O GxEDB/DCBP/TCPEPA 504.1xEDB/DBCP and<br>Disinfection ByproductsEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500F CxSM 4500F CxxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x  |                            |                                       | X       | Х      |
| (Screen)(WC-24467)Diquat and ParaquatEPA 549.2xDBP and HAASM 6251 BxDissolved Organic CarbonSM 5310 CxDissolved OxygenSM 4500-O GxEDB/DCBP/TCPEPA 504.1xEDB/DBCP andEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500F CxSilphosateEPA 547xGlyphosate and AMPA* LCMS-3618x  |                            |                                       | х       |        |
| DBP and HAASM 6251 BxDissolved Organic CarbonSM 5310 CxDissolved OxygenSM 4500-O GxEDB/DCBP/TCPEPA 504.1xEDB/DBPCP andEPA 551.1xEDTA and NTA+ WC-2454xEndothallEPA 548.1,<br>+(LCMS-2445)xFluorideSM 4500F CxSM 4500F Cxx   |                            |                                       |         |        |
| Dissolved Organic CarbonSM 5310 CxDissolved OxygenSM 4500-O GxEDB/DCBP/TCPEPA 504.1xEDB/DBCP and<br>Disinfection ByproductsEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500F CxxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x  |                            |                                       | X       |        |
| Dissolved OxygenSM 4500-O GxEDB/DCBP/TCPEPA 504.1xEDB/DBCP and<br>Disinfection ByproductsEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500F CxxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x  |                            |                                       | Х       |        |
| EDB/DCBP/TCPEPA 504.1xEDB/DBCP and<br>Disinfection ByproductsEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500F CxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x   |                            |                                       | x       |        |
| EDB/DCBP/TCPEPA 504.1xEDB/DBCP and<br>Disinfection ByproductsEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500F CxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x   |                            | SM 4500-O G                           |         | х      |
| EDB/DBCP and<br>Disinfection ByproductsEPA 551.1xEDTA and NTA* WC-2454xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500F CxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x   |                            | EPA 504.1                             | х       |        |
| Disinfection ByproductsEPA 551.1XEDTA and NTA* WC-2454xEndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500F CxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x   |                            |                                       |         |        |
| EDTA and NTA     * WC-2454     x       Endothall     EPA 548.1,<br>*(LCMS-2445)     x       Fluoride     SM 4500F C     x       Glyphosate     EPA 547     x       Glyphosate and AMPA     * LCMS-3618     x  |                            | EPA 551.1                             | х       |        |
| EndothallEPA 548.1,<br>*(LCMS-2445)xFluorideSM 4500F CxGlyphosateEPA 547xGlyphosate and AMPA* LCMS-3618x  |                            | + WC-2454                             | х       |        |
| Elidotriali     +(LCMS-2445)     X       Fluoride     SM 4500F C     x     x       Glyphosate     EPA 547     x       Glyphosate and AMPA     + LCMS-3618     x   |                            |                                       |         |        |
| Fluoride         SM 4500F C         x         x           Glyphosate         EPA 547         x         x           Glyphosate and AMPA         * LCMS-3618         x         x  | Endothall                  |                                       | х       |        |
| Glyphosate         EPA 547         x           Glyphosate and AMPA         *LCMS-3618         x   | Fluorido                   | · · · · · · · · · · · · · · · · · · · | Y       | v      |
| Glyphosate and AMPA + LCMS-3618 x   |                            |                                       |         | ^      |
|   |                            |                                       |         |        |
| Gross Alpha and Gross Beta EPA 900.0 X X  |                            |                                       |         |        |
|   | Gross Alpha and Gross Beta | EPA 900.0                             | Х       | Х      |

| .com/Eaton                            |  |   |   |
|---------------------------------------|--|---|---|
| Test(s)                               | Method(s)                                    | Potable<br>Water *                      | Waste<br>Water                          |
| Gross Alpha<br>coprecipitation        | SM 7110 C                                    | x                                       | x                                       |
| Hardness                              | SM 2340 B                                    | х                                       | х                                       |
| Hexavalent Chromium                   | EPA 218.6,                                   | X                                       | X                                       |
| Hexavalent Chromium                   | EPA 218.7,                                   | x                                       | ~                                       |
| Hexavalent Chromium                   | SM 3500-Cr B                                 | ~                                       | х                                       |
| Inorganic Anions and DBPs             | EPA 300.0                                    | х                                       | X                                       |
| Norganic Anions and DBPs              | EPA 300.1                                    | X                                       | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| Kjeldahl Nitrogen                     | EPA 351.2                                    | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | х                                       |
|                                       | EPA 200.7.                                   |   |   |
| Metals                                | EPA200.8                                     | x                                       | Х                                       |
| Nitrosamines                          | EEA-Agilent 521.1                            | х                                       |   |
|                                       | (GCMS-24250)<br>EPA 353.2                    |   |   |
| Nitrate/Nitrite Nitrogen              |  | X                                       | Х                                       |
| Odor<br>Organabalida Dastisidas       | SM2150B                                      | X                                       |   |
| Organohalide Pesticides<br>and PCB    | EPA 505                                      | x                                       |   |
| Ortho Phosphate                       | SM 4500P E                                   | x                                       |   |
| Oxyhalides Disinfection<br>Byproducts | EPA 317.0                                    | х                                       |   |
| Perchlorate                           | EPA 331.0                                    | х                                       |   |
| Perchlorate (Low and High Levels)     | EPA 314.0                                    | х                                       |   |
| Perfluorinated Alkyl Acids            | EPA 533, EPA<br>537, EPA 537.1               | x                                       |   |
| PPCP and EDC                          | +LCMS-2443                                   | ×                                       |   |
| PPCP and EDC                          |  | X                                       |   |
| рН                                    | EPA 150.1<br>SM 4500-H+ B                    | x                                       | х                                       |
| Phenolics – Low Level                 | *WC 2493 (EPA<br>420.2 and EPA<br>420.4 MOD) | x                                       | x                                       |
| Phenylurea<br>Pesticides/Herbicides   | +LCMS-2448                                   | x                                       |   |
| Radium-226, Radium-228                | GA Tech (Rad-<br>2374)                       | х                                       |   |
| Radon-222                             | SM 7500RN                                    | x                                       |   |
| Residue (Filterable)                  | SM 2540C                                     | х                                       | х                                       |
| Residue (Non-Filterable)              | SM 2540D                                     |   | х                                       |
| Residue (Total)                       | SM 2540B                                     |   | х                                       |
| Residue (Volatile)                    | EPA 160.4                                    |   | Х                                       |
| Semi-Volatile Compounds               | EPA 525.2                                    | х                                       |   |
| Silica                                | SM 4500-SiO2<br>C                            | х                                       | x                                       |
| Sulfide                               | SM 4500-S D                                  |   | х                                       |
| Sulfite                               | SM 4500-SO3 B                                | х                                       | X                                       |
| Surfactants                           | SM 5540C                                     | X                                       | x                                       |
| Taste and Odor                        | SM 6040 E                                    | X                                       | ^                                       |
| Total Organic Carbon                  | SM 5310 C                                    | X                                       | х                                       |
| Total Phenols                         | EPA 420.1                                    | ~                                       | X                                       |
| Total Phenols                         | EPA 420.1                                    | х                                       | X                                       |
| Triazine Pesticides and               | +LCMS-3617                                   | x                                       | ~                                       |
| their Degradates                      |  |   |   |
| Turbidity                             | EPA 180.1                                    | X                                       | Х                                       |
| Uranium by ICP/MS                     | EPA 200.8                                    | Х                                       |   |
| UV 254 Organic<br>Constituents        | SM 5910B                                     | x                                       |   |
| VOCs                                  | EPA 524.2                                    | х                                       |   |
| VOCs                                  | <sup>+</sup> (GCMS 2412)<br>by EPA 524.2     | x                                       |   |
|                                       | modified                                     |   |   |

(\*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.
(+) In-House Method



**Test Description** 

Page 1 of 1

| 🐝 eurofins                             |   |   | Ч<br>С<br>Н            | AIN                 | <b>DF CUST</b>                                  | CHAIN OF CUSTODY RECORD | CORD  |  | 1.5                    |   |
|--|---|---|------------------------|---------------------|---|-------------------------|---|--|------------------------|---|
|  | Eaton Analytical  | EUROFINS EATON ANALYTICAL   |                        | USE ONLY.           |   |                         |   |  | 10                     | 100/68-   |
| 750 Roval Oaks Drive Suite 100         | ive Suite 100   | LOGIN COMMENTS:   |                        |                     |   | SA                      | SAMPLES CHECKED AGAINST COC BY:   | GAINST   | COC BY:                | 2   |
| Monrovia, CA 91016-3629                | 16-3629   |   |                        |                     |   |                         | SAMPLES LOGGED IN BY:   | S LOGGE  | D IN BY:               | •   |
| Phone: 626 386 1100                    | 00  | SAMPLE TEMP RECEIVED AT:  | /ED AT:<br>ia / Arizor | e                   | °C ( Complia                                    | (Compliance: 4 + 2 °C)  | SAMPLES REC'D DAY OF COLLECTION?  | OF COLL  |                        | (check for yes)   |
| Fax: 626 386 1101                      |   | Monrovia  |                        | 2.8                 | ) ູ<br>   | °C (Compliance: 4±2°C)  |   |  |                        |   |
| 800 566 LABS (800 566 5227)            | 0 566 5227)   | CONDITION OF BLUE ICE:  |                        | Frozen              |   | en 🔨 Thawed             | Wet Ice   | z  | No Ice                 |   |
|  |   | METHOD OF SHIPMENT  |                        | Pick-Up / Walk-In / |   | UPS / DHL / Area        | FedEx / UPS / DHL / Area Fast / Top Line / Other:                                   | )ther:   |                        |   |
| TO BE COMPLETED BY SAMPLER:            | AMPLER:   |   |                        |                     |   | (ct                     | (check for yes)   |  | (che                   | (check for yes)   |
| COMPANY/AGENCY NAME:                   | AME:  | PROJECT CODE:   |                        |                     | COM   | COMPLIANCE SAMPLES      |   | OMPLIAN  | NON-COMPLIANCE SAMPLES | x   |
| BW                                     | BWS HONOLULU  | REI   | RED HILL               |                     | - Requires sta<br>Type of samples (circle one): | te                      | NE SPECIAL  | CONFIRMATION INVOLVED:<br>CONFIRMATION (eq SDWA) | VOLVED:                | ( NPDES FDA )   |
| EEA CLIENT CODE:                       | COC ID:   | SAMPLE GROUP:   |                        |                     | SEE ATTACH                                      | HED BOTTLE OR           |   | SES  | X (check for yes),     | es), OR   |
|  |   | Weekly TPH-8015_RED.  |                        | HILL (2022)         |   | ES REQUIRED (ente       | list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample) | sent for   | each test for e        | ach sample)   |
| TAT requested: rush by adv notice only | r adv notice only   | STD 1 wk X 3 day  | 2 day                  | 1 day               |   |                         |   |  |                        |   |
| JJAMA2<br>JTAQ<br>JAMA2<br>JMIT        | SAMPLE ID   | CLIENT LAB ID   | • XIATAM               | АТАО ОЈЗІ:<br>      | 9ed Hill Wee<br>SS0S 1qA                        |                         |   |  | SA                     | SAMPLER<br>COMMENTS   |
| 04/25/22 1024 Aiea We                  | Aiea Wells Pump P1  | HI0000331-003   | CFW                    |                     | X   |                         |   |  |                        |   |
|  |   |   |                        |                     |   |                         |   |  |                        |   |
|  |   |   |                        |                     |   |                         |   |  |                        |   |
|  |   |   |                        |                     |   |                         |   |  |                        |   |
|  |   |   |                        |                     |   |                         |   |  |                        |   |
|  |   |   |                        |                     |   |                         |   |  |                        |   |
|  |   |   |                        |                     |   |                         |   |  |                        |   |
|  |   |   |                        | /                   |   |                         |   |  |                        |   |
|  |   |   |                        |                     |   |                         |   |  | Temp Blank:            | ink:°C  |
|  |   |   |                        | -                   |   |                         |   |  |                        |   |
| * MATRIX TYPES:                        | * MATRIX TYPES: RSW = Raw Surface Water<br>RGW = Raw Ground Water | rr CFW = Chlor(am)inated Finished Water<br>rr FW = Other Finished Water | ated Finisl<br>d Water | ned Water           | SEAW = Sea Water<br>WW = Waste Water            |                         | BW = Bottled WaterSO = SoilSW = Storm WaterSL = Slud                                | SO = Soil<br>SL = Sludge                         | <b>O</b> = Other -     | O = Other - Please Identify   |
|  |   | -   |                        | PRINT NAME          |   | COMP                    | COMPANY/TITLE   |  | DATE                   | TIME  |
|  |   |   |                        | L. Bailey           |   | Honolulu Boar           | Honolulu Board of Water Supply  | -  | April 25, 2022         | and the second se |
| RELINQUISHED BY:                       |   | 101   | C                      | L. Bailey           |   | Honolulu Boar           | Honolulu Board of Water Supply  | 4  | 12021021               | 1200  |
| RECEIVED BY:                           | 21  | N.A.  | GREN                   | REITNER             |   | EEA                     |   | 60   | 04.27.2022             | 11:21   |
| RELINQUISHED BY:                       |   |   |                        |                     |   |                         |   |  |                        |   |
| RECEIVED BY:                           |   |   |                        |                     |   |                         |   |  |                        |   |
|  |   |   |                        |                     |   |                         |   |  | PAGE                   | 1 OF 1  |

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| Action for bolds or witten superior (city witten superior)     Red out for bolds or witten superior (city witten superior)     Red out for bolds or witten superior)     Red out for bolds or witten superior)   | Page 1 of                         | 12:06:33AM   |  |   |  |                                      | No. of the second s |                                      |                             |            |                                   |  |  |  |          |  |
|--|-----------------------------------|--|--|---|--|--------------------------------------|--|--------------------------------------|-----------------------------|------------|-----------------------------------|--|--|--|----------|--|
| Currofins     Kit Order for BOARD OF WATER SUPPLY, CITY ANI<br>Debtie L Fank is your Eurofine Eaton Analytical, LLC Sa<br>260 Forus Suite (0)<br>Kurens sources<br>(250) 3051-010 FXX (859) 393-3797     Note: Sampler Please return this paper with you<br>Glori th: InfOVOLUL<br>Clori th: InfOVOLUC<br>Clori th: InfO     | NTY OF<br>Ineger                  |  | ÷  | Billing Addrees<br>Honolulu Board of Waler Supply<br>630 South Berefanla Streat<br>Public Service Bidg." Room 308<br>Honolulu, Hi 95843 | Attr: Enwin Kawata<br>Phone: 808-748-5091<br>Fax: 808-550-5018     |                                      |  | 2                                    | 2                           | otties: 11 |                                   |  |  |  | <b>、</b> |  |
| <ul> <li>CLIFOFINS</li> <li>*6. Telyritczi</li> <li>750 Royal Oaks Drive, Suite 100<br/>Monrovia, Catifornia 61016-3629<br/>(525) 336-1100 FAX (856) 988-3757</li> <li>Kitr #: 309377 [[[[B]B]][[B]B]][[B]B][[B]</li></ul>   | RD OF WATER SUPPLY, CITY AND COU! | r Please return this paper with your sam   | Citent ID: HONOLULU<br>Code: HONOLULU<br>roject Code: RED-HILL Bottle Orders<br>rroup Name: Red-Hill Expanded List (Albuquerque<br>PO#/JOB#: C20525101 exp 05312023<br>PO#/JOB#: C20525101 exp 05312023<br>Pescription: AIEA WELLS PUMPS 1&2 (260) - ( | Send Report to<br>Honolutu Board of Water Supply<br>630 South Beretania Street<br>Public Service Bidg." Room 308<br>Honolutu, HI 98843  | Attr: Erwin Kawata<br>Phone: 808-748-5091<br>Fax: 808-550-5018     | / - Type [ preservative information] | ber glass ( 1 ml Thio 8% )   | amber glass vial (1 drop Thio (8%) 1 |                             | Sum B      |                                   | ( GLASS BOTTLES FOR TPH 8016 SERIES.         | use extra Contraionr Labels)   | ples.  |          |  |
| Curofins<br>To Royal Oaks Drive, Suite 10<br>Monrovia, Catifornia 91016-362<br>(626) 396-1100 FAX (865) 998-<br>Kit #: 309377   <br>Kit #: 309377   <br>Created By: - [AutoGen<br>Deliver By: 02/02/2022<br>STG: Botte Orde<br>Lea Type: G<br>Pre Registered<br>Free Registered<br>Pre |                                   |  |  | Bhth Sample Kits to<br>Honotulu Board of Water Supply<br>630 South Beretania Sireet<br>Chamistry Lab<br>Honotulu, HI 98843              | Attr. Ron Fenslemacher<br>Phone: 808-748-5841<br>Fax: 808-550-5572 |                                      |  |                                      |                             |            | <del>19-11-108) -</del>           | s for 625 series and SK 1 liter amber        | <ul> <li>Prepare TBs in the VOA LAB.</li> <li>th Handies with Site description of contents (u</li> </ul> | s nasded for any new detections in Field samp<br>24                              |          |  |
|  |                                   | 750 Royal Oaks Drive, Sulte 10<br>Monrovia, California 91016-362<br>(626) 388-1100 FAX (866) 988-3 | : 309377<br>- [AutoG<br>: 02/02/20<br>: Bottle On  |   |  | # of<br>Sample Tests                 | 1 TPH 8015 Diesel and Motor OIL (<br>8015 Jet Fuel 8_C   |                                      | 1 @504MOD TB C, 8015 Gas_CT | Comments   | VEA WELLS PUMPS 182 (200) (801-20 | SAMPLER:<br>Four 1 LITER AMBER GLASS BOTTLES | SHIPPING:<br>Travel Blanks - TBAMTBE, VOASDWA<br>Label Cooler on TOP and right below bol                 | SM: Be sure to coordinate Follow-up at<br>cetone - follow-ups need to use EPA 62 |          |  |

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| RECORD                           | will determine whether to proceed with analysis or not. $Yes / No$  | zen 📈 Thawed N/A                          |   | ollection, within 8 hours)  | ·C) (Cont.Factor ·C) (Final = ·C)   | the second se | Expiration DateResults:  | (see below):<br>[Itional bottles)<br>is using 40 ml vials, International clients:<br>Test Samp ID Bottle # Nonel<6 >6mm Test<br>mm   | DATE TIME   | 04.27.2022 421110 12:11  | DATE TME            |  |
|----------------------------------|---|---|---|---|---|---|--|--|---|--|---------------------|--|
| INTERNAL CHAIN OF CUSTODY RECORD | SAMPLE TEMP RECEIVED:<br>SAMPLE TEMP RECEIVED:<br>Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.<br>SAMPLES REC'D DAY OF COLLECTION? Yes / No<br>SAMPLES rector $-0.5$ °C) (Final = $2.8$ °C) | CONDITION OF ICE: Frozen Partially Frozen | UPS / DHL / Area Fast / Top Line / Uther:   | 0°C if received on ice the same day as sample co  | ole collection)<br>.c) (Fhalc)  | e between 0-4 °C, not frozen (if received after 24 hrs of sample collection)                                    | Expiration Date: Results   | No Samples with Headspace: Samples with Headspace (see below):<br>Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)<br>tee concerns: Methods 615.4, HAA(6251, 552, 504, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials,<br>Test Samp ID Bottle # Nonel<6 >6mm Test Samp ID Bottle # Nonel<6 >6mm Test Samp ID Bottle # Mmm Test   | mpling arrors):   | Euro   |                     |  |
| وية eurofins   INTERNA           | LA CYAA (Observation= 3.1 °C) (0  | o Ice                                     | METHOD OF SHIPMENT: Pick-Up / Walk-In// FedEx / UPS / DHL / Area Fast / Top Lin<br>Compliance Acceptance Criteria:<br>1) Chemistry: >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection) | 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours) | 3) MIcrobiology, Surface Water: < 10°C (if received after 2, hou fout of tamperature ange for both Chemistry and Microbiology samples and lemperature does not confirm, then meseure the tamperature of each quadrant and record each lemperature of the used of each quadrant and record each lemperature of the does not condition. |   | 5) pH Check. Manufacturer: Lot Number:<br>6) Chlorine check. Manufacturer: Sansafe. Lot No.: | 7) VOA and Radon       No Samples with Headspace:       Samples with Headspace (see below):         7) Headspace:       Headspace       Samples with Headspace (see below):         8       Exempt from headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)         8       Exempt from headspace concerns: Methods 515.4, HAA(8251,552), 505, 504, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mi vials, International clients:         8       Bottle # Nonel<5 | Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): | RECEIVED BY: BIONATURE, THE PRINT PR | SIGNAURE PRINT NAME |  |

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| AL CHAIN OF CUSTODY RECORD<br>SAMPLE TEMP RECEIVED:<br>Note: If samples are out of temperature range, let the ASMS know. ASMS will determine whether to proceed with analysis or not.<br>SAMPLES REC'D DAY OF COLLECTION? Yes / No<br>Sorr.Factor 0.3 °C) (Final = 3.4 °C) | Partially Frozen Thawed N/A<br>er:<br>as sample collection, within 8 hours)   | 2 = (Observation=                              | type: 0 - 14 or  |
|--|---|--|--|
| INTERN<br>3.7 °0 (0  | E OF ICE: Real  | .c)<br>.c)<br>24 hrs of                        | Vumber:pH strip<br>space:Expiration Dat<br>se additional VOC and Ra<br>se additional VOC and Ra<br>se additional VOC and Ra<br>set s32LcMs<br>add6 >6mm Tast<br>madd6 >6mm Tast  |
| EEA FOLDER Eaton Analytical<br>EEA FOLDER WINDER WINDER WITCH  | TYPE OF ICE: Real Synthetic No Ice CONDITION OF ICE: Fro<br>METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top<br>Compliance Acceptance Criteria:<br>1) Chemistry: >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)<br>2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the | 4 Dioxin (1613 or 2,3,7,8 TCDD): must be build | 5) pH Check. Manufacturer: Lot No.:<br>6) Chlorine check. Manufacturer: Sansafe. Lot No.:<br>7) VOA and Radon No Samples with Head<br>Headspace: Headspace Documentation (us<br>Exempt from headspace concerns: Methods 615.4, HA4(18261<br>Bottle # Nonel<5 > 5mm Teat<br>Samp ID Bottle # Nonel<5 > 5mm Teat<br>Exempt from headspace (i.e. poter<br>Note Sample IDs which have dissimilar headspace (i.e. poter<br>signATURE<br>RECEIVED BY: COC BY: SAMPLES CHECKED AGAINST COC BY: SA |

QA FO-FRM5504 (9.28.21) Ver 9

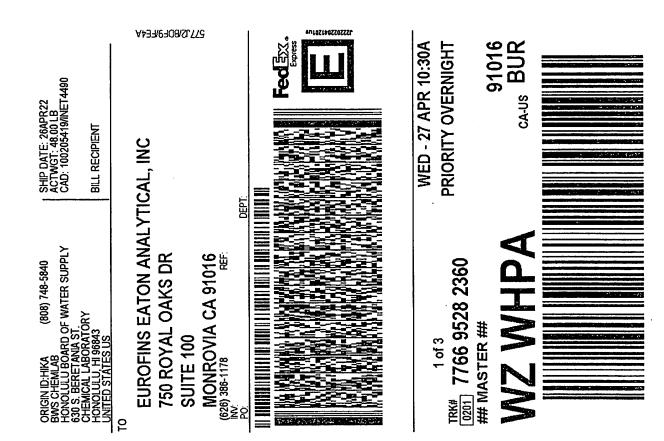
Page 8 of 39 pages

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| 1 analysis or not.   |                                  | N/A  |  | (S  |  | (nal =)  |  | Results:   | International cilents:<br>Samp ID Bottle # None/<6 >6mm Test  |  | TIME                                  | 12:11                     | TIME          |                                 |
|--|----------------------------------|--|--|---|--|--|--|--|---|--|---------------------------------------|---------------------------|---------------|---------------------------------|
| RECORD<br>errnine whether to proceed with<br>/ No  |                                  | en Thawed _  |  | lection, within 8 hou   |  | . C) (Corr.Factor  | ion)   | Expiration Date  | tional bottles)<br>using 40 mi vials, intern<br>Tast  |  | DATE                                  | 2202.FZ.HQ                | DATE          |                                 |
| AL CHAIN OF CUSTODY RECORD<br>SAMPLE TEMP RECEIVED:<br>Note: If samples are out of temperature range, let the ASMS know, ASMS will determine whether to proceed with analysis or not.<br>SAMPLES REC'D DAY OF COLLECTION? Yes / No | °C) (Final = $\frac{4}{.0}$ °C)  | E: Frozen Partially Frozen   | collection)  | i ice the same day as sample col  | llection)  | -c) [Final   | ed after 24 hrs of sample collect  | pH strip type: 0 - 14 or   | Samples with Headspace (see below):<br>and Radon Internal COFC for additional bottles)<br>532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials,<br>Samp ID Bottle # Non8/<6 >6mm Test  |  | COMPANYITITLE                         | Eurofins Eaton Analytical | COMPANYITITLE | Eurofins Eaton Analylical       |
| INTERNAL CHAIN OF CUSTODY RECORD<br>SAMPLE TEMP RECEIVED:<br>Note: If samples are out of temperature range, let the ASMS know, ASMS will determine whether to proceed<br>SAMPLES REC'D DAY OF COLLECTION? Yes / No                 | = 4.5 °C) (corr.Factor 0.3       | Ice     CONDITION OF ICE:     Frozen     Pai       FedEx     UPS     / DHL     / Area Fast / Top Line     / Other: | P) (if received after 24 hrs of sample   | t frozen (can be ≿10°C lf received on   | (If received after 2 hours of sample collection) | 1 = (Cotaervalion=   | between 0-4 °C, not frozen (if received after 24 hrs of sample collection) | lumber:Expin   | No Samples with Headspace:<br>Headspace Documentation (use additional VOC and<br>tee concerns: Methods 615.4, HAA(6321,525), 505, SPME, @CH, 532LC<br>Test Samp ID Bottle # None/<6 >6m Test  |  | ace (i.e. potential sampling errors): | D. REITWER                | PRINT NAME    |                                 |
| eaten Analytical Eaten Analytical Eaten Analytical Eater Number  | IR Gun ID = $644A$ (Observation= | TYPE OF ICE: Real Synthetic No Ice<br>METHOD OF SHIPMENT: Pick-Up / Walk-In Fe                                     | Compilance Acceptance Criteria:<br>1) Chemistry: >0, ج 8°C, not frozen (NELAP) (if received after 24 hrs of sample collection) | 2) Microbiology, Distribution: < 10°C, not frozen (can be ≿10°C if received on ice the same day as sample collection, within 8 hours) | 3) Microbiology, Surface Water: < 10°C (I        | If out of temperature range for both Chernisity and Microbiology<br>samples and temperature does not confirm, then measure the<br>temperature of each quadrant and record each temperature of the<br>quadrants | 4 Dioxin (1613 or 2,3,7,8 TCDD): must be                                   | 5) pH Check. Manufacturer: Lot N<br>6) Chlorine check. Manufacturer: Sansafe. Lot No.: | 7) VOA and Radon No Samples with Headspace: Samples with Headspace (see below): Headspace: Headspace: Headspace (see below): Headspace: Headspace (see below): Exempt from headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) Exempt from headspace concerns: Methods 615.4, HAA(8251,552), 505, 504, 5356, 536, Anatoxin, LCMS methods using 40 mi Vials, International clients: Samp ID Bottle # Nonel<6 >6mm Test Samp ID Bottle # Nonel<6 >6mm Test Samp ID Bottle # Monel<6 |  | ave dissimilar headsp<br>~.           |                           | SIGNATURE     | SAMPLES CHECKED AGAINST COC BY: |

Page Z of S

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:ledsl sint gnitning this label:

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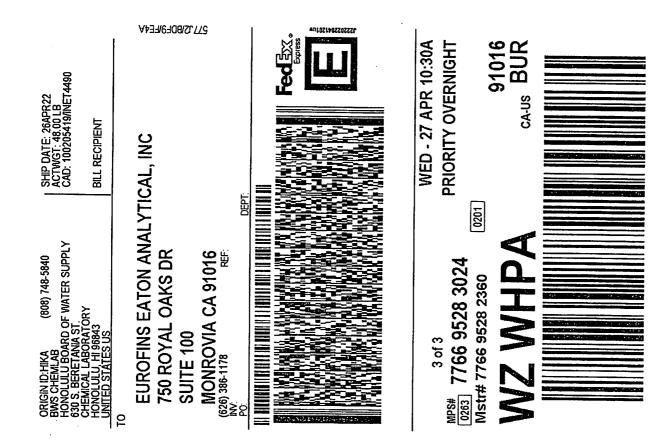
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Eaton Analytical

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 1001682 Project: RED-HILL Group: Weekly TPH-8015\_RED-HILL (2022) - EMAX

Honolulu Board of Water Supply Erwin Kawata 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843

#### Folder Comments

Results for TPH Gas, Diesel and Motor Oil are submitted by Emax Laboratories



Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 1001682 Project: RED-HILL Group: Weekly TPH-8015\_RED-HILL (2022) - EMAX

| E<br>G<br>F | Honolulu Board of Wa<br>Erwin Kawata<br>630 South Beretania S<br>Public Service Bldg." R<br>Honolulu, HI 96843 | treet     |        |          | Samples Rec<br>04/27/2022 13 |     |  |
|-------------|--|-----------|--------|----------|------------------------------|-----|--|
| Analyzed    | Analyte  | Sample ID | Result | HI Limit | Units                        | MRL |  |

SUMMARY OF POSITIVE DATA ONLY

Rounding on totals after summation. (c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight

differences in final result than the component analyses.

| Honolulu Board of Water Supply |
|--------------------------------|
| Erwin Kawata                   |
| 630 South Beretania Street     |
| Public Service Bldg." Room 308 |
| Honolulu, HI 96843             |
|                                |

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)

**Eaton Analytical** 

🛟 eurofins

Report: 1001682 Project: RED-HILL Group: Weekly TPH-8015\_RED-HILL (2022) - EMAX

Samples Received on: 04/27/2022 1211

| Prepped  | Analyzed       | Prep Batch    | Analytical Batch | Method            | Analyte                        | Result | Units         | MRL       | Dilution |
|----------|----------------|---------------|------------------|-------------------|--------------------------------|--------|---------------|-----------|----------|
| AIEA WE  | ELLS P1 (26    | 0)-331-003-\  | NL102 (2022042   | <u>70910)</u>     |                                | Sam    | pled on 04/25 | /2022 103 | 4        |
|          |                | SW 8015B      | - (SUB)Gas Frac  | ction Hydroca     | irbons                         |        |               |           |          |
| 04/28/22 | 04/28/22 21:14 |               |                  | (SW 8015B)        | (SUB)Gas Fraction Hydrocarbons | ND     | mg/L          | 0.02      | 1        |
|          |                | SW 8015B      | - TPH 8015 Dies  | el and Motor      | Oil                            |        |               |           |          |
| 05/02/22 | 05/03/22 16:07 |               |                  | (SW 8015B)        | TPH Diesel                     | ND     | mg/L          | 0.024     | 1        |
| 05/02/22 | 05/03/22 16:07 |               |                  | (SW 8015B)        | TPH Motor Oil                  | ND     | mg/L          | 0.047     | 1        |
| TB: AIEA | WELLS P1       | l (260)-331-0 | 003-WL102 (2022  | <u>204270911)</u> |                                | Sam    | pled on 04/25 | /2022 103 | 4        |
|          |                | SW 8015B      | - (SUB)Gas Frac  | ction Hydroca     | irbons                         |        |               |           |          |
| 04/28/22 | 04/28/22 21:50 |               |                  | (SW 8015B)        | (SUB)Gas Fraction Hydrocarbons | ND     | mg/L          | 0.02      | 1        |



Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 1001682 Project: RED-HILL Group: Weekly TPH-8015\_RED-HILL (2022) - EMAX

| Honolulu Board of Water Supply<br>Erwin Kawata | Samples Received on: |
|--|----------------------|
| 630 South Beretania Street                     | 04/27/2022 1211      |
| Public Service Bldg." Room 308                 |                      |
| Honolulu, HI 96843                             |                      |

| Analyzed | Analyte | Sample ID | Result | Federal MCL | Units | MRL |  |
|----------|---------|-----------|--------|-------------|-------|-----|--|
|          |         |           |        |             |       |     |  |

SUMMARY OF POSITIVE DATA ONLY



LABORATORIES, INC.

3051 Fujita Street Torrance, CA 90505 Tel: (310)-618-8889

Date: 05-12-2022 EMAX Batch No.: 22D274

Attn: Jackie Contreras

Eurofins Eaton Analytical 750 Royal Oaks Dr., Suite 100 Monrovia, CA 91016-3629

Subject: Laboratory Report Project: 1001682

\_\_\_\_\_

Enclosed is the Laboratory report for samples received on 04/28/22. The data reported relate only to samples listed below :

| Sample ID    | Control # Col Date | Matrix | Analysis               |
|--------------|--------------------|--------|------------------------|
|              |                    |        |                        |
| 202204270910 | D274-01 04/25/22   | WATER  | TPH GASOLINE           |
|              |                    |        | TPH DIESEL & MOTOR OIL |
| 202204270911 | D274-02 04/25/22   | WATER  | TPH GASOLINE           |

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all TNI & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912021-19 ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing California ELAP Accredited Certificate Number 2672

| 🐝 eurofins  | 15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>1 | *REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers!  |
|---|---|--|
| Ship To:<br>'EMAX Labora<br>3051 Fujita St.<br>Torrance, CA | Ship To:<br>`EMAX Laboratories, Inc.<br>3051 Fujita St.<br>Torrance, CA 90505   | Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.         Results must have Complete data & QC with Approval Signature.         Reports: Jackie Contreating Administrator         Eurofins Eaton Analytical LLIC 750 Royal Oaxs Drive, Suite 100, Monrovia, CA \$1016         Phone (525) 386-1185 Fax (625) 388-1122         Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605 |
| Phone: 3'<br>Folder #:<br>1001682                           | Phone: 310-618-8889 Fax: 310-618-0818<br>ar #: Report Due:<br>582 05/04/2022    |  |
| Sample ID<br>202204270910                                   | Cilent Sample<br>AIEA WELLS P1  | Sample Date & Time Matrix Clip Code<br>04/25/22 1034 DW  |
| Sample type:  | Sample E  | rt: Facility ID: Sample Point ID: Static ID:   |
| Method<br>SW 8015B  | Prep Method An<br>EPA 5030C (SU   | Analysis Requested<br>(SUB)Gas Fraction Hydrocarbons   |
| SW 8015B  |   | TPH 8015 Diesel and Motor Oil  |
| ν Sample ID<br>202204270911                                 | Cilent Sample ID for reference onl<br>TB: AIEA WELLS P1 (260)-331-003-ML102     | ence or/<br>-003-WL102 Sample Date & Time Matrix Clip Code PWSID<br>04/25/22 1034 DW JLS   |
| Sample type:  | Sample Event:   | nt: Facility ID: Sample Point ID: Static ID:   |
| Method  | Prep Method An  | Analysis Requested   |
| SW 8015B  |   | (SUB)Gas Fraction Hydrocarbons   |
|   |   |  |
| Relinquished by<br>Received by<br>Base 18 of<br>Base 18 of  | X Sample Control<br>X A Sample Control<br>Sample Control                        | Date $\frac{1/33}{1787}$ Time $1/35$ NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS       Date $\frac{1/27}{1100}$ An Acknowledgement of Receipt Is requested to attn: Jackie Contreras       Date     Time $100/1.3$ Date     Time $(20/1.3)$   |
|   | ID: 22D27450 Royal Oaks Drive, St   | Page 3 of 3<br>16 Tel (626) 386-1100 Fax (866) 988-3757 ww   |



## REFERENCE: EMAX-SM02 Rev. 12 SAMPLE RECEIPT FORM 1

| Type of D                        |   |             | Airbill / Track                       | king Number  | ECN 22 D 274                          |   |
|----------------------------------|---|-------------|---------------------------------------|--|---------------------------------------|---|
| Fedex UPS GSO                    |   | -           |                                       |  | Recipient Alan Pan                    |   |
| EMAX Courier 🛱 Client Del        | плета   | <u></u>     | · -                                   |  | Date 04/20/22                         | Time 11:35                              |
| COC INSPECTION                   | <u>`</u>  |             |                                       | · · · · · · · · · · · · · · · · · · ·  | · · · · · · · · · · · · · · · · · · · | ······                                  |
| Client Name                      | Client PM/FC                                    |             | ·□ Sampler Name                       | Sampling Date/Time   | Sample ID                             | 🖓 Matrix                                |
| 1 Address                        | 🗘 Tel # / Fax #                                 |             | Courier Signature                     | Analysis Required  | Preservative (if any)                 | j∕i tat                                 |
| afety Issues (if any)            | High concentrations ex                          | pected      | □ From Superfund Site                 | Rad screening required   |                                       | <i>(</i>                                |
| Note:                            |   |             |                                       |  |                                       |   |
|                                  |   |             |                                       | s  |                                       |   |
| PACKAGING INSPECTI               | ON  |             |                                       | ·  | · · · · · · · · · · · · · · · · · · · |   |
| Container                        | D Cooter  |             | □ Box                                 | 🗆 Other  |                                       |   |
| Condition                        | Custody Seal                                    |             | 🗇 Intact                              | D Damaged  |                                       |   |
| Packaging Correction             | Bubble Pack                                     |             | □ Styrofoam                           |  | Sufficient                            |   |
| Temperatures factor to, 2        | $\frac{1}{\nu}$ Cooler 1 $\frac{1.0}{1.\nu}$ °C |             | ler 21.9/2.1 °C                       | Cooler 3°C   |                                       | □ Cooler 5 °(                           |
| Cool, ≤6 "C but not frozen)      | $\Box \text{ Cooler 6} ^{\circ}C$               |             |                                       |  |                                       |   |
| Thermometer:                     | (A) S/N 2105 83479                              |             | er 7°C                                | Cooler 8°C   | Cooler 9°C                            | $\Box$ Cooler 10                        |
|                                  |   |             |                                       | C-S/N210271399   | D - S/N                               | -                                       |
| comments:  Temperature is o      | ut of range. PW was inform                      | ied HMM.    | EDIATELY.                             |  |                                       |   |
| Note:                            |   |             | ***                                   | · · · · · · · · · · · · · · · · · · ·  |                                       |   |
|                                  |   |             |                                       | · · · · · · · · · · · · · · · · · · ·  |                                       | P2                                      |
| DISCREPANCIES                    | ······································          |             |                                       |  |                                       | · · ·                                   |
| LabSampleID                      | LabSampleContainerID                            | Code        | ClientSample L                        | abel ID / Information  | Corrective                            | Action                                  |
|                                  | 1-9   | DIU         |                                       |  | 18                                    |   |
| ν                                | 10,11   | D7          | two dutes on 1                        | aber 2/2/22  | $\overline{D}$ 1                      |   |
|                                  |   |             | and 04/25/2                           |  | <u> </u>                              |   |
|                                  |   |             | 0.110,0110,310                        | - · ·  |                                       |   |
|                                  |   |             | · · · · · · · · · · · · · · · · · · · |  |                                       | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
|                                  |   |             |                                       |  |                                       |   |
|                                  |   |             |                                       |  | · .                                   |   |
|                                  |   |             |                                       |  |                                       |   |
|                                  |   |             |                                       |  |                                       |   |
|                                  | -   |             |                                       |  |                                       |   |
|                                  |   |             |                                       |  |                                       | ··· ··· ··· ··· ···                     |
|                                  | · · · · · · · · · · · · · · · · · · ·           |             |                                       |  |                                       |   |
|                                  |   |             |                                       |  |                                       |   |
|                                  |   |             |                                       |  | $\mathcal{N}_{-}$                     | AP 11                                   |
| D pH holding time requirement    | nt for water samples is 15 n                    | nins. Wa    | ater samples for pH anal              | ysis are received beyond 15  | ninutes from sampling time.           | 954/29                                  |
| NOTES/OBSERVATIONS               | :   |             |                                       |  |                                       |   |
| SAMPLE MATRIX IS DRINKING        | and a standard a                                |             |                                       |  |                                       |   |
|                                  |   | ×           |                                       |  |                                       |   |
| ·                                | · · · · · · · · · · · · · · · · · · ·           | <del></del> |                                       | a an an an and a state for the second s |                                       |   |
| ····                             |   | · · · ·     |                                       | · · · · · · · · · · · · · · · · · · ·  | · .                                   | ······                                  |
|                                  |   | · .         |                                       |  |                                       |   |
| LEGEND:                          |   |             |                                       |  | Continue to next pa                   | ge.                                     |
| Code Description-Sample Man      | agement   | Code        | Description-Sample Man                | agement  | Code Description-Sample Mana          |   |
| D1 Analysis is not indicated in  | י   | D13         | Out of Holding Time                   |  | R1 Proceed as indicated in CO         | C 🗆 Label                               |
| D2 Analysis mismatch COC v       | s label   | D14         | Bubble is >6mm                        |  | R2 Refer to attached instruction      |   |
| D3 Sample ID mismatch COC        | vs label  | D15 1       | No trip blank in cooler               |  | R3 Cancel the analysis                |   |
| D4 Sample ID is not indicated    | in  | D16         | Preservation not indicated            | in   | R4 Use vial with smallest bubble      | first                                   |
| D5 Container -[improper] [leal   | king] [broken]                                  | D17 1       | Preservation mismatch CO              | )C vs label  | R5 Log-in with latest sampling da     | ite and time+1 min                      |
| D6 Date/Time is not indicated    | in  | D18         | Insufficient chemical prese           | ervative   | R6 Adjust pH as necessary             |   |
| D7) Date Time mismatch COC       |   | D19 1       | Insufficient Sample                   |  | R7 Filter and preserved as necessa    | any AT 1                                |
| D8 Sample listed in COC is no    |   |             | No filtration info for dissol         | lved analysis  | RS Thomas                             | Viont                                   |
| D9 Sample received is not liste  |   |             | No sample for moisture deter          |  | R9 R9                                 |   |
| D10 No initial/date on correctio | ( )   | D22         |                                       |  | R10                                   |   |
| D11 Container count mismatch     |   | D22<br>D23  |                                       |  |                                       | <u> </u>                                |
| D12 Container size mismatch C    |   | D25_<br>D24 |                                       |  | •                                     | · · · · · · · · · · · · · · · · · · ·   |
| <b>REVIEWS:</b>                  | JUCELYNE 1/2 .                                  | 1           |                                       | - <u>/                                    </u>   | R12                                   |   |
| Sample Labeling                  | Whi-Ramus / Din                                 | 1           | opr                                   | $\left  l_{e_1} \right $   |                                       | DK                                      |
|                                  |   | pe          | SRI                                   |  | PM                                    |   |
| Date                             | e 04/28/22 / 4/28                               | in          | Dat                                   | e <u> </u>   | Date                                  | 4/29/2                                  |
|                                  |   |             |                                       | 1 *  |                                       | 1/ 1/                                   |
| REPORT ID: 22D2                  | 274 Е   | MAX La      | boratories, Inc. 3051 Fu              | ijita St., Torrance, CA 90505  | Pa                                    | ge 3 of 23                              |

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### **REPORTING CONVENTIONS**

### **DATA QUALIFIERS:**

| Lab Qualifier | AFCEE Qualifier | Description   |
|---------------|-----------------|---|
| J             | F               | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.          |
| N             |                 | Indicates presumptive evidence of a compound.   |
| В             | В               | Indicates that the analyte is found in the associated method blank<br>as well as in the sample at above QC level. |
| E             | J               | Indicates that the result is above the maximum calibration range or estimated value.                              |
| *             | *               | Out of QC limit.  |

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

#### **ACRONYMS AND ABBREVIATIONS:**

| CRDL | Contract Required Detection Limit |
|------|-----------------------------------|
| RL   | Reporting Limit                   |
| MRL  | Method Reporting Limit            |
| PQL  | Practical Quantitation Limit      |
| MDL  | Method Detection Limit            |
| DO   | Diluted out                       |

### DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

1001682

## METHOD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 22D274

REPORT ID: 22D274

#### CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 1001682

SDG : 22D274

#### METHOD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 04/28/22 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method 5030B/8015B and project specific requirements.

Holding Time

Samples were analyzed within the prescribed holding time.

Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project. Refer to MRL summary form for details.

#### Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. VG39D15B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. VG39D15L/VG39D15C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Gasoline was within MS QC limits in D272-01M/D272-01S. Refer to Matrix QC summary form for details.

Surrogate Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

|              | : EUROFINS EATON ANALYTICAL<br>• 1001682 | ANALYTICAL  | Client : EUROFINS EATON ANALYTICAL |       |               |               |                            |                   | SDG NO. : 22D274<br>Instrument ID : GCT039 | : 22D274<br>: GCT039               |
|--------------|--|---|------------------------------------|-------|---------------|---------------|----------------------------|-------------------|--|------------------------------------|
|              |  |   |                                    |       |               |               |                            |                   |  |                                    |
|              |  |   |                                    |       | WATER         | ER            |                            |                   |  |                                    |
| Cl ient      |  | Laboratory Dilution   | Dilution                           | %     | Analysis      | Extraction    | Sample                     | Calibration Prep. | n Prep.                                    |                                    |
| Sample ID    |  | Sample ID   | Factor                             | Moist | DateTīme      | DateTime      | Data FN                    | Data FN           | Batch Notes                                |                                    |
|              |  | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 1<br>1<br>1<br>1<br>1              |       |               |               | 1<br>3<br>1<br>1<br>1<br>1 | 1 1 1 1 1 1 1     |  |                                    |
| MBLK1W       |  | VG39D15B  | ٢                                  | NA    | 04/28/2215:42 | 04/28/2215:42 | ED28005A                   | ED28004A          | 22VG39D15 Method Blank                     | d Blank                            |
| LCS1W        |  | VG39D15L  | £                                  | NA    | 04/28/2216:19 | 04/28/2216:19 | ED 28006A                  | ED28004A          | 22VG39D15 Lab C                            | 22VG39D15 Lab Control Sample (LCS) |
| LCD1W        |  | VG39D15C  | ſ                                  | NA    | 04/28/2216:56 | 04/28/2216:56 | ED28007A                   | ED28004A          | 22VG39D15 LCS Duplicate                    | uplicate                           |
| 202204270910 | 10                                       | D274-01   | ę                                  | NA    | 04/28/2221:14 | 04/28/2221:14 | ED28014A                   | ED28004A          | 22VG39D15 Field Sample                     | Sample                             |
| 202204270911 | 11                                       | D274-02   | ~                                  | NA    | 04/28/2221:50 | 04/28/2221:50 | ED28015A                   | ED28004A          | 22VG39D15 Field Sample                     | Sample                             |

FN - Filename % Moist - Percent Moisture

REPORT ID: 22D274

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# SAMPLE RESULTS

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#### METHOD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

| Client : EUROFINS EATO   | ANALYTICAL | Date       | Collected:  | 04/25/22 10:34 |
|--------------------------|------------|------------|-------------|----------------|
| Project : 1001682        |            | Date       | e Received: | 04/28/22       |
| Batch No. : 22D274       |            | Date       | Extracted:  | 04/28/22 21:14 |
| Sample ID : 202204270910 |            | Date       | Analyzed:   | 04/28/22 21:14 |
| Lab Samp ID: D274-01     |            | Diluti     | ion Factor: | 1              |
| Lab File ID: ED28014A    |            |            | Matrix:     | WATER          |
| Ext Btch ID: 22VG39D15   |            | 0          | 6 Moisture: | NA             |
| Calib. Ref.: ED28004A    |            | Inst       | trument ID: | 39             |
|                          |            | ========== |             |                |
|                          |            |            |             |                |
|                          | RESULTS    | RL         | MDL         |                |
| PARAMETERS               | (mg/L)     | (mg/L)     | (mg/L)      |                |
|                          |            |            |             | -              |
| GASOLINE                 | ND         | 0.020      | 0.010       |                |
|                          |            |            |             |                |
| SURROGATE PARAMETERS     | RESULT     | SPK AMT    | %RECOVERY   | QC LIMIT       |
|                          |            |            |             |                |
| Bromofluorobenzene       | 0.0336     | 0.0400     | 84          | 60-140         |
|                          |            |            |             |                |

Notes:

Parameter H-C Range Gasoline C6-C10 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.Sample Amount : 5mlFinal Volume : 5mlPrepared by : SCervaAnalyzed by : SCerva

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#### METHOD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

|   |            | ===========   | ===================                     |                |
|---|------------|---------------|---|----------------|
| Client : EUROFINS EATON                 | ANALYTICAL | Date          | Collected:                              | 04/25/22 10:34 |
| Project : 1001682                       |            | Date          | e Received:                             | 04/28/22       |
| Batch No. : 22D274                      |            | Date          | Extracted:                              | 04/28/22 21:50 |
| Sample ID : 202204270911                |            | Date          | e Analyzed:                             | 04/28/22 21:50 |
| Lab Samp ID: D274-02                    |            | Dilut         | ion Factor:                             | 1              |
| Lab File ID: ED28015A                   |            |               | Matrix:                                 | WATER          |
| Ext Btch ID: 22VG39D15                  |            | 0<br>/        | % Moisture:                             | NA             |
| Calib. Ref.: ED28004A                   |            | Inst          | trument ID:                             | 39             |
|   |            |               |   |                |
|   |            |               |   |                |
|   | RESULTS    | RL            | MDL                                     |                |
| PARAMETERS                              | (mg/L)     | (mg/L)        | (mg/L)                                  |                |
|   |            |               |   | -              |
| GASOLINE                                | ND         | 0.020         | 0.010                                   |                |
|   |            |               |   |                |
| SURROGATE PARAMETERS                    | RESULT     | SPK_AMT       | %RECOVERY                               | QC LIMIT       |
|   |            |               |   |                |
| Bromofluorobenzene                      | 0.0340     | 0.0400        | 85                                      | 60-140         |
| ======================================= |            | ============= | ======================================= |                |

Notes:

Parameter H-C Range Gasoline C6-C10 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.Sample Amount: 5mlPrepared by: SCervaAnalyzed by : SCerva

REPORT ID: 22D274

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# **QC SUMMARIES**

REPORT ID: 22D274

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#### METHOD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

|   | ======================================= |         | ================ |                |
|---|---|---------|------------------|----------------|
| Client : EUROFINS EATO                  | N ANALYTICAL                            | Date    | Collected:       | 04/28/22 15:42 |
| Project : 1001682                       |   | Date    | e Received:      | 04/28/22       |
| Batch No. : 22D274                      |   | Date    | Extracted:       | 04/28/22 15:42 |
| Sample ID : MBLK1W                      |   | Date    | e Analyzed:      | 04/28/22 15:42 |
| Lab Samp ID: VG39D15B                   |   | Dilut   | ion Factor:      | 1              |
| Lab File ID: ED28005A                   |   |         | Matrix:          | WATER          |
| Ext Btch ID: 22VG39D15                  |   | a<br>/  | 6 Moisture:      | NA             |
| Calib. Ref.: ED28004A                   |   | Inst    | rument ID:       | 39             |
| ================================        |   |         |                  |                |
|   |   |         |                  |                |
|   | RESULTS                                 | RL      | MDL              |                |
| PARAMETERS                              | (mg/L)                                  | (mg/L)  | (mg/L)           |                |
|   |   |         |                  | -              |
| GASOLINE                                | ND                                      | 0.020   | 0.010            |                |
|   |   |         |                  |                |
| SURROGATE PARAMETERS                    | RESULT                                  | SPK_AMT | %RECOVERY        | QC LIMIT       |
|   |   |         |                  |                |
| Bromofluorobenzene                      | 0.0360                                  | 0.0400  | 90               | 60-140         |
| ======================================= |   |         |                  |                |
|   |   |         |                  |                |

Notes:

| NOLC3.      |    |    |                |            |              |
|-------------|----|----|----------------|------------|--------------|
| Parameter   |    | H۰ | C Range        |            |              |
| Gasoline    |    | Cć | 5-C10          |            |              |
| Reported ND | at | RL | quantitated pe | er pattern | recognition. |

Detection limits are reported relative to sample result significant figures.Sample Amount : 5mlFinal Volume : 5mlPrepared by : SCervaAnalyzed by : SCerva

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ED28004A

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| CLIENT<br>PROJECT | : EUROFINS EATON ANALYTI<br>: 1001682 | CAL            |                |  |
|-------------------|---------------------------------------|----------------|----------------|--|
| BATCH NO.         | : 22D274                              |                |                |  |
| METHOD            | : 5030B/8015B                         |                |                |  |
|                   |                                       |                |                |  |
| MATRIX            | : WATER                               |                | % MOISTURE:NA  |  |
| DILUTION FAC      | TOR: 1                                | 1              | 1              |  |
| SAMPLE ID         | : MBLK1W                              | LCS1W          | LCD1W          |  |
| LAB SAMPLE I      | D : VG39D15B                          | VG39D15L       | VG39D15C       |  |
| LAB FILE ID       | : ED28005A                            | ED28006A       | ED28007A       |  |
| DATE PREPARE      | D : 04/28/22 15:42                    | 04/28/22 16:19 | 04/28/22 16:56 |  |
| DATE ANALYZE      | D : 04/28/22 15:42                    | 04/28/22 16:19 | 04/28/22 16:56 |  |
| PREP BATCH        | : 22VG39D15                           | 22VG39D15      | 22VG39D15      |  |

#### ACCESSION:

CALIBRATION REF: ED28004A

|                     |                    |                     |               | (mg/L)             | (mg/l)              | (%)           | (%) | (%)                | (%) |
|---------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|-----|--------------------|-----|
| Gasoline            | ND 0.500           | 0.515               | 103           | 0,500              | 0.512               | 102           | 1   | 60-130             | 30  |
| SURROGATE PARAMETER | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | SpikeAmt<br>(mg/L) | LCDResult<br>(mg/L) | LCDRec<br>(%) |     | <br>QCLimit<br>(%) |     |
| Bromofluorobenzene  | 0.0400             | 0.0465              | 116           | 0.0400             | 0.0457              | 114           |     | 70-130             |     |

ED28004A

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

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| CLIENT    | : EUROFINS EATON ANALYTICAL |
|-----------|-----------------------------|
| PROJECT   | : 1001681                   |
| BATCH NO. | : 22D272                    |
| METHOD    | : 5030B/8015B               |
|           |                             |

| MATRIX : W         | JATER          |          |             |       |          | % MOISTURE | :NA   |
|--------------------|----------------|----------|-------------|-------|----------|------------|-------|
| DILUTION FACTOR: " | 1              |          | 1           |       |          | 1          |       |
| SAMPLE ID : 2      | 202204270906   |          | 20220427090 | D6MS  |          | 2022042709 | 06MSD |
| LAB SAMPLE ID : D  | 0272-01        |          | D272-01M    |       |          | D272-01s   |       |
| LAB FILE ID : E    | ED28008A       |          | ED28009A    |       |          | ED28010A   |       |
| DATE PREPARED : (  | 04/28/22 17:33 |          | 04/28/22 18 | 3:10  |          | 04/28/22 1 | 8:46  |
| DATE ANALYZED : (  | 04/28/22 17:33 |          | 04/28/22 18 | 3:10  |          | 04/28/22 1 | 8:46  |
| PREP BATCH : 2     | 22VG39D15      |          | 22VG39D15   |       |          | 22VG39D15  |       |
| CALIBRATION REF: E | ED28004A       |          | ED28004A    |       |          | ED28004A   |       |
| ACCESSION:         |                |          |             |       |          |            |       |
|                    | PSPocul t      | SpikoAmt | MSPocul +   | MSRoc | SpikoAmt | MSDPocult  | MSDBO |

| PARAMETERS          | PSResult<br>(mg/L) | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L)                      | MSDResult<br>(mg/L) | MSDRec<br>(%) | RPD<br>(%) | QCLimit<br>(%) | MaxRPD<br>(%) |
|---------------------|--------------------|--------------------|--------------------|--------------|---|---------------------|---------------|------------|----------------|---------------|
| Gasoline            | ND                 | 0.500              | 0.518              | 104          | 0.500                                   | 0.510               | 102           | 2          | 50-130         | 30            |
|                     |                    |                    |                    | ========     | ==========                              | ==========          |               | =======    | =========      |               |
| SURROGATE PARAMETER |                    | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L)                      | MSDResult<br>(mg/L) | MSDRec<br>(%) |            | QCLimit<br>(%) |               |
| Bromofluorobenzene  |                    | 0.0400             | 0.0447             | 112          | 0.0400                                  | 0.0453              | 113           |            | 60-140         |               |
|                     |                    |                    |                    | =======      | ======================================= |                     | ==========    | ========   | ===========    | ========      |

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

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LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

1001682

# METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22D274

REPORT ID: 22D274

#### CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 1001682

SDG : 22D274

#### METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 04/28/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time The sample was analyzed within the prescribed holding time.

Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project. Refer to MRL summary form for details.

#### Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSE001WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample

Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. DSE001WL/DSE001WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 22D272-01M/22D272-01S. Refer to Matrix QC summary form for details.

Surrogate Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

Page 16 of 23 Page 32 of 39 pages

|               | EXTRACTION                   |
|---------------|------------------------------|
|               | ВΥ                           |
| LAB CHRONICLE | TOTAL PETROLEUM HYDROCARBONS |

| Client<br>Project | <pre>client : EUROFINS EATON ANALYTICAL Project : 1001682</pre> | ANALYTICAL          |          |       |                   |               |   |                   | SDG NO.<br>Instrument ID | SDG NO. : 22D274<br>Instrument ID : D5 |
|-------------------|---|---------------------|----------|-------|-------------------|---------------|---|-------------------|--------------------------|--|
|                   |   |                     |          |       | WATER             |               |   |                   |                          |  |
| Client            |   | Laboratory Dilution | Dilution | %     | Analysis          | Extraction    | Sample                                  | Calibration Prep. | n Prep.                  |  |
| Sample ID         |   | Sample ID           | Factor   | Moist | DateTime          | Dateīīme      | Data FN                                 | Data FN           | Batch                    | Notes                                  |
|                   |   | 3 1 1 1 1 1 1       |          |       | * * * * * * * * * |               | 1 |                   |                          |  |
| MBLK1W            |   | DSE001WB            | ~        | NA    | 05/03/2213:58     | 05/02/2211:00 | LE03008A                                | LE03004A          | 22DSE001W                | 22DSE001W Method Blank                 |
| LCS1W             |   | DSE001ML            | ~        | NA    | 05/03/2214:16     | 05/02/2211:00 | LE03009A                                | LE03004A          | 22DSE001W                | 22DSE001W Lab Control Sample (LCS)     |
| LCD1W             |   | DSE001WC            | -        | NA    | 05/03/2214:35     | 05/02/2211:00 | LE03010A                                | LE03004A          | 22DSE001W                | 22DSE001W LCS Duplicate                |
| 202204270910      | 910   | D274-01             | ~        | NA    | 05/03/2216:07     | 05/02/2211:00 | LE03015A                                | LE03004A          | 22DSE001W                | 22DSE001W Field Sample                 |

FN - Filename % Moist - Percent Moisture

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# SAMPLE RESULTS

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#### METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

| Client : EUROFINS EATON  | ANALYTICAL   | Date                | Collected:      | 04/25/22 10:34 |
|--------------------------|--------------|---------------------|-----------------|----------------|
| Project : 1001682        |              | Date                | e Received:     | 04/28/22       |
| Batch No. : 22D274       |              | Date                | Extracted:      | 05/02/22 11:00 |
| Sample ID : 202204270910 |              | Date                | e Analyzed:     | 05/03/22 16:07 |
| Lab Samp ID: 22D274-01   |              | Dilut               | ion Factor:     | 1              |
| Lab File ID: LE03015A    |              |                     | Matrix:         | WATER          |
| Ext Btch ID: 22DSE001W   |              |                     | % Moisture:     | NA             |
| Calib. Ref.: LE03004A    |              | Ins                 | trument ID:     | D5             |
|                          | ============ | =================== | =============== |                |
|                          |              |                     |                 |                |
|                          | RESULTS      | RL                  | MDL             |                |
| PARAMETERS               | (mg/L)       | (mg/L)              | (mg/L)          |                |
|                          |              |                     |                 | -              |
| Diesel                   | ND           | 0.024               | 0.012           |                |
| Motor Oil                | ND           | 0.047               | 0.024           |                |
|                          |              |                     |                 |                |
| SURROGATE PARAMETERS     | RESULT       | SPK AMT             | %RECOVERY       | QC LIMIT       |
|                          |              |                     |                 |                |
| Bromobenzene             | 0.397        | 0.470               | 84              | 60~130         |
| Hexacosane               | 0.110        | 0.118               | 94              | 60-130         |
|                          |              |                     |                 |                |

Notes:

| Parameter   | H-C Range                                 |  |
|-------------|---|--|
| Diesel      | C10-C24                                   |  |
| Motor Oil   | C24-C36                                   |  |
| Reported ND | at RL quantitated per pattern recognition |  |

Detection limits are reported relative to sample result significant figures.Sample Amount : 1060mlFinal Volume : 5mlPrepared by : POretoAnalyzed by : SDeeso

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# **QC SUMMARIES**

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REPORT ID: 22D274

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#### METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

|                         |   | ======================================= | ============= |                |
|-------------------------|---|---|---------------|----------------|
| Client : EUROFINS EATON | ANALYTICAL                              | Date                                    | Collected:    | 05/02/22 11:00 |
| Project : 1001682       |   | Date                                    | e Received:   | 05/02/22       |
| Batch No. : 22D274      |   | Date                                    | Extracted:    | 05/02/22 11:00 |
| Sample ID : MBLK1W      |   | Date                                    | Analyzed:     | 05/03/22 13:58 |
| Lab Samp ID: DSE001WB   |   |   | ion Factor:   |                |
| Lab File ID: LE03008A   |   |   | Matrix:       | WATER          |
| Ext Btch ID: 22DSE001W  |   | a<br>/                                  | 6 Moisture:   | NA             |
| Calib. Ref.: LE03004A   |   | Inst                                    | trument ID:   | D5             |
|                         | ======================================= | ======================================= |               | *========      |
|                         |   |   |               |                |
|                         | RESULTS                                 | RL                                      | MDL           |                |
| PARAMETERS              | (mg/l)                                  | (mg/L)                                  | (mg/L)        |                |
|                         |   |   |               | -              |
| Diesel                  | ND                                      | 0.025                                   | 0.012         |                |
| Motor Oil               | ND                                      | 0.050                                   | 0.025         |                |
|                         |   |   |               |                |
| SURROGATE PARAMETERS    | RESULT                                  | SPK AMT                                 | %RECOVERY     | QC LIMIT       |
|                         |   |   |               |                |
| Bromobenzene            | 0.374                                   | 0.500                                   | 75            | 60-130         |
| Hexacosane              | 0.0920                                  | 0.125                                   | 74            | 60-130         |
|                         |   | ======================================= |               |                |

Notes:

| Parameter     | H-C Range                                 |
|---------------|---|
| Diesel        | c10-c24                                   |
| Motor Oil     | C24-C36                                   |
| Reported ND a | t RL quantitated per pattern recognition. |

Detection limits are reported relative to sample result significant figures.Sample Amount : 1000mlFinal Volume : 5mlPrepared by : POretoAnalyzed by : SDeeso

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| Bromobenzene<br>Hexacosane  |  | 0.500<br>0.125     | 0.432<br>0.107  | 86<br>86      |                    | 0.476<br>0.114      | 95<br>91      |            | 60-130<br>60-130 |               |
|---|--|--------------------|---|---------------|--------------------|---------------------|---------------|------------|------------------|---------------|
| SURROGATE PARAMETERS  |  | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L)   | LCSRec<br>(%) | SpikeAmt<br>(mg/L) | LCDResult<br>(mg/L) | LCDRec<br>(%) |            | QCLimit<br>(%)   |               |
| Diesel  | ND   | 2.50               | 2.01  | 80            | 2.50               | 2.12                | 85            | 5          | 50-130           | 30            |
| PARAMETERS  | MBResult<br>(mg/L)   |                    |   | LCSRec<br>(%) |                    | LCDResult<br>(mg/L) | LCDRec<br>(%) | RPD<br>(%) | QCLimit<br>(%)   | MaxRPD<br>(%) |
| ACCESSION:  |  |                    |   |               |                    |                     |               |            |                  |               |
| LAB FILE ID         : LE03008A         LE030           DATE PREPARED         : 05/02/22 11:00         05/02           DATE ANALYZED         : 05/03/22 13:58         05/02           PREP BATCH         : 22DSE001W         22DSE |  |                    | % MOISTURE:NA         1         SS1W       LCD1W         SE001WL       DSE001WC         :03009A       LE03010A         :/02/22       11:00         :/03/22       14:16         :05/03/22       14:35         :205E001W       22DSE001W         :03004A       LE03004A |               |                    |                     |               |            |                  |               |
| PROJECT :<br>BATCH NO. :  | : EUROFINS EATON ANA<br>: 1001682<br>: 22D274<br>: 3520C/8015B | LYTICAL            |   |               |                    |                     |               |            |                  |               |

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

| CLIENT    | : EUROFINS EATON ANALYTICAL |  |  |  |  |  |
|-----------|-----------------------------|--|--|--|--|--|
| PROJECT   | : 1001681                   |  |  |  |  |  |
| BATCH NO. | : 220272                    |  |  |  |  |  |
| METHOD    | : 3520C/8015B               |  |  |  |  |  |
|           |                             |  |  |  |  |  |

| MATRIX : WATER<br>DILUTION FACTOR: 1<br>SAMPLE ID : 2022042<br>LAB SAMPLE ID : 220272-<br>LAB FILE ID : LE03011<br>DATE PREPARED : 05/03/2<br>DATE ANALYZED : 05/03/2<br>PREP BATCH : 22DSE00<br>CALIBRATION REF: LE03004<br>ACCESSION: | 1<br>202204270906MS<br>22D272-01M<br>LE03012A<br>05/02/22 11:00<br>05/03/22 15:12<br>22DSE001W<br>LE03004A |                    |                    | % MOISTURE:NA<br>1<br>202204270906MSD<br>22D272-01S<br>LE03013A<br>05/02/22 11:00<br>05/03/22 15:30<br>22DSE001W<br>LE03004A |                    |                     |               |            |                |               |
|---|--|--------------------|--------------------|--|--------------------|---------------------|---------------|------------|----------------|---------------|
| PARAMETERS  | PSResult<br>(mg/L)   | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%)   | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | RPD<br>(%) | QCLimit<br>(%) | MaxRPD<br>(%) |
| Diesel  | ND   | 2.33               | 1.90               | 82   | 2.38               | 2.14                | 90            | 12         | 50-130         | 30            |
| SURROGATE PARAMETERS  |  | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%)   | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | ========   | QCLimit<br>(%) |               |
| Bromobenzene  | 0,465  | 0.382              | 82                 | 0.475  | 0.442              | 93                  |               | 60-130     |                |               |

0.104

0.116

89

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0.119

0.114

96

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

REPORT ID: 22D274

Hexacosane

60-130

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