

OIR: 2324/961

13 June 2024

Tēnā koe

## Request for Information under the Local Government Official Information and Meetings Act 1987 (the Act) (the LGOIMA)

Thank you for your email of **7 June 2024** requesting the following information:

# Please supply all the fluoride measures of all water supplies under your jurisdiction for the year 2023. Please provide the data in a spreadsheet

We do not hold the information requested in a spreadsheet form, but please find attached the information requested for each month of 2023.

Ngā mihi,

**Sean Mallon** Group Manager Infrastructure and Asset Management Kaiwhakahaere Rōpū Anga me te Whakahaere Rawa

Please note that any information provided in response to your request may be published on the Council website, with your personal details removed.



| KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT     REPORT NO:   JAN230030     Client:   KCDC Bulk Water Supply Priority 2 Determinand       |           |                              |                   |                       | January 202        |  |        | uary 2023      |
|--|-----------|------------------------------|-------------------|-----------------------|--------------------|--|--------|----------------|
| /ater Sample Analys<br>ESULTS:   | 515:      | Monthly Fluoride             |                   |                       |                    |  |        |                |
| Date   | Sample ID | Site                         | Sampler Name      | Time of<br>Collection | Log No.            | Pilot Sample<br>Temp Taken by<br>Lab Staff | Result | 95% Confidence |
|  |           |                              |                   |                       |                    | °C   | mg/L   | mg/L           |
| 4/01/2023  | F-13ch    | 35: Plant Lab Tap - Fluoride | Phillip MacDonald | 7:59:00 AM            | 230030             | 3  | 0.86   | +/- 0.02       |
| 11/01/2023   | F-1ci     | 35: Plant Lab Tap - Fluoride | Tama Te-Whata     | 7:41:00 AM            | 230143             | 4.2  | 0.89   | +/- 0.02       |
| 18/01/2023   | F-2ci     | 35: Plant Lab Tap - Fluoride | Wayne Elley       | 7:48:00 AM            | 230265             | 5  | 0.85   | +/- 0.02       |
| 25/01/2023   | F-3ci     | 35: Plant Lab Tap - Fluoride | Simon Fraser      | 6:19:00 AM            | 230364             | 5.5  | 0.86   | +/- 0.02       |
|  |           |                              |                   |                       |                    |  |        |                |
|  |           |                              |                   |                       |                    |  |        |                |
|  |           |                              |                   |                       |                    |  |        |                |
|  |           |                              |                   |                       |                    |  |        |                |
| ata collected by Bulk Water Specialist (trained to NZQA unit standard 17890: Undertake sampling and testing procedures for water treatment). |           |                              |                   |                       | Analysed by the KC | DC Laboratory                              |        |                |

| Notes  |   |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|
| The Laboratory had no control over the conditions of collection of the samples.                              |   |  |  |  |  |  |  |  |
| The method of analysis - Ion Selective Electrode as described in APHA - Standard methods for the examination | n of water and wastewater,                    |  |  |  |  |  |  |  |
| American Public Health Association, 23rd Edition 2017. Section 4500-F C.                                     |   |  |  |  |  |  |  |  |
| The Water Services (Drinking Water Standards for New Zealand) Regulations 2022, MAV (maximum allowable       | e value) 1.5 mg/L                             |  |  |  |  |  |  |  |
| The fluoride content recommended for drinking water by the Public Health Commission for oral health reasons  | is 0.7 - 1.0 mg/L                             |  |  |  |  |  |  |  |
| Any queries relating to this report should be addressed to the Laboratory Manager.                           |   |  |  |  |  |  |  |  |
| RECEIVED BY : DATE:  | REPORTED BY: DATE:                            |  |  |  |  |  |  |  |
| 29/01/2023   | K Marcur 27/01/2023                           |  |  |  |  |  |  |  |
| Bruce Nesbitt, Water Treatment Plants Manager  | Kim Mazur, Laboratory Manager                 |  |  |  |  |  |  |  |
| KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae   | KCDC LABORATORY, Fytefield Place, Paraparaumu |  |  |  |  |  |  |  |
| Action Needed:   |   |  |  |  |  |  |  |  |
|  |   |  |  |  |  |  |  |  |
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Units:

**Operations Min: Operations Max: Trigger Min: Trigger Max:** 92% Min: 92% Max: 95% Min: 95% Max: 98% Min: 98% Max: 99% Min: 99% Max: Medium Min: Medium Max: Sample Month: **Days Between Samples: Description:** 

Sample ID

| KAPITI-4098 | 1. Scheduled |
|-------------|--------------|
| KAPITI-4071 | 1. Scheduled |
| KAPITI-4030 | 1. Scheduled |
| KAPITI-4006 | 1. Scheduled |
| KAPITI-3982 | 1. Scheduled |
| KAPITI-3947 | 1. Scheduled |
| KAPITI-3928 | 1. Scheduled |
| KAPITI-3878 | 1. Scheduled |
| KAPITI-3843 | 1. Scheduled |
| KAPITI-3808 | 1. Scheduled |
| KAPITI-3785 | 1. Scheduled |
| KAPITI-3762 | 1. Scheduled |
| KAPITI-3736 | 1. Scheduled |
| KAPITI-3712 | 1. Scheduled |
| KAPITI-3688 | 1. Scheduled |
| KAPITI-3639 | 1. Scheduled |
| KAPITI-3607 | 1. Scheduled |
| KAPITI-3583 | 1. Scheduled |
| KAPITI-3559 | 1. Scheduled |
| KAPITI-3536 | 1. Scheduled |
| KAPITI-3495 | 1. Scheduled |
| KAPITI-3472 | 1. Scheduled |
| KAPITI-3447 | 1. Scheduled |
| KAPITI-3429 | 1. Scheduled |
|             |              |





KAPITI-3350 KAPITI-3317 KAPITI-3293 KAPITI-3259 KAPITI-3236 KAPITI-3213 **KAPITI-3189** KAPITI-3147 **KAPITI-3107 KAPITI-3085** KAPITI-3060 KAPITI-3025 KAPITI-2955 KAPITI-2939 **KAPITI-2909** KAPITI-2891 KAPITI-2835 **KAPITI-2809** KAPITI-2785 KAPITI-2755 KAPITI-2722 KAPITI-2690 KAPITI-2665 KAPITI-2640 KAPITI-2586 KAPITI-2523 KAPITI-2488 KAPITI-2435 KAPITI-2407 KAPITI-2383 KAPITI-2356



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| KAPITI COAST DI   | STRICT COL | INCIL LABORATORY REP         |                   |                       |                   | Febru                                      | uary 2023 |                |
|---|------------|------------------------------|-------------------|-----------------------|-------------------|--|-----------|----------------|
| REPORT NO:   FEB230466     Client:   KCDC Bulk Water Supply Priority 2 Determinand     Water Sample Analysis:   Monthly Fluoride              |            |                              |                   |                       |                   |  |           |                |
| RESULTS:  |            |                              |                   |                       |                   |  |           |                |
| Date  | Sample ID  | Site                         | Sampler Name      | Time of<br>Collection | Log No.           | Pilot Sample<br>Temp Taken by<br>Lab Staff | Result    | 95% Confidence |
|   |            |                              |                   |                       |                   | °C   | mg/L      | mg/L           |
| 1/02/2023   | F-4ci      | 35: Plant Lab Tap - Fluoride | Phillip MacDonald | 7:56:00 AM            | 230466            | 1.3  | 0.84      | +/- 0.02       |
| 8/02/2023   | F-5ci      | 35: Plant Lab Tap - Fluoride | Tama Te-Whata     | 7:41:00 AM            | 230553            | 4.6  | 0.83      | +/- 0.02       |
| 15/02/2023  | F-6ci      | 35: Plant Lab Tap - Fluoride | Mitchell Sarney   | 8:07:00 AM            | 230664            | 7.3  | 0.84      | +/- 0.02       |
| 22/02/2023  | F-7ci      | 35: Plant Lab Tap - Fluoride | Wayne Elley       | 7:55:00 AM            | 230774            | 3.4  | 0.84      | +/- 0.02       |
|   |            |                              |                   |                       |                   |  |           |                |
|   |            |                              |                   |                       |                   |  |           |                |
|   |            |                              |                   |                       |                   |  |           |                |
|   |            |                              |                   |                       |                   |  |           |                |
| Data collected by Bulk Water Specialist (trained to NZQA unit standard 17890: Undertake sampling and testing procedures for water treatment). |            |                              |                   |                       | Analysed by the K | CDC Laboratory                             |           |                |

| Notes  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
| The Laboratory had no control over the conditions of collection of the samples.                            | he Laboratory had no control over the conditions of collection of the samples. |  |  |  |  |  |  |  |
| The method of analysis - Ion Selective Electrode as described in APHA - Standard methods for the examinati | ion of water and wastewater,   |  |  |  |  |  |  |  |
| American Public Health Association, 23rd Edition 2017. Section 4500-F C.                                   |  |  |  |  |  |  |  |  |
| The Water Services (Drinking Water Standards for New Zealand) Regulations 2022, MAV (maximum allowat       | ble value) 1.5 mg/L  |  |  |  |  |  |  |  |
| The fluoride content recommended for drinking water by the Public Health Commission for oral health reason | ns is 0.7 - 1.0 mg/L   |  |  |  |  |  |  |  |
| Any queries relating to this report should be addressed to the Laboratory Manager.                         |  |  |  |  |  |  |  |  |
| RECEIVED BY : DATE:6/3/2023  | REPORTED BY: K Marcur DATE: 6/03/202   |  |  |  |  |  |  |  |
| 63   |  |  |  |  |  |  |  |  |
| Bruce Nesbitt, Water Treatment Plants Manager  | Kim Mazur, Laboratory Manager  |  |  |  |  |  |  |  |
| KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae   | KCDC LABORATORY, Fytefield Place, Paraparaumu                                  |  |  |  |  |  |  |  |
| Action Needed:   |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
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Units:

**Operations Min: Operations Max: Trigger Min: Trigger Max:** 92% Min: 92% Max: 95% Min: 95% Max: 98% Min: 98% Max: 99% Min: 99% Max: **Medium Min:** Medium Max: Sample Month: **Days Between Samples: Description:** 

Sample ID

| KAPITI-4196 | 1. Scheduled |
|-------------|--------------|
| KAPITI-4175 | 1. Scheduled |
| KAPITI-4142 | 1. Scheduled |
| KAPITI-4122 | 1. Scheduled |
| KAPITI-4098 | 1. Scheduled |
| KAPITI-4071 | 1. Scheduled |
| KAPITI-4030 | 1. Scheduled |
| KAPITI-4006 | 1. Scheduled |
| KAPITI-3982 | 1. Scheduled |
| KAPITI-3947 | 1. Scheduled |
| KAPITI-3928 | 1. Scheduled |
| KAPITI-3878 | 1. Scheduled |
| KAPITI-3843 | 1. Scheduled |
| KAPITI-3808 | 1. Scheduled |
| KAPITI-3785 | 1. Scheduled |
| KAPITI-3762 | 1. Scheduled |
| KAPITI-3736 | 1. Scheduled |
| KAPITI-3712 | 1. Scheduled |
| KAPITI-3688 | 1. Scheduled |
| KAPITI-3639 | 1. Scheduled |
| KAPITI-3607 | 1. Scheduled |
| KAPITI-3583 | 1. Scheduled |
| KAPITI-3559 | 1. Scheduled |
| KAPITI-3536 | 1. Scheduled |
|             |              |





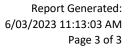
| The null whatan            |
|----------------------------|
| KAPITI-3472                |
| KAPITI-3447                |
| KAPITI-3429                |
| KAPITI-3375                |
| KAPITI-3350                |
| KAPITI-3317                |
| KAPITI-3293                |
| KAPITI-3259                |
| KAPITI-3236                |
| KAPITI-3213                |
| KAPITI-3189                |
| KAPITI-3147                |
| KAPITI-3107                |
| KAPITI-3085                |
| KAPITI-3060                |
| KAPITI-3025                |
| KAPITI-2955                |
| KAPITI-2939                |
| KAPITI-2909                |
| KAPITI-2891                |
| KAPITI-2835                |
| KAPITI-2809                |
| KAPITI-2785                |
| KAPITI-2755                |
| KAPITI-2722                |
| KAPITI-2690                |
| KAPITI-2665                |
| KAPITI-2640                |
| KAPITI-2586                |
| KAPITI-2523<br>KAPITI-2488 |
| NAFI11-2400                |

1. Scheduled 1. Scheduled

### 1. Scheduled

- 1. Scheduled
- 1. Scheduled

wateroutlook





| REPORT NO: MAR230903<br>Client: KCDC Bulk Water Supply Priority 2 Determinand<br>Vater Sample Analysis: Monthly Fluoride |                              |   |                        |                       |         |  |               |               |
|--|------------------------------|---|------------------------|-----------------------|---------|--|---------------|---------------|
| ESULTS:<br>Date  | Sample ID                    | Site  | Sampler Name           | Time of<br>Collection | Log No. | Pilot Sample<br>Temp Taken by<br>Lab Staff | Result        | 95% Confidenc |
|  |                              |   |                        |                       |         | °C   | mg/L          | mg/L          |
| 1/03/2023  | F-8ci                        | 35: Plant Lab Tap - Fluoride                                | Phillip MacDonald      | 6:15:00 AM            | 230903  | 3.8  | 0.82          | +/- 0.02      |
| 8/03/2023  | F-9ci                        | 35: Plant Lab Tap - Fluoride                                | Tama Te-Whata          | 7:42:00 AM            | 231010  | 4.6  | 0.83          | +/- 0.02      |
| 15/03/2023   | F-10ci                       | 35: Plant Lab Tap - Fluoride                                | Mitchell Sarney        | 7:35:00 AM            | 231125  | 5.2  | 0.81          | +/- 0.02      |
| 22/03/2023   | F-11ci                       | 35: Plant Lab Tap - Fluoride                                | Wayne Elley            | 7:50:00 AM            | 231246  | 0.4  | 0.79          | +/- 0.02      |
| 29/03/2023   | F-12ci                       | 35: Plant Lab Tap - Fluoride                                | Phillip MacDonald      | 7:40:00 AM            | 231353  | 3.6  | 0.81          | +/- 0.02      |
|  |                              |   |                        |                       |         |  |               | 1             |
| a at the area to   |                              |   |                        |                       |         |  |               | 1             |
|  |                              |   |                        |                       |         | n far Selfera                              |               |               |
| ata collected by Bulk W  | <i>l</i> ater Specialist (tr | ained to NZQA unit standard 17890:<br>for water treatment). | Undertake sampling and | testing procedures    |         | Analysed by the KC                         | DC Laboratory |               |

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| Notes   |  |          |  |  |
|---|--|----------|--|--|
| The Laboratory had no control over the conditions of collection of the samples.     |  | U        |  |  |
| The method of analysis - Ion Selective Electrode as described in APHA - Standard me | thods for the examination of water and wastewater, |          |  |  |
| American Public Health Association, 23rd Edition 2017. Section 4500-F C.            |  |          |  |  |
| The Water Services (Drinking Water Standards for New Zealand) Regulations 2022, M   | VIAV (maximum allowable value) 1.5 mg/L            |          |  |  |
| The fluoride content recommended for drinking water by the Public Health Commission | n for oral health reasons is 0.7 - 1.0 mg/L        |          |  |  |
| Any queries relating to this report should be addressed to the Laboratory Manager.  |  |          |  |  |
| RECEIVED BY : DATE:17/4/2023  | REPORTED BY: K Marrier DATE: 13/04                 | /2023    |  |  |
| Bruce Nesbitt, Water Treatment Plants Manager                                       | Kim Mazur, Laboratory Manager                      |          |  |  |
| KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae                            | KCDC LABORATORY, Fytefield Place, Paraparaumu      |          |  |  |
| Action Needed:  |  |          |  |  |
| This report may   | y not be reproduced except in full.                |          |  |  |
| owered by:  | Rep  | ort Gene |  |  |
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| APITI COAST DI   | STRICT COU | INCIL LABORATORY REP         |                   |                       |                    | Ар   | ril 2023 |                |
|--|------------|------------------------------|-------------------|-----------------------|--------------------|--|----------|----------------|
| REPORT NO:APR231451Client:KCDC Bulk Water Supply Priority 2 DeterminandWater Sample Analysis:Monthly Fluoride                                |            |                              |                   |                       |                    |  |          |                |
| RESULTS:   |            |                              |                   |                       |                    |  |          |                |
| Date   | Sample ID  | Site                         | Sampler Name      | Time of<br>Collection | Log No.            | Pilot Sample<br>Temp Taken by<br>Lab Staff | Result   | 95% Confidence |
|  |            |                              |                   |                       |                    | °C   | mg/L     | mg/L           |
| 5/04/2023  | F-13ci     | 35: Plant Lab Tap - Fluoride | Tama Te-Whata     | 7:45:00 AM            | 231451             | 5.4  | 0.79     | +/- 0.02       |
| 12/04/2023   | F-1cj      | 35: Plant Lab Tap - Fluoride | Mitchell Sarney   | 7:53:00 AM            | 231561             | 6.7  | 0.79     | +/- 0.02       |
| 19/04/2023   | F-2cj      | 35: Plant Lab Tap - Fluoride | Wayne Elley       | 7:50:00 AM            | 231681             | 0.7  | 0.77     | +/- 0.02       |
| 26/04/2023   | F-3cj      | 35: Plant Lab Tap - Fluoride | Phillip MacDonald | 8:02:00 AM            | 231757             | 4.3  | 0.79     | +/- 0.02       |
|  |            |                              |                   |                       |                    |  |          |                |
|  |            |                              |                   |                       |                    |  |          |                |
|  |            |                              |                   |                       |                    |  |          |                |
|  |            |                              |                   |                       |                    |  |          |                |
| ata collected by Bulk Water Specialist (trained to NZQA unit standard 17890: Undertake sampling and testing procedures for water treatment). |            |                              |                   |                       | Analysed by the K0 | CDC Laboratory                             |          |                |

| Notes   |                               |  |  |  |  |  |  |  |
|---|-------------------------------|--|--|--|--|--|--|--|
| The Laboratory had no control over the conditions of collection of the samples.   |                               |  |  |  |  |  |  |  |
| The method of analysis - Ion Selective Electrode as described in APHA - Standard methods for the examination of water and wastewater, |                               |  |  |  |  |  |  |  |
| American Public Health Association, 23rd Edition 2017. Section 4500-F C.  |                               |  |  |  |  |  |  |  |
| The Water Services (Drinking Water Standards for New Zealand) Regulations 2022, MAV (maximum allowabl                                 | e value) 1.5 mg/L             |  |  |  |  |  |  |  |
| The fluoride content recommended for drinking water by the Public Health Commission for oral health reasons                           | is 0.7 - 1.0 mg/L             |  |  |  |  |  |  |  |
| Any queries relating to this report should be addressed to the Laboratory Manager.  |                               |  |  |  |  |  |  |  |
| RECEIVED BY : DATE:   | REPORTED BY: DATE:            |  |  |  |  |  |  |  |
|   |                               |  |  |  |  |  |  |  |
| 11/05/2023  | 10/05/2023                    |  |  |  |  |  |  |  |
| 11/05/2023<br>Bruce Nesbitt, Water Treatment Plants Manager   | Kim Mazur, Laboratory Manager |  |  |  |  |  |  |  |
|   | 10/05/2025                    |  |  |  |  |  |  |  |
| Bruce Nesbitt, Water Treatment Plants Manager   | Kim Mazur, Laboratory Manager |  |  |  |  |  |  |  |
| Bruce Nesbitt, Water Treatment Plants Manager<br>KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae                             | Kim Mazur, Laboratory Manager |  |  |  |  |  |  |  |





Units:

**Operations Min: Operations Max: Trigger Min: Trigger Max:** 92% Min: 92% Max: 95% Min: 95% Max: 98% Min: 98% Max: 99% Min: 99% Max: Medium Min: Medium Max: Sample Month: **Days Between Samples: Description:** 

Sample ID

| KAPITI-4478 | 1. Scheduled |
|-------------|--------------|
| KAPITI-4459 | 1. Scheduled |
| KAPITI-4419 | 1. Scheduled |
| KAPITI-4374 | 1. Scheduled |
| KAPITI-4356 | 1. Scheduled |
| KAPITI-4326 | 1. Scheduled |
| KAPITI-4309 | 1. Scheduled |
| KAPITI-4261 | 1. Scheduled |
| KAPITI-4243 | 1. Scheduled |
| KAPITI-4196 | 1. Scheduled |
| KAPITI-4175 | 1. Scheduled |
| KAPITI-4142 | 1. Scheduled |
| KAPITI-4122 | 1. Scheduled |
| KAPITI-4098 | 1. Scheduled |
| KAPITI-4071 | 1. Scheduled |
| KAPITI-4030 | 1. Scheduled |
| KAPITI-4006 | 1. Scheduled |
| KAPITI-3982 | 1. Scheduled |
| KAPITI-3947 | 1. Scheduled |
| KAPITI-3928 | 1. Scheduled |
| KAPITI-3878 | 1. Scheduled |
| KAPITI-3843 | 1. Scheduled |
| KAPITI-3808 | 1. Scheduled |
| KAPITI-3785 | 1. Scheduled |
|             |              |





KAPITI-3736 **KAPITI-3712** KAPITI-3688 KAPITI-3639 KAPITI-3607 KAPITI-3583 KAPITI-3559 KAPITI-3536 KAPITI-3495 KAPITI-3472 KAPITI-3447 KAPITI-3429 KAPITI-3375 KAPITI-3350 KAPITI-3317 KAPITI-3293 KAPITI-3259 KAPITI-3236 **KAPITI-3213 KAPITI-3189** KAPITI-3147 KAPITI-3107 KAPITI-3085 KAPITI-3060 KAPITI-3025 KAPITI-2955 KAPITI-2939 **KAPITI-2909** KAPITI-2891 KAPITI-2835 **KAPITI-2809** 

Scheduled



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#### KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT May 2023 **REPORT NO:** MAY231877 Client: **KCDC Bulk Water Supply Priority 2 Determinand** Monthly Fluoride Water Sample Analysis: **RESULTS: Pilot Sample** Time of Temp Taken by Date Sample ID Site Sampler Name Collection Log No. Lab Staff Result 95% Confidence °C mg/L mg/L 3/05/2023 F-4cj 35: Plant Lab Tap - Fluoride Mitchell Sarney 7:53:00 AM 231877 7.1 0.81 +/- 0.02 10/05/2023 35: Plant Lab Tap - Fluoride Phillip MacDonald 0.78 F-5cj 8:42:00 AM 231977 1.2 +/- 0.02 17/05/2023 35: Plant Lab Tap - Fluoride Simon Fraser 7:15:00 AM 232081 7.4 0.80 +/- 0.02 F-6cj 24/05/2023 F-7cj 35: Plant Lab Tap - Fluoride 8:05:00 AM 232176 5.6 0.78 +/- 0.02 Mitchell Sarney 31/05/2023 35: Plant Lab Tap - Fluoride Phillip MacDonald 7:43:00 AM 232280 3.8 0.79 +/- 0.02 F-8cj Data collected by Bulk Water Specialist (trained to NZQA unit standard 17890: Undertake sampling and testing procedures Analysed by the KCDC Laboratory for water treatment).

| Notes  |                                   |              |                    |  |
|--|-----------------------------------|--------------|--------------------|--|
| The Laboratory had no control over the conditions of collection of the samples.  |                                   |              |                    |  |
| The method of analysis - Ion Selective Electrode as described in APHA - Standard methods for the examinatio                                | on of water and was               | stewater,    |                    |  |
| American Public Health Association, 23rd Edition 2017. Section 4500-F C.   |                                   |              |                    |  |
| The Water Services (Drinking Water Standards for New Zealand) Regulations 2022, MAV (maximum allowabl                                      | le value) 1.5 mg/L                |              |                    |  |
| The fluoride content recommended for drinking water by the Public Health Commission for oral health reasons                                | is 0.7 - 1.0 mg/L                 |              |                    |  |
| Any queries relating to this report should be addressed to the Laboratory Manager.   |                                   |              |                    |  |
|  |                                   |              |                    |  |
|  |                                   |              |                    |  |
| RECEIVED BY : DATE:06/06/2023  | REPORTED BY:                      | K Marrier    | DATE:<br>5/06/2023 |  |
|  | REPORTED BY:                      | K Marcur     |                    |  |
|  | REPORTED BY:<br>Kim Mazur, Labora |              |                    |  |
| RECEIVED BY : DATE:06/06/2023  | Kim Mazur, Labora                 |              | 5/06/2023          |  |
| RECEIVED BY : DATE:06/06/2023<br>Bruce Nesbitt, Water Treatment Plants Manager   | Kim Mazur, Labora                 | tory Manager | 5/06/2023          |  |
| RECEIVED BY : DATE:06/06/2023<br>Bruce Nesbitt, Water Treatment Plants Manager<br>KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae | Kim Mazur, Labora                 | tory Manager | 5/06/2023          |  |





Units:

**Operations Min: Operations Max: Trigger Min: Trigger Max:** 92% Min: 92% Max: 95% Min: 95% Max: 98% Min: 98% Max: 99% Min: 99% Max: Medium Min: Medium Max: Sample Month: **Days Between Samples: Description:** 

Sample ID

| ••••••••    |              |
|-------------|--------------|
| KAPITI-4618 | 1. Scheduled |
| KAPITI-4589 | 1. Scheduled |
| KAPITI-4624 | 1. Scheduled |
| KAPITI-4530 | 1. Scheduled |
| KAPITI-4502 | 1. Scheduled |
| KAPITI-4478 | 1. Scheduled |
| KAPITI-4459 | 1. Scheduled |
| KAPITI-4419 | 1. Scheduled |
| KAPITI-4374 | 1. Scheduled |
| KAPITI-4356 | 1. Scheduled |
| KAPITI-4326 | 1. Scheduled |
| KAPITI-4309 | 1. Scheduled |
| KAPITI-4261 | 1. Scheduled |
| KAPITI-4243 | 1. Scheduled |
| KAPITI-4196 | 1. Scheduled |
| KAPITI-4175 | 1. Scheduled |
| KAPITI-4142 | 1. Scheduled |
| KAPITI-4122 | 1. Scheduled |
| KAPITI-4098 | 1. Scheduled |
| KAPITI-4071 | 1. Scheduled |
| KAPITI-4030 | 1. Scheduled |
| KAPITI-4006 | 1. Scheduled |
| KAPITI-3982 | 1. Scheduled |
| KAPITI-3947 | 1. Scheduled |
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Report Generated: 5/06/2023 12:03:32 pm Page 3 of 3



| KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT |                      |  | June 2023              |                       |                                 |  |                |                |
|---|----------------------|--|------------------------|-----------------------|---------------------------------|--|----------------|----------------|
| REPORT NO:<br>Client:<br>Vater Sample Analys    | sis:                 | JUN232371<br>KCDC Bulk Water Supply Priority 2 Determinand<br>Monthly Fluoride |                        |                       | Version 15 created 27 June 2023 |  |                |                |
| RESULTS:  |                      |  |                        |                       |                                 |  |                |                |
| Date  | Sample ID            | Site   | Sampler Name           | Time of<br>Collection | Log No.                         | Pilot Sample<br>Temp Taken by<br>Lab Staff | Result         | 95% Confidence |
|   |                      |  |                        |                       |                                 | °C   | mg/L           | mg/L           |
| 7/06/2023                                       | F-9cj                | 35: Plant Lab Tap - Fluoride   | Phillip MacDonald      | 7:37:00 AM            | 232371                          | 3.2  | 0.77           | +/- 0.02       |
| 14/06/2023                                      | F-10cj               | 35: Plant Lab Tap - Fluoride   | Tama Te-Whata          | 7:49:00 AM            | 232475                          | 5.5  | 0.79           | +/- 0.02       |
| 21/06/2023                                      | F-11cj               | 35: Plant Lab Tap - Fluoride   | Mitchell Sarney        | 8:05:00 AM            | 232591                          | 4.3  | 0.81           | +/- 0.02       |
| 28/06/2023                                      | F-12cj               | 35: Plant Lab Tap - Fluoride   | Wayne Elley            | 7:45:00 AM            | 232732                          | 8.1  | 0.80           | +/- 0.02       |
|   |                      |  |                        |                       |                                 |  |                |                |
|   |                      |  |                        |                       |                                 |  |                |                |
|   |                      |  |                        |                       |                                 |  |                |                |
|   |                      |  |                        |                       |                                 |  |                |                |
| Data collected by Bulk V                        | Vater Specialist (tr | ained to NZQA unit standard 17890:<br>for Water Treatment).                    | Undertake sampling and | l testing procedures  |                                 | Analysed by the K0                         | CDC Laboratory |                |

| Notes  |   |  |  |  |  |
|--|---|--|--|--|--|
| The Laboratory had no control over the conditions of collection of the samples.                              |   |  |  |  |  |
| The method of analysis - Ion Selective Electrode as described in APHA - Standard methods for the examination | n of water and wastewater,                    |  |  |  |  |
| American Public Health Association, 24rd Edition 2023. Section 4500-F C.                                     |   |  |  |  |  |
| The Water Services (Drinking Water Standards for New Zealand) Regulations 2022, MAV (maximum allowable       | e value) 1.5 mg/L                             |  |  |  |  |
| The fluoride content recommended for drinking water by the Public Health Commission for oral health reasons  | is 0.7 - 1.0 mg/L                             |  |  |  |  |
| Any queries relating to this report should be addressed to the Laboratory Manager.                           |   |  |  |  |  |
| RECEIVED BY : DATE:  | REPORTED BY: DATE:                            |  |  |  |  |
| 11/07/2023   | K Marcur 11/07/2023                           |  |  |  |  |
| Bruce Nesbitt, Water Treatment Plants Manager  | Kim Mazur, Laboratory Manager                 |  |  |  |  |
| KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae   | KCDC LABORATORY, Fytefield Place, Paraparaumu |  |  |  |  |
| Action Needed:   |   |  |  |  |  |
|  |   |  |  |  |  |
| This report may not be reproduced except in full.  |   |  |  |  |  |





Units:

**Operations Min: Operations Max: Trigger Min: Trigger Max:** 92% Min: 92% Max: 95% Min: 95% Max: 98% Min: 98% Max: 99% Min: 99% Max: Medium Min: Medium Max: Sample Month: **Days Between Samples: Description:** 

Sample ID

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|-------------|--------------|
| KAPITI-4740 | 1. Scheduled |
| KAPITI-4713 | 1. Scheduled |
| KAPITI-4677 | 1. Scheduled |
| KAPITI-4638 | 1. Scheduled |
| KAPITI-4618 | 1. Scheduled |
| KAPITI-4589 | 1. Scheduled |
| KAPITI-4624 | 1. Scheduled |
| KAPITI-4530 | 1. Scheduled |
| KAPITI-4502 | 1. Scheduled |
| KAPITI-4478 | 1. Scheduled |
| KAPITI-4459 | 1. Scheduled |
| KAPITI-4419 | 1. Scheduled |
| KAPITI-4374 | 1. Scheduled |
| KAPITI-4356 | 1. Scheduled |
| KAPITI-4326 | 1. Scheduled |
| KAPITI-4309 | 1. Scheduled |
| KAPITI-4261 | 1. Scheduled |
| KAPITI-4243 | 1. Scheduled |
| KAPITI-4196 | 1. Scheduled |
| KAPITI-4175 | 1. Scheduled |
| KAPITI-4142 | 1. Scheduled |
| KAPITI-4122 | 1. Scheduled |
| KAPITI-4098 | 1. Scheduled |
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| KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT |  |   | July 2023             |                                 |         | ly 2023                              |                |                |
|---|--|---|-----------------------|---------------------------------|---------|--------------------------------------|----------------|----------------|
| REPORT NO:<br>Client:<br>Water Sample Analys    | JUL232827<br>KCDC Bulk Water Supply Priority 2 Determinand<br>Analysis: Monthly Fluoride |   |                       | Version 15 created 27 June 2023 |         |                                      |                |                |
| RESULTS:  |  |   |                       |                                 |         |                                      |                |                |
| Date  | Sample ID  | Site  | Sampler Name          | Time of<br>Collection           | Log No. | Sample Temp<br>Taken by Lab<br>Staff | Result         | 95% Confidence |
|   |  |   |                       |                                 |         | °C                                   | mg/L           | mg/L           |
| 5/07/2023                                       | F-13cj   | 35: Plant Lab Tap - Fluoride                                | Wayne Elley           | 7:49:00 AM                      | 232827  | 9.8                                  | 0.81           | +/- 0.02       |
| 12/07/2023                                      | F-1ck  | 35: Plant Lab Tap - Fluoride                                | Tama Te-Whata         | 7:38:00 AM                      | 232933  | 5                                    | 0.82           | +/- 0.02       |
| 19/07/2023                                      | F-2ck  | 35: Plant Lab Tap - Fluoride                                | Mitchell Sarney       | 7:41:00 AM                      | 233045  | 7.7                                  | 0.81           | +/- 0.02       |
| 26/07/2023                                      | F-3ck  | 35: Plant Lab Tap - Fluoride                                | Wayne Elley           | 7:46:00 AM                      | 233141  | 8.5                                  | 0.80           | +/- 0.02       |
|   |  |   |                       |                                 |         |                                      |                |                |
|   |  |   |                       |                                 |         |                                      |                |                |
|   |  |   |                       |                                 |         |                                      |                |                |
|   |  |   |                       |                                 |         |                                      |                |                |
| Data collected by Bulk W                        | √ater Specialist (tr   | ained to NZQA unit standard 17890:<br>for Water Treatment). | Undertake sampling an | d testing procedures            |         | Analysed by the K                    | CDC Laboratory |                |

| Notes   |   |  |  |
|---|---|--|--|
| The Laboratory had no control over the conditions of collection of the samples.                             |   |  |  |
| The method of analysis - Ion Selective Electrode as described in APHA - Standard methods for the examinatio | n of water and wastewater,                    |  |  |
| American Public Health Association, 24rd Edition 2023. Section 4500-F C.                                    |   |  |  |
| The Water Services (Drinking Water Standards for New Zealand) Regulations 2022, MAV (maximum allowable      | e value) 1.5 mg/L                             |  |  |
| The fluoride content recommended for drinking water by the Public Health Commission for oral health reasons |   |  |  |
| Any queries relating to this report should be addressed to the Laboratory Manager.                          | Ŭ   |  |  |
|   |   |  |  |
| RECEIVED BY : DATE:   | REPORTED BY: DATE:<br>The Marcus 11/08/2023   |  |  |
| 11/08/2023  | A 11/08/2023                                  |  |  |
| Bruce Nesbitt, Water Treatment Plants Manager   | Kim Mazur, Laboratory Manager                 |  |  |
| KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae  | KCDC LABORATORY, Fytefield Place, Paraparaumu |  |  |
| Action Needed:  |   |  |  |
|   |   |  |  |
| This report may not be reproduced except in full.   |   |  |  |





Units:

**Operations Min: Operations Max: Trigger Min: Trigger Max:** 92% Min: 92% Max: 95% Min: 95% Max: 98% Min: 98% Max: 99% Min: 99% Max: Medium Min: Medium Max: Sample Month: **Days Between Samples: Description:** 

Sample ID

| • · · · · · · · · · · · · · · · · · · · |              |
|---|--------------|
| KAPITI-4847                             | 1. Scheduled |
| KAPITI-4823                             | 1. Scheduled |
| KAPITI-4789                             | 1. Scheduled |
| KAPITI-4770                             | 1. Scheduled |
| KAPITI-4740                             | 1. Scheduled |
| KAPITI-4713                             | 1. Scheduled |
| KAPITI-4677                             | 1. Scheduled |
| KAPITI-4638                             | 1. Scheduled |
| KAPITI-4618                             | 1. Scheduled |
| KAPITI-4589                             | 1. Scheduled |
| KAPITI-4624                             | 1. Scheduled |
| KAPITI-4530                             | 1. Scheduled |
| KAPITI-4502                             | 1. Scheduled |
| KAPITI-4478                             | 1. Scheduled |
| KAPITI-4459                             | 1. Scheduled |
| KAPITI-4419                             | 1. Scheduled |
| KAPITI-4374                             | 1. Scheduled |
| KAPITI-4356                             | 1. Scheduled |
| KAPITI-4326                             | 1. Scheduled |
| KAPITI-4309                             | 1. Scheduled |
| KAPITI-4261                             | 1. Scheduled |
| KAPITI-4243                             | 1. Scheduled |
| KAPITI-4196                             | 1. Scheduled |
| KAPITI-4175                             | 1. Scheduled |
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Report Generated: 11/08/2023 2:30:43 pm Page 2 of 3



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|----------------------------------|----------------|
| KAPITI-4122                      | 1. Scheduled   |
| KAPITI-4098                      | 1. Scheduled   |
| KAPITI-4071                      | 1. Scheduled   |
| KAPITI-4030                      | 1. Scheduled   |
| KAPITI-4006                      | 1. Scheduled   |
| KAPITI-3982                      | 1. Scheduled   |
| KAPITI-3947                      | 1. Scheduled   |
| KAPITI-3928                      | 1. Scheduled   |
| KAPITI-3878                      | 1. Scheduled   |
| KAPITI-3843                      | 1. Scheduled   |
| KAPITI-3808                      | 1. Scheduled   |
| KAPITI-3785                      | 1. Scheduled   |
| KAPITI-3762                      | 1. Scheduled   |
| KAPITI-3736                      | 1. Scheduled   |
| KAPITI-3712                      | 1. Scheduled   |
| KAPITI-3688                      | 1. Scheduled   |
| KAPITI-3639                      | 1. Scheduled   |
| KAPITI-3607                      | 1. Scheduled   |
| KAPITI-3583                      | 1. Scheduled   |
| KAPITI-3559                      | 1. Scheduled   |
| KAPITI-3536                      | 1. Scheduled   |
| KAPITI-3495                      | 1. Scheduled   |
| KAPITI-3472                      | 1. Scheduled   |
| KAPITI-3447                      | 1. Scheduled   |
| KAPITI-3429                      | 1. Scheduled   |
| KAPITI-3375                      | 1. Scheduled   |
| KAPITI-3350                      | 1. Scheduled   |
| KAPITI-3317                      |                |
| KAPITI-3293                      |                |
| KAPITI-3259                      |                |
| KAPITI-3236                      |                |
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#### KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT August 2023 **REPORT NO:** AUG233240 Client: **KCDC Bulk Water Supply Priority 2 Determinand** Version 15 created 27 June 2023 Water Sample Analysis: Monthly Fluoride **RESULTS: Pilot Sample** Time of Temp Taken by Date Sample ID Site Sampler Name Collection Log No. Lab Staff Result 95% Confidence °C mg/L mg/L 2/08/2023 F-4ck 35: Plant Lab Tap - Fluoride Phillip MacDonald 7:46:00 AM 233240 6.6 0.78 +/- 0.02 35: Plant Lab Tap - Fluoride Tama Te-Whata 9/08/2023 F-5ck 7:46:00 AM 233325 6.8 0.74 +/- 0.02 16/08/2023 35: Plant Lab Tap - Fluoride Mitchell Sarney 7:42:00 AM 233435 0.77 +/- 0.02 F-6ck 4.2 23/08/2023 35: Plant Lab Tap - Fluoride Phillip MacDonald 7:42:00 AM 233555 3.9 0.78 +/- 0.02 F-7ck 30/08/2023 35: Plant Lab Tap - Fluoride Tama Te-Whata 8:32:00 AM 233663 5.4 0.80 +/- 0.02 F-8ck Data collected by Bulk Water Specialist (trained to NZQA unit standard 17890: Undertake sampling and testing procedures Analysed by the KCDC Laboratory for Water Treatment).

| Notes   |   |             |                    |  |  |
|---|---|-------------|--------------------|--|--|
|   |   |             |                    |  |  |
| The Laboratory had no control over the conditions of collection of the samples.   |   |             |                    |  |  |
| The method of analysis - Ion Selective Electrode as described in APHA - Standard methods for the examination of water and wastewater, |   |             |                    |  |  |
| American Public Health Association, 24rd Edition 2023. Section 4500-F C.  |   |             |                    |  |  |
| The Water Services (Drinking Water Standards for New Zealand) Regulations 2022, MAV (maximum allowab                                  | le value) 1.5 mg/L                      |             |                    |  |  |
| The fluoride content recommended for drinking water by the Public Health Commission for oral health reasons                           | , 3                                     |             |                    |  |  |
| Any queries relating to this report should be addressed to the Laboratory Manager.  | J.                                      |             |                    |  |  |
|   |   |             |                    |  |  |
|   |   |             |                    |  |  |
| RECEIVED BY : DATE:   | REPORTED BY:                            | 1/ 00       | DATE:              |  |  |
| RECEIVED BY : DATE: 8/09/2023   | REPORTED BY:                            | K Marcur    | DATE:<br>8/09/2023 |  |  |
| 8/09/2023   |   |             |                    |  |  |
| 8/09/2023<br>Bruce Nesbitt, Water Treatment Plants Manager  | Kim Mazur, Laborato                     | ory Manager | 8/09/2023          |  |  |
| 8/09/2023<br>Bruce Nesbitt, Water Treatment Plants Manager<br>KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae                | Kim Mazur, Laborato                     |             | 8/09/2023          |  |  |
| 8/09/2023<br>Bruce Nesbitt, Water Treatment Plants Manager  | Kim Mazur, Laborato                     | ory Manager | 8/09/2023          |  |  |
| 8/09/2023<br>Bruce Nesbitt, Water Treatment Plants Manager<br>KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae                | Kim Mazur, Laborato<br>KCDC LABORATORY, | ory Manager | 8/09/2023          |  |  |





Units:

**Operations Min: Operations Max: Trigger Min: Trigger Max:** 92% Min: 92% Max: 95% Min: 95% Max: 98% Min: 98% Max: 99% Min: 99% Max: Medium Min: Medium Max: Sample Month: **Days Between Samples: Description:** 

Sample ID

| KAPITI-5017 | 1. Scheduled |
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| KAPITI-4975 | 1. Scheduled |
| KAPITI-4937 | 1. Scheduled |
| KAPITI-4896 | 1. Scheduled |
| KAPITI-4880 | 1. Scheduled |
| KAPITI-4847 | 1. Scheduled |
| KAPITI-4823 | 1. Scheduled |
| KAPITI-4789 | 1. Scheduled |
| KAPITI-4770 | 1. Scheduled |
| KAPITI-4740 | 1. Scheduled |
| KAPITI-4713 | 1. Scheduled |
| KAPITI-4677 | 1. Scheduled |
| KAPITI-4638 | 1. Scheduled |
| KAPITI-4618 | 1. Scheduled |
| KAPITI-4589 | 1. Scheduled |
| KAPITI-4624 | 1. Scheduled |
| KAPITI-4530 | 1. Scheduled |
| KAPITI-4502 | 1. Scheduled |
| KAPITI-4478 | 1. Scheduled |
| KAPITI-4459 | 1. Scheduled |
| KAPITI-4419 | 1. Scheduled |
| KAPITI-4374 | 1. Scheduled |
| KAPITI-4356 | 1. Scheduled |
| KAPITI-4326 | 1. Scheduled |
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| KAPITI-4261                       | 1. Scheduled |
| KAPITI-4243                       | 1. Scheduled |
| KAPITI-4196                       | 1. Scheduled |
| KAPITI-4175                       | 1. Scheduled |
| KAPITI-4142                       | 1. Scheduled |
| KAPITI-4122                       | 1. Scheduled |
| KAPITI-4098                       | 1. Scheduled |
| KAPITI-4071                       | 1. Scheduled |
| KAPITI-4030                       | 1. Scheduled |
| KAPITI-4006                       | 1. Scheduled |
| KAPITI-3982                       | 1. Scheduled |
| KAPITI-3947                       | 1. Scheduled |
| KAPITI-3928                       | 1. Scheduled |
| KAPITI-3878                       | 1. Scheduled |
| KAPITI-3843                       | 1. Scheduled |
| KAPITI-3808                       | 1. Scheduled |
| KAPITI-3785                       | 1. Scheduled |
| KAPITI-3762                       | 1. Scheduled |
| KAPITI-3736                       | 1. Scheduled |
| KAPITI-3712                       | 1. Scheduled |
| KAPITI-3688                       | 1. Scheduled |
| KAPITI-3639                       | 1. Scheduled |
| KAPITI-3607                       | 1. Scheduled |
| KAPITI-3583                       | 1. Scheduled |
| KAPITI-3559                       | 1. Scheduled |
| KAPITI-3536                       | 1. Scheduled |
| KAPITI-3495                       | 1. Scheduled |
| KAPITI-3472                       | 1. Scheduled |
| KAPITI-3447                       | 1. Scheduled |
| KAPITI-3429                       | 1. Scheduled |
| KAPITI-3375                       | 1. Scheduled |
| KAPITI-3350                       | 1. Scheduled |
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Report Generated: 8/09/2023 2:47:14 pm Page 3 of 3



| APITI COAST DI                             | STRICT COU           | INCIL LABORATORY REP  | ORT                    |                       |         |  | Septe          | mber 2023      |
|--|----------------------|---|------------------------|-----------------------|---------|--|----------------|----------------|
| EPORT NO:<br>lient:<br>/ater Sample Analys | sis:                 | SEP233764<br>KCDC Bulk Water Supply Pr<br>Monthly Fluoride  | iority 2 Determinand   |                       |         | Version 15 created :                       | 27 June 2023   |                |
| ESULTS:                                    |                      |   |                        |                       |         |  |                |                |
| Date                                       | Sample ID            | Site  | Sampler Name           | Time of<br>Collection | Log No. | Pilot Sample<br>Temp Taken by<br>Lab Staff | Result         | 95% Confidence |
|  |                      |   |                        |                       |         | O°   | mg/L           | mg/L           |
| 6/09/2023                                  | F-9ck                | 35: Plant Lab Tap - Fluoride                                | Mitchell Sarney        | 7:42:00 AM            | 233764  | 4.8  | 0.80           | +/- 0.02       |
| 13/09/2023                                 | F-10ck               | 35: Plant Lab Tap - Fluoride                                | Wayne Elley            | 8:06:00 AM            | 233879  | 11.6                                       | 0.82           | +/- 0.02       |
| 20/09/2023                                 | F-11ck               | 35: Plant Lab Tap - Fluoride                                | Phillip MacDonald      | 7:38:00 AM            | 233969  | 9.9  | 0.81           | +/- 0.02       |
| 27/09/2023                                 | F-12ck               | 35: Plant Lab Tap - Fluoride                                | Tama Te-Whata          | 7:52:00 AM            | 234081  | 6.4  | 0.82           | +/- 0.02       |
|  |                      |   |                        |                       |         |  |                |                |
|  |                      |   |                        |                       |         |  |                |                |
|  |                      |   |                        |                       |         |  |                |                |
|  |                      |   |                        |                       |         |  |                |                |
| ata collected by Bulk W                    | /ater Specialist (tr | ained to NZQA unit standard 17890:<br>for Water Treatment). | Undertake sampling and | I testing procedures  |         | Analysed by the KC                         | CDC Laboratory |                |

| Notes   |  |
|---|--|
| The Laboratory had no control over the conditions of collection of the samples.   |  |
| The method of analysis - Ion Selective Electrode as described in APHA - Standard methods for the examination                | n of water and wastewater,   |
| American Public Health Association, 24rd Edition 2023. Section 4500-F C.  |  |
| The Water Services (Drinking Water Standards for New Zealand) Regulations 2022, MAV (maximum allowable                      | e value) 1.5 mg/L  |
| The fluoride content recommended for drinking water by the Public Health Commission for oral health reasons                 | is 0.7 - 1.0 mg/L  |
| Any queries relating to this report should be addressed to the Laboratory Manager.  |  |
| RECEIVED BY : DATE: 3/10/2023   | REPORTED BY: K Marcur DATE: 3/10/2023  |
| Bruce Nesbitt, Water Treatment Plants Manager<br>KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae<br>Action Needed: | Kim Mazur, Laboratory Manager<br>KCDC LABORATORY, Fytefield Place, Paraparaumu |
| This report may not be reproduced except  | in full.   |





Units:

**Operations Min: Operations Max: Trigger Min: Trigger Max:** 92% Min: 92% Max: 95% Min: 95% Max: 98% Min: 98% Max: 99% Min: 99% Max: Medium Min: Medium Max: Sample Month: **Days Between Samples: Description:** 

Sample ID

| KAPITI-5122 | 1. Scheduled |
|-------------|--------------|
| KAPITI-5088 | 1. Scheduled |
| KAPITI-5061 | 1. Scheduled |
| KAPITI-5038 | 1. Scheduled |
| KAPITI-5017 | 1. Scheduled |
| KAPITI-4975 | 1. Scheduled |
| KAPITI-4937 | 1. Scheduled |
| KAPITI-4896 | 1. Scheduled |
| KAPITI-4880 | 1. Scheduled |
| KAPITI-4847 | 1. Scheduled |
| KAPITI-4823 | 1. Scheduled |
| KAPITI-4789 | 1. Scheduled |
| KAPITI-4770 | 1. Scheduled |
| KAPITI-4740 | 1. Scheduled |
| KAPITI-4713 | 1. Scheduled |
| KAPITI-4677 | 1. Scheduled |
| KAPITI-4638 | 1. Scheduled |
| KAPITI-4618 | 1. Scheduled |
| KAPITI-4589 | 1. Scheduled |
| KAPITI-4624 | 1. Scheduled |
| KAPITI-4530 | 1. Scheduled |
| KAPITI-4502 | 1. Scheduled |
| KAPITI-4478 | 1. Scheduled |
| KAPITI-4459 | 1. Scheduled |
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| Not 111-44 Me Huri Whakamuri, Ka | Theoremean   |
|----------------------------------|--------------|
| KAPITI-4374                      | 1. Scheduled |
| KAPITI-4356                      | 1. Scheduled |
| KAPITI-4326                      | 1. Scheduled |
| KAPITI-4309                      | 1. Scheduled |
| KAPITI-4261                      | 1. Scheduled |
| KAPITI-4243                      | 1. Scheduled |
| KAPITI-4196                      | 1. Scheduled |
| KAPITI-4175                      | 1. Scheduled |
| KAPITI-4142                      | 1. Scheduled |
| KAPITI-4122                      | 1. Scheduled |
| KAPITI-4098                      | 1. Scheduled |
| KAPITI-4071                      | 1. Scheduled |
| KAPITI-4030                      | 1. Scheduled |
| KAPITI-4006                      | 1. Scheduled |
| KAPITI-3982                      | 1. Scheduled |
| KAPITI-3947                      | 1. Scheduled |
| KAPITI-3928                      | 1. Scheduled |
| KAPITI-3878                      | 1. Scheduled |
| KAPITI-3843                      | 1. Scheduled |
| KAPITI-3808                      | 1. Scheduled |
| KAPITI-3785                      | 1. Scheduled |
| KAPITI-3762                      | 1. Scheduled |
| KAPITI-3736                      | 1. Scheduled |
| KAPITI-3712                      | 1. Scheduled |
| KAPITI-3688                      | 1. Scheduled |
| KAPITI-3639                      | 1. Scheduled |
| KAPITI-3607                      | 1. Scheduled |
| KAPITI-3583                      | 1. Scheduled |
| KAPITI-3559                      | 1. Scheduled |
| KAPITI-3536                      | 1. Scheduled |
| KAPITI-3495                      | 1. Scheduled |
|                                  |              |

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Report Generated: 3/10/2023 3:15:02 pm Page 3 of 3



| APITI COAST DI<br>EPORT NO:<br>ient:<br>ater Sample Analys |                      | INCIL LABORATORY REF<br>OCT234183<br>KCDC Bulk Water Supply Pr<br>Monthly Fluoride |                        |                       |         | Version 15 created                         |                | ober 2023      |
|--|----------------------|--|------------------------|-----------------------|---------|--|----------------|----------------|
| ESULTS:  | 15.                  | montally r tuonde  |                        |                       |         | Version 10 created                         | 27 June 2025   |                |
| Date   | Sample ID            | Site   | Sampler Name           | Time of<br>Collection | Log No. | Pilot Sample<br>Temp Taken by<br>Lab Staff | Result         | 95% Confidence |
|  |                      |  |                        |                       |         | °C   | mg/L           | mg/L           |
| 4/10/2023  | F-13ck               | 35: Plant Lab Tap - Fluoride   | Mitchell Sarney        | 7:45:00 AM            | 234183  | 3.7  | 0.79           | +/- 0.02       |
| 11/10/2023   | F-1cl                | 35: Plant Lab Tap - Fluoride   | Wayne Elley            | 8:06:00 AM            | 234283  | 6  | 0.83           | +/- 0.02       |
| 18/10/2023   | F-2cl                | 35: Plant Lab Tap - Fluoride   | Phillip MacDonald      | 7:40:00 AM            | 234409  | 7.8  | 0.83           | +/- 0.02       |
| 25/10/2023   | F-3cl                | 35: Plant Lab Tap - Fluoride   | Tama Te-Whata          | 7:49:00 AM            | 234498  | 5.6  | 0.81           | +/- 0.02       |
|  |                      |  |                        |                       |         |  |                |                |
|  |                      |  |                        |                       |         |  |                |                |
|  |                      |  |                        |                       |         |  |                |                |
|  |                      |  |                        |                       |         |  |                |                |
| ata collected by Bulk W                                    | /ater Specialist (tr | ained to NZQA unit standard 17890:<br>for Water Treatment).                        | Undertake sampling and | testing procedures    |         | Analysed by the KC                         | CDC Laboratory |                |

| Notes   |  |  |  |  |
|---|--|--|--|--|
| The Laboratory had no control over the conditions of collection of the samples.   |  |  |  |  |
| The method of analysis - Ion Selective Electrode as described in APHA - Standard methods for the examination                | n of water and wastewater,   |  |  |  |
| American Public Health Association, 24rd Edition 2023. Section 4500-F C.  |  |  |  |  |
| The Water Services (Drinking Water Standards for New Zealand) Regulations 2022 , MAV (maximum allowable                     | e value) 1.5 mg/L  |  |  |  |
| The fluoride content recommended for drinking water by the Public Health Commission for oral health reasons                 | is 0.7 - 1.0 mg/L  |  |  |  |
| Any queries relating to this report should be addressed to the Laboratory Manager.  |  |  |  |  |
| RECEIVED BY : DATE: 1/11/2023   | REPORTED BY: K Marcur DATE: 1/11/2023  |  |  |  |
| Bruce Nesbitt, Water Treatment Plants Manager<br>KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae<br>Action Needed: | Kim Mazur, Laboratory Manager<br>KCDC LABORATORY, Fytefield Place, Paraparaumu |  |  |  |
| This report may not be reproduced except  | in full.   |  |  |  |





Units:

**Operations Min: Operations Max: Trigger Min: Trigger Max:** 92% Min: 92% Max: 95% Min: 95% Max: 98% Min: 98% Max: 99% Min: 99% Max: Medium Min: Medium Max: Sample Month: **Days Between Samples: Description:** 

Sample ID

| eample is   |              |
|-------------|--------------|
| KAPITI-5257 | 1. Scheduled |
| KAPITI-5225 | 1. Scheduled |
| KAPITI-5175 | 1. Scheduled |
| KAPITI-5152 | 1. Scheduled |
| KAPITI-5122 | 1. Scheduled |
| KAPITI-5088 | 1. Scheduled |
| KAPITI-5061 | 1. Scheduled |
| KAPITI-5038 | 1. Scheduled |
| KAPITI-5017 | 1. Scheduled |
| KAPITI-4975 | 1. Scheduled |
| KAPITI-4937 | 1. Scheduled |
| KAPITI-4896 | 1. Scheduled |
| KAPITI-4880 | 1. Scheduled |
| KAPITI-4847 | 1. Scheduled |
| KAPITI-4823 | 1. Scheduled |
| KAPITI-4789 | 1. Scheduled |
| KAPITI-4770 | 1. Scheduled |
| KAPITI-4740 | 1. Scheduled |
| KAPITI-4713 | 1. Scheduled |
| KAPITI-4677 | 1. Scheduled |
| KAPITI-4638 | 1. Scheduled |
| KAPITI-4618 | 1. Scheduled |
| KAPITI-4589 | 1. Scheduled |
| KAPITI-4624 | 1. Scheduled |
|             |              |





| TV-TITI-+55 We Huri Whakamuri, Ka | Theoremean   |
|-----------------------------------|--------------|
| KAPITI-4502                       | 1. Scheduled |
| KAPITI-4478                       | 1. Scheduled |
| KAPITI-4459                       | 1. Scheduled |
| KAPITI-4419                       | 1. Scheduled |
| KAPITI-4374                       | 1. Scheduled |
| KAPITI-4356                       | 1. Scheduled |
| KAPITI-4326                       | 1. Scheduled |
| KAPITI-4309                       | 1. Scheduled |
| KAPITI-4261                       | 1. Scheduled |
| KAPITI-4243                       | 1. Scheduled |
| KAPITI-4196                       | 1. Scheduled |
| KAPITI-4175                       | 1. Scheduled |
| KAPITI-4142                       | 1. Scheduled |
| KAPITI-4122                       | 1. Scheduled |
| KAPITI-4098                       | 1. Scheduled |
| KAPITI-4071                       | 1. Scheduled |
| KAPITI-4030                       | 1. Scheduled |
| KAPITI-4006                       | 1. Scheduled |
| KAPITI-3982                       | 1. Scheduled |
| KAPITI-3947                       | 1. Scheduled |
| KAPITI-3928                       | 1. Scheduled |
| KAPITI-3878                       | 1. Scheduled |
| KAPITI-3843                       | 1. Scheduled |
| KAPITI-3808                       | 1. Scheduled |
| KAPITI-3785                       | 1. Scheduled |
| KAPITI-3762                       | 1. Scheduled |
| KAPITI-3736                       | 1. Scheduled |
| KAPITI-3712                       | 1. Scheduled |
| KAPITI-3688                       | 1. Scheduled |
| KAPITI-3639                       | 1. Scheduled |
| KAPITI-3607                       | 1. Scheduled |
|                                   |              |

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#### KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT November 2023 **REPORT NO:** NOV234592 Client: **KCDC Bulk Water Supply Priority 2 Determinand** Version 15 created 27 June 2023 Water Sample Analysis: Monthly Fluoride **RESULTS: Pilot Sample** Time of Temp Taken by Date Sample ID Site Sampler Name Collection Log No. Lab Staff Result 95% Confidence °C mg/L mg/L 1/11/2023 F-4cl 35: Plant Lab Tap - Fluoride Mitchell Sarney 7:50:00 AM 234592 5.9 0.76 +/- 0.02 8/11/2023 35: Plant Lab Tap - Fluoride 0.79 F-5cl Wayne Elley 8:11:00 AM 234701 7.2 +/- 0.02 15/11/2023 F-6cl 35: Plant Lab Tap - Fluoride Phillip MacDonald 7:35:00 AM 234834 0.81 +/- 0.02 5.3 22/11/2023 F-7cl 35: Plant Lab Tap - Fluoride Tama Te-Whata 7:42:00 AM 234951 9.2 0.80 +/- 0.02 29/11/2023 F-8cl 35: Plant Lab Tap - Fluoride 7:44:00 AM 235064 4.6 0.82 +/- 0.02 Mitchell Sarney Data collected by Bulk Water Specialist (trained to NZQA unit standard 17890: Undertake sampling and testing procedures Analysed by the KCDC Laboratory for Water Treatment).

| Notes   |  |  |  |  |
|---|--|--|--|--|
| The Laboratory had no control over the conditions of collection of the samples.   |  |  |  |  |
| The method of analysis - Ion Selective Electrode as described in APHA - Standard methods for the examination of water and wastewater, |  |  |  |  |
| American Public Health Association, 24rd Edition 2023. Section 4500-F C.  |  |  |  |  |
| The Water Services (Drinking Water Standards for New Zealand) Regulations 2022, MAV (maximum allowab                                  | le value) 1.5 mg/L   |  |  |  |
| The fluoride content recommended for drinking water by the Public Health Commission for oral health reasons                           | s is 0.7 - 1.0 mg/L  |  |  |  |
| Any queries relating to this report should be addressed to the Laboratory Manager.  |  |  |  |  |
| RECEIVED BY : DATE:   | REPORTED BY: DATE:   |  |  |  |
| 4/12/2023   | K Marcur 4/12/2023   |  |  |  |
|   |  |  |  |  |
| Bruce Nesbitt, Water Treatment Plants Manager   | Kim Mazur, Laboratory Manager  |  |  |  |
| Bruce Nesbitt, Water Treatment Plants Manager<br>KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae                             | Kim Mazur, Laboratory Manager<br>KCDC LABORATORY, Fytefield Place, Paraparaumu |  |  |  |
|   |  |  |  |  |
| KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae  |  |  |  |  |





Units:

**Operations Min: Operations Max: Trigger Min: Trigger Max:** 92% Min: 92% Max: 95% Min: 95% Max: 98% Min: 98% Max: 99% Min: 99% Max: Medium Min: Medium Max: Sample Month: **Days Between Samples: Description:** 

Sample ID

| KAPITI-5387 | 1. Scheduled |
|-------------|--------------|
| KAPITI-5362 | 1. Scheduled |
| KAPITI-5336 | 1. Scheduled |
| KAPITI-5297 | 1. Scheduled |
| KAPITI-5275 | 1. Scheduled |
| KAPITI-5257 | 1. Scheduled |
| KAPITI-5225 | 1. Scheduled |
| KAPITI-5175 | 1. Scheduled |
| KAPITI-5152 | 1. Scheduled |
| KAPITI-5122 | 1. Scheduled |
| KAPITI-5088 | 1. Scheduled |
| KAPITI-5061 | 1. Scheduled |
| KAPITI-5038 | 1. Scheduled |
| KAPITI-5017 | 1. Scheduled |
| KAPITI-4975 | 1. Scheduled |
| KAPITI-4937 | 1. Scheduled |
| KAPITI-4896 | 1. Scheduled |
| KAPITI-4880 | 1. Scheduled |
| KAPITI-4847 | 1. Scheduled |
| KAPITI-4823 | 1. Scheduled |
| KAPITI-4789 | 1. Scheduled |
| KAPITI-4770 | 1. Scheduled |
| KAPITI-4740 | 1. Scheduled |
| KAPITI-4713 | 1. Scheduled |
|             |              |

Data Powered by:

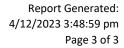


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| Me Huri Whakamuri, Ka | Titiro Phikanaia a |
|-----------------------|--------------------|
| KAPITI-4638           | 1. Scheduled       |
| KAPITI-4618           | 1. Scheduled       |
| KAPITI-4589           | 1. Scheduled       |
| KAPITI-4624           | 1. Scheduled       |
| KAPITI-4530           | 1. Scheduled       |
| KAPITI-4502           | 1. Scheduled       |
| KAPITI-4478           | 1. Scheduled       |
| KAPITI-4459           | 1. Scheduled       |
| KAPITI-4419           | 1. Scheduled       |
| KAPITI-4374           | 1. Scheduled       |
| KAPITI-4356           | 1. Scheduled       |
| KAPITI-4326           | 1. Scheduled       |
| KAPITI-4309           | 1. Scheduled       |
| KAPITI-4261           | 1. Scheduled       |
| KAPITI-4243           | 1. Scheduled       |
| KAPITI-4196           | 1. Scheduled       |
| KAPITI-4175           | 1. Scheduled       |
| KAPITI-4142           | 1. Scheduled       |
| KAPITI-4122           | 1. Scheduled       |
| KAPITI-4098           | 1. Scheduled       |
| KAPITI-4071           | 1. Scheduled       |
| KAPITI-4030           | 1. Scheduled       |
| KAPITI-4006           | 1. Scheduled       |
| KAPITI-3982           | 1. Scheduled       |
| KAPITI-3947           | 1. Scheduled       |
| KAPITI-3928           | 1. Scheduled       |
| KAPITI-3878           | 1. Scheduled       |
| KAPITI-3843           | 1. Scheduled       |
| KAPITI-3808           | 1. Scheduled       |
| KAPITI-3785           | 1. Scheduled       |
| KAPITI-3762           | 1. Scheduled       |
| KAPITI-3736           | 1. Scheduled       |
|                       |                    |

Data Powered by: wateroutlook





| KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT   |                      |   |                       | December 2023                   |         |                                      |                |               |
|---|----------------------|---|-----------------------|---------------------------------|---------|--------------------------------------|----------------|---------------|
| EPORT NO:DEC235200lient:KCDC Bulk Water Supply Priority 2 Determinand/ater Sample Analysis:Monthly Fluoride |                      |   |                       | Version 15 created 27 June 2023 |         |                                      |                |               |
| ESULTS:   |                      |   |                       |                                 |         |                                      |                |               |
| Date  | Sample ID            | Site  | Sampler Name          | Time of<br>Collection           | Log No. | Sample Temp<br>Taken by Lab<br>Staff | Result         | 95% Confidenc |
|   |                      |   |                       |                                 |         | O°                                   | mg/L           | mg/L          |
| 6/12/2023   | F-9cl                | 35: Plant Lab Tap - Fluoride                                | Wayne Elley           | 7:01:00 AM                      | 235200  | 8.5                                  | 0.78           | +/- 0.02      |
| 13/12/2023  | F-10cl               | 35: Plant Lab Tap - Fluoride                                | Mitchell Sarney       | 7:34:00 AM                      | 235317  | 5                                    | 0.83           | +/- 0.02      |
| 20/12/2023  | F-11cl               | 35: Plant Lab Tap - Fluoride                                | Wayne Elley           | 7:47:00 AM                      | 235462  | 11.5                                 | 0.82           | +/- 0.02      |
| 27/12/2023  | F-12cl               | 35: Plant Lab Tap - Fluoride                                | Mitchell Sarney       | 7:02:00 AM                      | 235537  | 5.5                                  | 0.81           | +/- 0.02      |
|   |                      |   |                       |                                 |         |                                      |                |               |
|   |                      |   |                       |                                 |         |                                      |                |               |
|   |                      |   |                       |                                 |         |                                      |                |               |
|   |                      |   |                       |                                 |         |                                      |                |               |
| ata collected by Bulk W   | /ater Specialist (tr | ained to NZQA unit standard 17890:<br>for Water Treatment). | Undertake sampling an | d testing procedures            |         | Analysed by the KC                   | CDC Laboratory |               |

| Notes   |   |  |  |  |
|---|---|--|--|--|
| The Laboratory had no control over the conditions of collection of the samples.   |   |  |  |  |
| The method of analysis - Ion Selective Electrode as described in APHA - Standard methods for the examination of water and wastewater, |   |  |  |  |
| American Public Health Association, 24rd Edition 2023. Section 4500-F C.  |   |  |  |  |
| The Water Services (Drinking Water Standards for New Zealand) Regulations 2022 , MAV (maximum allowable value) 1.5 mg/L               |   |  |  |  |
| The fluoride content recommended for drinking water by the Public Health Commission for oral health reasons is 0.7 - 1.0 mg/L         |   |  |  |  |
| Any queries relating to this report should be addressed to the Laboratory Manager.  |   |  |  |  |
| RECEIVED BY : DATE:   | REPORTED BY: DATE:                            |  |  |  |
| 31/12/2023  | K Marcur 28/12/2023                           |  |  |  |
| Bruce Nesbitt, Water Treatment Plants Manager   | Kim Mazur, Laboratory Manager                 |  |  |  |
| KCDC WATER TREATMENT PLANT, 26 Reikorangi Road, Waikanae  | KCDC LABORATORY, Fytefield Place, Paraparaumu |  |  |  |
| Action Needed:  |   |  |  |  |
|   |   |  |  |  |
| This report may not be reproduced except in full.   |   |  |  |  |





Units:

**Operations Min: Operations Max: Trigger Min: Trigger Max:** 92% Min: 92% Max: 95% Min: 95% Max: 98% Min: 98% Max: 99% Min: 99% Max: Medium Min: Medium Max: Sample Month: **Days Between Samples: Description:** 

Sample ID

| •••••••     |              |
|-------------|--------------|
| KAPITI-5515 | 1. Scheduled |
| KAPITI-5490 | 1. Scheduled |
| KAPITI-5444 | 1. Scheduled |
| KAPITI-5418 | 1. Scheduled |
| KAPITI-5387 | 1. Scheduled |
| KAPITI-5362 | 1. Scheduled |
| KAPITI-5336 | 1. Scheduled |
| KAPITI-5297 | 1. Scheduled |
| KAPITI-5275 | 1. Scheduled |
| KAPITI-5257 | 1. Scheduled |
| KAPITI-5225 | 1. Scheduled |
| KAPITI-5175 | 1. Scheduled |
| KAPITI-5152 | 1. Scheduled |
| KAPITI-5122 | 1. Scheduled |
| KAPITI-5088 | 1. Scheduled |
| KAPITI-5061 | 1. Scheduled |
| KAPITI-5038 | 1. Scheduled |
| KAPITI-5017 | 1. Scheduled |
| KAPITI-4975 | 1. Scheduled |
| KAPITI-4937 | 1. Scheduled |
| KAPITI-4896 | 1. Scheduled |
| KAPITI-4880 | 1. Scheduled |
| KAPITI-4847 | 1. Scheduled |
| KAPITI-4823 | 1. Scheduled |
|             |              |





| TCALIFICATION Me Huri Whakamuri, Ka | Thirowheadled |
|-------------------------------------|---------------|
| KAPITI-4770                         | 1. Scheduled  |
| KAPITI-4740                         | 1. Scheduled  |
| KAPITI-4713                         | 1. Scheduled  |
| KAPITI-4677                         | 1. Scheduled  |
| KAPITI-4638                         | 1. Scheduled  |
| KAPITI-4618                         | 1. Scheduled  |
| KAPITI-4589                         | 1. Scheduled  |
| KAPITI-4624                         | 1. Scheduled  |
| KAPITI-4530                         | 1. Scheduled  |
| KAPITI-4502                         | 1. Scheduled  |
| KAPITI-4478                         | 1. Scheduled  |
| KAPITI-4459                         | 1. Scheduled  |
| KAPITI-4419                         | 1. Scheduled  |
| KAPITI-4374                         | 1. Scheduled  |
| KAPITI-4356                         | 1. Scheduled  |
| KAPITI-4326                         | 1. Scheduled  |
| KAPITI-4309                         | 1. Scheduled  |
| KAPITI-4261                         | 1. Scheduled  |
| KAPITI-4243                         | 1. Scheduled  |
| KAPITI-4196                         | 1. Scheduled  |
| KAPITI-4175                         | 1. Scheduled  |
| KAPITI-4142                         | 1. Scheduled  |
| KAPITI-4122                         | 1. Scheduled  |
| KAPITI-4098                         | 1. Scheduled  |
| KAPITI-4071                         | 1. Scheduled  |
| KAPITI-4030                         | 1. Scheduled  |
| KAPITI-4006                         | 1. Scheduled  |
| KAPITI-3982                         | 1. Scheduled  |
| KAPITI-3947                         | 1. Scheduled  |
| KAPITI-3928                         | 1. Scheduled  |
| KAPITI-3878                         | 1. Scheduled  |
|                                     |               |

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