**Water Assessment Example**

126 CFU/100mL Generic E. coli (fecal coliforms) is the recreational water standard deemed safe for contact with edible portion of crop.

Die-off is generally 0.5 log reduction per day (68% die-off, 32% remaining)

Geometric Mean (Average), CFU = MPN

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| Water Source and Test Results | Crops | Application Method | Last Application Before Harvest/Notes |
| Lindsay Stream  6/8/24 326 E.coli  6/29/24 >2420 E.coli  7/13/24 <1 E.coli | Cucumbers, summer squash | Drip | 1 day  \*6/29 sample was pulled after a heavy rain event. No irrigation after rain event. No harvest after rain event until 7/16. |
| Lindsay Natural Pond  7/18/24, 299 E.coli  9/6/24, 940 E.coli  9/12/24, 130 E.coli  Average (GM) 456 | Broccoli | Drip (not ag H20 under PSR) | 3 day  Die-off for 9/6 high result of 940:  9/7 32% of 940 is 301  9/8 32% of 301 is 96  2 days die-off is adequate for 9/6 result  Die-off for 9/12 high result of 130:  9/13 32% of 130 is 42.  1 day die-off is adequate for 9/12 result.  Broccoli not harvested until 9/25. |
| Lindsay Farm Pond  7/18/24, 53 E.coli  9/6/24, 116 E.coli  ~~9/12/24, 1733 E.coli~~  9/17/24, 200 E.coli  Average (GM) 123 | Potatoes, winter squash (not subject to PSR) | Overhead | \*Retested 9/17/24 based on 9/12/24 results. Assumed high result from 9/12 sample was due to sampling error based on 9/17 resample results. |
| Lindsay River  6/19/24, 12.2 E.coli  7/26/24, 41.4 E.coli  8/21/24, 14.5 E.coli | Tomatoes  All | Overhead irrigation  Pesticide application | 0 day, GM is 28 |
| Lindsay Dug Well  8/15/24, 4 MPN E.coli | Lettuce, Kale  All | Overhead irrigation  Pesticide application | 0 day |
| Lindsay Drilled Well | All | Dunking garlic during harvest, drinking water, ice manufacture, handwashing, equipment cleaning | N/A  8/15/24, 0 coliform, 0 E.coli, <1 nitrates, <1 nitrites |

**Water Assessment Exercise**

126 CFU/100mL Generic E. coli (fecal coliforms) is the recreational water standard deemed safe for contact with edible portion of crop.

Die-off is generally 0.5 log reduction per day (68% die-off, 32% remaining)

126 / .32 = 394 (1 day); 394 / .32 = 1,231 (2 day); 1,231 / .32 = 3,847 (3 day); 3,847 / .32 = 12,022 (4 day)

Geometric Mean (Average), CFU = MPN

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| Water source | Crops | Application Method - overhead, drip, flood, chemical application, handwashing, drinking, washing produce, cleaning food contact surfaces, ice | Last Application Before Harvest/Notes |
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