

## Daily Analysis Runlog For Sequence/QC Batch ID # LB93559

|               |             |                   |        |                    |         |        |
|---------------|-------------|-------------------|--------|--------------------|---------|--------|
| Review By     |             | Review On         |        |                    |         |        |
| SubDirectory  |             | LB93559           |        | Test : Bicarbonate |         |        |
| STD. NAME     |             | STD REF.#         |        |                    |         |        |
| ICAL Standard |             | N/A               |        |                    |         |        |
| ICV Standard  |             | N/A               |        |                    |         |        |
| CCV Standard  |             | N/A               |        |                    |         |        |
| ICSA Standard |             | N/A               |        |                    |         |        |
| CRI Standard  |             | N/A               |        |                    |         |        |
| LCS Standard  |             | WP62328           |        |                    |         |        |
| Chk Standard  |             | W2269,W2159,W2270 |        |                    |         |        |
| Sr#           | SampleID    | ClientID          | QcType | Date               | Comment | Status |
| 1             | LB93559BLW  | LB93559BLW        | MB     | 02/27/18 16:08     |         | OK     |
| 2             | LB93559BSW  | LB93559BSW        | LCS    | 02/27/18 16:15     |         | OK     |
| 3             | J1665-01    | MW9-056-1         | SAM    | 02/27/18 16:21     |         | OK     |
| 4             | J1665-02    | MW2S-056-1        | SAM    | 02/27/18 16:26     |         | OK     |
| 5             | J1665-03    | MW10M-056-1       | SAM    | 02/27/18 16:30     |         | OK     |
| 6             | J1665-04    | MW10M-056-2       | SAM    | 02/27/18 16:34     |         | OK     |
| 7             | J1665-05    | MW10D-056-1       | SAM    | 02/27/18 16:40     |         | OK     |
| 8             | J1665-07    | MW11M-056-1       | SAM    | 02/27/18 16:48     |         | OK     |
| 9             | J1665-06    | MW11M-056-3       | SAM    | 02/27/18 16:57     |         | OK     |
| 10            | J1665-08    | MW11D-056-1       | SAM    | 02/27/18 17:00     |         | OK     |
| 11            | J1665-09    | MW4S-056-1        | SAM    | 02/27/18 17:04     |         | OK     |
| 12            | J1665-10    | MW4D-056-1        | SAM    | 02/27/18 17:09     |         | OK     |
| 13            | LB93559BSW2 | LB93559BSW2       | LCS    | 02/27/18 17:15     |         | OK     |
| 14            | J1681-01    | MW1-056-1         | SAM    | 02/27/18 17:20     |         | OK     |
| 15            | J1681-02    | MW6-056-3         | SAM    | 02/27/18 17:28     |         | OK     |
| 16            | J1681-03    | MW6-056-1         | SAM    | 02/27/18 17:30     |         | OK     |
| 17            | J1681-04    | MW8D-056-1        | SAM    | 02/27/18 17:34     |         | OK     |
| 18            | J1681-04DUP | MW8D-056-1DUP     | DUP    | 02/27/18 17:39     |         | OK     |
| 19            | J1681-05    | MWP4-056-1        | SAM    | 02/27/18 17:44     |         | OK     |
| 20            | J1681-06    | MW8M-056-1        | SAM    | 02/27/18 17:48     |         | OK     |
| 21            | J1681-07    | MW8M-056-2        | SAM    | 02/27/18 17:53     |         | OK     |

**Daily Analysis Runlog For Sequence/QC Batch ID # LB93559**

|                  |             |                    |     |                |  |    |
|------------------|-------------|--------------------|-----|----------------|--|----|
| Review By        |             | Review On          |     |                |  |    |
| SubDirectory     |             | Test : Bicarbonate |     |                |  |    |
| LB93559          |             |                    |     |                |  |    |
| <b>STD. NAME</b> |             | <b>STD REF.#</b>   |     |                |  |    |
| ICAL Standard    |             | N/A                |     |                |  |    |
| ICV Standard     |             | N/A                |     |                |  |    |
| CCV Standard     |             | N/A                |     |                |  |    |
| ICSA Standard    |             | N/A                |     |                |  |    |
| CRI Standard     |             | N/A                |     |                |  |    |
| LCS Standard     |             | WP62328            |     |                |  |    |
| Chk Standard     |             | W2269,W2159,W2270  |     |                |  |    |
| 22               | J1681-08    | MWP2-056-1         | SAM | 02/27/18 17:59 |  | OK |
| 23               | J1681-09    | MW4M-056-1         | SAM | 02/27/18 18:03 |  | OK |
| 24               | J1682-01    | I01I-056-1         | SAM | 02/27/18 18:08 |  | OK |
| 25               | J1682-02    | I03I-056-1         | SAM | 02/27/18 18:13 |  | OK |
| 26               | J1682-03    | I04I-056-1         | SAM | 02/27/18 18:17 |  | OK |
| 27               | J1682-04    | I05I-056-1         | SAM | 02/27/18 18:22 |  | OK |
| 28               | J1682-05    | I06I-056-1         | SAM | 02/27/18 18:27 |  | OK |
| 29               | J1682-05DUP | I06I-056-1DUP      | DUP | 02/27/18 18:31 |  | OK |
| 30               | LB93559BLW2 | LB93559BLW2        | MB  | 02/27/18 18:36 |  | OK |



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## Report of Analysis

|                   |           |                 |                       |
|-------------------|-----------|-----------------|-----------------------|
| Client:           |           | Date Collected: | 2/22/2018 12:00:00 AM |
| Project:          | LB93559   | Date Received:  | 2/22/2018 12:00:00 AM |
| Client Sample ID: | MW9-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1665-01  | Matrix:         | WATER                 |
| Level (low/med):  | low       | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 155   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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## Report of Analysis

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|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 2/22/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/22/2018 12:00:00 AM |
| Client Sample ID: | MW2S-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1665-02   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 32.8  |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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## Report of Analysis

|                   |             |                 |                       |
|-------------------|-------------|-----------------|-----------------------|
| Client:           |             | Date Collected: | 2/22/2018 12:00:00 AM |
| Project:          | LB93559     | Date Received:  | 2/22/2018 12:00:00 AM |
| Client Sample ID: | MW10M-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1665-03    | Matrix:         | WATER                 |
| Level (low/med):  | low         | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 151   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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|-------------------|-------------|-----------------|-----------------------|
| Client:           |             | Date Collected: | 2/22/2018 12:00:00 AM |
| Project:          | LB93559     | Date Received:  | 2/22/2018 12:00:00 AM |
| Client Sample ID: | MW10M-056-2 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1665-04    | Matrix:         | WATER                 |
| Level (low/med):  | low         | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 159   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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|-------------------|-------------|-----------------|-----------------------|
| Client:           |             | Date Collected: | 2/22/2018 12:00:00 AM |
| Project:          | LB93559     | Date Received:  | 2/22/2018 12:00:00 AM |
| Client Sample ID: | MW10D-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1665-05    | Matrix:         | WATER                 |
| Level (low/med):  | low         | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 156   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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|                   |             |                 |                       |
|-------------------|-------------|-----------------|-----------------------|
| Client:           |             | Date Collected: | 2/22/2018 12:00:00 AM |
| Project:          | LB93559     | Date Received:  | 2/22/2018 12:00:00 AM |
| Client Sample ID: | MW11M-056-3 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1665-06    | Matrix:         | WATER                 |
| Level (low/med):  | low         | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | -0    | U    | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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| Client:           |             | Date Collected: | 2/22/2018 12:00:00 AM |
| Project:          | LB93559     | Date Received:  | 2/22/2018 12:00:00 AM |
| Client Sample ID: | MW11M-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1665-07    | Matrix:         | WATER                 |
| Level (low/med):  | low         | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 138   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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|                   |             |                 |                       |
|-------------------|-------------|-----------------|-----------------------|
| Client:           |             | Date Collected: | 2/22/2018 12:00:00 AM |
| Project:          | LB93559     | Date Received:  | 2/22/2018 12:00:00 AM |
| Client Sample ID: | MW11D-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1665-08    | Matrix:         | WATER                 |
| Level (low/med):  | low         | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 151   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 2/22/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/22/2018 12:00:00 AM |
| Client Sample ID: | MW4S-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1665-09   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 218   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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| Client:           |            | Date Collected: | 2/22/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/22/2018 12:00:00 AM |
| Client Sample ID: | MW4D-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1665-10   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 237   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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## Report of Analysis

|                   |           |                 |                       |
|-------------------|-----------|-----------------|-----------------------|
| Client:           |           | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559   | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | MW1-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1681-01  | Matrix:         | WATER                 |
| Level (low/med):  | low       | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 83    |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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|-------------------|-----------|-----------------|-----------------------|
| Client:           |           | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559   | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | MW6-056-3 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1681-02  | Matrix:         | WATER                 |
| Level (low/med):  | low       | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | -0    | U    | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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|-------------------|-----------|-----------------|-----------------------|
| Client:           |           | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559   | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | MW6-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1681-03  | Matrix:         | WATER                 |
| Level (low/med):  | low       | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 135   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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| Client:           |            | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | MW8D-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1681-04   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 144   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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| Client:           |            | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | MWP4-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1681-05   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 106   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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| Client:           |            | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | MW8M-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1681-06   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 207   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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| Client:           |            | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | MW8M-056-2 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1681-07   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 203   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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| Client:           |            | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | MWP2-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1681-08   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 32.6  |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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| Client:           |            | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | MW4M-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1681-09   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 87.8  |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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| Client:           |            | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | I01I-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1682-01   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 156   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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| Client:           |            | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | I03I-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1682-02   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 103   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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## Report of Analysis

|                   |            |                 |                       |
|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | I04I-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1682-03   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 102   |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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## Report of Analysis

|                   |            |                 |                       |
|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | I05I-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1682-04   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 93.4  |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



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## Report of Analysis

|                   |            |                 |                       |
|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | I06I-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1682-05   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter   | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Bicarbonate | 96.1  |      | 1  | 0.4 |     | 2          | mg/L  |           | 02/27/2018 | SM2320 B |



## Report of Analysis

|                   |            |                 |                       |
|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 2/23/2018 12:00:00 AM |
| Project:          | LB93559    | Date Received:  | 2/23/2018 12:00:00 AM |
| Client Sample ID: | I06I-056-1 | SDG No.:        | LB93559               |
| Lab Sample ID:    | J1682-05   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|-----------|----------|
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|-----------|----------|

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



**GENCHEM**  
**- 3b -**  
**PREPARATION BLANK SUMMARY**

**Client:** LB93559

**SDG No.:** LB93559

**Instrument:** Titroline Alpha Titrator

| Sample ID          | Analyte     | Result<br>(mg/L) | Acceptance<br>Limit | Conc<br>Qual         | LOD<br>mg/L | CRQL<br>mg/L | M | Analysis<br>Date  | Analysis<br>Time | Run     |
|--------------------|-------------|------------------|---------------------|----------------------|-------------|--------------|---|-------------------|------------------|---------|
| <b>LB93559BLW</b>  |             | <b>WATER</b>     |                     | <b>Batch Number:</b> |             |              |   | <b>Prep Date:</b> |                  |         |
|                    | Bicarbonate | 0.4              | <2                  | U                    |             | 2            |   | 02/27/2018        | 16:08            | LB93559 |
| Sample ID          | Analyte     | Result<br>(mg/L) | Acceptance<br>Limit | Conc<br>Qual         | LOD<br>mg/L | CRQL<br>mg/L | M | Analysis<br>Date  | Analysis<br>Time | Run     |
| <b>LB93559BLW2</b> |             | <b>WATER</b>     |                     | <b>Batch Number:</b> |             |              |   | <b>Prep Date:</b> |                  |         |
|                    | Bicarbonate | 0.4              | <2                  | U                    |             | 2            |   | 02/27/2018        | 18:36            | LB93559 |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB93559      **Level:** LOW      **SDG No.:** LB93559  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB93559      **SAS No.:** LB93559  
**Matrix:** WATER      **Sample ID:** J1681-04      **Client ID:** MW8D-056-1DUP  
**Percent Solids for Sample:** 0      **Duplicate ID** J1681-04DUP      **Percent Solids for Spike Sample:** 0

| Analyte     | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|-------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Bicarbonate | mg/L  | 20                  | 144              |   | 145                 |   | 1   |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB93559      **Level:** LOW      **SDG No.:** LB93559  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB93559      **SAS No.:** LB93559  
**Matrix:** WATER      **Sample ID:** J1682-05      **Client ID:** I06I-056-1DUP  
**Percent Solids for Sample:** 0      **Duplicate ID** J1682-05DUP      **Percent Solids for Spike Sample:** 0

| Analyte     | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|-------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Bicarbonate | mg/L  | 20                  | 96.1             |   | 95.3                |   | 1   |      |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93559

SDG No.: LB93559

Contract:

Lab Code: CHEM

Case No.: LB93559

SAS No.: LB93559

| Analyte                   | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|---------------------------|-------|------------|--------|---|---------------|----------------------|---|
| LB93559BSW<br>Bicarbonate | mg/L  | 50         | 43.1   |   | 86.2          | 80 - 120             |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93559

SDG No.: LB93559

Contract:

Lab Code: CHEM

Case No.: LB93559

SAS No.: LB93559

| Analyte                    | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|----------------------------|-------|------------|--------|---|---------------|----------------------|---|
| LB93559BSW2<br>Bicarbonate | mg/L  | 50         | 44.8   |   | 89.6          | 80 - 120             |   |