

# Data Submission Guide for CMDP Disinfection By-Products (TTHM/HAA5) (reported through EXCEL TEMPLATE)

## Document Instructions

The Excel template used for reporting Disinfection By-Product samples has three sections: general **Sample Information**, **Chem/Rad Results**, and **Field Results and Measurements** (do not use this section for TTHM/HAA5 reporting). This guidance document describes how to submit information for **TTHM and HAA5 Disinfection By-Product** samples and includes a **Methods Chart** and **examples** of completed sample submissions.

This guidance document highlights the required fields:

- Header fields in **RED and underlined text** are **required** in order to meet federal and state reporting requirements.
- Header fields in **BLUE and underlined text** are **conditionally or situationally required**.
- Header fields in **BLACK text** are not required for a successful data submission.

**Sample data will be rejected if the required fields are left blank.**

Additionally keep in mind:

- Use drop-down icons (▼) to filter data.
- If you have questions, please contact our CMDP support staff at [support@1gec.com](mailto:support@1gec.com).

## Table of Contents

| CMDP<br>Compliance Monitoring Data Portal |                      | Chemicals/Radionuclides |             |                   |                   |                 |            |             |               |                 |                    | Results                   |                          |         |                  |                      |              |          |            |                         |                  | Field Results and Measurements |           |        |                     |                     |                         |                         |              |         |                        |       |     |        |         |
|---|----------------------|-------------------------|-------------|-------------------|-------------------|-----------------|------------|-------------|---------------|-----------------|--------------------|---------------------------|--------------------------|---------|------------------|----------------------|--------------|----------|------------|-------------------------|------------------|--------------------------------|-----------|--------|---------------------|---------------------|-------------------------|-------------------------|--------------|---------|------------------------|-------|-----|--------|---------|
| Reporting Lab                             |                      | Sample Information      |             |                   |                   |                 |            |             |               |                 |                    | Results                   |                          |         |                  |                      |              |          |            |                         |                  | Field Results and Measurements |           |        |                     |                     |                         |                         |              |         |                        |       |     |        |         |
| Sample ID                                 | Sample Received Date | VSI ID                  | Facility ID | Sampling Point ID | Sampling Location | Collection Date | Time (EST) | Sample Type | Sample Volume | Report Location | Original Sample ID | Original Reporting Lab ID | Original Collection Date | Comment | Sample Collected | Analysis (Date/Name) | Net Detected | Residual | Flow (MGD) | Standard Deviation (SD) | Reporting Status | Reporting Lab UOM              | Sample ID | Method | Analysis Start Date | Analysis Start Time | Analysis Completed Date | Analysis Completed Time | Analysis Lab | Comment | Parameter (Scale Name) | Scale | UOM | Method | Comment |

**Section 1: Sample Information**  
(page 2)

**Section 2: Chem/Rad Results**  
(page 3)

**Section 3: Field Results and Measurements**  
*DO NOT USE FOR TTHM/HAA5*

| Methods Chart        |  |
|----------------------|--|
| Analysis Method Used | Report this Method in CMDP                     |
| 524.2                | 524.2-VOC, GC/MS, P&T, CAPCOLUMN               |
| 552.2                | 552.2-DBPS & CL2 SOLVENTS GC L/L ELECTRON CAPT |
| 552.3                | 552.3-552.3                                    |

Methods Chart on page 3

DATA SUBMISSION GUIDE FOR DISINFECTION BY-PRODUCT SAMPLES THROUGH EXCEL TEMPLATE

Section 3: Example of Completed Sample Submission

Example 1: Halothane, Arsenic (HAA5)

Sample Information

| Sample ID | Sample Received Date | VSI ID | Facility ID | Sampling Point ID | Sampling Location | Collection Date | Time (EST) | Sample Type | Sample Volume | Report Location | Original Sample ID | Original Reporting Lab ID | Original Collection Date | Comment                        | Sample Collected |
|-----------|----------------------|--------|-------------|-------------------|-------------------|-----------------|------------|-------------|---------------|-----------------|--------------------|---------------------------|--------------------------|--------------------------------|------------------|
| 524.2     | 10/15/2011           | 524.2  | 524.2       | 524.2             | 524.2             | 10/15/2011      | 10:00      | 524.2       | 524.2         | 524.2           | 524.2              | 524.2                     | 10/15/2011               | HAA5 TEST SAMPLE - FOR RESULTS | 524.2            |

Example of a Sample Result (Detect):

| Analysis (Date/Name)                   | Net Detected | Residual | Flow (MGD) | Standard Deviation (SD) | Reporting Status | Reporting Lab UOM | Sample ID | Method | Analysis Start Date | Analysis Start Time | Analysis Completed Date | Analysis Completed Time | Analysis Lab | Comment |
|--|--------------|----------|------------|-------------------------|------------------|-------------------|-----------|--------|---------------------|---------------------|-------------------------|-------------------------|--------------|---------|
| 524.2-DBPS & CL2 SOLVENTS GC, ATTOCORN | 0.00         | 0.00     | 0.00       | 0.00                    | Pass             | MG/L              | 524.2     | 524.2  | 10/15/2011          | 10:00               | 10/15/2011              | 10:00                   | 524.2        | Pass    |

Example of a Sample Result (Non-Detect):

| Analysis (Date/Name)                   | Net Detected | Residual | Flow (MGD) | Standard Deviation (SD) | Reporting Status | Reporting Lab UOM | Sample ID | Method | Analysis Start Date | Analysis Start Time | Analysis Completed Date | Analysis Completed Time | Analysis Lab | Comment |
|--|--------------|----------|------------|-------------------------|------------------|-------------------|-----------|--------|---------------------|---------------------|-------------------------|-------------------------|--------------|---------|
| 524.2-DBPS & CL2 SOLVENTS GC, ATTOCORN | 0.00         | 0.00     | 0.00       | 0.00                    | Pass             | MG/L              | 524.2     | 524.2  | 10/15/2011          | 10:00               | 10/15/2011              | 10:00                   | 524.2        | Pass    |

**Section 4: Examples of Completed Sample Submissions**  
(pages 4-5)

# DATA SUBMISSION GUIDE FOR DISINFECTION BY-PRODUCT SAMPLES THROUGH EXCEL TEMPLATE

Header fields in **RED and underlined text** below are **required** in order to meet federal and state reporting requirements.

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Header fields in **BLACK text** are not required for a successful data submission.

## Section 1: Sample Information

| <b>CMDP</b><br><small>Compliance Monitoring Data Portal</small> |                      |         |               | <b>Chemicals/Radionuclides</b> |                   |                   |                         |               |               |                 |                      |                            |                          |         |                       |
|---|----------------------|---------|---------------|--------------------------------|-------------------|-------------------|-------------------------|---------------|---------------|-----------------|----------------------|----------------------------|--------------------------|---------|-----------------------|
|   |                      |         |               |                                |                   |                   |                         |               |               |                 |                      |                            |                          |         |                       |
| Reporting Lab. ID *   |                      |         |               | Generate XML                   |                   |                   |                         |               |               |                 |                      |                            |                          |         |                       |
| Sample Information  |                      |         |               |                                |                   |                   |                         |               |               |                 |                      |                            |                          |         |                       |
| Sample ID *   | Sample Received Date | WS ID * | Facility ID * | Sampling Point ID *            | Sampling Location | Collection Date * | Collection Time (24H) † | Sample Type * | Sample Volume | Repeat Location | Original Sample ID † | Original Reporting Lab. ID | Original Collection Date | Comment | Sample Collector Name |
|   |                      |         |               |                                |                   |                   |                         |               |               |                 |                      |                            |                          |         |                       |

**Reporting Lab. ID:** Lab identification number.

**Sample ID:** Lab sample identification number, limit to 20 characters (numbers, letters, dash/underscore (-\_) are allowed).

**Sample Received Date:** Date sample was received by lab (MM/DD/YY).

**WS ID:** Public Water System identification number (PWSID).

**NOTE:** Each water system name has a unique PWSID number. If the name and number on the work order does not match what is listed in CMDP, investigate to ensure accuracy and consistency.

**Facility ID:** Facility identification number where sample was collected.

**Sampling Point ID:** Sample Point identification number related to the facility where the sample was collected.

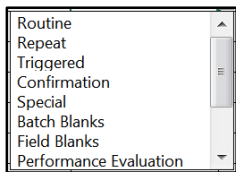
**NOTE:** A PWS can potentially have more than one Sampling Point for TTHMs & HAA5s; selecting the appropriate sampling point is very important for this rule. If the PWS did not provide sufficient information to select the appropriate Sampling Point feel free to contact the DW Program.

**Sampling Location:** This field must describe the location where the sample was taken from in the distribution system (i.e., 123 Main Street, Health Clinic, etc.). Keep description succinct (numbers, letters, dash/underscore (-\_) only).

**Collection Date:** Date sample collected (MM/DD/YY).

**Collection Time (24H):** Time sample collected (HH:MM).

**Sample Type:** Type of sample to be submitted. From the drop-down menu (pictured below), select the appropriate sample type (i.e., routine, special, etc.).



**Sample Volume:** Not required (numerical value only).

**Repeat Location:** Not required.

**Original Sample ID:** Not required.

**Original Reporting Lab. ID:** Not required.

**Original Collection Date:** Not required (MM/DD/YY).

**Comment:** Optional.

**Sample Collector Name:** Name of sample collector, report if information is provided.

# DATA SUBMISSION GUIDE FOR DISINFECTION BY-PRODUCT SAMPLES THROUGH EXCEL TEMPLATE

Header fields in **RED and underlined text** below are **required** in order to meet federal and state reporting requirements.

Header fields in **BLUE and underlined text** are *conditionally or situationally required*.

Header fields in **BLACK text** are not required for a successful data submission.

## Section 2: Chem/Rad Results

| Results                                |                            |                     |                         |                                       |                              |                                  |                |                     |                                  |                                  |                         |                         |               |         |
|--|----------------------------|---------------------|-------------------------|---------------------------------------|------------------------------|----------------------------------|----------------|---------------------|----------------------------------|----------------------------------|-------------------------|-------------------------|---------------|---------|
| Analyte* <sup>f</sup><br>[Code - Name] | Not Detected* <sup>f</sup> | Result <sup>f</sup> | Result UOM <sup>f</sup> | Standard Deviation (+/-) <sup>f</sup> | Reporting Limit <sup>f</sup> | Reporting Limit UOM <sup>f</sup> | Volume Assayed | Method <sup>f</sup> | Analysis Start Date <sup>f</sup> | Analysis Start Time <sup>f</sup> | Analysis Completed Date | Analysis Completed Time | Analyzing Lab | Comment |

**Analyte [Code-Name]:** From the drop-down menu, select the individual sample analytes for the results you are submitting. For a successful TTHM/HAA5 sample submittal, use the lists below for the analyte codes of the individual contaminants and the totals (TTHM=2950 and HAA5=2456).

| TTHM ANALYTES |                       | HAA5 ANALYTES |                       |
|---------------|-----------------------|---------------|-----------------------|
| Analysis Code | Analyte Name          | Analysis Code | Analyte Name          |
| 2941          | CHLOROFORM            | 2450          | MONOCHLOROACETIC ACID |
| 2942          | BROMOFORM             | 2451          | DICHLOROACETIC ACID   |
| 2943          | BROMODICHLORO METHANE | 2452          | TRICHLOROACETIC ACID  |
| 2944          | DIBROMOCHLORO METHANE | 2453          | MONOBROMOACETIC ACID  |
| 2950          | TTHM                  | 2454          | DIBROMOACETIC ACID    |
|               |                       | 2456          | HAA5                  |

**Not Detected:** From the drop-down menu, select the appropriate value listed below:

- Contaminant was **Detected** in the analyzed sample = select **No**.
- Contaminant was **Not Detected** in the analyzed sample = select **Yes**.

**Result:** Enter the appropriate reported result of the sample only if reporting a detect.

**Result UOM:** From the drop-down menu, select the unit of measure for the sample result as appropriate.

**Standard Deviation (+/-):** Not required but report if applicable.

**Reporting Limit:** Enter the appropriate reporting limit of the analyte.

**Reporting Limit UOM:** From the drop-down menu, select the unit of measure for the reporting limit as appropriate.

**Volume Assayed:** Not required but report if applicable (numerical value only).

**Method:** This drop-down list includes methods for ALL chemical/radionuclide analyses and is not filtered by the methods your lab (or subcontracting lab) is certified for. Be sure to verify certification status and select the appropriate method listed in the Methods Chart (shown to the right). Notice that each **Analysis Method Used** by labs is assigned to a specific *reporting code* indicated in the **Report this Method in CMDP** column. Samples will be rejected if users report a code that is not listed on the methods chart.

| Methods Chart        |  |
|----------------------|--|
| Analysis Method Used | Report this Method in CMDP                     |
| 524.2                | 524.2-VOC, GC/MS, P&T, CAPCOLUMN               |
| 552.2                | 552.2-DBPS & CL2 SOLVENTS GC L/L ELECTRON CAPT |
| 552.3                | 552.3-552.3                                    |

**Analysis Start Date:** Date when lab began analysis (MM/DD/YY).

**Analysis Start Time:** Time when lab began analysis (HH:MM).

**Analysis Completed Date:** Not required but report if information is available (MM/DD/YY).

**Analysis Completed Time:** Not required but report if information is available (HH:MM).

**Analyzing Lab ID:** If the sample was subcontracted to a different lab for analysis, the analyzing lab identification number is required to be reported here.

**Comment:** Optional.

## Section 3: Field Results and Measurements

**REMINDER!** This section (pictured to right) should **NOT** be used for Disinfection By-Product sample submittals. Please leave fields blank.

| Field Results and Measurements (Optional)<br>(* - Field required for record to exist) |         |      |        |         |
|---|---------|------|--------|---------|
| Parameter*<br>[Code - Name]   | Result* | UOM* | Method | Comment |

# DATA SUBMISSION GUIDE FOR DISINFECTION BY-PRODUCT SAMPLES THROUGH EXCEL TEMPLATE

## Section 4: Example of Completed Sample Submission

### Example 1: Trihalomethanes (TTHM)

| Sample Information |                                   |        |              |                    |                   |                  |                                    |              |               |                 |                     |                           |                          |                   | Results               |  |                            |                     |                         |                                       |                              |                                  |                |                                  | Field Results and Measurements (Optional) |                                  |                         |                         |               |         |                             |         |      |        |         |  |  |  |  |  |
|--------------------|-----------------------------------|--------|--------------|--------------------|-------------------|------------------|------------------------------------|--------------|---------------|-----------------|---------------------|---------------------------|--------------------------|-------------------|-----------------------|--|----------------------------|---------------------|-------------------------|---------------------------------------|------------------------------|----------------------------------|----------------|----------------------------------|---|----------------------------------|-------------------------|-------------------------|---------------|---------|-----------------------------|---------|------|--------|---------|--|--|--|--|--|
| Sample ID*         | Sample Received Date <sup>f</sup> | WS ID* | Facility ID* | Sampling Point ID* | Sampling Location | Collection Date* | Collection Time (24H) <sup>f</sup> | Sample Type* | Sample Volume | Repeat Location | Original Sample ID* | Original Reporting Lab ID | Original Collection Date | Comment           | Sample Collector Name | Analyte* <sup>f</sup><br>[Code - Name] | Not Detected* <sup>f</sup> | Result <sup>f</sup> | Result UOM <sup>f</sup> | Standard Deviation (+/-) <sup>f</sup> | Reporting Limit <sup>f</sup> | Reporting Limit UOM <sup>f</sup> | Volume Assayed | Method <sup>f</sup>              | Analysis Start Date <sup>f</sup>          | Analysis Start Time <sup>f</sup> | Analysis Completed Date | Analysis Completed Time | Analyzing Lab | Comment | Parameter*<br>[Code - Name] | Result* | UOM* | Method | Comment |  |  |  |  |  |
| DT440-180976-1     | 3/29/2017                         | DS001  | SPDS1DBP2-1  | SKYLINE FH         | 3/28/2017         | 09:00            | Routine                            |              |               |                 |                     |                           |                          | TTHM TEST SAMPLE. | JOE SMITH             | 2943-BROMODICHLOROMETHANE              | No                         | 2                   | ug/L                    |                                       | 1                            | ug/L                             |                | 524.2-VOC, GC/MS, P&T, CAPCOLUMN | 4/2/2017                                  | 23:02                            |                         |                         | CA01531       |         |                             |         |      |        |         |  |  |  |  |  |
|                    |                                   |        |              |                    |                   |                  |                                    |              |               |                 |                     |                           |                          |                   |                       | 2941-CHLOROFORM                        | No                         | 9.4                 | ug/L                    |                                       | 1                            | ug/L                             |                | 524.2-VOC, GC/MS, P&T, CAPCOLUMN | 4/2/2017                                  | 23:02                            |                         |                         | CA01531       |         |                             |         |      |        |         |  |  |  |  |  |
|                    |                                   |        |              |                    |                   |                  |                                    |              |               |                 |                     |                           |                          |                   |                       | 2950-TTHM                              | No                         | 11                  | ug/L                    |                                       | 1                            | ug/L                             |                | 524.2-VOC, GC/MS, P&T, CAPCOLUMN | 4/3/2017                                  | 11:15                            |                         |                         | CA01531       |         |                             |         |      |        |         |  |  |  |  |  |
|                    |                                   |        |              |                    |                   |                  |                                    |              |               |                 |                     |                           |                          |                   |                       | 2942-BROMOFORM                         | Yes                        |                     |                         |                                       | 1                            | ug/L                             |                | 524.2-VOC, GC/MS, P&T, CAPCOLUMN | 4/2/2017                                  | 23:02                            |                         |                         | CA01531       |         |                             |         |      |        |         |  |  |  |  |  |
|                    |                                   |        |              |                    |                   |                  |                                    |              |               |                 |                     |                           |                          |                   |                       | 2944-DIBROMOCHLOROMETHANE              | Yes                        |                     |                         |                                       | 1                            | ug/L                             |                | 524.2-VOC, GC/MS, P&T, CAPCOLUMN | 4/2/2017                                  | 23:02                            |                         |                         | CA01531       |         |                             |         |      |        |         |  |  |  |  |  |

DO NOT USE FOR CHEM/RAD

## Sample Information

| Sample Information |                                   |        |              |                    |                   |                  |                                    |              |               |                 |                     |                           |                          |                   |                       |
|--------------------|-----------------------------------|--------|--------------|--------------------|-------------------|------------------|------------------------------------|--------------|---------------|-----------------|---------------------|---------------------------|--------------------------|-------------------|-----------------------|
| Sample ID*         | Sample Received Date <sup>f</sup> | WS ID* | Facility ID* | Sampling Point ID* | Sampling Location | Collection Date* | Collection Time (24H) <sup>f</sup> | Sample Type* | Sample Volume | Repeat Location | Original Sample ID* | Original Reporting Lab ID | Original Collection Date | Comment           | Sample Collector Name |
| DT440-180976-1     | 3/29/2017                         | DS001  | SPDS1DBP2-1  | SKYLINE FH         | 3/28/2017         | 09:00            | Routine                            |              |               |                 |                     |                           |                          | TTHM TEST SAMPLE. | JOE SMITH             |

### 2 Example of a Sample Result (Detect):

| Results                                |                            |                     |                         |                                       |                              |                                  |                |                                  |                                  |                                  |                         |                         |               |         |  |  |
|--|----------------------------|---------------------|-------------------------|---------------------------------------|------------------------------|----------------------------------|----------------|----------------------------------|----------------------------------|----------------------------------|-------------------------|-------------------------|---------------|---------|--|--|
| Analyte* <sup>f</sup><br>[Code - Name] | Not Detected* <sup>f</sup> | Result <sup>f</sup> | Result UOM <sup>f</sup> | Standard Deviation (+/-) <sup>f</sup> | Reporting Limit <sup>f</sup> | Reporting Limit UOM <sup>f</sup> | Volume Assayed | Method <sup>f</sup>              | Analysis Start Date <sup>f</sup> | Analysis Start Time <sup>f</sup> | Analysis Completed Date | Analysis Completed Time | Analyzing Lab | Comment |  |  |
| 2943-BROMODICHLOROMETHANE              | No                         | 2                   | ug/L                    |                                       | 1                            | ug/L                             |                | 524.2-VOC, GC/MS, P&T, CAPCOLUMN | 4/2/2017                         | 23:02                            |                         |                         | CA01531       |         |  |  |
| 2941-CHLOROFORM                        | No                         | 9.4                 | ug/L                    |                                       | 1                            | ug/L                             |                | 524.2-VOC, GC/MS, P&T, CAPCOLUMN | 4/2/2017                         | 23:02                            |                         |                         | CA01531       |         |  |  |
| 2950-TTHM                              | No                         | 11                  | ug/L                    |                                       | 1                            | ug/L                             |                | 524.2-VOC, GC/MS, P&T, CAPCOLUMN | 4/3/2017                         | 11:15                            |                         |                         | CA01531       |         |  |  |

### 2 Example of a Sample Result (Non-Detect):

|                           |     |  |  |  |   |      |  |                                  |          |       |  |  |         |  |
|---------------------------|-----|--|--|--|---|------|--|----------------------------------|----------|-------|--|--|---------|--|
| 2942-BROMOFORM            | Yes |  |  |  | 1 | ug/L |  | 524.2-VOC, GC/MS, P&T, CAPCOLUMN | 4/2/2017 | 23:02 |  |  | CA01531 |  |
| 2944-DIBROMOCHLOROMETHANE | Yes |  |  |  | 1 | ug/L |  | 524.2-VOC, GC/MS, P&T, CAPCOLUMN | 4/2/2017 | 23:02 |  |  | CA01531 |  |

# DATA SUBMISSION GUIDE FOR DISINFECTION BY-PRODUCT SAMPLES THROUGH EXCEL TEMPLATE

## Section 4: Example of Completed Sample Submission

### Example 2: Haloacetic Acids (HAA5)

| Sample Information |                                   |        |              |                    |                   |                               |                                    |                           |               |                 |                     |                           |                          |             | Results               |  |                            |                     |                         |                                       |                              |                                  |                |                                       | Field Results and Measurements (Optional) |                                  |                         |                         |               |         |                            |         |      |        |         |  |  |  |  |  |  |
|--------------------|-----------------------------------|--------|--------------|--------------------|-------------------|-------------------------------|------------------------------------|---------------------------|---------------|-----------------|---------------------|---------------------------|--------------------------|-------------|-----------------------|--|----------------------------|---------------------|-------------------------|---------------------------------------|------------------------------|----------------------------------|----------------|---------------------------------------|---|----------------------------------|-------------------------|-------------------------|---------------|---------|----------------------------|---------|------|--------|---------|--|--|--|--|--|--|
| Sample ID*         | Sample Received Date <sup>f</sup> | WS ID* | Facility ID* | Sampling Point ID* | Sampling Location | Collection Date* <sup>f</sup> | Collection Time (24H) <sup>f</sup> | Sample Type* <sup>f</sup> | Sample Volume | Repeat Location | Original Sample ID* | Original Reporting Lab.ID | Original Collection Date | Comment     | Sample Collector Name | Analyte* <sup>f</sup><br>[Code - Name] | Not Detected* <sup>f</sup> | Result <sup>f</sup> | Result UOM <sup>f</sup> | Standard Deviation (+/-) <sup>f</sup> | Reporting Limit <sup>f</sup> | Reporting Limit UOM <sup>f</sup> | Volume Assayed | Method <sup>f</sup>                   | Analysis Start Date <sup>f</sup>          | Analysis Start Time <sup>f</sup> | Analysis Completed Date | Analysis Completed Time | Analyzing Lab | Comment | Parameter*<br>Code - Name] | Result* | UOM* | Method | Comment |  |  |  |  |  |  |
| DH440-180976-1     | 3/29/2017                         |        | DS001        | SPDS1DBP2-1        | SKYLINE FH        | 3/28/2017                     | 09:00                              | Routine                   |               |                 |                     |                           |                          | HAA5 SAMPLE | JOE SMITH             | 2451-DICHLOROACETIC ACID               | No                         | 12                  | ug/L                    |                                       | 1                            | ug/L                             |                | 552.2-DBPS & CL2 SOLVENTS GC L/L ELEC | 4/10/2017                                 | 18:28                            |                         |                         | IN00035       |         |                            |         |      |        |         |  |  |  |  |  |  |
|                    |                                   |        |              |                    |                   |                               |                                    |                           |               |                 |                     |                           |                          |             |                       | 2452-TRICHLOROACETIC ACID              | No                         | 24                  | ug/L                    |                                       | 1                            | ug/L                             |                | 552.2-DBPS & CL2 SOLVENTS GC L/L ELEC | 4/10/2017                                 | 19:03                            |                         |                         | IN00035       |         |                            |         |      |        |         |  |  |  |  |  |  |
|                    |                                   |        |              |                    |                   |                               |                                    |                           |               |                 |                     |                           |                          |             |                       | 2456-TOTAL HALOACETIC ACIDS (HAA5)     | No                         | 36                  | ug/L                    |                                       | 1                            | ug/L                             |                | 552.2-DBPS & CL2 SOLVENTS GC L/L ELEC | 4/11/2017                                 | 8:42                             |                         |                         | IN00035       |         |                            |         |      |        |         |  |  |  |  |  |  |
|                    |                                   |        |              |                    |                   |                               |                                    |                           |               |                 |                     |                           |                          |             |                       | 2450-MONOCHLOROACETIC ACID             | Yes                        |                     |                         |                                       | 2                            | ug/L                             |                | 552.2-DBPS & CL2 SOLVENTS GC L/L ELEC | 4/10/2017                                 | 18:28                            |                         |                         | IN00035       |         |                            |         |      |        |         |  |  |  |  |  |  |
|                    |                                   |        |              |                    |                   |                               |                                    |                           |               |                 |                     |                           |                          |             |                       | 2453-MONOBROMOACETIC ACID              | Yes                        |                     |                         |                                       | 1                            | ug/L                             |                | 552.2-DBPS & CL2 SOLVENTS GC L/L ELEC | 4/10/2017                                 | 18:28                            |                         |                         | IN00035       |         |                            |         |      |        |         |  |  |  |  |  |  |
|                    |                                   |        |              |                    |                   |                               |                                    |                           |               |                 |                     |                           |                          |             |                       | 2454-DIBROMOACETIC ACID                | Yes                        |                     |                         |                                       | 1                            | ug/L                             |                | 552.2-DBPS & CL2 SOLVENTS GC L/L ELEC | 4/10/2017                                 | 18:28                            |                         |                         | IN00035       |         |                            |         |      |        |         |  |  |  |  |  |  |

DO NOT USE FOR CHEM/RAD

## Sample Information

| Sample Information |                                   |        |              |                    |                   |                               |                                    |                           |               |                 |                     |                           |                          |                   |                       |
|--------------------|-----------------------------------|--------|--------------|--------------------|-------------------|-------------------------------|------------------------------------|---------------------------|---------------|-----------------|---------------------|---------------------------|--------------------------|-------------------|-----------------------|
| Sample ID*         | Sample Received Date <sup>f</sup> | WS ID* | Facility ID* | Sampling Point ID* | Sampling Location | Collection Date* <sup>f</sup> | Collection Time (24H) <sup>f</sup> | Sample Type* <sup>f</sup> | Sample Volume | Repeat Location | Original Sample ID* | Original Reporting Lab.ID | Original Collection Date | Comment           | Sample Collector Name |
| DH440-180976-1     | 3/29/2017                         |        | DS001        | SPDS1DBP2-1        | SKYLINE FH        | 3/28/2017                     | 09:00                              | Routine                   |               |                 |                     |                           |                          | HAA5 TEST SAMPLE. | JOE SMITH             |

### 2 Example of a Sample Result (Detect):

| Results                                |                            |                     |                         |                                       |                              |                                  |                |                                       |                                  |                                  |                         |                         |               |         |  |  |
|--|----------------------------|---------------------|-------------------------|---------------------------------------|------------------------------|----------------------------------|----------------|---------------------------------------|----------------------------------|----------------------------------|-------------------------|-------------------------|---------------|---------|--|--|
| Analyte* <sup>f</sup><br>[Code - Name] | Not Detected* <sup>f</sup> | Result <sup>f</sup> | Result UOM <sup>f</sup> | Standard Deviation (+/-) <sup>f</sup> | Reporting Limit <sup>f</sup> | Reporting Limit UOM <sup>f</sup> | Volume Assayed | Method <sup>f</sup>                   | Analysis Start Date <sup>f</sup> | Analysis Start Time <sup>f</sup> | Analysis Completed Date | Analysis Completed Time | Analyzing Lab | Comment |  |  |
| 2451-DICHLOROACETIC ACID               | No                         | 12                  | ug/L                    |                                       | 1                            | ug/L                             |                | 552.2-DBPS & CL2 SOLVENTS GC L/L ELEC | 4/10/2017                        | 18:28                            |                         |                         | IN00035       |         |  |  |
| 2452-TRICHLOROACETIC ACID              | No                         | 24                  | ug/L                    |                                       | 1                            | ug/L                             |                | 552.2-DBPS & CL2 SOLVENTS GC L/L ELEC | 4/10/2017                        | 19:03                            |                         |                         | IN00035       |         |  |  |
| 2456-TOTAL HALOACETIC ACIDS (HAA5)     | No                         | 36                  | ug/L                    |                                       | 1                            | ug/L                             |                | 552.2-DBPS & CL2 SOLVENTS GC L/L ELEC | 4/11/2017                        | 19:03                            |                         |                         | IN00035       |         |  |  |

### 2 Example of a Sample Result (Non-Detect):

|                            |     |  |  |  |   |      |  |                                       |           |       |  |  |         |  |
|----------------------------|-----|--|--|--|---|------|--|---------------------------------------|-----------|-------|--|--|---------|--|
| 2450-MONOCHLOROACETIC ACID | Yes |  |  |  | 2 | ug/L |  | 552.2-DBPS & CL2 SOLVENTS GC L/L ELEC | 4/10/2017 | 18:28 |  |  | IN00035 |  |
| 2453-MONOBROMOACETIC ACID  | Yes |  |  |  | 1 | ug/L |  | 552.2-DBPS & CL2 SOLVENTS GC L/L ELEC | 4/10/2017 | 18:28 |  |  | IN00035 |  |
| 2454-DIBROMOACETIC ACID    | Yes |  |  |  | 1 | ug/L |  | 552.2-DBPS & CL2 SOLVENTS GC L/L ELEC | 4/10/2017 | 18:28 |  |  | IN00035 |  |