Levin Landfill January 2026 Quarterly Groundwater, Surface Water and Leachate Monitoring Report

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Executive Summary

Horowhenua District Council (HDC) is required to carry out quarterly compliance monitoring of groundwater and monthly sampling at selected surface water monitoring locations at the Levin Landfill, as part of the conditions of Resource Consents ATH-2002003982.03 (formerly DP6009), ATH-2002003983.02 (formerly DP6010), ATH-2002003984.02 (formerly DP6011) and ATH-2002009801.02 (formerly DP102259). This report summarises the findings for the monitoring events from the third quarter (i.e., 1 November 2025 to 31 January 2026) sampling round and includes results for:

- Background (natural) groundwater (Bores G1s and G1d)
- Landfill leachate (manhole next to leachate pond)
- Groundwater bores, down-gradient of the new landfill (Bores D1, D2, D3rs, D4, D5, D6 and E1s)
- Groundwater bores within the old irrigation area (Bores F1, F2 and F3)
- Shallow aquifers, down-gradient of the old landfill (Bores B1, B2, B3s, C2, C2ds, E2s, G2s, Xs1 and Xs2)
- The deep aquifer (Bores C2dd, D3rd, E1d, E2d and Xd1)
- The Northern Farm Drain (TD1), and
- The Hōkio Stream (HS1A, HS2 and HS3).

Stantec has reviewed the results of this third quarter monitoring round on behalf of HDC.

Monitoring results for other aspects of the landfill operations such as for air quality, odour, and stormwater quality are reported annually, as per resource consent requirements.

Samples were collected from 26 groundwater bores from around Levin Landfill during January 2026. Additionally, four surface water sites plus the leachate pond manhole were each sampled during January 2026. All samples were analysed for the parameters set out in ATH-2002003983.02, and as listed in the results tables presented in this report. No samples were able to be collected from Bore D2 which was reported as being ‘dry’ when sampling was attempted.

Surface water samples were collected over one day in January 2026. All samples were delivered to the laboratory within a 24-hour period after sampling.

Groundwater samples were collected over two days in January 2026, which is commendable, given the number of samples requiring collection. Some sample times were not stated on the laboratory reports. About two thirds of the samples were not delivered to the laboratory within a 24-hour period after sampling. It is important that the samples are received at the laboratory within 24 hours of sampling to preserve them for testing of *E. coli*.

Accurate recording of sampling times is important, as is the furnishing of this information to the laboratory so that it can be recorded on the laboratory sheets.

The resource consent for the landfill (namely, ATH-2002003983.02) establishes compliance limits for the quality of deeper and shallow groundwater which are based upon the Drinking Water Standards for New Zealand – Maximum Acceptable Values (DWSNZ MAVs), Guideline Values for aesthetic determinants (DWSNZ GVs), and the Australian and New Zealand Environment and Conservation Council 2000 Livestock Drinking Water (ANZECC LDW) trigger values, respectively. Compliance limits

for surface water are based on the ANZECC 2000[1] default guideline values (DGV) for 95th percentile species protection for toxicants in freshwater, as required by the revised Resource Consent condition approved in December 2019.

The November 2025 to January 2026 monitoring results have been assessed against these limits, where they are applicable.

Fourteen exceedances of resource consent trigger values were recorded across nine monitoring locations, as follows:

- Dissolved manganese concentrations exceeded the DWSNZ MAV of 0.4 mg/L in bores C2dd (0.482 mg/L), E2d (0.518 mg/L), Xd1 (0.976 mg/L) and D3rd 0.428 mg/L).
- *E. coli* concentrations exceeded the ANZECC LDW of 100 CFU/100 ml in bores B1 (200 CFU/100 ml) and C1 (2000 CFU/100 ml).
- Within the northern farm drain the concentration of $scBOD_5$ (8 mg/L) exceeded the ANZECC AE (95%ile) DGV of 2 mg/L and the concentration of Ammoniacal-N (12 mg/L) exceeded the ANZECC AE (95%ile) DGV of 2.1 mg/L.
- Within the Hōkio Stream, the concentration of scBOD5 in HS1A, HS2, HS3 (3mg/L in all samples) exceeded the ANZECC AE (95%ile) DGV of 2 mg/L. The level of detection applied to $scBOD_5$ at HS1A, HS2 and HS3 was such that, even at half the detection level (i.e., 3 mg/L), the concentration exceeded the ANZECC AE (95%ile) DGV of 2 mg/L.
- The concentration of dissolved aluminium in HS1A, HS2, HS3 (0.175 mg/L, 0.223 mg/L and 0.269 mg/L respectively) exceeded the ANZECC AE (95%ile) DGV of 0.055 mg/L.

Of the fourteen exceedances, six are likely to be unrelated to the landfill activities as follows:

- The four exceedances in the deep aquifer are not unusual and are related to the existing water quality.
- The two exceedances for *E. coli* in the shallow aquifer, likely related to the location of the one bore being within the edge of the wetland and associated bird or other animal activity, and with the other bore having similar exceedances occasionally, which is not unusual.

Of the other eight exceedances, there was one each for elevated $scBOD_5$ and ammoniacal-N concentrations in the Northern Farm Drain. Three exceedances in the Hōkio Stream are on account of incorrect levels of detection being applied for $scBOD_5$ testing and so there is no way of telling if the actual concentrations would exceed the trigger level or not. And the remaining three exceedances in the Hōkio Stream are for dissolved aluminum.

Whilst the shallow groundwater downstream of the old landfill meets the resource consent trigger values for all parameters except one sample for *E. coli*, it is well documented that leachate from the old landfill is extending in a plume northward and is impacting the quality of the shallow aquifer. Modelling of the plume has shown that there could be unacceptable future impacts on the Hōkio Stream, and this is being dealt with through the Leachate BPO project.

Elevated $scBOD_5$ and ammoniacal-N concentrations have been measured at times in groundwater bores being impacted by the leachate-contaminated groundwater plume, and it is possible that the elevated $scBOD_5$ and ammoniacal-N concentrations measured in the Northern Farm Drain are on account of the plume.

[1] Now superseded by the Australian and New Zealand Water Quality Guidelines 2018 (ANZG 2018), however the ANZECC 2000 guideline values are applied in accordance with the resource consent.

Methane was recorded at ten of the bores with concentrations varying from 0.01% to 0.82%. Whilst the highest concentration is significantly lower than the lower explosive limit (5%), there is still a need for sampling staff to take the necessary precautions for gas safety, generally applicable at landfill sites.

Minor concentrations of carbon dioxide were recorded at all bores, with the maximum concentration occurring at bore C2, which was 2.97%. Bore B2, which was 1.01%, had the next highest concentration. Hydrogen sulphide was detected at bores C1, C2ds, D3rd, D6, E1d, G1d, G2s and Xs1, all being at a concentration of 1 ppm, and Bore F1 recorded a concentration at 2 ppm, none of the results being of concern.

The possibility of encountering methane (and hydrogen sulphide) in groundwater bores endorses the need for appropriate health and safety measures to be adopted during monitoring.

The following recommendations are made, based on the results of this reporting period:

- Check that the sampling dates and times are accurately recorded and are provided in the chain of custody forms presented to the laboratory.
- In particular ensure samples to be tested for *E. coli* are couriered to the laboratory as a matter of urgency to allow for testing to occur within recommend timeframes.
- Ensure that the correct detection limits for $scBOD_5$ are used for testing the surface water samples. The trigger limit is 2 mg/L so it must be less than this value.
- Gas sampling of the bores has been recorded on days different from when the groundwater sampling was undertaken. In future, the gas sampling needs to be done when groundwater samples are taken, as required by the resource consent conditions.
- Given that a second consecutive quarter lower ammoniacal-N concentration has been recorded (0.96mg/L compared with the median concentration of 112mg/L.) at bore B3s, it is recommended that a water sample be collected from the wetland directly adjacent to the bore when it is next sampled, to further investigate the anomaly within these results.
- Bore D2 appeared to be blocked with sand at the groundwater level and could not be sampled. It should be investigated to determine if it is damaged or if it can be purged to remove the sand. If it is damaged beyond being able to be flushed, it should be replaced

Acronyms / Abbreviations

Acronym / Abbreviation	Full Name
ANZECC	Australian and New Zealand Environment and Conservation Council
ANZECC AE	ANZECC Guidelines for Fresh and Marine Water Quality - Aquatic Ecosystems
ANZECC LDW	ANZECC 2000 Livestock Drinking Water
BPO	Best Practicable Option
CFU	Colony-forming unit
COD	Chemical Oxygen Demand
DGV	Default guideline value
DWSNZ	Drinking Water Standards for New Zealand
DWSNZ GV	Drinking Water Standards for New Zealand - Guideline Values for aesthetic determinants
DWSNZ MAV	Drinking Water Standards for New Zealand – Maximum Acceptable Values
HDC	Horowhenua District Council
HRC	Horizons Regional Council
mbgl	Metres below ground level
NLG	Neighbourhood Liaison Group
PMG	Project Management Group
$scBOD_5$	Soluble carbonaceous Biochemical Oxygen Demand (5-day)
WWTP	Wastewater Treatment Plant

1 Introduction

Horowhenua District Council (HDC) first commissioned Stantec New Zealand (then Montgomery Watson) to carry out environmental reporting for the discharge consent monitoring undertaken at the Levin Landfill site in the early 2000s. Monitoring has been undertaken by contractors every three months at 32 locations, as required by the resource consent conditions (namely for discharge permit ATH-2002003983.02). These sampling locations consist of 27 boreholes penetrating the sand and gravel aquifers; three surface water sampling locations within Hōkio Stream; one surface sampling location along the Northern Farm Drain (previously referenced as the Tatana Drain), and one leachate sampling point, as shown in the Site Plan in Appendix A.

The Levin Landfill site is comprised of three landfill areas: two closed, and unlined landfills and one lined landfill that has now been closed for the disposal of municipal solid waste. The lined landfill area footprint was developed in stages. The lined landfill has been capped with a permanent clay capping (0.7 m thick) on all sides.

The Levin Landfill site is located above two identified aquifers, a shallow sand aquifer and a deeper gravel aquifer, which are separated by an aquiclude. The shallow aquifer is unconfined, has a low to moderate permeability, and flows in a northerly direction. The deeper gravel aquifer is a confined to semi-confined aquifer. There is also an upward flow gradient from the deep aquifer to the shallow aquifer. Horizons Regional Council (HRC) hydrology staff advises that "*the general confined groundwater flow direction is towards the west*" (i.e., from the ranges to the coast). Groundwater quality in the area is highly variable because of interaction with peat deposits that are prevalent in the area, localised effects such as from grazing activities, droppings from scavenging birds and from nitrogen-fixing plants such as gorse.

Since July 2010 groundwater has been tested for dissolved metals and nutrients, rather than for total concentrations of these parameters.

A review of the resource consent conditions was finalised in December 2019. Changes have been made to some of the surface water and groundwater monitoring conditions and HDC has acted on all the changes. Sampling since the January 2021 sampling round has been in line with previous monitoring, but different reference parameters have been applied to assess the surface water sampling results, as required by the current consent conditions.

This report presents the results for the November 2025 - January 2026 quarterly monitoring period.

Laboratory detection limits are provided for all test results, which are attached in Appendix B.

2 Surface and Groundwater Monitoring

2.1 Sample Analyses

Surface water samples were collected by Local Waters (HDC's in-house sampling team) on 26 January 2026, with all samples being received by the Eurofins ELS Ltd laboratory in Lower Hutt, Wellington less than 24 hours after sampling.

Groundwater samples were collected by the Local Waters Team on 26 and 27 January, again with the samples being received by the Eurofins ELS Ltd laboratory. Two sample times were not stated on the Eurofin Laboratory reports and so this information is unknown. Approximately two thirds of the samples were received at the laboratory more than 24 hours after sampling.

Accurate recording of sampling times is important, as is the furnishing of this information to the laboratory so that it can be recorded on the laboratory sheets. It is not clear where the source of error lies, but this matter needs to be worked through to provide accurate data.

The monitoring schedule for July 2025 - April 2028 is summarised in Appendix C. From July 2019, *E. coli* counts analyses have been included within the indicator and comprehensive analytical suites, as agreed by HDC with HRC. This means that *E. coli* counts will be assessed more frequently throughout each year, as compared to the past monitoring regime.

Note that, following the revision of the resource consent conditions which were approved in December 2019, 5-day soluble carbonaceous Biochemical Oxygen Demand ($scBOD_5$) and soluble mercury have each been added to the indicator and comprehensive suites of parameters, and *E. coli* added to the comprehensive suite of parameters. The $scBOD_5$ and *E. coli* parameters replace BOD_5 and faecal coliforms, respectively. Monitoring of these additional parameters began with the April 2020 sampling round.

Table 2-1: Test Parameters

Type	Indicator Parameters	Comprehensive Parameters
Physico-chemical characteristics	pH, Electrical Conductivity	pH, Electrical Conductivity, Alkalinity, Total Hardness, Suspended Solids
Oxygen demand	Chemical Oxygen Demand (COD), $scBOD_5$**	COD, $scBOD_5$**
Nutrients*	Nitrate nitrogen, Ammoniacal-nitrogen	Nitrate nitrogen, Ammoniacal-nitrogen, Dissolved Reactive Phosphorus, Sulphate
Metals*	Aluminium, Manganese, Nickel, Lead, Mercury**	Aluminium, Arsenic, Cadmium, Chromium, Copper, Iron***, Magnesium, Manganese, Nickel, Lead, Zinc, Mercury**
Other elements	Boron, Chloride	Boron, Calcium, Chloride, Potassium, Sodium***
Biological+	*E. coli*	*E. coli*
Organics	Not required	Total organic carbon, total phenols, volatile acids

* Analyses performed for nutrients and metals are for dissolved rather than total concentrations.

** $scBOD_5$ and soluble mercury added as per revised consent conditions for Discharge Permit ATH-2002003983.02, December 2019.
*** Iron and sodium are tested at certain groundwater bores only.
+ *E.coli* added from December 2019 onwards, with first sampling in April 2020 (see Appendix C).

Those chemical constituents for which concentrations were below laboratory detection limits during the reporting period have had results set at 50% of the laboratory detection limit, which is then used to calculate a median value for annual reporting purposes. This is standard practice when dealing with chemical concentrations in water, where the parameter is below the laboratory detection limit.

2.2 Background Groundwater Quality

The background (natural) quality of the groundwater up-gradient from the landfill site is not subject to any consent conditions. However, for comparison purposes, both the Australian and New Zealand Environment and Conservation Council 2000 Livestock Drinking Water (ANZECC LDW) trigger values and the Drinking Water Standards for New Zealand (DWSNZ) guidelines are regularly used to benchmark the quality of water up-gradient from the landfill site.

Groundwater samples were collected from the two background bores situated hydraulically up-gradient from both the new and old landfills to the southeast of the site in January 2026 (bores G1s and G1d, see Site Plan, Appendix A). These two bores were constructed in late 2009 to sample background water quality from the two main hydrogeological units. Bores D5, F2 and F3 are also included in the background table as they are near the southern boundary of the landfill site (and further west) and unlikely to be impacted by landfill activities. A full laboratory report containing analytical results is presented in Appendix B and the historical graphs are presented in Appendix D.

For comparison purposes, the results for bores G1s, D1, F2 and F3 are compared against the ANZECC LDW trigger values, since they are all shallow bores and the results from bore G1d are compared against the DWSNZ guidelines, since it is a deep aquifer bore.

The results for the January 2026 monitoring round are presented in Table 2-2.

None of the parameters for the shallow background bores (i.e., G1s, D5, F2 and F3) exceeded the ANZECC LDW trigger values, and none of the parameters for the deep aquifer background bore (i.e., G1d) exceeded the DWSNZ MAVs.

Background bore G1s consistently records elevated concentrations of a range of parameters. Overall, monitoring results at G1s indicate that it is likely modified or impacted by anthropogenic activities and therefore may not be suitable to use as reliable ‘control’ location for background water quality in the future. This matter was reviewed as part of the previous Annual Report, with the recommendation that bores F2, F3 and D5 be used as the primary background reference bores for shallow groundwater.

Table 2-2: Background Monitoring Results for January 2026

Determinant	Units	DWSNZ MAV[2]	ANZECC LDW[3]	G1s	G1d	D5	F2	F3
Sampling date				27/01/26	27/01/26	n/p	27/01/26	27/01/26
Water Level	mbgl	-	-	14.52	14.97	10.39	3.47	5.9
pH	pH units	7 to 8.5*	6 to 9	6.4	7	7.5	7.3	7.7
Conductivity	mS/m	-	-	27.1	25	27.5	23.2	20.2
COD	mg/L	-	-	77	*7.5*	20	32	25
$scBOD_5$	mg/L	-	-	*1.5*	*1.5*	*3*	*0.5*	*0.5*
E. coli	CFU/100ml	NIL	100	2	ND	ND	2	ND
Chloride	mg/L	250*	-	30	27.6	31.5	23.7	17.7
Nitrate-N	mg/L	11.3	90.3	*0.005*	*0.005*	*0.005*	0.23	1.44
Ammoniacal-N	mg/L	1.17	-	0.14	0.13	0.14	0.07	0.06
Sodium	mg/L	200*	-	*0.005*	n/r	n/r	n/r	17.5
Dissolved Aluminium	mg/L	0.1*	5	0.492	0.002	0.003	0.004	0.022
Dissolved Boron	mg/L	1.4	5	0.03	0.031	0.006	0.034	0.021
Dissolved Iron	mg/L	0.2*	-	4.9	n/r	n/r	n/r	0.013
Dissolved Lead	mg/L	0.01	0.1	0.0017	*0.00025*	*0.00025*	0.0007	0.0005
Dissolved Manganese	mg/L	0.4	-	0.0792	0.0526	0.0696	0.0078	0.0007
Dissolved Mercury	mg/L	-	0.002	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*
Dissolved Nickel	mg/L	0.08	1	0.0014	*0.00025*	*0.00025*	*0.00025*	*0.00025*

Notes: *denotes guideline values for aesthetic determinants (GV)

All `<' values have been reported as half the detection limit for statistical purposes and are *expressed in italics*.

ND – not detected.

n/r – not required.

n/p – not provided.

[2] Only G1d is compared against the DWSNZ, since it is the only deep aquifer bore.
[3] Bores G1s, D5, F2 and F3 are compared against the ANZECC LDW since they are all shallow aquifer bores.

2.3 Groundwater Quality Hydraulically Down-Gradient of the New Landfill

Monitoring is carried out within the two main hydrogeological units for bores hydraulically up-gradient of the old landfill and hydraulically down-gradient of the new landfill.

2.3.1 Shallow Aquifer

Bores D1, D2, D3rs, D4, D6, and E1s (refer to Site Plan, Appendix A) are located hydraulically up-gradient of the old landfill, but down-gradient of the new landfill. This means they are not influenced by potential leaching from the old landfill and can act as a warning system for any leaching from the new landfill.

Borehole D5 is located at the south-western corner of the site and is expected to provide an indication of shallow background groundwater quality because it is unlikely to be influenced by either landfill.

It is considered unlikely that leachate from the new landfill would significantly affect groundwater quality due to the leachate collection system which is in place at the new landfill; however, these bores would still provide early warning of any potential problems.

It is noted that bore D3r was replaced in June 2021 with two bores; D3rs, which is a shallow bore and D3rd, which is a deep bore. Both have been sampled from October 2021 onwards.

Bore D2 was ‘dry’ when sampling was attempted. Sampling notes indicated that moist sand was encountered at a depth corresponding to the groundwater table. This is quite unusual for this bore and it indicates that the bore has possibly become damaged and has filled up with sand to the normal level of the water table. It is recommended that this situation be investigated further to determine if it is damaged or if it can be surged to remove the sand. If it is damaged beyond being able to be flushed, it should be replaced.

The results from the January 2026 monitoring round for these bores are presented in Table 2-3 and the results have been compared with the ANZECC LDW trigger values as per the consent conditions. The full laboratory report is included in Appendix B, and the historical graphs are presented in Appendix D.

There were **no exceedances** of the resource consent conditions during the quarterly (January 2026) monitoring round in samples from the shallow aquifer down-gradient of the new landfill.

It is noted that the nitrate-N levels at D6 are similarly lower this monitoring round (6.52 mg/L) though higher than the previous monitoring round. Similarly, the conductivity value (24.2 mS/m) is lower than the annual medium though slightly higher than the previous monitoring round.

Table 2-3: D-Series and E1s Monitoring Bore Results for January 2026

Determinant	Units	ANZECC LDW	D1	D2	D3rs	D4	D5	D6	E1s
Sampling date			27/01/2026	No sample	26/01/2026	26/01/2026	n/p	27/01/26	26/01/26
Water Level	mbgl	-	17.29		n/p	8.67	10.39	16.65	11.86
pH	pH units	6 to 9	6.6		6.2	6.7	7.5	6.9	6.7
Conductivity	mS/m	-	48		20.8	28	27.5	24.2	26
COD	mg/L	-	*7.5*		67	16	20	*7.5*	25
$scBOD_5$	mg/L	-	*1.5*		*3*	*0.5*	*3*	*1.5*	*0.5*
E. coli	CFU/100ml	100	6		*0.5*	*0.5*	*0.5*	*0.5*	8
Chloride	mg/L	-	20.5		16.7	30.1	31.5	14.1	25.1
Nitrate-N	mg/L	90.3	5.09		*0.005*	*0.005*	*0.005*	6.52	*0.005*
Ammoniacal-N	mg/L	-	0.1		0.62	0.21	0.14	0.09	0.21
Sodium	mg/L	-	n/r		16.9	26.3	n/r	n/r	21.5
Dissolved Aluminium	mg/L	5	0.025		0.082	0.008	0.003	0.007	0.011
Dissolved Boron	mg/L	5	0.061		0.032	0.067	0.006	0.062	0.028
Dissolved Iron	mg/L	-	n/r		16.2	3.43	n/r	n/r	3.37
Dissolved Lead	mg/L	0.1	*0.00025*		0.0006	0.0006	*0.00025*	*0.00025*	0.0054
Dissolved Manganese	mg/L	-	0.011		0.453	0.227	0.0696	0.001	0.249
Dissolved Mercury	mg/L	0.002	*0.00025*		*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*
Dissolved Nickel	mg/L	1	0.0009		*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*

Notes:

All `<' values have been reported as half the detection limit for statistical purposes and are expressed in italic. n/r – not required.

n/r – not required.

n/p – not provided.

2.3.2 Deep Gravel Aquifer

Bores E1d, C2dd, E2d, Xd1, and the new replacement bore D3rd all penetrate the deeper gravel aquifer. Deep groundwater flow at the site is assumed to be towards the northwest (as opposed to the regional flow which is towards the west – see section 1).

Boreholes E2d and C2dd are located to the north-northwest of both the landfills and are therefore considered to be hydraulically down-gradient of both landfills. Borehole E1d is located to the southwest of the old landfill, and it is therefore considered that this bore would be unlikely to be affected by either landfill.

Bore Xd1 was installed in late 2020 as a requirement of the reviewed resource consent conditions (December 2019). It is located on the western boundary of the site and slightly down-gradient of the old landfill.

Results for the quarterly (January 2026) compliance monitoring round are presented in Table 2-4. The results have been compared with the DWSNZ as per the requirements of discharge consent ATH-2002003983.02. The full laboratory report is included in Appendix B, and the historical graphs are presented in Appendix D.

There were **four exceedances of the DWSNZ limits** in samples from the deep gravel aquifer during the January 2026 monitoring round, as follows:

- Dissolved manganese concentrations exceeded the DWSNZ MAV of 0.4 mg/L in bores C2dd (0.482 mg/L), E2d (0.518 mg/L), Xd1 (0.976 mg/L) and D3rd (0.428 mg/L).

The results for C2dd (from 1997), for E2d (from 1997) and for D3rd (from October 2021 when sampling started) are within the historical range of concentrations observed. For Xd1 (from March 2021 when sampling started), this result is the highest recorded to date however is still within the range of the historical concentrations observed in the other bores. Dissolved manganese is generally elevated in the deep aquifer bores.

The deep aquifer is separated from the shallow aquifer by an aquiclude, which is a layer of low permeability material that acts as a barrier between the two aquifers. Additionally, there is an up-gradient flow from the deep aquifer to the shallow aquifer, which will prevent contamination of the deep aquifer from overlying groundwater.

So, the exceedances for the deep aquifer bores are not unusual and are extremely unlikely to be related to landfill activities, particularly because of the environmental setting.

It is noted that elevated dissolved aluminium was recorded in bore Xd1 and D3rd. Although the concentrations recorded are below the DWZNS MAV, they are both the maximum values recorded to date with previous concentrations often being below the limit of detection.

Table 2-4: Results for Monitoring Bores within the Deep Aquifer for January 2026

Determinant	Units	DWSNZ MAV	E1d	C2dd	E2d	Xd1	D3rd
Sampling date			26/01/26	27/01/26	27/01/26	n/p	26/01/26
Water Level	mbgl	-	11.73	2.96	5.06	2.24	6.64
pH	pH units	7 to 8.5*	7.7	7.6	7.5	7.8	7.4
Alkalinity	mg $CaCO_3$/L	-	n/r	208	n/r	n/r	n/r
Conductivity	mS/m	-	43.3	53.4	44.4	53.5	51.9
COD	mg/L	-	20	*7.5*	*7.5*	24	18
$scBOD_5$	mg/L	-	*0.5*	*1.5*	*1.5*	*1.5*	*3*
E. coli	CFU/100ml	NIL	ND	ND	ND	ND	ND
Chloride	mg/L	250*	40.4	39.8	42.1	58.4	31.4
Nitrate-N	mg/L	11.3	*0.005*	0.17	*0.005*	*0.005*	*0.005*
Sulphate	mg/L	250*	n/r	0.59	n/r	n/r	n/r
Ammoniacal-N	mg/L	1.17	0.24	0.2	0.4	0.43	0.44
Sodium	mg/L	200*	29	n/r	n/r	n/r	n/r
Dissolved Aluminium	mg/L	0.1*	0.003	0.013	0.011	0.028	0.029
Dissolved Boron	mg/L	1.4	0.07	0.065	0.057	0.063	0.059
Dissolved Iron	mg/L	0.2*	0.033	n/r	n/r	n/r	n/r
Dissolved Lead	mg/L	0.01	0.0007	*0.00025*	0.0008	*0.00025*	0.0007
Dissolved Manganese	mg/L	0.4	0.259	**0.482**	**0.518**	**0.976**	**0.428**
Dissolved Mercury	mg/L	-	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*
Dissolved Nickel	mg/L	0.08	0.0008	0.0031	0.0036	*0.00025*	*0.00025*

Notes:

*Denotes DWSNZ GV

Bold – denotes an exceedance of the DWSNZ MAV

All `<' values have been reported as half the detection limit for statistical purposes and are expressed in *italics*.

ND – not detected.

n/r – not required.

n/p – not provided.

2.4 Impact of Old Landfill on Groundwater Quality

Water sampling is carried out to characterise the groundwater quality in a series of shallow bores situated hydraulically down-gradient from the old unlined landfill.

The Series B boreholes are located within 50 m of the old landfill in a line along its northern edge.

The Series C boreholes are located further down the hydraulic gradient from the old landfill towards Hōkio Beach Road to detect whether leachate is moving off site.

Borehole E2s is located northwest of the old landfill to detect any leachate moving directly towards the nearest house down-stream of the site.

Bore G2S was installed in late 2009 and is located to the north of the landfill site, hydraulically down-gradient of the old landfill by Hōkio Beach Road and the entrance road to the landfill.

Bores Xs1 and Xs2 are located along Hōkio Beach Road, within the road reserve. Bore Xs1 is adjacent to the Northern Farm property and bore Xs2 is next to the driveway leading to a Council-owned property. Bore Xs2 is hydraulically upgradient of the old landfill (see Site Plan, Appendix A).

The results from the quarterly (January 2026) consent monitoring round for these bores are presented in Table 2-5 and have been compared with the ANZECC LDW trigger values as per the requirements of discharge consent ATH-2002003983.02. The full laboratory report is included in Appendix B, and the historical graphs are presented in Appendix D.

There were **two exceedances** of the ANZECC LDW trigger values for the shallow boreholes down-gradient of the old landfill during the January 2026 monitoring round as follows:

- *E. coli* concentrations exceeded the ANZECC LDW of 100 CFU/100 ml in bores B1 (200 CFU/100 ml) and C1 (2000 CFU/100 ml).

Bore B1 has occasionally exceeded the trigger value for *E. coli*, so this is not an unusual occurrence.

Given that bore C1 is located on the edge of the wetland, the exceedance of *E. coli* recorded is likely due to bird or small animal activity and is unlikely to be associated with the old unlined landfill.

Whilst the shallow groundwater downstream of the old landfill generally meets the resource consent trigger values with the two exceptions noted above, it is well documented that leachate from the old landfill is extending in a plume northward and is impacting the quality of the shallow aquifer. Modelling of the plume has shown that there could be unacceptable future impacts on the Hōkio Stream. This matter is being addressed through the Leachate Best Practicable Option (BPO) project. Progress with that project is being communicated to relevant parties, such as the HRC, Project Management Group (PMG) and Neighbourhood Liaison Group (NLG).

Similarly to last quarter, it is noted that the concentration of ammoniacal-N for bore B3s was 0.96mg/L which is significantly lower than the median concentration of 112mg/L. As such, this is again considered an anomaly. It is considered unusual to have recorded two low results consecutively. Therefore, it is recommended to carry out a water sample of the wetland directly adjacent to the bore, when the bore is next sampled, to investigate this further.

Table 2-5: Monitoring Results for Shallow Boreholes Down-Gradient from the Old Landfill for January 2026

Determinant	Units	ANZECC LDW	E2s	B1	B2	B3s	C1	C2	C2ds	G2S	Xs1	Xs2
Sampling date			26/01/26	27/01/26	27/01/26	27/01/26	27/01/26	26/01/26	26/01/26	27/01/26	27/01/26	27/01/26
Water level	mbgl	-	5.89	1.37	1.57	0.5	1.27	0.5	2.9	2.48	2.59	0.57
pH	pH units	6 to 9	7.9	6.7	6.90	6.9	6.8	6.8	7.3	8.1	6.7	6.6
Alkalinity	mg $CaCO_3$/L	-	n/r	n/r	730	1230	n/r	1330	727	n/r	n/r	n/r
Conductivity	mS/m	-	34.1	293	250	257	87.6	370	163	162	130	27.3
COD	mg/L	-	18	427	114	176	157	273	109	*7.5*	99	*7.5*
scBOD5	mg/L	-	*0.5*	*3*	*1.5*	28	9	8	*3*	*1.5*	*1.5*	*1.5*
E. coli	CFU/100ml	100	1	**200**	1	*0.5*	**2000**	*0.5*	2	1	21	*0.5*
Chloride	mg/L	-	38.9	478	186	139	108	261	119	311	99.6	34.8
Nitrate-N	mg/L	90.3	0.02	0.02	27.7	0.1	0.29	*0.05*	*0.05*	0.46	*0.005*	1.83
Sulphate	mg/L	1,000	n/r	n/r	10.6	6.48	n/r	17.3	9.8	n/r	n/r	n/r
Ammoniacal-N	mg/L	-	0.32	53.7	131	0.96	22.2	231	1.89	0.12	17.8	0.07
Sodium	mg/L	-	22.9	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r
Dissolved Aluminium	mg/L	5	0.006	1.01	0.029	0.031	0.846	0.094	*0.001*	0.017	0.017	0.081
Dissolved Boron	mg/L	5	0.041	1.65	1.67	1.61	1.24	2.34	1.24	0.57	0.621	0.032
Dissolved Iron	mg/L	-	0.511	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r
Dissolved Lead	mg/L	0.1	0.0007	0.001	0.0024	*0.00025*	0.0018	0.0009	*0.00025*	*0.00025*	*0.00025*	*0.00025*
Dissolved Manganese	mg/L	-	0.323	3.5	3.94	5.2	0.324	0.285	2.74	0.483	1.07	0.193
Dissolved Mercury	mg/L	0.002	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*
Dissolved Nickel	mg/L	1	0.0018	0.0074	0.0033	0.0092	0.0017	0.0082	0.0051	0.0025	0.0024	*0.00025*

Notes:
All `<' values represent a non-detection and have been reported as half the detection limit for statistical purposes and are expressed in italics.
n/r – not required.
Bold – denotes an exceedance of the ANZECC LDW

2.5 Groundwater Quality Down-Gradient of the Irrigation Area

The F-series boreholes intersect the shallow aquifer down-gradient of the area that was used to irrigate leachate from 2004 to October 2008. All leachate is now pumped to the Levin Wastewater Treatment Plant (WWTP). The F1 borehole is located down-gradient of the area where leachate from the new landfill was irrigated. The F2 and F3 boreholes are in an area that was set aside for leachate irrigation but was never used for that purpose. It is expected that bores F2 and F3 would therefore be representative of background groundwater quality.

The results from the F series boreholes are presented in Table 2-6 and have been compared with the ANZECC LDW trigger values, as per discharge consent ATH-2002003983.02. The full laboratory report is included in Appendix B, and the historical graphs are presented in Appendix D.

There were **no exceedances** of the resource consent conditions in samples from these bores during the January 2026 (quarterly) monitoring round.

Table 2-6: Results from Monitoring Bores in the Irrigation Area for January 2026

Determinant	Units	ANZECC LDW	F1	F2	F3
Sampling Date			26/01/26	26/01/26	26/01/26
Water level	mbgl	-	8.42	3.47	5.9
pH	pH units	6 to 9	7.1	7.3	7.7
Conductivity	mS/m	-	50.3	23.2	20.2
COD	mg/L	-	51	32	25
scBOD5	mg/L	-	*0.5*	*0.5*	*0.5*
E. coli	CFU/100ml	100	*0.5*	2	*0.5*
Chloride	mg/L	-	70.5	23.7	17.7
Nitrate-N	mg/L	90.3	1.86	0.23	1.44
Ammoniacal-N	mg/L	-	*0.005*	0.07	0.06
Sodium	mg/L	-	n/r	n/r	17.5
Dissolved Aluminium	mg/L	5	0.009	0.004	0.022
Dissolved Boron	mg/L	5	0.035	0.034	0.021
Dissolved Iron	mg/L	-	n/r	n/r	0.013
Dissolved Lead	mg/L	0.1	0.0006	0.0007	0.0005
Dissolved Manganese	mg/L	-	0.009	0.0078	0.0007
Dissolved Mercury	mg/L	0.002	*0.00025*	*0.00025*	*0.00025*
Dissolved Nickel	mg/L	1	*0.00025*	*0.00025*	*0.00025*

Notes:
All `<' values have been reported as half the detection limit for statistical purposes and are *expressed in italics*
ND – not detected.
n/r – not required.

2.6 Leachate Effluent Results

Leachate effluent from the landfill is not subject to any water quality consent conditions and is sent to the Levin WWTP for treatment. However, for comparison purposes, typical leachate characteristics for landfills, as published by the Waste Management Institute New Zealand (WasteMINZ) *Technical Guidelines for Disposal to Land* (September 2023), have been compared against the leachate quality monitoring results (Table 2-7). The full laboratory report is included in Appendix B, and the historical graphs are presented in Appendix D.

As stated, typical leachate concentrations are derived from tables presented in the WasteMINZ *Technical Guidelines*. The data in those tables originate from seven landfills in New Zealand and date back to between 1998 and 1999. Whilst more updated data could be sought for comparison purposes, the WasteMINZ Guidelines are the latest version, and no updated information has been provided.

Table 2-7 presents the concentrations of monitored parameters for leachate effluent samples collected in January 2026. Note that monthly sampling of leachate was curtailed after the October 2025 sampling round, as has been agreed to by HRC. The sampling is now reverting to the normal quarterly sampling, with samples being tested alternatively each quarter for the comprehensive and indicator suite of parameters.

There was one outlier from the typical leachate characteristics in the January 2026 results.

The outlier was for **lower-than-normal** concentrations, as follows:

- Dissolved mercury was not detected and was therefore less than the minimum typical concentration.

It is noted that phenols have not been tested for in January 2026. It was tested for in the October 2025 sampling round but was not detected.

Table 2-7: Results from Leachate Effluent Monitoring for January 2026

Determinant	Units	Typical Leachate Characteristics* (range)	January 2026
Sampling Date			26/01/26
pH		5.9 - 8.5	8.2
Conductivity	mS/m	308 – 27,900	1,320
COD	mg/L	84 – 5,090	1,820
$scBOD_5$	mg/L	12 – 3,867	69
E. Coli	CFU/100mL	-	*0.5*
Chloride	mg/L	45 – 2,584	872
Nitrate-N	mg/L	0.1 – 50**	0.21
Ammonia-N	mg/L	3.4 – 1,440	1,180
Dissolved Aluminium	mg/L	-	0.651
Dissolved Boron	mg/L	0.54 – 20	4.67
Dissolved Lead	mg/L	0.001 - 0.42	0.0058
Dissolved Manganese	mg/L	0.03 - 45***	1.27
Dissolved Mercury	mg/L	0.0002 – 0.05**	***0.00025***

Determinant	Units	Typical Leachate Characteristics* (range)	January 2026
Dissolved Nickel	mg/L	0.02 – 2.05**	0.104

Notes:

* For Class 1-type landfills, Table 5-5, p60, Technical Guidelines for Disposal to Land, WasteMINZ September 2023

**Data taken from Table 5-4, p59 of the same guideline, for parameters for which no differences in concentrations between the phases of landfill development could be observed

***Data taken from Table 5-4, p59 of the same guideline, for parameters during the methanogenic phase

Bold – denotes a deviation below the typical leachate characteristics range

Bold – denotes a deviation above the typical leachate characteristics range

All `<' values have been reported as half the detection limit for statistical purposes and are expressed in italics

n/r – Not requested.

2.7 Northern Farm Drain

A drain is located on the Northern Farm, previously known as the Tatana Property (see Site Plan in Appendix A), but now owned by HDC. Since July 2015 HDC has agreed to sample surface water from this drain for a selection of parameters that were set by HRC. Four sampling points were selected to represent the top of the drain (SW1), middle of the drain (SW2 and SW3) and lower drain (SW4) respectively.

The revised consent conditions in 2019 reduced the extent of sampling to a single location. This is known as 'TD1' and is the same sampling location as for the previously denoted 'SW3'. The resource consent conditions require six monthly comprehensive and quarterly indicator sampling at TD1. However, HDC has been conducting monthly sampling at TD1, in line with the surface water sampling of the Hōkio Stream. After October 2025, monthly sampling was stopped and quarterly sampling resumed.

Results from the January 2026 sampling round are presented in Table 2-8 and have been compared with the ANZECC Guidelines for Fresh and Marine Water Quality - Aquatic Ecosystems[4] (ANZECC AE) (95%ile) default guideline values (DGVs), as per the revised resource consent conditions.

There have been **two exceedances** of the resource consent conditions from the Northern Farm property at the TD1 location as follows:

- The concentration of $scBOD_5$ (8 mg/L) exceeded the ANZECC AE (95%ile) DGV of 2 mg/L.
- The concentration of ammoniacal-N (12 mg/L) exceeded the ANZECC AE (95%ile) DGV of 2.1 mg/L.

It is well-documented that a plume of leachate originating from the old landfill is affecting the water quality of shallow groundwater, including that intercepted by the Northern Farm Drain.

Bores C1 and C2 have elevated ammoniacal-N concentrations and so contaminated groundwater could be the cause the elevated ammoniacal-N concentrations in the drain.

[4]Australian and New Zealand Guidelines for Fresh and Marine Water Quality - Aquatic Ecosystems (AE), Australian and New Zealand Environment and Conservation Council (ANZECC), Canberra, Australia, 2000

The issue of leachate affecting the groundwater that daylights into the Northern Farm Drain is being addressed through the Leachate BPO project, which has been discussed with HRC, the PMG and the NLG.

It is noted that phenols were not tested for at the Northern Farm Drain sampling site in January 2026. The test result for October 2025 was less than the level of detection.

Table 2-8: Northern Farm Drain Monitoring Results for January 2026

Determinant	Units	ANZECC AE DGV (95%ile species protection)	TD1 (formerly SW3)
Sampling date			26/01/26
pH	pH units	-	7.2
Conductivity	mS/m	-	75.7
COD	mg/L	-	78
scBOD5	mg/L	2	**8**
E-Coli	CFU/100ml	-	100
Chloride	mg/L	-	61.3
Nitrate-N	mg/L	0.16	0.02
Ammoniacal-N	mg/L	2.1	**12**
Dissolved Aluminium	mg/L	0.055	0.009
Dissolved Boron	mg/L	-	0.157
Dissolved Lead	mg/L	0.0034	*0.00025*
Dissolved Manganese	mg/L	1.9	0.97
Dissolved Mercury	mg/L	0.0006	*0.00025*
Dissolved Nickel	mg/L	0.011	0.0012

Notes:
Bold – denotes an exceedance of the ANZECC AE DGV for 95%ile species protection
All `<' values have been reported as half the detection limit for statistical purposes and are expressed in italics

2.8 Hōkio Stream

Surface water grab samples are obtained from Hōkio Stream at sites HS1A, HS2 and HS3 (refer to Appendix A) to investigate whether groundwater containing leachate is having an adverse environmental effect on the stream. Site HS1A is situated up-stream of the old landfill, HS2 is situated alongside the old landfill and up-stream of the Northern Farm Drain discharge, and HS3 is located approximately 50 m down-stream of the landfill site property boundary and the Northern Farm Drain discharge. Samples from these monitoring locations on Hōkio Stream used to be analysed for a comprehensive suite of parameters every month (as shown in Appendix C), but after October 2025 monthly sampling was stopped and quarterly sampling resumed, as allowed for under the consent conditions and agreed with HRC.

Results from the January 2026 monitoring round are presented in Table 2-9 and have been compared with the ANZECC AE (95%ile) DGVs, as per the revised resource consent conditions (2019). Sampling of HS1A commenced in April 2020.

There were **six exceedances** in two monitored parameters of the resource consent conditions in samples from the Hōkio Stream as follows:

- The concentration of scBOD5 in HS1A, HS2, HS3 (3mg/L in all samples) exceeded the ANZECC AE (95%ile) DGV of 2 mg/L. The level of detection applied to $scBOD_5$ at HS1A, HS2 and HS3 was such that, even at half the detection level (i.e., 3 mg/L), the concentration exceeded the ANZECC AE (95%ile) DGV of 2 mg/L.
- The concentration of dissolved aluminium in HS1A, HS2, HS3 (0.175 mg/L, 0.223 mg/L and 0.269 mg/L respectively) exceeded the ANZECC AE (95%ile) DGV of 0.055 mg/L.

It is noted that the concentrations of aluminium recorded is more elevated than the results recorded in recent monitoring rounds.

For this monitoring period overall, the differences in monitoring results between the sites are generally marginal and for most determinants there is little change in concentrations between upstream and downstream sites on the Hōkio Stream.

Table 2-9: Hōkio Stream Monitoring Results for January 2026

Determinant	Units	ANZECC AE DGV (95%ile species protection)	Consent Trigger Values (Table C1)	HS1A	HS2	HS3
Sampling date				26/01/26	26/01/26	26/01/26
pH	pH units	-	-	7.5	7.4	7.4
Conductivity	mS/m	-	-	24.5	25.2	25.4
COD	mg/L	-	-	97	58	71
$scBOD_5$	mg/L	2	Monthly Avg. 2	***3***	***3***	***3***
E. coli	CFU/100ml	-	-	500	300	200
Chloride	mg/L	-	-	23.7	24.3	24.5
Nitrate-N	mg/L	0.16	0.16	0.08	0.11	0.12
Ammoniacal-N	mg/L	2.1	Max. 2.1 Avg. 0.400	0.22	0.48	0.3
Dissolved Aluminium	mg/L	0.055	Med. 0.055	**0.175**	**0.223**	**0.269**
Dissolved Boron	mg/L	0.370	-	0.036	0.039	0.037
Dissolved Lead	mg/L	0.0034	Med. 0.0034	0.0005	*0.00025*	0.0007
Dissolved Manganese	mg/L	1.9	-	0.087	0.109	0.128
Dissolved Mercury	mg/L	0.0006	Med. 0.0006	*0.00025*	*0.00025*	*0.00025*
Dissolved Nickel	mg/L	0.011	Med. 0.011	0.001	0.0007	0.001

Notes:
Bold – denotes an exceedance of the ANZECC AE 95% protection level trigger values.
Underlined – denotes exceedance of the Consent Trigger Value.
All `<' values have been reported as half the detection limit for statistical purposes and are expressed in italic.
n/p – results have not been provided.
n/r – not required

3 Landfill Gas Detection in Monitoring Wells

Condition 4 of Discharge Permit ATH-2002003984.02 (DP 6011) requires that: "…*groundwater monitoring wells shall be sampled for landfill gas when groundwater samples are taken from the wells. As a minimum, sampling shall be undertaken for methane, carbon dioxide and oxygen*…"

Appendix E summarises the results of landfill gas monitoring undertaken on 23 January 2026.

The gas monitoring of the groundwater bores was not done on the same day that sampling of bores occurred. As has been mentioned in past reports, it is important for the gas monitoring to be done when the groundwater sampling is done, as is required by the resource consent condition, and primarily as a safety measure.

The gas monitoring results show the following:

- Methane was recorded at ten of the bores with concentrations varying from 0.01% to 0.82%. This is usual since methane is frequently detected in very low concentrations. Whilst the highest concentration is significantly lower than the lower explosive limit (5%), there is still a need for sampling staff to take the necessary precautions for gas safety, generally applicable at landfill sites.
- Minor concentrations of carbon dioxide were recorded at all bores, with the maximum concentration occurring at bore C2, which was 2.97%. Bore B2, which was 1.01%, had the next highest concentration.
- Hydrogen sulphide was detected at bores C1, C2ds, D3rd, D6, E1d, G1d, G2s and Xs1, all being at a concentration of 1 ppm, and bore F1 recorded a concentration at 2 ppm, none of the results being of concern.
- The landfill gas levels in October 2025 are not significantly different from the previous sampling rounds' observations. Gas results may vary due to season variations (e.g., different ground temperatures and/or groundwater levels) or may be related to prevailing weather conditions (e.g., different air pressures).

Despite the absence of methane this monitoring round, there is always a possibility of encountering it (and hydrogen sulphide) in the groundwater bores, which endorses the need for appropriate health and safety measures to be adopted during monitoring. No smoking should be permitted when personnel undertake groundwater sampling and when in the vicinity of the groundwater monitoring wells, or in fact anywhere else on the Levin Landfill site. For sake of safety a personal gas detector should be worn by all staff when working in the vicinity of the landfill.

4 Sampling Quality Control and Assurance

The landfill extends over a significant area and there are many sampling locations. However, it is important that the time span of the sampling period is kept as short as possible because more infrequent (or erratic) sampling can make it difficult to compare results between rounds and determine trends at individual monitoring locations.

Surface water samples were collected over one day in January 2026. All samples were delivered to the laboratory within a 24-hour period after sampling.

Groundwater samples were collected over two days in January 2026, which is commendable, given the number of samples requiring collection. Two sample times were not stated on the laboratory reports and so this information is unknown. About two thirds of the samples were not delivered to the laboratory within a 24-hour period after sampling. It is important that the samples are received at the laboratory within 24 hours of sampling to preserve them for testing of *E. coli*.

Accurate recording of sampling times is important, as is the furnishing of this information to the laboratory so that it can be recorded on the laboratory sheets.

5 Consent Compliance

Discharge permit ATH-2002003983.02 states that quarterly and annual monitoring results for the shallow groundwater aquifer (sand aquifer) shall comply with the ANZECC LDW trigger values, and samples from the deep groundwater (gravel aquifer) shall comply with the applicable DWSNZ values. Furthermore, samples taken from surface water bodies shall comply with ANZECC AE (95%ile) DGVs. Should any parameters exceed these standards, the permit holder shall report to the Regional Council as soon as practicable on the significance of the results and, where the change can be attributed to the influence of landfill leachate, consult with the Regional Council to determine if further investigations or remedial measures are required.

Background Groundwater Quality

The quality of the natural background groundwater up-gradient from the landfill site is not subject to any consent conditions, so there are no non-compliances with respect to the background groundwater quality results.

None of background shallow bores had parameters that exceeded the ANZECC LDW trigger values, and the deep aquifer background bore had no parameters exceeding the DWSNZ MAV limits.

Overall, monitoring results at G1s indicate that it is likely modified or impacted by anthropogenic activities and therefore may not be suitable to use as reliable ‘control’ location for background water quality. This matter was reviewed as part of the 2023 – 2024 Annual Report, with the recommendation that bores F2, F3 and D5 be used as the primary background reference bores for shallow groundwater, which has been done in this report.

Shallow Aquifer and Irrigation Area

There were **no exceedances** of the resource consent conditions during the quarterly (January 2026) monitoring round in samples from the shallow aquifer down-gradient of the new landfill.

There were **no exceedances** of the resource consent conditions during this quarterly (January 2026) sampling round for samples obtained from bores within the old irrigation area.

There were **two exceedances** of consent conditions hydraulically down-gradient of the old landfill during this quarterly (January 2026) monitoring period, as follows:

- *E. coli* concentrations exceeded the ANZECC LDW of 100 CFU/100 ml in bores B1(200 CFU/100 ml) and C2 (2000 CFU/100 ml).

Deeper Gravel Aquifer

There were **four exceedances of the DWSNZ limits** in samples from the deep gravel aquifer during the January 2026 monitoring round, as follows:

- Dissolved manganese concentrations exceeded the DWSNZ MAV of 0.4 mg/L in bores C2dd (0.482 mg/L), E2d (0.518 mg/L), Xd1 (0.976 mg/L) and D3rd 0.428 mg/L).

As noted in section 2.3.2, the exceedances are not unusual and are related to the quality of the groundwater regularly observed with respect to manganese concentrations (for bores C2dd, E2d, Xd1 and D3rd).

These four exceedances do not appear to be attributable to the landfill activities, particularly because there is an aquiclude between the shallow aquifer and the deep aquifer, with a flow gradient from the deep aquifer upwards (i.e., sub-artesian conditions exist).

Leachate Effluent

Leachate effluent from the Levin Landfill is not subject to any water quality consent conditions and is sent to the Levin WWTP for treatment.

There was one outlier from the typical leachate characteristics in the January 2026 results.

The outlier was for **lower-than-normal** concentrations, as follows:

- Dissolved mercury was not detected and was therefore less than the minimum typical concentration.

Northern Farm Drain

There have been **two exceedances** of the resource consent conditions from the Northern Farm Drain at the TD1 location as follows:

- The concentration of $scBOD_5$ (8 mg/L) exceeded the ANZECC AE (95%ile) DGV of 2 mg/L.
- The concentration of ammoniacal-N (12 mg/L) exceeded the ANZECC AE (95%ile) DGV of 2.1 mg/L.

It is well-documented that a plume of leachate originating from the old landfill is affecting the water quality of shallow groundwater, including that intercepted by the Northern Farm Drain.

Bores C1 and C2 have elevated ammoniacal-N concentrations and so contaminated groundwater could be the cause the elevated ammoniacal-N concentrations in the drain.

The issue of leachate affecting the groundwater that daylights into the Northern Farm Drain is being addressed through the Leachate BPO project, which has been discussed with HRC, the PMG and the NLG.

Hōkio Stream

There were **six exceedances** in two monitored parameters of the resource consent conditions in samples from the Hōkio Stream as follows:

- The concentration of scBOD5 in HS1A, HS2, HS3 (3mg/L in all samples) exceeded the ANZECC AE (95%ile) DGV of 2 mg/L.
- The level of detection applied to $scBOD_5$ at HS1A, HS2 and HS3 was such that, even at half the detection level (i.e., 3 mg/L), the concentration exceeded the ANZECC AE (95%ile) DGV of 2 mg/L.
- The concentration of dissolved aluminium in HS1A, HS2, HS3 (0.175 mg/L, 0.223 mg/L and 0.269 mg/L respectively) exceeded the ANZECC AE (95%ile) DGV of 0.055 mg/L.

For this monitoring period overall, the differences in monitoring results between the sites are generally marginal and for most determinants there is little change in concentrations between upstream and downstream sites on the Hōkio Stream.

6 Conclusions

During the November 2025 to January 2026 monitoring period, there were fourteen exceedances of the trigger values set out in the resource consent conditions: two from the shallow aquifer, four from the deeper gravel aquifer, two from the Northern Farm Drain (formerly known as Tatana Property Drain), and the remaining six from surface water monitoring locations along the Hōkio Stream.

Of the fourteen exceedances, six are likely to be unrelated to the landfill activities as follows:

- The four exceedances in the deep aquifer are not unusual and are related to the existing water quality.
- The two exceedances for *E. coli* in the shallow aquifer, likely related to the location of one of the bores within the edge of the wetland and associated bird or small animal activity, and the occurrence of elevated *E. coli* having occurred occasionally in the other bore.

Of the other eight exceedances, there was one each for elevated $scBOD_5$ and ammoniacal-N concentrations in the Northern Farm Drain. Three exceedances in the Hōkio Stream are on account of incorrect levels of detection being applied for $scBOD_5$ testing and so there is no way of telling if the actual concentrations would exceed the trigger level or not. And the remaining three exceedances in the Hōkio Stream are for dissolved aluminum.

Whilst the shallow groundwater downstream of the old landfill meets the resource consent trigger values for all parameters except one sample for *E. coli*, it is well documented that leachate from the old landfill is extending in a plume northward and is impacting the quality of the shallow aquifer. Modelling of the plume has shown that there could be unacceptable future impacts on the Hōkio Stream, and this is being dealt with through the Leachate BPO project.

Elevated $scBOD_5$ and ammoniacal-N concentrations have been measured at times in groundwater bores being impacted by the leachate-contaminated groundwater plume, and it is possible that the elevated $scBOD_5$ and ammoniacal-N concentrations measured in the Northern Farm Drain are on account of the plume.

Methane was recorded at ten of the bores with concentrations varying from 0.01% to 0.82%. Whilst the highest concentration is significantly lower than the lower explosive limit (5%), there is still a need for sampling staff to take the necessary precautions for gas safety, generally applicable at landfill sites.

Minor concentrations of carbon dioxide were recorded at all bores, with the maximum concentration occurring at bore C2, which was 2.97%. Bore B2, which was 1.01%, had the next highest concentration. Hydrogen sulphide was detected at bores C1, C2ds, D3rd, D6, E1d, G1d, G2s and Xs1, all being at a concentration of 1 ppm, and Bore F1 recorded a concentration at 2 ppm, none of the results being of concern.

The possibility of encountering methane (and hydrogen sulphide) in groundwater bores endorses the need for appropriate health and safety measures to be adopted during monitoring.

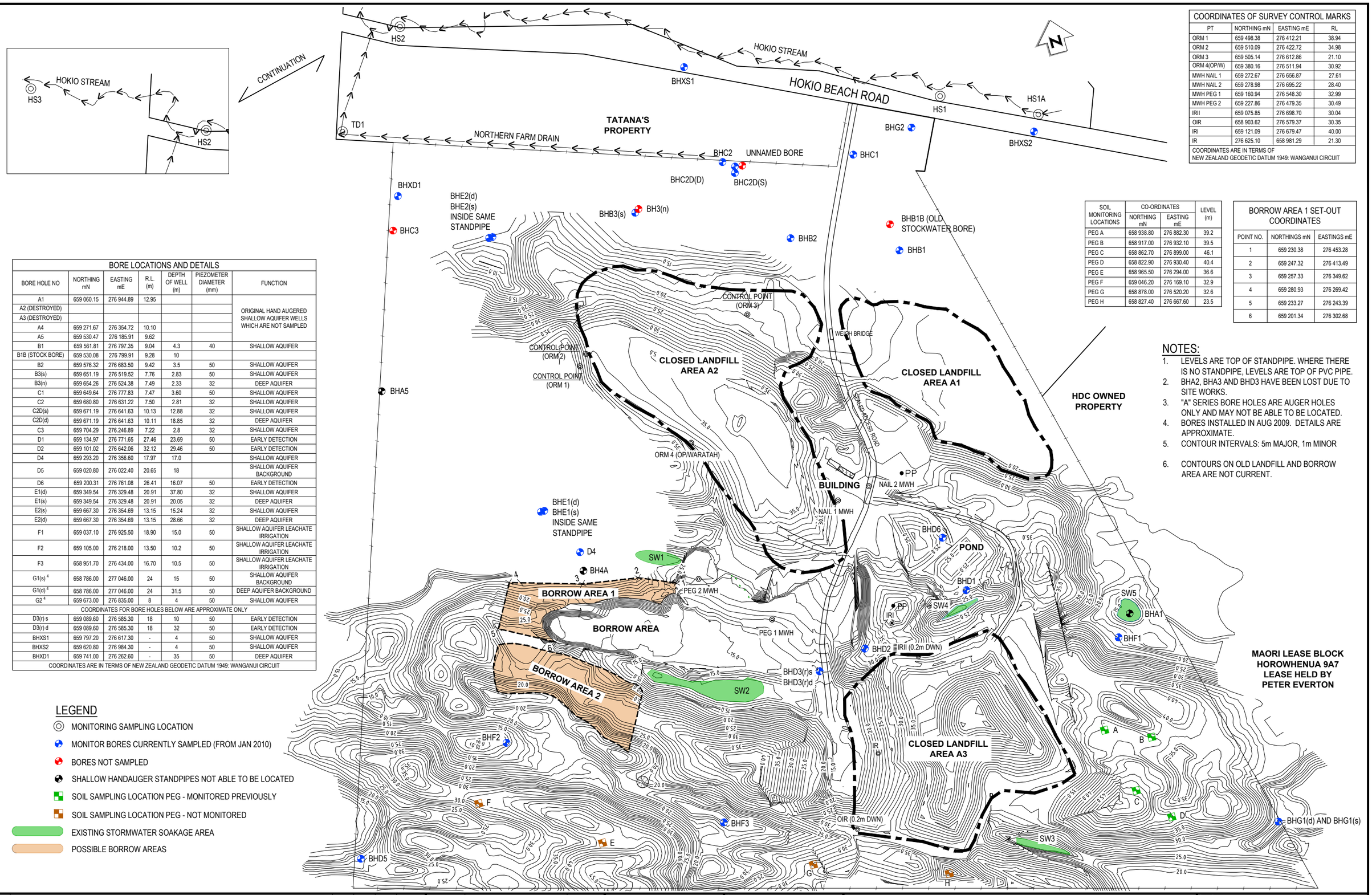
The following recommendations are made, based on the results of this reporting period:

- Check that the sampling dates and times are accurately recorded and are provided in the chain of custody forms presented to the laboratory.
- In particular ensure samples to be tested for *E. coli* are couriered to the laboratory as a matter of urgency to allow for testing to occur within recommend timeframes.

- Ensure that the correct detection limits for $scBOD_5$ are used for testing the surface water samples. The trigger limit is 2 mg/L so it must be less than this value.
- Gas sampling of the bores has been recorded on days different from when the groundwater sampling was undertaken. In future, the gas sampling needs to be done when groundwater samples are taken, as required by the resource consent conditions.
- Given that a second considerably lower ammoniacal-N concentration was recorded at bore B3s, it is recommended that a water sample be collected from the wetland directly adjacent to the bore when it is next sampled, to further investigate the anomaly within these results.
- Bore D2 should be investigated to determine if it is damaged or if it can be flushed to remove the buildup of sand. If it is damaged, it should be replaced.

Appendices

Appendix A Site Plan



COORDINATES OF SURVEY CONTROL MARKS			
PT	NORTHING mN	EASTING mE	RL
ORM 1	659 498.38	276 412.21	38.94
ORM 2	659 510.09	276 422.72	34.98
ORM 3	659 505.14	276 612.86	21.10
ORM 4(OP/W)	659 380.16	276 511.94	30.92
MWH NAIL 1	659 272.67	276 656.87	27.61
MWH NAIL 2	659 278.98	276 695.22	28.40
MWH PEG 1	659 160.94	276 548.30	32.99
MWH PEG 2	659 227.86	276 479.35	30.49
IRII	659 075.85	276 698.70	30.04
OIR	658 903.62	276 579.37	30.35
IRI	659 121.09	276 679.47	40.00
IR	276 625.10	658 981.29	21.30

COORDINATES ARE IN TERMS OF NEW ZEALAND GEODETIC DATUM 1949: WANGANUI CIRCUIT

SOIL MONITORING LOCATIONS	CO-ORDINATES		LEVEL (m)
	NORTHING mN	EASTING mE	
PEG A	658 938.80	276 882.30	39.2
PEG B	658 917.00	276 932.10	39.5
PEG C	658 862.70	276 899.00	46.1
PEG D	658 822.90	276 930.40	40.4
PEG E	658 965.50	276 294.00	36.6
PEG F	659 046.20	276 169.10	32.9
PEG G	658 878.00	276 520.20	32.6
PEG H	658 827.40	276 667.60	23.5

BORROW AREA 1 SET-OUT COORDINATES		
POINT NO.	NORTHINGS mN	EASTINGS mE
1	659 230.38	276 453.28
2	659 247.32	276 413.49
3	659 257.33	276 349.62
4	659 280.93	276 269.42
5	659 233.27	276 243.39
6	659 201.34	276 302.68

BORE LOCATIONS AND DETAILS						
BORE HOLE NO	NORTHING mN	EASTING mE	R.L. (m)	DEPTH OF WELL (m)	PIEZOMETER DIAMETER (mm)	FUNCTION
A1	659 060.15	276 944.89	12.95			ORIGINAL HAND AUGERED SHALLOW AQUIFER WELLS WHICH ARE NOT SAMPLED
A2 (DESTROYED)						
A3 (DESTROYED)						
A4	659 271.67	276 354.72	10.10			
A5	659 530.47	276 185.91	9.62			
B1	659 561.81	276 797.35	9.04	4.3	40	SHALLOW AQUIFER
B1B (STOCK BORE)	659 530.08	276 799.91	9.28	10		
B2	659 576.32	276 683.50	9.42	3.5	50	SHALLOW AQUIFER
B3(s)	659 651.19	276 519.52	7.76	2.83	50	SHALLOW AQUIFER
B3(n)	659 654.26	276 524.38	7.49	2.33	32	DEEP AQUIFER
C1	659 649.64	276 777.83	7.47	3.60	50	SHALLOW AQUIFER
C2	659 680.80	276 631.22	7.50	2.81	32	SHALLOW AQUIFER
C2D(s)	659 671.19	276 641.63	10.13	12.88	32	SHALLOW AQUIFER
C2D(d)	659 671.19	276 641.63	10.11	18.85	32	DEEP AQUIFER
C3	659 704.29	276.246.89	7.22	2.8	32	SHALLOW AQUIFER
D1	659 134.97	276 771.65	27.46	23.69	50	EARLY DETECTION
D2	659 101.02	276 642.06	32.12	29.46	50	EARLY DETECTION
D4	659 293.20	276 356.60	17.97	17.0		SHALLOW AQUIFER
D5	659 020.80	276 022.40	20.65	18		SHALLOW AQUIFER BACKGROUND
D6	659 200.31	276 761.08	26.41	16.07	50	EARLY DETECTION
E1(d)	659 349.54	276 329.48	20.91	37.80	32	SHALLOW AQUIFER
E1(s)	659 349.54	276 329.48	20.91	20.05	32	DEEP AQUIFER
E2(s)	659 667.30	276 354.69	13.15	15.24	32	SHALLOW AQUIFER
E2(d)	659 667.30	276 354.69	13.15	28.66	32	DEEP AQUIFER
F1	659 037.10	276 925.50	18.90	15.0	50	SHALLOW AQUIFER LEACHATE IRRIGATION
F2	659 105.00	276 218.00	13.50	10.2	50	SHALLOW AQUIFER LEACHATE IRRIGATION
F3	658 951.70	276 434.00	16.70	10.5	50	SHALLOW AQUIFER LEACHATE IRRIGATION
G1(s) [4]	658 786.00	277 046.00	24	15	50	SHALLOW AQUIFER BACKGROUND
G1(d) [4]	658 786.00	277 046.00	24	31.5	50	DEEP AQUIFER BACKGROUND
G2 [4]	659 673.00	276 835.00	8	4	50	SHALLOW AQUIFER
COORDINATES FOR BORE HOLES BELOW ARE APPROXIMATE ONLY						
D3(r) s	659 089.60	276 585.30	18	10	50	EARLY DETECTION
D3(r) d	659 089.60	276 585.30	18	32	50	EARLY DETECTION
BHXS1	659 797.20	276 617.30	-	4	50	SHALLOW AQUIFER
BHXS2	659 620.80	276 984.30	-	4	50	SHALLOW AQUIFER
BHXD1	659 741.00	276 262.60	-	35	50	DEEP AQUIFER
COORDINATES ARE IN TERMS OF NEW ZEALAND GEODETIC DATUM 1949: WANGANUI CIRCUIT						

LEGEND

- MONITORING SAMPLING LOCATION
- MONITOR BORES CURRENTLY SAMPLED (FROM JAN 2010)
- BORES NOT SAMPLED
- SHALLOW HANDAUGER STANDPIPES NOT ABLE TO BE LOCATED
- SOIL SAMPLING LOCATION PEG - MONITORED PREVIOUSLY
- SOIL SAMPLING LOCATION PEG - NOT MONITORED
- EXISTING STORMWATER SOAKAGE AREA
- POSSIBLE BORROW AREAS

NOTES:

1. LEVELS ARE TOP OF STANDPIPE. WHERE THERE IS NO STANDPIPE, LEVELS ARE TOP OF PVC PIPE.
2. BHA2, BHA3 AND BHD3 HAVE BEEN LOST DUE TO SITE WORKS.
3. "A" SERIES BORE HOLES ARE AUGER HOLES ONLY AND MAY NOT BE ABLE TO BE LOCATED.
4. BORES INSTALLED IN AUG 2009. DETAILS ARE APPROXIMATE.
5. CONTOUR INTERVALS: 5m MAJOR, 1m MINOR
6. CONTOURS ON OLD LANDFILL AND BORROW AREA ARE NOT CURRENT.

DO NOT SCALE - IF IN DOUBT, ASK

ORIGINAL SIZE A1

REV	REVISIONS	DRN	CHK	APP	DATE
H	FOR INFORMATION - CLOSED LANDFILL AREAS NAMED	BCJ	PSL	PSL	30.10.25
G	FOR INFORMATION - TATANA DRAIN RENAMED & INDICATED WHICH WELLS ARE NO LONGER SAMPLED	BCJ	PSL	PSL	25.06.25
F	FOR INFORMATION - FUTURE LANDFILL STAGES REMOVED AND LEGEND UPDATED	BCJ	PSL	PSL	23.09.24
E	FOR INFORMATION - BHD3(r)s AND BHD3(r)d ADDED, AND CONTOURS UPDATED FROM JULY 2021 SURVEY	BCJ	PSL	PSL	24.09.21
D	FOR INFORMATION - BORROW AREA 2 RELOCATED, DEFINED AREAS OF FUTURE STAGES 1B, 4 AND 5	BCJ	PSL	PSL	01.06.21
C	FOR INFORMATION - BORROW AREA AND LANDFILL AREA UPDATES AND BORE HOLES AND SAMPLING LOCATIONS ADDED FOR HOKIO STREAM AND TATANA DRAIN	BCJ	PSL	PSL	24.03.21
B	FOR INFORMATION - BORROW AREA AND LANDFILL AREA UPDATES	BCJ	PSL	PSL	22.09.20
A	FOR INFORMATION	BCJ	PSL	PSL	26.08.19

SURVEYED	MWH	
DESIGNED	N/A	-
DRAWN	Brent James	08.2019
CAD REVIEW	Brent James	30.10.25
APPROVED	Phil Landmark	30.10.25
PROF REGISTRATION:		

Stantec

Client:

HOROWHENUA DISTRICT COUNCIL
LEVIN LANDFILL

MONITORING BORES, SOIL SAMPLING LOCATIONS & BORROW AREAS
SITE PLAN, LOCATION AND DETAILS

Status Stamp: **FOR INFORMATION ONLY**
Date Stamp: **30.10.25**
Scales: 1:2000 (A1) 1:4000 (A3)
Drawing No.: 310101088-19-001-G001
Rev.: H

26/08/2019 9:35 a.m.

pw:\\stantec-ap-pw.bentley.com:stantec-ap-pw-01\Documents\New Zealand Clients\Horowhenua District Council\310003411 (was 80500724 & 310101088) - Levin Landfill Volumes\2019\General\310101088-19-001-G001

Appendix B Analytical Results

GROUNDWATER SAMPLING RESULTS

eurofins

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-011740-01** REPORT DATE **11/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00015087

Sample Name 423701-0
Product: Ground water
Sampling Point code: WIL-B1
Sampling Point name: Levin B1
Reception Date & Time: 28/01/2026 11:28
Analysis Started on: 28/01/2026
Analysis Ending Date: 11/02/2026
Product Type Ground water
Sampled Date & Time 27/01/2026 08:46
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	478	(± 47.8) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	0.02	(± 0.00) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<6	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	427	(± 43) mg/l	15
NW023	**Conductivity**			
	Conductivity	293	(± 5.9) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	1.01	(± 0.101) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	1.65	(± 0.165) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0010	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	3.50	(± 0.350) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	(± 0.0033) mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0074	(± 0.0034) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	6.7	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	53.7	(± 5.37) mg/l	0.01
ZM0UX Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	200	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

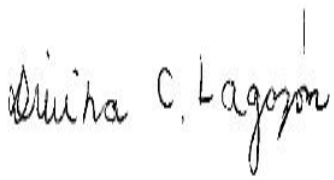
NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature



Divina Cunanan Lagazon Laboratory Supervisor Eurofins ELS Limited

Gordon McArthur Senior Laboratory Analyst Eurofins ELS Limited

Gabriela Carvalhaes Business Unit Manager Eurofins ELS Limited

Vineel Chandra Team Leader Eurofins ELS Limited

Cody Forbes Technical Specialist Eurofins ELS Limited

Angelu Suyat Laboratory Technician Eurofins ELS Limited

EXPLANATORY NOTE

①Test is not accredited
②Test is subcontracted within Eurofins group and is accredited
③Test is subcontracted within Eurofins group and is not accredited
④Test is subcontracted outside Eurofins group and is accredited
⑤Test is subcontracted outside Eurofins group and is not accredited
⑥Test result is provided by the customer and is not accredited
⑦Tested at the sampling point by Eurofins and is not accredited
⑧Tested at the sampling point by Eurofins and is accredited
⑨Test is RLP accredited
⑩Test is subcontracted within Eurofins group and is RLP accredited

N/A means Not Applicable
Not Detected means not detected at or above the Limit of Quantification (LOQ)
LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
✗ (Unsatisfactory) means does not meet the specification
✓ (Satisfactory) means meets the specification
MAV means Maximum Allowable Value

The Customer acknowledges and accepts that: (a) where Eurofins is not responsible for sampling, the test result(s) in this report apply only to the sample as received. Customer is solely responsible for the sampling process and warrants that the sample provided to Eurofins is representative of the lot / batch from which the samples were drawn; and (b) Eurofins expresses no opinion and accepts no liability in respect of the Customer's production process or homogeneity of the product.
The tests are identified by a five-digit code, their description is available on request.
Accreditation does not apply to comments or graphical representations.
Unless otherwise stated, all tests in this analytical report (except for subcontracted tests) are performed at 85 Port Road, Seaview, Lower Hutt, Wellington, NEW ZEALAND.
The laboratory is not responsible for the information provided by the customer which can affect the validity of the results, for example: sampling information such as date/time, field data etc.
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END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-26-NW-009360-01	REPORT DATE	04/02/2026

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00015103

Sample Name	423702-0		
Product:	Ground water		
Sampling Point code:	WIL-B2	**Sampling Point name:**	Levin B2
Reception Date & Time:	28/01/2026 11:40		
Analysis Started on:	28/01/2026	**Analysis Ending Date:**	04/02/2026
Product Type	Ground water	**Sampled Date & Time**	27/01/2026 11:42
Sampler(s)	Client nominated external sampler	**Sampled by Eurofins**	No
Suite	Levin Landfill		

		RESULTS	(UNCERTAINTY)	LOQ
NW003	**Total Alkalinity**			
	Alkalinity total	730	(± 73) mg CaCO3/l	1
NW007	**Chloride**			
	Chloride (Cl)	186	(± 18.6) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	27.7	(± 2.77) mg/l	0.01
NW011	**Sulphate**			
	Sulphate	10.6	(± 1.06) mg/l	0.02
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<3	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	114	(± 11) mg/l	15
NW023	**Conductivity**			
	Conductivity	250	(± 5.0) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.029	(± 0.004) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	1.67	(± 0.167) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0024	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	3.94	(± 0.394) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005

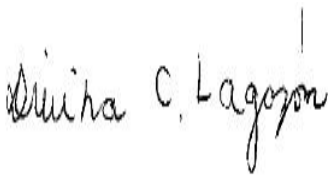
		RESULTS (UNCERTAINTY)		LOQ
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0033	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	6.9	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	131	(± 13.1) mg/l	0.01
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	1	cfu/100 ml	1

LIST OF METHODS

NW003	**Total Alkalinity:** APHA 24th Edition 2320 B	NW007	**Chloride:** APHA 24th Edition 4110 B
NW010	**Nitrate-N:** APHA 24th Edition 4110 B	NW011	**Sulphate:** APHA 24th Edition 4110 B
NW014	**Biochemical Oxygen Demand:** APHA 24th Edition 5210 B	NW020	**Chemical Oxygen Demand:** APHA 24th Edition 5220 D
NW023	**Conductivity:** APHA 24th Edition 2510 B	NW098	**Dissolved Aluminium:** APHA 24th Edition 3125 B mod.
NW103	**Dissolved Boron:** APHA 24th Edition 3125 B mod.	NW110	**Dissolved Lead:** APHA 24th Edition 3125 B mod.
NW113	**Dissolved Manganese:** APHA 24th Edition 3125 B mod.	NW114	**Dissolved Mercury:** APHA 24th Edition 3125 B mod.
NW116	**Dissolved Nickel:** APHA 24th Edition 3125 B mod.	NW195	**pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B
NW676	**Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)	ZM0UX	**Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager, Eurofins ELS Limited



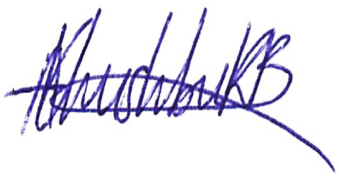
Divina Cunanan Lagazon Laboratory Supervisor, Eurofins ELS Limited

Gordon McArthur Senior Laboratory Analyst, Eurofins ELS Limited

Gabriela Carvalhaes Business Unit Manager, Eurofins ELS Limited

Vineel Chandra Team Leader Eurofins ELS Limited

Cody Forbes Technical Specialist, Eurofins ELS Limited



Khushbu Kumar Laboratory technician, Eurofins ELS Limited

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N/A means Not Applicable
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✗ (Unsatisfactory) means does not meet the specification
✓ (Satisfactory) means meets the specification
MAV means Maximum Allowable Value

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END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-26-NW-009303-01	REPORT DATE	04/02/2026

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00015078

Sample Name	423703-0		
Product:	Ground water		
Sampling Point code:	WIL-B3	**Sampling Point name:**	Levin B3s
Reception Date & Time:	28/01/2026 11:14		
Analysis Started on:	28/01/2026	**Analysis Ending Date:**	04/02/2026
Product Type	Ground water	**Sampled Date & Time**	27/01/2026 11:08
Sampler(s)	Client nominated external sampler	**Sampled by Eurofins**	No
Suite	Levin Landfill		

		RESULTS	(UNCERTAINTY)	LOQ
NW003	**Total Alkalinity**			
	Alkalinity total	1230	(± 123) mg CaCO3/l	1
NW007	**Chloride**			
	Chloride (Cl)	139	(± 13.9) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	0.10	(± 0.01) mg/l	0.01
NW011	**Sulphate**			
	Sulphate	6.48	(± 0.65) mg/l	0.02
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	28	(± 4) mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	176	(± 18) mg/l	15
NW023	**Conductivity**			
	Conductivity	257	(± 5.1) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.031	(± 0.005) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	1.61	(± 0.161) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	5.20	(± 0.520) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	(± 0.0033) mg/l	0.0005

		RESULTS (UNCERTAINTY)		LOQ
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0092	(± 0.0035) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	6.9	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.96	(± 0.10) mg/l	0.01
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW003 **Total Alkalinity:** APHA 24th Edition 2320 B

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW011 **Sulphate:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

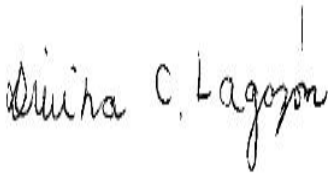
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



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END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008769-01** REPORT DATE **02/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00015089**

Sample Name 423697-0
Product: Ground water
Sampling Point code: WIL-C1
Sampling Point name: Levin C1
Reception Date & Time: 28/01/2026 11:29
Analysis Started on: 28/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 27/01/2026 06:41
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	108	(± 10.8) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	0.29	(± 0.03) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	9	(± 1) mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	157	(± 16) mg/l	15
NW023	**Conductivity**			
	Conductivity	87.6	(± 1.8) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.846	(± 0.085) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	1.24	(± 0.124) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0018	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.324	(± 0.0326) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	(± 0.0033) mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0017	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	6.8	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	22.2	(± 2.22) mg/l	0.01
ZM0UX Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	2000	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

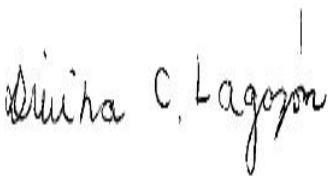
NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature



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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-26-NW-008604-01	REPORT DATE	02/02/2026

Attention Horowhenua District Council
Lab Results
P O Box 642
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Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304214

Purchase Order Number: 144482 - landfill

SAMPLE CODE	812-2026-00014340		
Sample Name	423698-0		
Product:	Ground water		
Sampling Point code:	WIL-C2	**Sampling Point name:**	Levin C2
Reception Date & Time:	27/01/2026 15:30		
Analysis Started on:	27/01/2026	**Analysis Ending Date:**	02/02/2026
Product Type	Ground water	**Sampled Date & Time**	26/01/2026 12:04
Sampler(s)	Client nominated external sampler	**Sampled by Eurofins**	No
Suite	Levin Landfill		

		RESULTS	(UNCERTAINTY)	LOQ
NW003	**Total Alkalinity**			
	Alkalinity total	1330	(± 133) mg CaCO3/l	1
NW007	**Chloride**			
	Chloride (Cl)	261	(± 26.1) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.1	mg/l	0.01
NW011	**Sulphate**			
	Sulphate	17.3	(± 1.73) mg/l	0.02
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	8	(± 1) mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	273	(± 27) mg/l	15
NW023	**Conductivity**			
	Conductivity	370	(± 7.4) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.094	(± 0.010) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	2.34	(± 0.234) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0009	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.285	(± 0.0287) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005

	RESULTS (UNCERTAINTY)		LOQ
NW116 Dissolved Nickel			
Nickel (Ni)	0.0082	(± 0.0034) mg/l	0.0005
NW195 pH (Tested beyond 15 minute APHA holding time)			
pH	6.8	(± 0.2)	0.1
NW676 Ammonia Nitrogen			
Ammonia nitrogen	231	(± 23.1) mg/l	0.01
ZM0UX Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW003 **Total Alkalinity:** APHA 24th Edition 2320 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

NW007 **Chloride:** APHA 24th Edition 4110 B

NW011 **Sulphate:** APHA 24th Edition 4110 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

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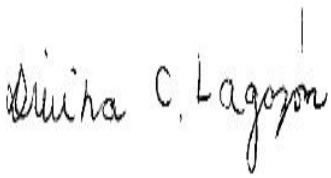

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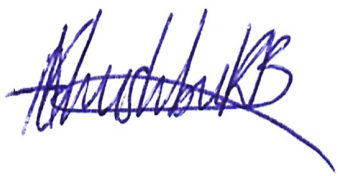
Vineel Chandra Team Leader Eurofins ELS Limited

Cody Forbes Technical Specialist Eurofins ELS Limited



Khushbu Kumar Laboratory technician Eurofins ELS Limited

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LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
✗ (Unsatisfactory) means does not meet the specification
✓ (Satisfactory) means meets the specification
MAV means Maximum Allowable Value

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-26-NW-009359-01	REPORT DATE	04/02/2026

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00015095

Sample Name	423692-0		
Product:	Ground water		
Sampling Point code:	WIL-C2dd	**Sampling Point name:**	Levin C2dd
Reception Date & Time:	28/01/2026 11:39		
Analysis Started on:	28/01/2026	**Analysis Ending Date:**	04/02/2026
Product Type	Ground water	**Sampled Date & Time**	27/01/2026 10:48
Sampler(s)	Client nominated external sampler	**Sampled by Eurofins**	No
Suite	Levin Landfill		

		RESULTS	(UNCERTAINTY)	LOQ
NW003	**Total Alkalinity**			
	Alkalinity total	208	(± 21) mg CaCO3/l	1
NW007	**Chloride**			
	Chloride (Cl)	39.8	(± 3.98) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	0.17	(± 0.02) mg/l	0.01
NW011	**Sulphate**			
	Sulphate	0.59	(± 0.06) mg/l	0.02
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<3	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	<15	mg/l	15
NW023	**Conductivity**			
	Conductivity	53.4	(± 1.1) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.013	(± 0.004) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.065	(± 0.007) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.482	(± 0.0483) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005

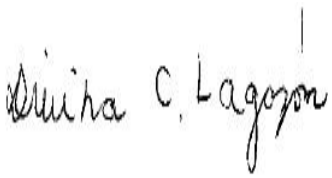
	RESULTS (UNCERTAINTY)		LOQ
NW116 Dissolved Nickel			
Nickel (Ni)	0.0031	(± 0.0033) mg/l	0.0005
NW195 pH (Tested beyond 15 minute APHA holding time)			
pH	7.6	(± 0.2)	0.1
NW676 Ammonia Nitrogen			
Ammonia nitrogen	0.20	(± 0.02) mg/l	0.01
ZMF1E Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW003	**Total Alkalinity:** APHA 24th Edition 2320 B
NW010	**Nitrate-N:** APHA 24th Edition 4110 B
NW014	**Biochemical Oxygen Demand:** APHA 24th Edition 5210 B
NW023	**Conductivity:** APHA 24th Edition 2510 B
NW103	**Dissolved Boron:** APHA 24th Edition 3125 B mod.
NW113	**Dissolved Manganese:** APHA 24th Edition 3125 B mod.
NW116	**Dissolved Nickel:** APHA 24th Edition 3125 B mod.
NW676	**Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)
NW007	**Chloride:** APHA 24th Edition 4110 B
NW011	**Sulphate:** APHA 24th Edition 4110 B
NW020	**Chemical Oxygen Demand:** APHA 24th Edition 5220 D
NW098	**Dissolved Aluminium:** APHA 24th Edition 3125 B mod.
NW110	**Dissolved Lead:** APHA 24th Edition 3125 B mod.
NW114	**Dissolved Mercury:** APHA 24th Edition 3125 B mod.
NW195	**pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B
ZMF1E	**Escherichia coli E <1 >80 cfu/100 ml (0) MI Agar-F:** SMEWW 9222K; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager
Eurofins ELS Limited



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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008605-01** REPORT DATE **02/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304214

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00014343**

Sample Name 423699-0
Product: Ground water
Sampling Point code: WIL-C2ds
Sampling Point name: Levin C2ds
Reception Date & Time: 27/01/2026 15:32
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 12:00
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW003	**Total Alkalinity**			
	Alkalinity total	727	(± 73) mg CaCO3/l	1
NW007	**Chloride**			
	Chloride (Cl)	119	(± 11.9) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	(± 0.00) mg/l	0.01
NW011	**Sulphate**			
	Sulphate	9.80	(± 0.98) mg/l	0.02
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<6	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	109	(± 11) mg/l	15
NW023	**Conductivity**			
	Conductivity	163	(± 3.3) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	<0.002	(± 0.003) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	1.24	(± 0.124) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	2.74	(± 0.274) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005

	RESULTS (UNCERTAINTY)		LOQ
NW116 Dissolved Nickel			
Nickel (Ni)	0.0051	(± 0.0034) mg/l	0.0005
NW195 pH (Tested beyond 15 minute APHA holding time)			
pH	7.3	(± 0.2)	0.1
NW676 Ammonia Nitrogen			
Ammonia nitrogen	1.89	(± 0.19) mg/l	0.01
ZM0UX Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	2	cfu/100 ml	1

LIST OF METHODS

NW003	**Total Alkalinity:** APHA 24th Edition 2320 B	NW007	**Chloride:** APHA 24th Edition 4110 B
NW010	**Nitrate-N:** APHA 24th Edition 4110 B	NW011	**Sulphate:** APHA 24th Edition 4110 B
NW014	**Biochemical Oxygen Demand:** APHA 24th Edition 5210 B	NW020	**Chemical Oxygen Demand:** APHA 24th Edition 5220 D
NW023	**Conductivity:** APHA 24th Edition 2510 B	NW098	**Dissolved Aluminium:** APHA 24th Edition 3125 B mod.
NW103	**Dissolved Boron:** APHA 24th Edition 3125 B mod.	NW110	**Dissolved Lead:** APHA 24th Edition 3125 B mod.
NW113	**Dissolved Manganese:** APHA 24th Edition 3125 B mod.	NW114	**Dissolved Mercury:** APHA 24th Edition 3125 B mod.
NW116	**Dissolved Nickel:** APHA 24th Edition 3125 B mod.	NW195	**pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B
NW676	**Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)	ZM0UX	**Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

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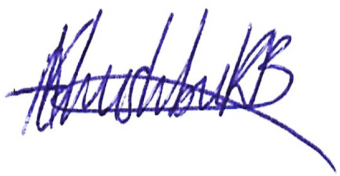

Khushbu Kumar Laboratory technician
Eurofins ELS Limited

Angelu Suyat Laboratory Technician
Eurofins ELS Limited

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-009355-01** REPORT DATE **04/02/2026**

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Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00015074

Sample Name 423706-0
Product: Ground water
Sampling Point code: WIL-D1
Sampling Point name: Levin D1
Reception Date & Time: 28/01/2026 11:14
Analysis Started on: 28/01/2026
Analysis Ending Date: 04/02/2026
Product Type Ground water
Sampled Date & Time 27/01/2026 11:10
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	20.5	(± 2.05) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	5.09	(± 0.51) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<3	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	<15	mg/l	15
NW023	**Conductivity**			
	Conductivity	48.0	(± 1.0) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.025	(± 0.004) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.061	(± 0.007) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0110	(± 0.0035) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0009	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	6.6	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	0.12	(± 0.01) mg/l	0.01
ZM0UX Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	6	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

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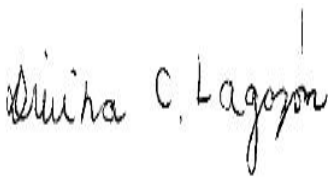

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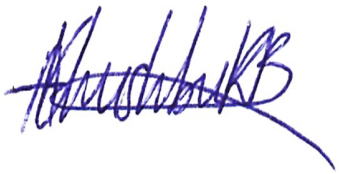
Cody Forbes Technical Specialist Eurofins ELS Limited



Khushbu Kumar Laboratory technician Eurofins ELS Limited

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LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
✗ (Unsatisfactory) means does not meet the specification
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MAV means Maximum Allowable Value

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END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008607-01** REPORT DATE **02/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304214

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00014352**

Sample Name 423834-0
Product: Ground water
Sampling Point code: WIL-D3rd
Sampling Point name: Levin D3rd
Reception Date & Time: 27/01/2026 15:38
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 08:00
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	31.4	(± 3.14) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	(± 0.00) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<6	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	18	(± 2) mg/l	15
NW023	**Conductivity**			
	Conductivity	51.9	(± 1.0) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.029	(± 0.004) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.059	(± 0.007) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0007	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.428	(± 0.0429) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.4	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

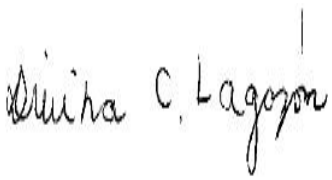
	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	0.44	(± 0.04) mg/l	0.01
ZMF1E Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW007	**Chloride:** APHA 24th Edition 4110 B
NW010	**Nitrate-N:** APHA 24th Edition 4110 B
NW014	**Biochemical Oxygen Demand:** APHA 24th Edition 5210 B
NW020	**Chemical Oxygen Demand:** APHA 24th Edition 5220 D
NW023	**Conductivity:** APHA 24th Edition 2510 B
NW098	**Dissolved Aluminium:** APHA 24th Edition 3125 B mod.
NW103	**Dissolved Boron:** APHA 24th Edition 3125 B mod.
NW110	**Dissolved Lead:** APHA 24th Edition 3125 B mod.
NW113	**Dissolved Manganese:** APHA 24th Edition 3125 B mod.
NW114	**Dissolved Mercury:** APHA 24th Edition 3125 B mod.
NW116	**Dissolved Nickel:** APHA 24th Edition 3125 B mod.
NW195	**pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B
NW676	**Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)
ZMF1E	**Escherichia coli E <1 >80 cfu/100 ml (0) MI Agar-F:** SMEWW 9222K; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager
Eurofins ELS Limited



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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008606-01** REPORT DATE **02/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304214

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00014350**

Sample Name 423835-0
Product: Ground water
Sampling Point code: WIL-D3rs
Sampling Point name: Levin D3rs
Reception Date & Time: 27/01/2026 15:35
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 07:56
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	16.7	(± 1.67) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	(± 0.00) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<6	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	67	(± 7) mg/l	15
NW023	**Conductivity**			
	Conductivity	20.8	(± 0.4) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.082	(± 0.009) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.032	(± 0.005) mg/l	0.005
NW109	**Dissolved Iron**			
	Iron (Fe)	16.2	(± 1.62) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0006	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.453	(± 0.0454) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	(± 0.0033) mg/l	0.0005
NW120	**Dissolved Sodium**			

		RESULTS	(UNCERTAINTY)	LOQ
NW120	**Dissolved Sodium**			
	Sodium (Na)	16.9	(± 1.69) mg/l	0.01
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	6.2	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.62	(± 0.06) mg/l	0.01
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

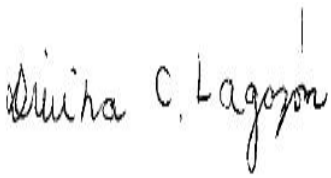
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008594-01** REPORT DATE **02/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
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Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304214

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00014353**

Sample Name 423700-0
Product: Ground water
Sampling Point code: WIL-D4
Sampling Point name: Levin D4
Reception Date & Time: 27/01/2026 15:38
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 09:10
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	30.1	(± 3.01) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	(± 0.00) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<1	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	16	(± 2) mg/l	15
NW023	**Conductivity**			
	Conductivity	28.0	(± 0.6) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.008	(± 0.003) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.067	(± 0.007) mg/l	0.005
NW109	**Dissolved Iron**			
	Iron (Fe)	3.43	(± 0.343) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0006	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.227	(± 0.0229) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	(± 0.0033) mg/l	0.0005
NW120	**Dissolved Sodium**			

		RESULTS (UNCERTAINTY)		LOQ
NW120	**Dissolved Sodium**			
	Sodium (Na)	26.3	(± 2.63) mg/l	0.01
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	6.7	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.21	(± 0.02) mg/l	0.01
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

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NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

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NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

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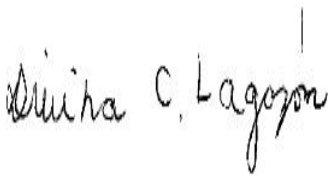

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⑧Tested at the sampling point by Eurofins and is accredited
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N/A means Not Applicable
Not Detected means not detected at or above the Limit of Quantification (LOQ)
LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
✗ (Unsatisfactory) means does not meet the specification
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END OF REPORT

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-26-NW-010389-01	REPORT DATE	07/02/2026

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00305192

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00016872

Sample Name 432045-0
Product: Ground water
Sampling Point code: WIL-D5
Sampling Point name: Levin D5
Reception Date & Time: 30/01/2026 13:57
Analysis Started on: 30/01/2026
Analysis Ending Date: 07/02/2026
Product Type Ground water
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	31.5	(± 3.15) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	(± 0.00) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<6	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	20	(± 2) mg/l	15
NW023	**Conductivity**			
	Conductivity	27.5	(± 0.6) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.003	(± 0.003) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.006	(± 0.003) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0696	(± 0.0077) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.5	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.14	(± 0.01) mg/l	0.01

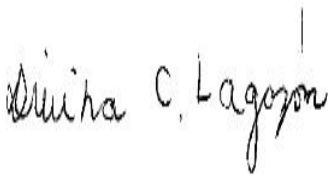
	RESULTS (UNCERTAINTY)		LOQ
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**		
	Escherichia coli	<1 cfu/100 ml	1

LIST OF METHODS

NW007	**Chloride:** APHA 24th Edition 4110 B	NW010	**Nitrate-N:** APHA 24th Edition 4110 B
NW014	**Biochemical Oxygen Demand:** APHA 24th Edition 5210 B	NW020	**Chemical Oxygen Demand:** APHA 24th Edition 5220 D
NW023	**Conductivity:** APHA 24th Edition 2510 B	NW098	**Dissolved Aluminium:** APHA 24th Edition 3125 B mod.
NW103	**Dissolved Boron:** APHA 24th Edition 3125 B mod.	NW110	**Dissolved Lead:** APHA 24th Edition 3125 B mod.
NW113	**Dissolved Manganese:** APHA 24th Edition 3125 B mod.	NW114	**Dissolved Mercury:** APHA 24th Edition 3125 B mod.
NW116	**Dissolved Nickel:** APHA 24th Edition 3125 B mod.	NW195	**pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B
NW676	**Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)	ZM0UX	**Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager
Eurofins ELS Limited



Divina Cunanan Lagazon Laboratory Supervisor
Eurofins ELS Limited

Arvinder Singh Laboratory Supervisor
Eurofins ELS Limited

Gabriela Carvalhaes Business Unit Manager
Eurofins ELS Limited

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-009353-01** REPORT DATE **04/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00015072

Sample Name 423708-0
Product: Ground water
Sampling Point code: WIL-D6
Sampling Point name: Levin D6
Reception Date & Time: 28/01/2026 11:12
Analysis Started on: 28/01/2026
Analysis Ending Date: 04/02/2026
Product Type Ground water
Sampled Date & Time 27/01/2026 09:44
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	14.1	(± 1.41) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	6.52	(± 0.65) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<3	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	<15	mg/l	15
NW023	**Conductivity**			
	Conductivity	24.2	(± 0.5) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.007	(± 0.003) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.062	(± 0.007) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0010	(± 0.0033) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	6.9	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	0.09	(± 0.01) mg/l	0.01
ZM0UX Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

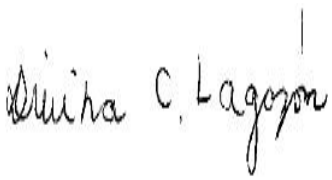
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



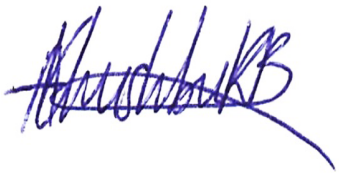
Divina Cunanan Lagazon Laboratory Supervisor Eurofins ELS Limited

Gordon McArthur Senior Laboratory Analyst Eurofins ELS Limited

Gabriela Carvalhaes Business Unit Manager Eurofins ELS Limited

Vineel Chandra Team Leader Eurofins ELS Limited

Cody Forbes Technical Specialist Eurofins ELS Limited



Khushbu Kumar Laboratory technician Eurofins ELS Limited

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008597-01** REPORT DATE **02/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304214

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00014356**

Sample Name 423693-0
Product: Ground water
Sampling Point code: WIL-E1d
Sampling Point name: Levin E1d
Reception Date & Time: 27/01/2026 15:43
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 10:04
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	40.4	(± 4.04) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	(± 0.00) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<1	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	20	(± 2) mg/l	15
NW023	**Conductivity**			
	Conductivity	43.3	(± 0.9) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.003	(± 0.003) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.070	(± 0.008) mg/l	0.005
NW109	**Dissolved Iron**			
	Iron (Fe)	0.033	(± 0.005) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0007	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.259	(± 0.0261) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0008	(± 0.0033) mg/l	0.0005
NW120	**Dissolved Sodium**			

		RESULTS (UNCERTAINTY)		LOQ
NW120	**Dissolved Sodium**			
	Sodium (Na)	29.0	(± 2.90) mg/l	0.01
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.7	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.24	(± 0.02) mg/l	0.01
ZMF1E	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

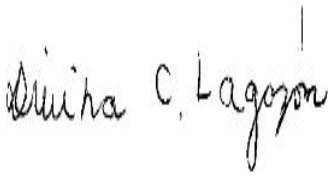
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZMF1E **Escherichia coli E <1 >80 cfu/100 ml (0) MI Agar-F:** SMEWW 9222K; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager, Eurofins ELS Limited



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Cody Forbes Technical Specialist, Eurofins ELS Limited

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END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008595-01** REPORT DATE **02/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304214

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00014354**

Sample Name 423704-0
Product: Ground water
Sampling Point code: WIL-E1s
Sampling Point name: Levin E1s
Reception Date & Time: 27/01/2026 15:41
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 09:51
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	25.1	(± 2.51) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	(± 0.00) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<1	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	25	(± 3) mg/l	15
NW023	**Conductivity**			
	Conductivity	26.0	(± 0.5) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.011	(± 0.004) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.028	(± 0.004) mg/l	0.005
NW109	**Dissolved Iron**			
	Iron (Fe)	3.37	(± 0.337) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0054	(± 0.0034) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.249	(± 0.0251) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	(± 0.0033) mg/l	0.0005
NW120	**Dissolved Sodium**			

		RESULTS (UNCERTAINTY)		LOQ
NW120	**Dissolved Sodium**			
	Sodium (Na)	21.5	(± 2.15) mg/l	0.01
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	6.7	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.21	(± 0.02) mg/l	0.01
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	8	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

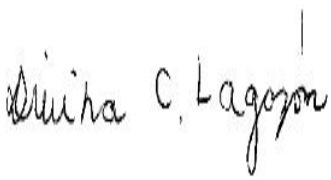
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



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Vineel Chandra Team Leader Eurofins ELS Limited

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-26-NW-009354-01	REPORT DATE	04/02/2026

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00015073

Sample Name	423694-0		
Product:	Ground water		
Sampling Point code:	WIL-E2d	**Sampling Point name:**	Levin E2d
Reception Date & Time:	28/01/2026 11:13		
Analysis Started on:	28/01/2026	**Analysis Ending Date:**	04/02/2026
Product Type	Ground water	**Sampled Date & Time**	27/01/2026 10:21
Sampler(s)	Client nominated external sampler	**Sampled by Eurofins**	No
Suite	Levin Landfill		

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	42.1	(± 4.21) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	(± 0.00) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<3	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	<15	mg/l	15
NW023	**Conductivity**			
	Conductivity	44.4	(± 0.9) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.011	(± 0.004) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.057	(± 0.007) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0008	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.518	(± 0.0520) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0036	(± 0.0034) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.5	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	0.40	(± 0.04) mg/l	0.01
ZMF1E Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZMF1E **Escherichia coli E <1 >80 cfu/100 ml (0) MI Agar-F:** SMEWW 9222K; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited

Divina Cunanan Lagazon Laboratory Supervisor Eurofins ELS Limited

Gordon McArthur Senior Laboratory Analyst Eurofins ELS Limited

Gabriela Carvalhaes Business Unit Manager Eurofins ELS Limited

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-26-NW-008596-01	REPORT DATE	02/02/2026

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4741 Levin
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Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304214

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00014355

Sample Name	423705-0		
Product:	Ground water		
Sampling Point code:	WIL-E2s	**Sampling Point name:**	Levin E2s
Reception Date & Time:	27/01/2026 15:41		
Analysis Started on:	27/01/2026	**Analysis Ending Date:**	02/02/2026
Product Type	Ground water	**Sampled Date & Time**	26/01/2026 11:36
Sampler(s)	Client nominated external sampler	**Sampled by Eurofins**	No
Suite	Levin Landfill		

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	38.9	(± 3.89) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	0.02	(± 0.00) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<1	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	18	(± 2) mg/l	15
NW023	**Conductivity**			
	Conductivity	34.1	(± 0.7) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.006	(± 0.003) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.041	(± 0.005) mg/l	0.005
NW109	**Dissolved Iron**			
	Iron (Fe)	0.511	(± 0.051) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0007	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.323	(± 0.0325) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0018	(± 0.0033) mg/l	0.0005
NW120	**Dissolved Sodium**			

		RESULTS (UNCERTAINTY)		LOQ
NW120	**Dissolved Sodium**			
	Sodium (Na)	22.9	(± 2.29) mg/l	0.01
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.9	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.32	(± 0.03) mg/l	0.01
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	1	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

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NW023 **Conductivity:** APHA 24th Edition 2510 B

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NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

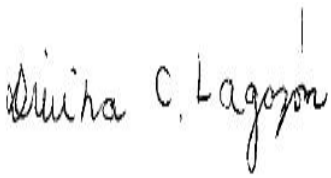
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



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END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008593-01** REPORT DATE **02/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304214

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00014351**

Sample Name 423712-0
Product: Ground water
Sampling Point code: WIL-F1
Sampling Point name: Levin F1
Reception Date & Time: 27/01/2026 15:35
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 10:30
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	70.5	(± 7.05) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	1.86	(± 0.19) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<1	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	51	(± 5) mg/l	15
NW023	**Conductivity**			
	Conductivity	50.3	(± 1.0) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.009	(± 0.003) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.035	(± 0.005) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0006	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0090	(± 0.0035) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.1	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	0.01	(± 0.00) mg/l	0.01
ZM0UX Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

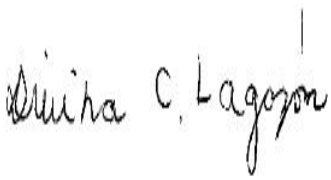
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



Divina Cunanan Lagazon Laboratory Supervisor Eurofins ELS Limited

Gabriela Carvalhaes Business Unit Manager Eurofins ELS Limited

Vineel Chandra Team Leader Eurofins ELS Limited

Cody Forbes Technical Specialist Eurofins ELS Limited

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✓ (Satisfactory) means meets the specification
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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008591-01** REPORT DATE **02/02/2026**

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NEW ZEALAND

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Email labresults@horowhenua.govt.nz

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Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304214

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00014341**

Sample Name 423713-0
Product: Ground water
Sampling Point code: WIL-F2
Sampling Point name: Levin F2
Reception Date & Time: 27/01/2026 15:30
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 06:58
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	23.7	(± 2.37) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	0.23	(± 0.02) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<1	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	32	(± 3) mg/l	15
NW023	**Conductivity**			
	Conductivity	23.2	(± 0.5) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.004	(± 0.003) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.034	(± 0.005) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0007	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0078	(± 0.0034) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.3	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	0.07	(± 0.01) mg/l	0.01
ZM0UX Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	2	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

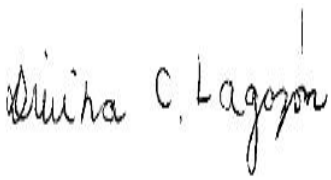
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008592-01** REPORT DATE **02/02/2026**

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Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304214

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00014344**

Sample Name 423714-0
Product: Ground water
Sampling Point code: WIL-F3
Sampling Point name: Levin F3
Reception Date & Time: 27/01/2026 15:32
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 07:25
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	17.7	(± 1.77) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	1.44	(± 0.14) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<1	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	25	(± 3) mg/l	15
NW023	**Conductivity**			
	Conductivity	20.2	(± 0.4) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.022	(± 0.004) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.021	(± 0.004) mg/l	0.005
NW109	**Dissolved Iron**			
	Iron (Fe)	0.013	(± 0.004) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0007	(± 0.0033) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	(± 0.0033) mg/l	0.0005
NW120	**Dissolved Sodium**			

		RESULTS	(UNCERTAINTY)	LOQ
NW120	**Dissolved Sodium**			
	Sodium (Na)	17.5	(± 1.75) mg/l	0.01
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.7	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.06	(± 0.01) mg/l	0.01
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

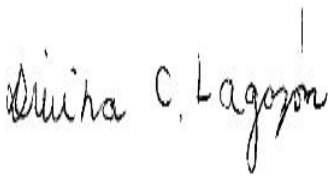
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



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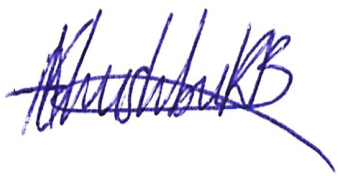

Khushbu Kumar Laboratory technician Eurofins ELS Limited

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END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-009357-01** REPORT DATE **04/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00015090**

Sample Name 423695-0
Product: Ground water
Sampling Point code: WIL-G1D
Sampling Point name: Levin G1D
Reception Date & Time: 28/01/2026 11:30
Analysis Started on: 28/01/2026
Analysis Ending Date: 04/02/2026
Product Type Ground water
Sampled Date & Time 27/01/2026 08:15
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	27.6	(± 2.76) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	(± 0.00) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<3	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	<15	mg/l	15
NW023	**Conductivity**			
	Conductivity	25.0	(± 0.5) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.176	(± 0.018) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.029	(± 0.004) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0018	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0808	(± 0.0087) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.0	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	0.13	(± 0.01) mg/l	0.01
ZMF1E Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

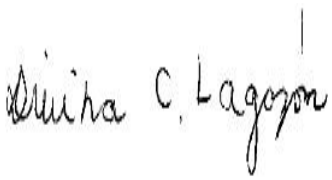
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZMF1E **Escherichia coli E <1 >80 cfu/100 ml (0) MI Agar-F:** SMEWW 9222K; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-009452-01** REPORT DATE **04/02/2026**

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Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

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Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00015104**

Sample Name 423709-0
Product: Ground water
Sampling Point code: WIL-G1S
Sampling Point name: Levin G1S
Reception Date & Time: 28/01/2026 11:40
Analysis Started on: 28/01/2026
Analysis Ending Date: 04/02/2026
Product Type Ground water
Sampled Date & Time 27/01/2026 07:56
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	30.0	(± 3.00) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	(± 0.00) mg/l	0.01
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	77	(± 8) mg/l	15
NW023	**Conductivity**			
	Conductivity	27.1	(± 0.5) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.492	(± 0.049) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.030	(± 0.004) mg/l	0.005
NW109	**Dissolved Iron**			
	Iron (Fe)	4.90	(± 0.490) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0017	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0792	(± 0.0086) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0014	(± 0.0033) mg/l	0.0005
NW120	**Dissolved Sodium**			
	Sodium (Na)	<0.01	mg/l	0.01
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	6.4	(± 0.2)	0.1

		RESULTS (UNCERTAINTY)		LOQ
NW341	**BOD5 - Soluble Carbonaceous**			
	BOD5	<3	mg/l	1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.14	(± 0.01) mg/l	0.01
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	2	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW109 **Dissolved Iron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW120 **Dissolved Sodium:** APHA 24th Edition 3125 B mod.

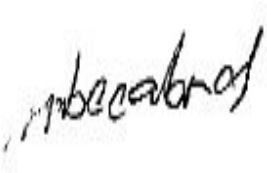
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW341 **BOD5 - Soluble Carbonaceous:** APHA 24th Edition 5210 B

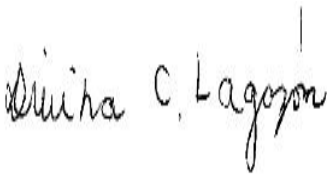
NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature



Marylou Cabral Laboratory Manager, Eurofins ELS Limited



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Gabriela Carvalhaes Business Unit Manager, Eurofins ELS Limited

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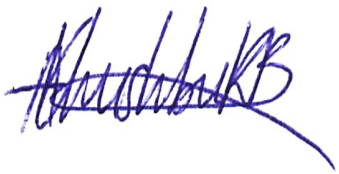

Khushbu Kumar Laboratory technician, Eurofins ELS Limited

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-26-NW-009356-01	REPORT DATE	04/02/2026

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4741 Levin
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Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00015088

Sample Name	423710-0		
Product:	Ground water		
Sampling Point code:	WIL-G2	**Sampling Point name:**	Levin G2s
Reception Date & Time:	28/01/2026 11:29		
Analysis Started on:	28/01/2026	**Analysis Ending Date:**	04/02/2026
Product Type	Ground water	**Sampled Date & Time**	27/01/2026 07:05
Sampler(s)	Client nominated external sampler	**Sampled by Eurofins**	No
Suite	Levin Landfill		

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	311	(± 31.1) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	0.46	(± 0.05) mg/l	0.01
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	<15	mg/l	15
NW023	**Conductivity**			
	Conductivity	162	(± 3.2) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.017	(± 0.004) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.570	(± 0.057) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.483	(± 0.0484) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0025	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	8.1	(± 0.2)	0.1
NW341	**BOD5 - Soluble Carbonaceous**			
	BOD5	<3	mg/l	1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.12	(± 0.01) mg/l	0.01

	RESULTS (UNCERTAINTY)		LOQ
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**		
	Escherichia coli	1 cfu/100 ml	1

LIST OF METHODS

NW007	**Chloride:** APHA 24th Edition 4110 B
NW010	**Nitrate-N:** APHA 24th Edition 4110 B
NW020	**Chemical Oxygen Demand:** APHA 24th Edition 5220 D
NW023	**Conductivity:** APHA 24th Edition 2510 B
NW098	**Dissolved Aluminium:** APHA 24th Edition 3125 B mod.
NW103	**Dissolved Boron:** APHA 24th Edition 3125 B mod.
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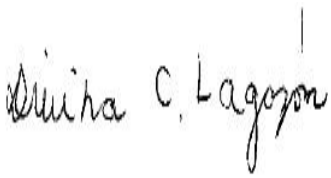
ZM0UX	**Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager, Eurofins ELS Limited



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END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-26-NW-009172-01	REPORT DATE	03/02/2026

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304927

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00016238

Sample Name 423696-0
Product: Ground water
Sampling Point code: WIL-Xd1
Sampling Point name: Levin Xd1
Reception Date & Time: 29/01/2026 14:10
Analysis Started on: 29/01/2026
Analysis Ending Date: 03/02/2026
Product Type Ground water
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	58.4	(± 5.84) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	(± 0.00) mg/l	0.01
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	24	(± 2) mg/l	15
NW023	**Conductivity**			
	Conductivity	53.5	(± 1.1) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.028	(± 0.004) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.063	(± 0.007) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.976	(± 0.0977) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	(± 0.0033) mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.8	(± 0.2)	0.1
NW341	**BOD5 - Soluble Carbonaceous**			
	BOD5	<3	mg/l	1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.43	(± 0.04) mg/l	0.01

	RESULTS (UNCERTAINTY)	LOQ
ZMF1E Enumeration of Escherichia coli by Membrane Filtration		
Escherichia coli	<1	cfu/100 ml 1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

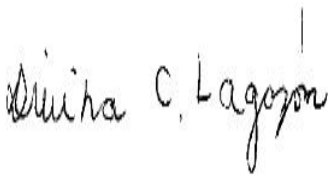
NW341 **BOD5 - Soluble Carbonaceous:** APHA 24th Edition 5210 B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZMF1E **Escherichia coli E <1 >80 cfu/100 ml (0) MI Agar-F:** SMEWW 9222K; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



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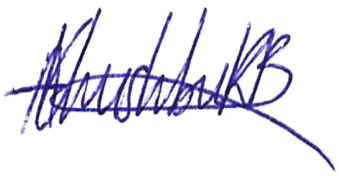

Khushbu Kumar Laboratory technician Eurofins ELS Limited

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MAV means Maximum Allowable Value

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-26-NW-008662-01	REPORT DATE	02/02/2026

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00015096

Sample Name 423715-0
Product: Ground water
Sampling Point code: WIL-Xs1
Sampling Point name: Levin Xs1
Reception Date & Time: 28/01/2026 11:39
Analysis Started on: 28/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 27/01/2026 12:36
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

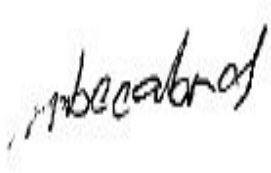
		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	99.6	(± 9.96) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	<0.01	(± 0.00) mg/l	0.01
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	99	(± 10) mg/l	15
NW023	**Conductivity**			
	Conductivity	130	(± 2.6) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.017	(± 0.004) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.621	(± 0.062) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	1.07	(± 0.107) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0024	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	6.7	(± 0.2)	0.1
NW341	**BOD5 - Soluble Carbonaceous**			
	BOD5	<3	mg/l	1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	17.8	(± 1.78) mg/l	0.01

	RESULTS (UNCERTAINTY)		LOQ
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**		
Escherichia coli	21	cfu/100 ml	1

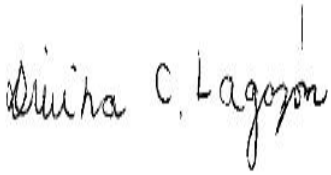
LIST OF METHODS

NW007	**Chloride:** APHA 24th Edition 4110 B
NW010	**Nitrate-N:** APHA 24th Edition 4110 B
NW020	**Chemical Oxygen Demand:** APHA 24th Edition 5220 D
NW023	**Conductivity:** APHA 24th Edition 2510 B
NW098	**Dissolved Aluminium:** APHA 24th Edition 3125 B mod.
NW103	**Dissolved Boron:** APHA 24th Edition 3125 B mod.
NW110	**Dissolved Lead:** APHA 24th Edition 3125 B mod.
NW113	**Dissolved Manganese:** APHA 24th Edition 3125 B mod.
NW114	**Dissolved Mercury:** APHA 24th Edition 3125 B mod.
NW116	**Dissolved Nickel:** APHA 24th Edition 3125 B mod.
NW195	**pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B
NW341	**BOD5 - Soluble Carbonaceous:** APHA 24th Edition 5210 B
NW676	**Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)
ZM0UX	**Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature



Marylou Cabral Laboratory Manager
Eurofins ELS Limited



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Eurofins ELS Limited

Gordon McArthur Senior Laboratory Analyst
Eurofins ELS Limited

Gabriela Carvalhaes Business Unit Manager
Eurofins ELS Limited

Vineel Chandra Team Leader Eurofins ELS Limited

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END OF REPORT

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-26-NW-009358-01	REPORT DATE	04/02/2026

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00304411

Purchase Order Number: 144482 - landfill

SAMPLE CODE 812-2026-00015092

Sample Name	423716-0		
Product:	Ground water		
Sampling Point code:	WIL-Xs2	**Sampling Point name:**	Levin Xs2
Reception Date & Time:	28/01/2026 11:31		
Analysis Started on:	28/01/2026	**Analysis Ending Date:**	04/02/2026
Product Type	Ground water	**Sampled Date & Time**	27/01/2026 06:10
Sampler(s)	Client nominated external sampler	**Sampled by Eurofins**	No
Suite	Levin Landfill		

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	34.8	(± 3.48) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	1.83	(± 0.18) mg/l	0.01
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	<15	mg/l	15
NW023	**Conductivity**			
	Conductivity	27.3	(± 0.5) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.081	(± 0.009) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.032	(± 0.005) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.193	(± 0.0196) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	<0.0005	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	6.6	(± 0.2)	0.1
NW341	**BOD5 - Soluble Carbonaceous**			
	BOD5	<3	mg/l	1
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.07	(± 0.01) mg/l	0.01

	RESULTS (UNCERTAINTY)		LOQ
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**		
	Escherichia coli	<1 cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

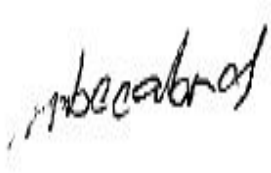
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW341 **BOD5 - Soluble Carbonaceous:** APHA 24th Edition 5210 B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature



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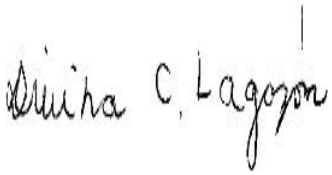

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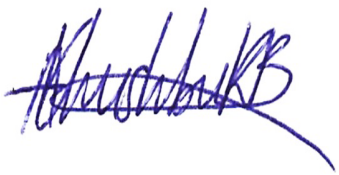

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END OF REPORT

SURFACE WATER SAMPLING RESULTS

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008601-01** REPORT DATE **02/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00303976

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00013657**

Sample Name 424161-0
Product: Ground water
Sampling Point code: WIL-HS1A
Sampling Point name: Levin HS1A
Reception Date & Time: 26/01/2026 14:49
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 06:45
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	23.7	(± 2.37) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	0.08	(± 0.01) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<6	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	97	(± 10) mg/l	15
NW023	**Conductivity**			
	Conductivity	24.5	(± 0.5) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.175	(± 0.018) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.036	(± 0.005) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.0870	(± 0.0093) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0010	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.5	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	0.22	(± 0.02) mg/l	0.01
ZM0UX Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	500	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

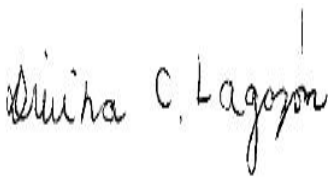
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



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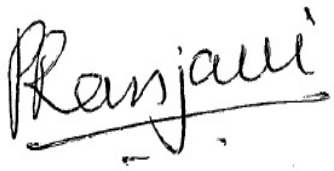

Pathma Ranjanie Senior Analyst Eurofins ELS Limited

Cody Forbes Technical Specialist Eurofins ELS Limited

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008598-01** REPORT DATE **02/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00303976

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00013649**

Sample Name 424162-0
Product: Ground water
Sampling Point code: WIL-HS2
Sampling Point name: Levin HS2
Reception Date & Time: 26/01/2026 14:42
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 06:55
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	24.3	(± 2.43) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	0.11	(± 0.01) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<6	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	58	(± 6) mg/l	15
NW023	**Conductivity**			
	Conductivity	25.2	(± 0.5) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.223	(± 0.023) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.039	(± 0.005) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.109	(± 0.0114) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0007	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.4	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

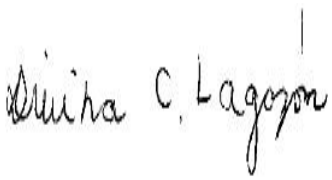
		RESULTS (UNCERTAINTY)		LOQ
NW676	**Ammonia Nitrogen**			
	Ammonia nitrogen	0.48	(± 0.05) mg/l	0.01
ZM0UX	**Enumeration of Escherichia coli by Membrane Filtration**			
	Escherichia coli	300	cfu/100 ml	1

LIST OF METHODS

NW007	**Chloride:** APHA 24th Edition 4110 B	NW010	**Nitrate-N:** APHA 24th Edition 4110 B
NW014	**Biochemical Oxygen Demand:** APHA 24th Edition 5210 B	NW020	**Chemical Oxygen Demand:** APHA 24th Edition 5220 D
NW023	**Conductivity:** APHA 24th Edition 2510 B	NW098	**Dissolved Aluminium:** APHA 24th Edition 3125 B mod.
NW103	**Dissolved Boron:** APHA 24th Edition 3125 B mod.	NW110	**Dissolved Lead:** APHA 24th Edition 3125 B mod.
NW113	**Dissolved Manganese:** APHA 24th Edition 3125 B mod.	NW114	**Dissolved Mercury:** APHA 24th Edition 3125 B mod.
NW116	**Dissolved Nickel:** APHA 24th Edition 3125 B mod.	NW195	**pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B
NW676	**Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)	ZM0UX	**Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager
Eurofins ELS Limited



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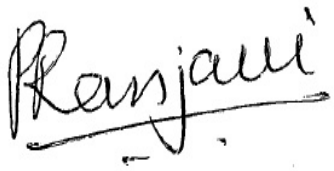

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ELS Limited

Cody Forbes Technical Specialist
Eurofins ELS Limited

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008602-01** REPORT DATE **02/02/2026**

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Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00303976

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00013658**

Sample Name	424163-0		
Product:	Ground water		
Sampling Point code:	WIL-HS3	**Sampling Point name:**	Levin HS3
Reception Date & Time:	26/01/2026 14:50		
Analysis Started on:	27/01/2026	**Analysis Ending Date:**	02/02/2026
Product Type	Ground water	**Sampled Date & Time**	26/01/2026 07:05
Sampler(s)	Client nominated external sampler	**Sampled by Eurofins**	No
Suite	Levin Landfill		

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	24.5	(± 2.45) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	0.12	(± 0.01) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	<6	mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	71	(± 7) mg/l	15
NW023	**Conductivity**			
	Conductivity	25.4	(± 0.5) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.269	(± 0.027) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.037	(± 0.005) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0007	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.128	(± 0.0132) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0010	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.4	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	0.30	(± 0.03) mg/l	0.01
ZM0UX Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	200	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

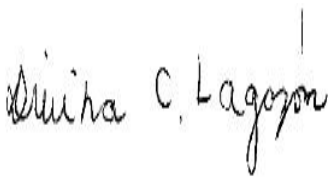
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



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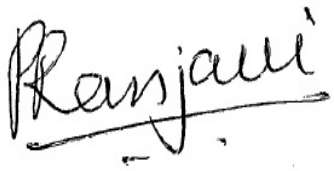

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008599-01** REPORT DATE **02/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND
Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill
Order code: EUNZWE-00303976
Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00013650**

Sample Name 427832-0
Product: Ground water
Sampling Point code: WIL-LP
Sampling Point name: Levin Leachate Pond
Reception Date & Time: 26/01/2026 14:45
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 07:25
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	872	(± 87.2) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	0.21	(± 0.02) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	69	(± 10) mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	1820	(± 182) mg/l	15
NW023	**Conductivity**			
	Conductivity	1320	(± 26.4) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.651	(± 0.065) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	4.67	(± 0.467) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	0.0058	(± 0.0034) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	1.27	(± 0.127) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.104	(± 0.0109) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	8.2	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	1180	(± 118) mg/l	0.01
ZM0UX Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	<1	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

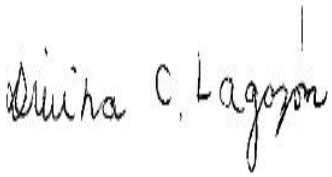
NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

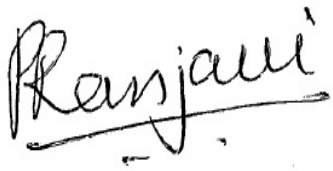
ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

Marylou Cabral Laboratory Manager Eurofins ELS Limited



Divina Cunanan Lagazon Laboratory Supervisor Eurofins ELS Limited



Pathma Ranjanie Senior Analyst Eurofins ELS Limited

Gabriela Carvalhaes Business Unit Manager Eurofins ELS Limited

Cody Forbes Technical Specialist Eurofins ELS Limited

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N/A means Not Applicable
Not Detected means not detected at or above the Limit of Quantification (LOQ)
LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit
✗ (Unsatisfactory) means does not meet the specification
✓ (Satisfactory) means meets the specification
MAV means Maximum Allowable Value

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Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-26-NW-008600-01** REPORT DATE **02/02/2026**

Attention Horowhenua District Council
Lab Results
P O Box 642
4741 Levin
NEW ZEALAND

Phone (06) 367 2705
Email labresults@horowhenua.govt.nz

Copy to: McMillan (Davidm@horowhenua.govt.nz), Results (labresults@horowhenua.govt.nz), Landmark

Contact for your orders: Radhi Premkumar
Contract: Levin Landfill

Order code: EUNZWE-00303976

Purchase Order Number: 144482 - landfill

SAMPLE CODE **812-2026-00013654**

Sample Name 424164-0
Product: Ground water
Sampling Point code: WIL-TD1
Sampling Point name: Levin TD1
Reception Date & Time: 26/01/2026 14:47
Analysis Started on: 27/01/2026
Analysis Ending Date: 02/02/2026
Product Type Ground water
Sampled Date & Time 26/01/2026 07:15
Sampler(s) Client nominated external sampler
Sampled by Eurofins No
Suite Levin Landfill

		RESULTS	(UNCERTAINTY)	LOQ
NW007	**Chloride**			
	Chloride (Cl)	61.3	(± 6.13) mg/l	0.02
NW010	**Nitrate-N**			
	Nitrate-N	0.02	(± 0.00) mg/l	0.01
NW014	**Biochemical Oxygen Demand**			
	Biochemical oxygen demand (BOD)	8	(± 1) mg/l	1
NW020	**Chemical Oxygen Demand**			
	Chemical oxygen demand (COD)	78	(± 8) mg/l	15
NW023	**Conductivity**			
	Conductivity	75.7	(± 1.5) mS/m	0.1
NW098	**Dissolved Aluminium**			
	Aluminium	0.009	(± 0.003) mg/l	0.002
NW103	**Dissolved Boron**			
	Boron (B)	0.157	(± 0.016) mg/l	0.005
NW110	**Dissolved Lead**			
	Lead (Pb)	<0.0005	(± 0.0033) mg/l	0.0005
NW113	**Dissolved Manganese**			
	Manganese (Mn)	0.970	(± 0.0971) mg/l	0.0005
NW114	**Dissolved Mercury**			
	Mercury (Hg)	<0.0005	mg/l	0.0005
NW116	**Dissolved Nickel**			
	Nickel (Ni)	0.0012	(± 0.0033) mg/l	0.0005
NW195	**pH (Tested beyond 15 minute APHA holding time)**			
	pH	7.2	(± 0.2)	0.1
NW676	**Ammonia Nitrogen**			

	RESULTS (UNCERTAINTY)		LOQ
NW676 Ammonia Nitrogen			
Ammonia nitrogen	12.0	(± 1.20) mg/l	0.01
ZM0UX Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	100	cfu/100 ml	1

LIST OF METHODS

NW007 **Chloride:** APHA 24th Edition 4110 B

NW010 **Nitrate-N:** APHA 24th Edition 4110 B

NW014 **Biochemical Oxygen Demand:** APHA 24th Edition 5210 B

NW020 **Chemical Oxygen Demand:** APHA 24th Edition 5220 D

NW023 **Conductivity:** APHA 24th Edition 2510 B

NW098 **Dissolved Aluminium:** APHA 24th Edition 3125 B mod.

NW103 **Dissolved Boron:** APHA 24th Edition 3125 B mod.

NW110 **Dissolved Lead:** APHA 24th Edition 3125 B mod.

NW113 **Dissolved Manganese:** APHA 24th Edition 3125 B mod.

NW114 **Dissolved Mercury:** APHA 24th Edition 3125 B mod.

NW116 **Dissolved Nickel:** APHA 24th Edition 3125 B mod.

NW195 **pH (Tested beyond 15 minute APHA holding time):** APHA 24th Edition 4500-H B

NW676 **Ammonia Nitrogen:** Internal Method, Spectrophotometry (DA)

ZM0UX **Escherichia coli E <1 >6 000 cfu/100 ml (0) m-FC Agar-F:** SMEWW 9222I; APHA 24th Edition

Signature

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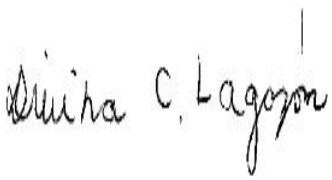

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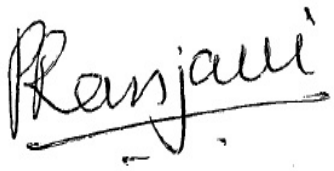

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Appendix C Sampling Schedule

LEVIN LANDFILL - SUMMARY OF SURFACE AND GROUNDWATER MONITORING REQUIREMENTS (January 2026 - October 2028).

(The testing regime is based on Consent Conditions following the completion of the 2015 Resource Consent Review process).

Reports Due		Sampling Month	Table A (Condition 3, ATH-2002003983.02, formerly DP 6010)	Table B (Condition 3, ATH-2002003983.02, formerly DP 6010)																														
			Deep Aquifer Bores						Shallow Aquifer Bores																	Irrigation Bores				Hokio Stream[4]			Northern Farm Drain[6]	Leachate Pond[5]
Annual	Quarterly		C2dd	E1d	E2d	G1d	Xd1	D3rd[1]	C1	C2	C2ds	D4	B1	B2	B3s	E1s	E2s	D1[2]	D2[2]	D3rs[1,2]	D6[2]	G1s	G2s	Xs1	Xs2	D5[3]	F1[3]	F2[3]	F3[3]	HS1A	HS2	HS3	TD1	
	Feb-26	**Jan-26**	I	I + SW	I	I	I	I	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	I	I	I	I	I	I	C	C	C	C	I
	May-26	**Apr-26**	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C	C	C	C	C + A
Sept-26	**Aug-26**	**Jul-26**	I	I + SW	I	I	I	I	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	I	I	I	I	I	I + SW	I	I	I	I	I
	Nov-26	**Oct-26**	I	I + SW	I	I	I	I	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	I	I	I	I	I	I + SW	C	C	C	C	C
	Feb-27	**Jan-27**	I	I + SW	I	I	I	I	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	I	I	I	I	I	I + SW	I	I	I	I	I
	May-27	**Apr-27**	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C	C	C	C	C + A
Sept-27	**Aug-27**	**Jul-27**	I	I + SW	I	I	I	I	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	I	I	I	I	I	I + SW	I	I	I	I	I
	Nov-27	**Oct-27**	I	I + SW	I	I	I	I	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	I	I	I	I	I	I + SW	C	C	C	C	C
	Feb-28	**Jan-28**	I	I + SW	I	I	I	I	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	I	I	I	I	I	I + SW	I	I	I	I	I
	May-28	**Apr-28**	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C + A	C	C	C	C	C + A
Sept-25	**Aug-28**	**Jul-28**	I	I + SW	I	I	I	I	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	I	I	I	I	I	I + SW	I	I	I	I	I
	Nov-28	**Oct-28**	I	I + SW	I	I	I	I	I	I	I	I + SW	I	I	I	I + SW	I + SW	I	I + SW	I + SW	I	I + SW	I	I	I	I	I	I	I + SW	C	C	C	C	C

Measure groundwater level and sample all bores for CH_4, CO_2 and O_2 each time that groundwater is sampled (Condition 4a of DP 6011). Also include testing for H_2S.

Notes:

(1) Replacement bore D3r consists of two nested piezometers that have been called D3rs and D3rd.

(2) See table below

(3) If irrigation re-commences then the annual sampling is to change from comprehensive + 3 times indicator to bi-annual comprehensive + indicator (Clause D of Condition 3, DP 6010) .

(4) A reduction in the sampling of the Hokio Stream has been authorised by Horizons Regional Council on 24 July 2025. HDC has reverted to quarterly indicator and six monthly comprehensive sampling, in line with consent conditions.

(5) A reduction in the sampling of the Leachate Pond has been authorised by Horizons Regional Council on 24 July 2025.

(6) Northern Farm Drain is a name change from the former 'Tatana Drain'. Sampling is to be conducted as for the Hokio Stream sampling locations.

C Comprehensive list (see below)

I Indicator list (see below)

A Pesticide and SVOC analysis

SW Add sodium and iron analysis (for stormwater consent 102559)

A reduction in sampling frequency at any **groundwater monitoring point** is conditional on (Clauses A - D of Condition 3, DP 6010):

A. Completion of the initial monitoring program;
B. Good consistency of groundwater sample analysis results, or a clearly identified reason for inconsistent results that excludes the contaminant source being landfill operations, stored waste or leachate;
C. No decline in groundwater quality as determined from indicator parameter trends over a period of four consecutive sampling rounds;
D. If a well being monitored on a conditional frequency becomes non-compliant with condition C, the monitoring frequency for that well should return to the initial monitoring frequency until conditions B and C are again being fulfilled.

[2] If site management planning indicates any **early detection monitoring well** is likely to become buried or otherwise destroyed within the following year as a result of normal operations (Clauses E - H, Condition 3, DP 6010):

E. This must be communicated to the regional council;
F. A replacement well is to be constructed in a position agreed upon with Horizons Regional Council
G. The replacement well should be installed in a position suitable to act as a early detection well and be classed as an early detection well;
H. The replacement well should be constructed as a nested well (or two separate wells) with screens positioned in both shallow and deep aquifers.

COMPREHENSIVE PARAMETER LIST (Table E of Condition 3, DP 6010)

Characterising parameters	pH
	electrical conductivity (EC)
	alkalinity
	total hardness
	suspended solids
Oxygen demand	COD and $scBOD_5$
Nutrients*	NO3-N, NH4-N, DRP and SO_4
Metals*	Al, As, Cd, Cr, Cu, Fe, Mg, Mn, Ni, Pb, Zn and Hg
Other elements	B, Ca, Cl, K and Na
Organics	Total organic carbon, total phenols, volatile acids
Biological	E. coli

* Analyses performed for nutrients and metals are for dissolved rather than total concentrations

INDICATOR PARAMETER LIST (Table F, Condition 3, DP 6010)

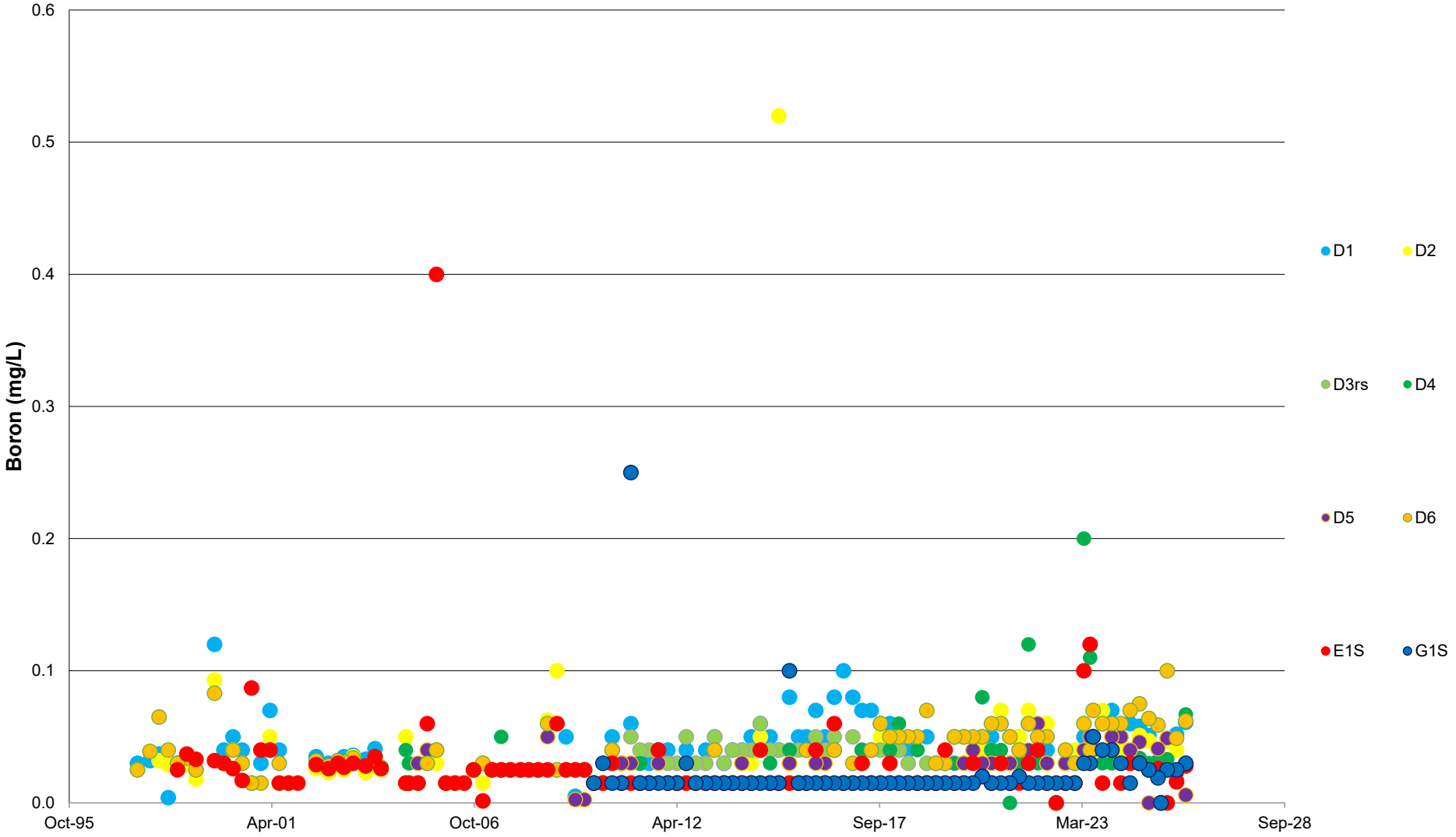
Characterising parameters	pH
	electrical conductivity (EC)
Oxygen demand	COD and $scBOD_5$
Nutrients*	NO3-N and NH4-N
Metals*	Al, Mn, Ni, Pb and Hg
Other elements	B and Cl
Biological+	E. coli

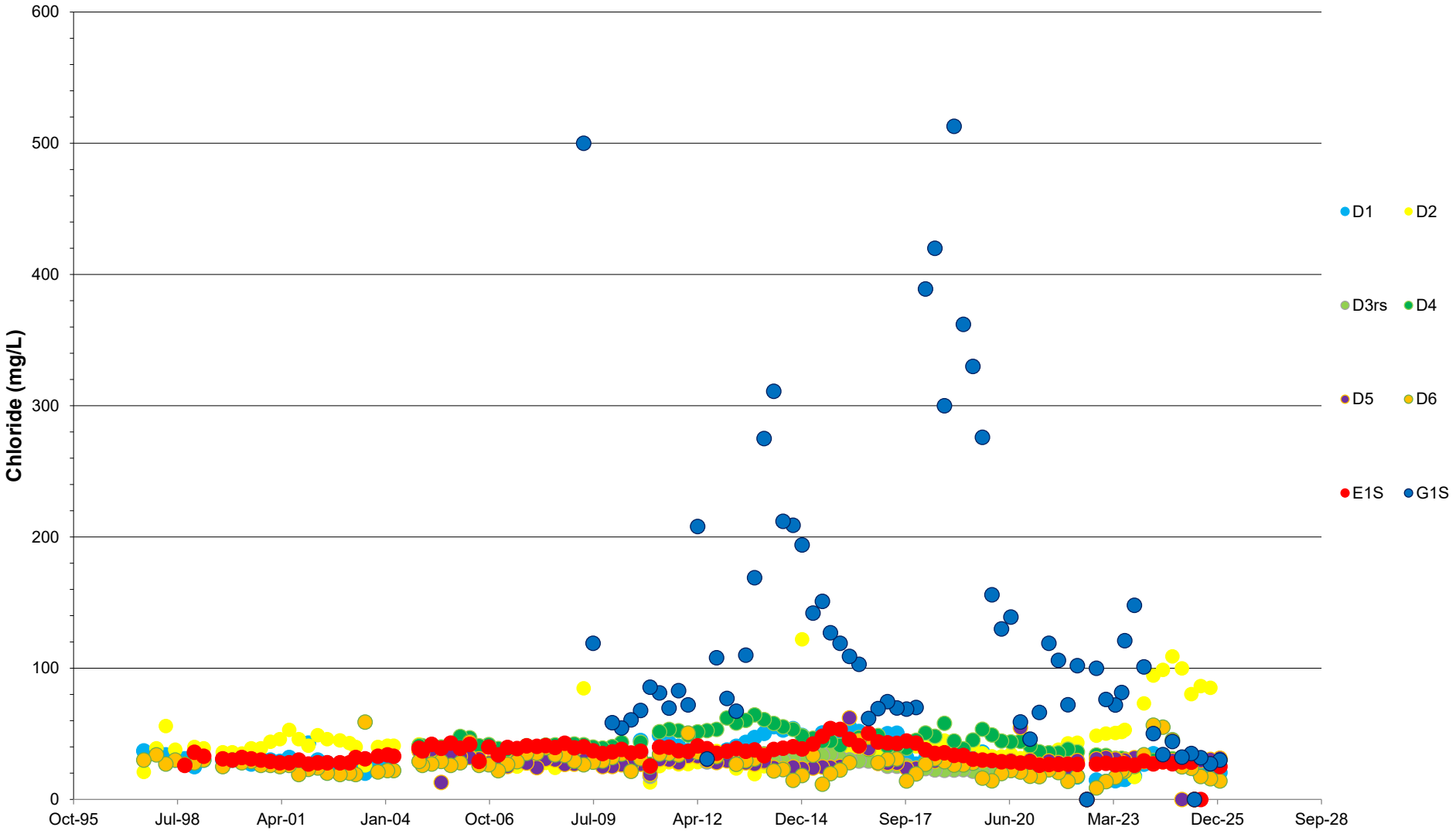
* Analyses performed for nutrients and metals are for dissolved rather than total concentrations

+ E. coli added from December 2019, with first sampling from April 2020 onwards

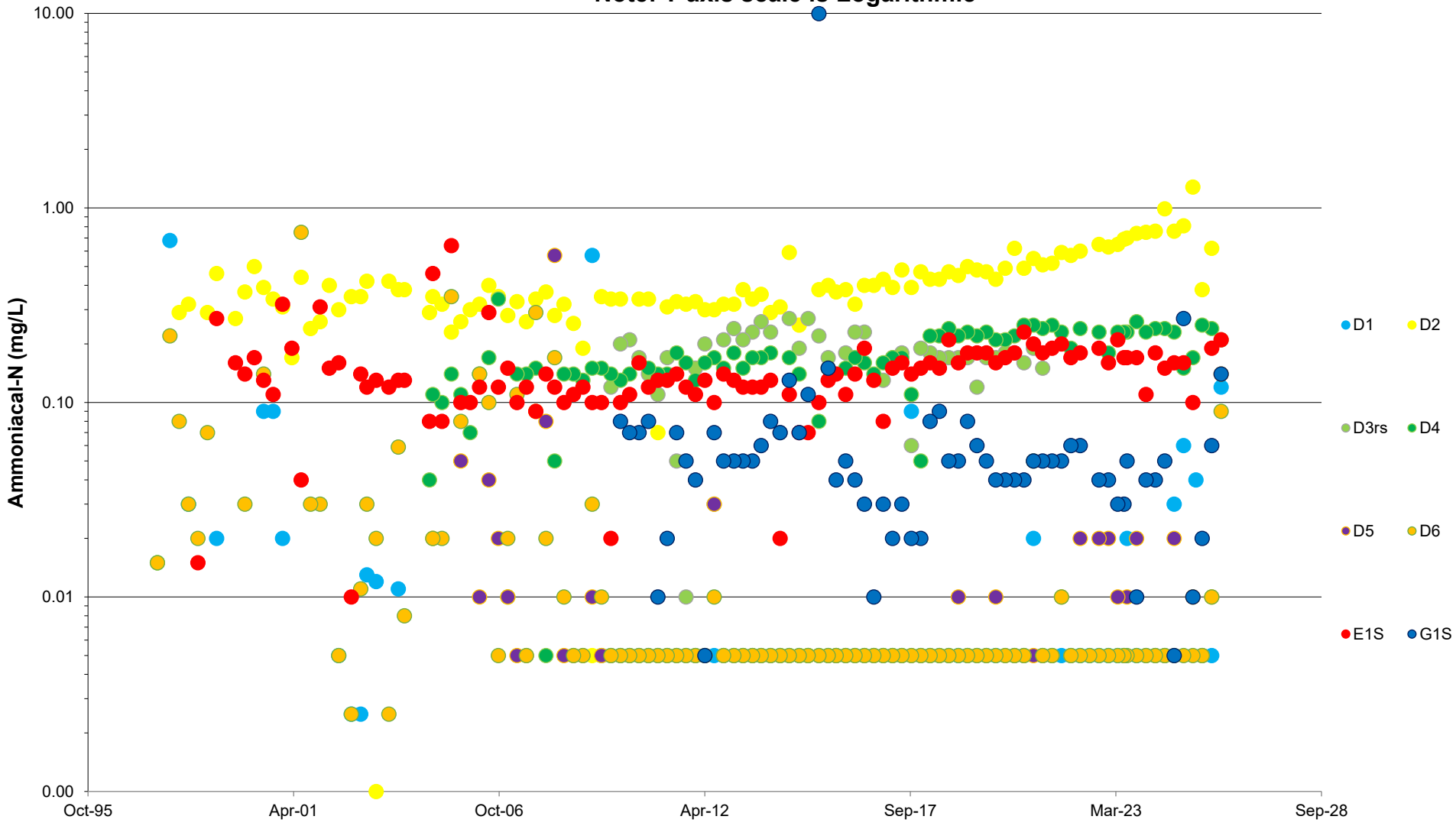
Appendix D Historical Results Graphs

Sand Aquifer Downgradient of New Landfill - Boron Concentrations

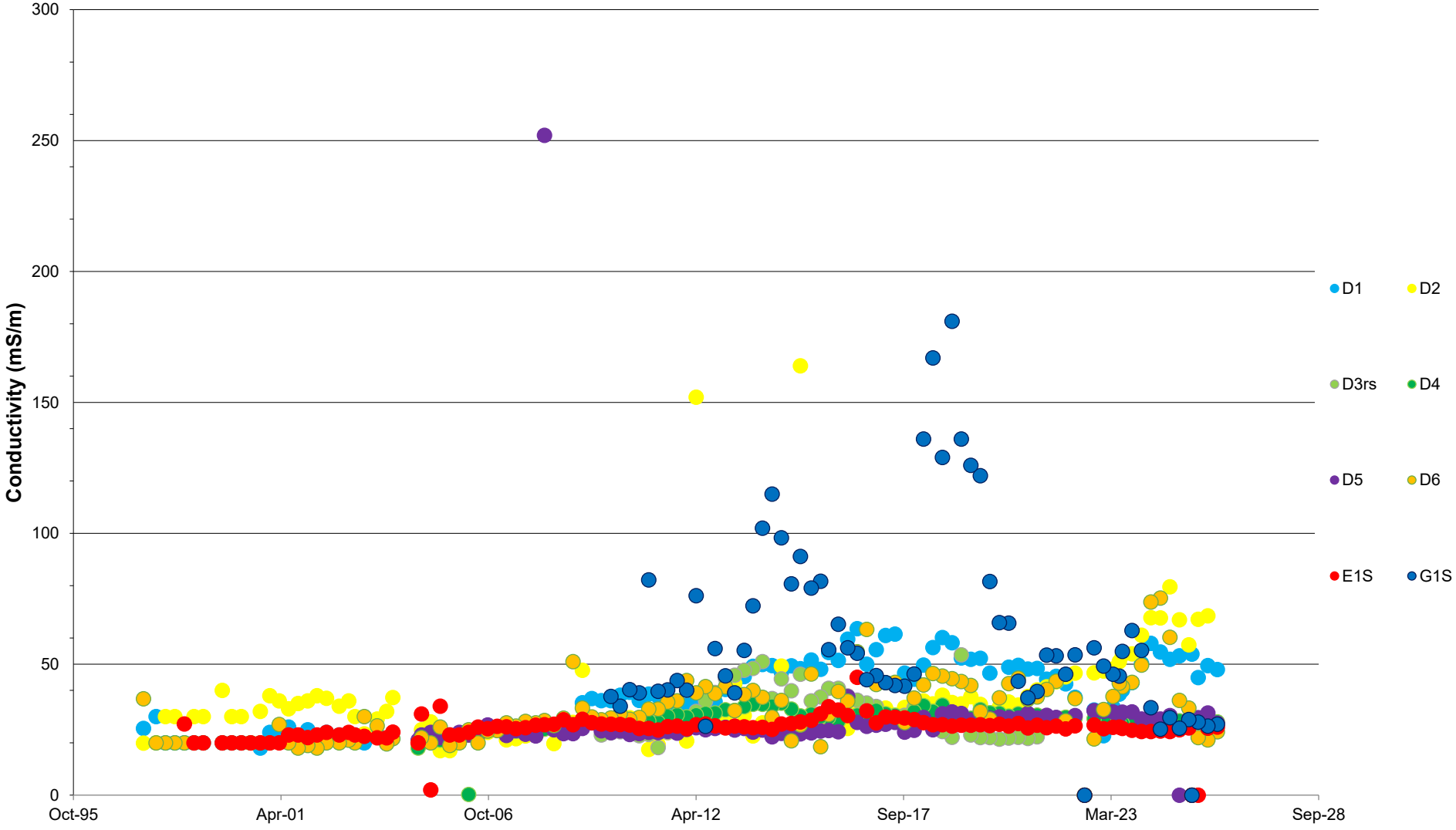



Sand Aquifer Downgradient of New Landfill - Chloride Concentrations
Chloride (mg/L)
600
500
400
300
200
100
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
D1
D2
D3rs
D4
D5
D6
E1S
G1S

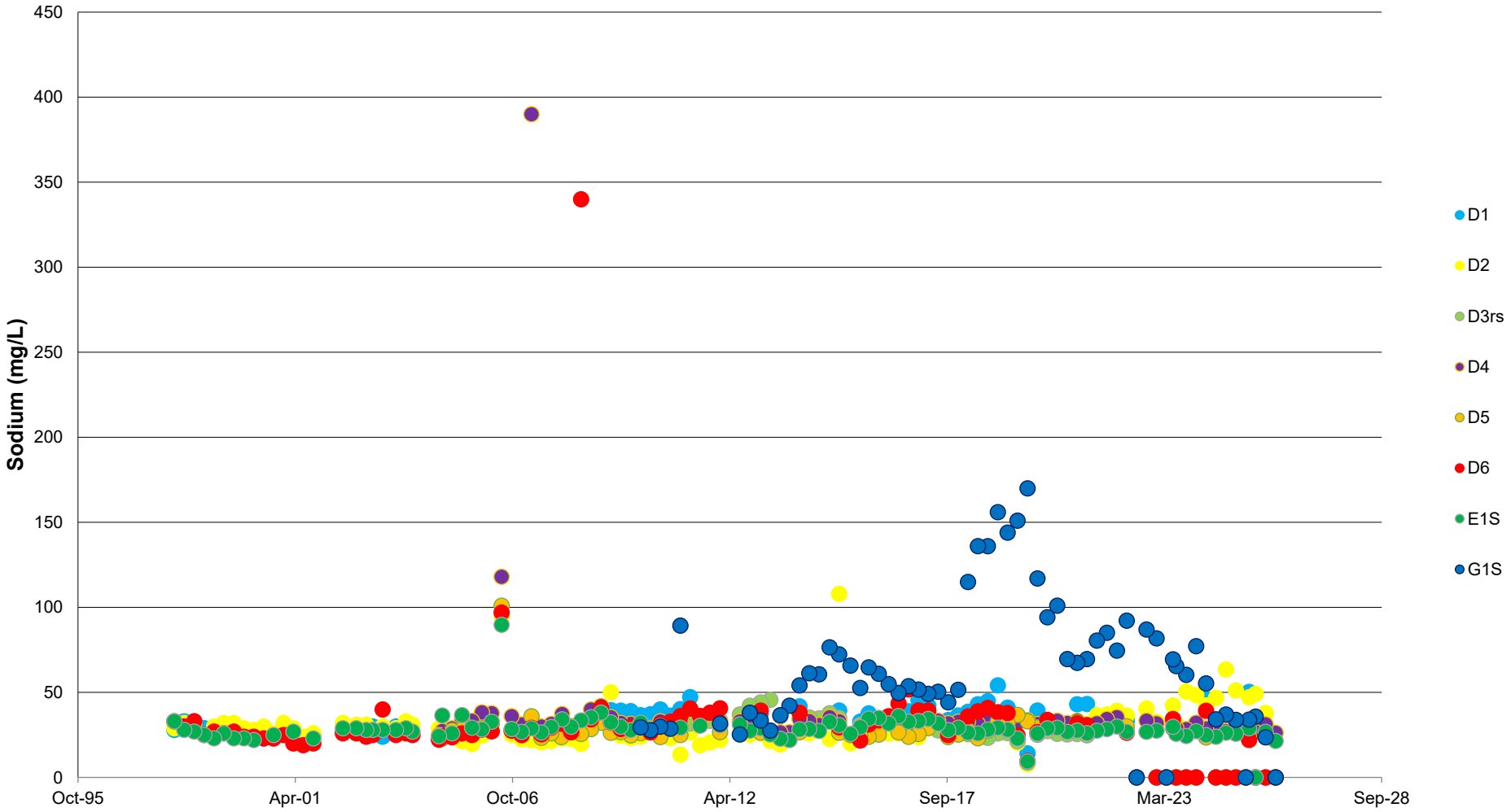
Sand Aquifer Downgradient of New Landfill - Ammoniacal-Nitrogen Concentrations
Note: Y-axis scale is Logarithmic

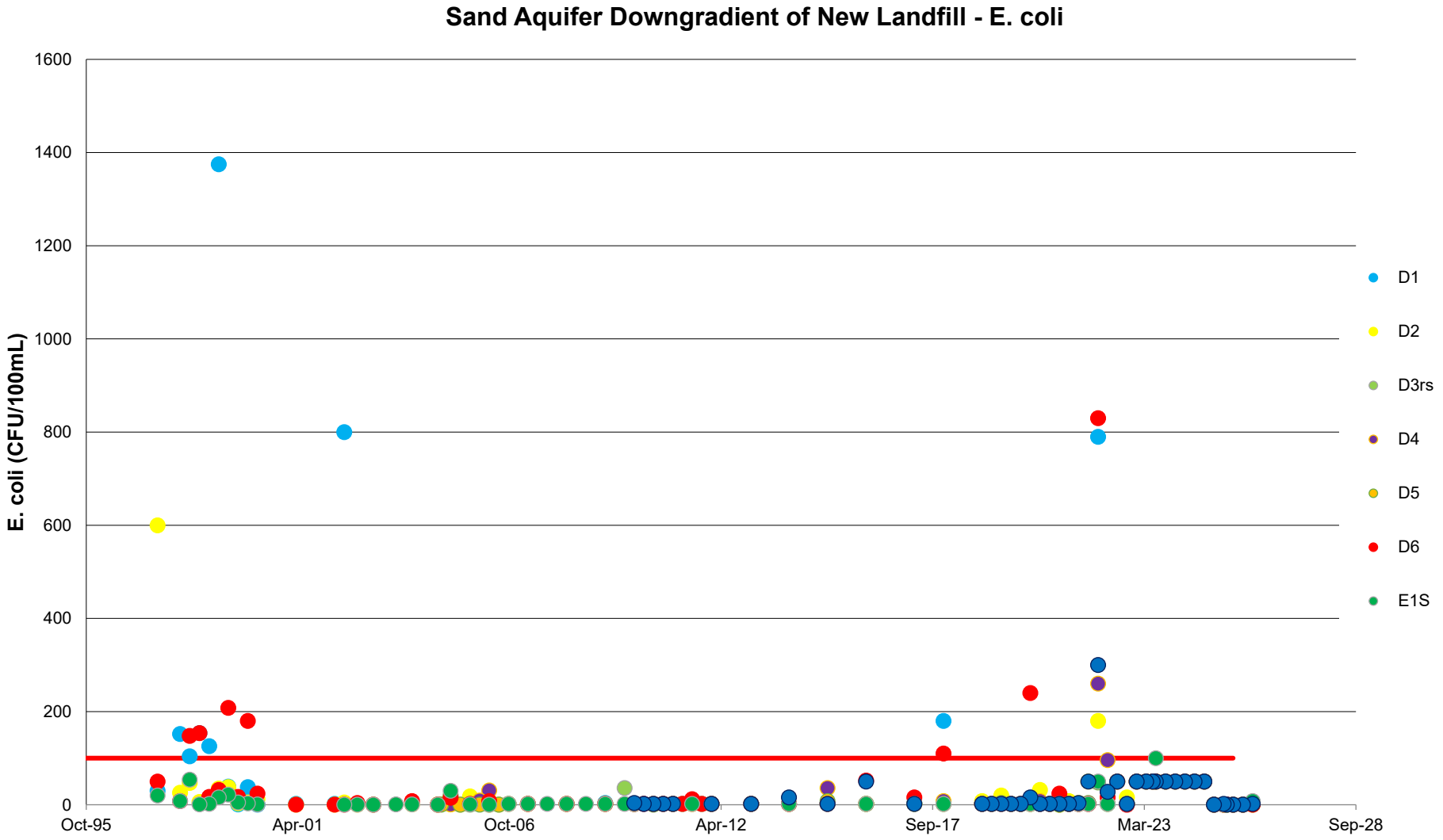


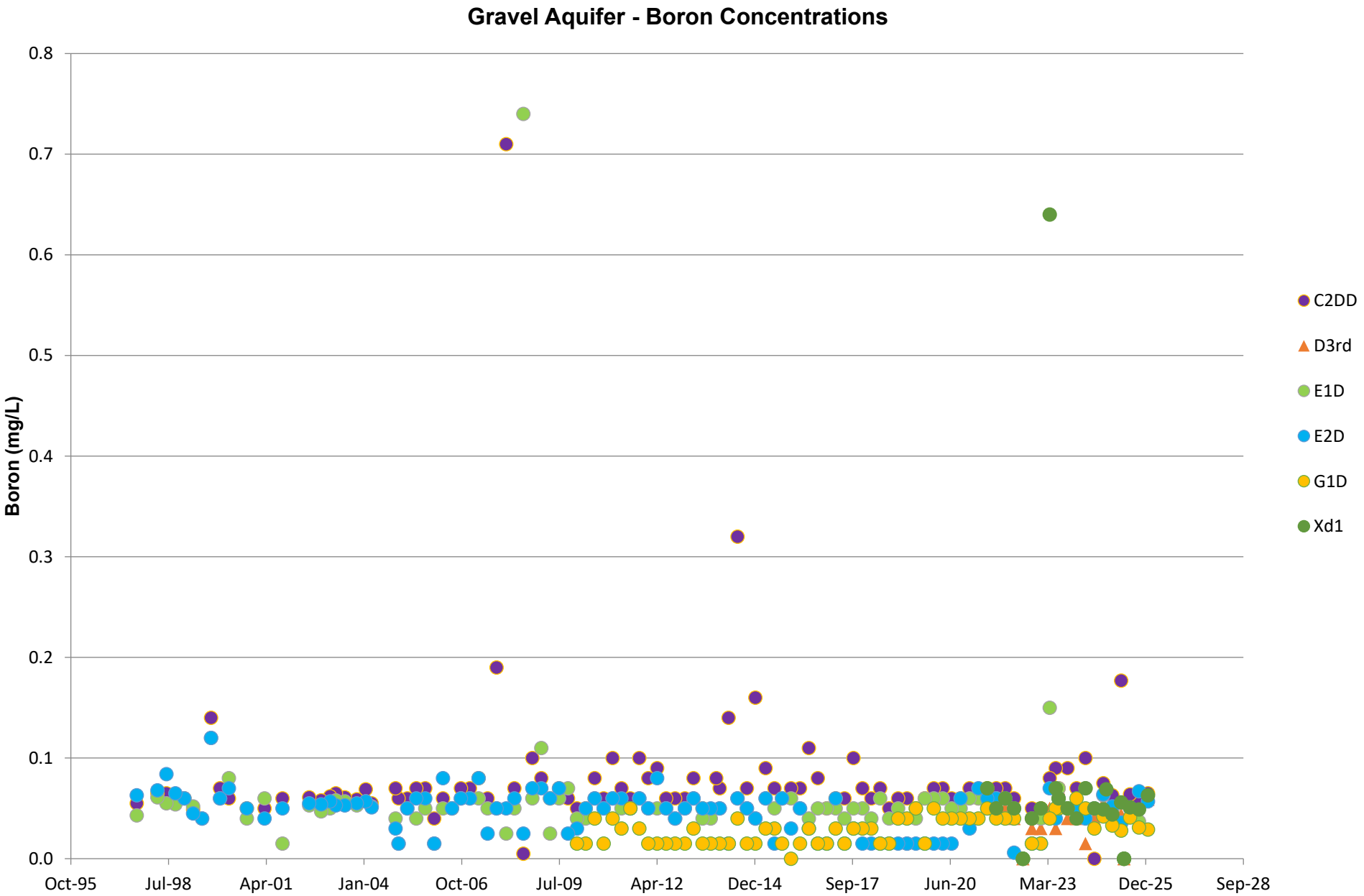
Sand Aquifer Downgradient of New Landfill - Conductivity Levels

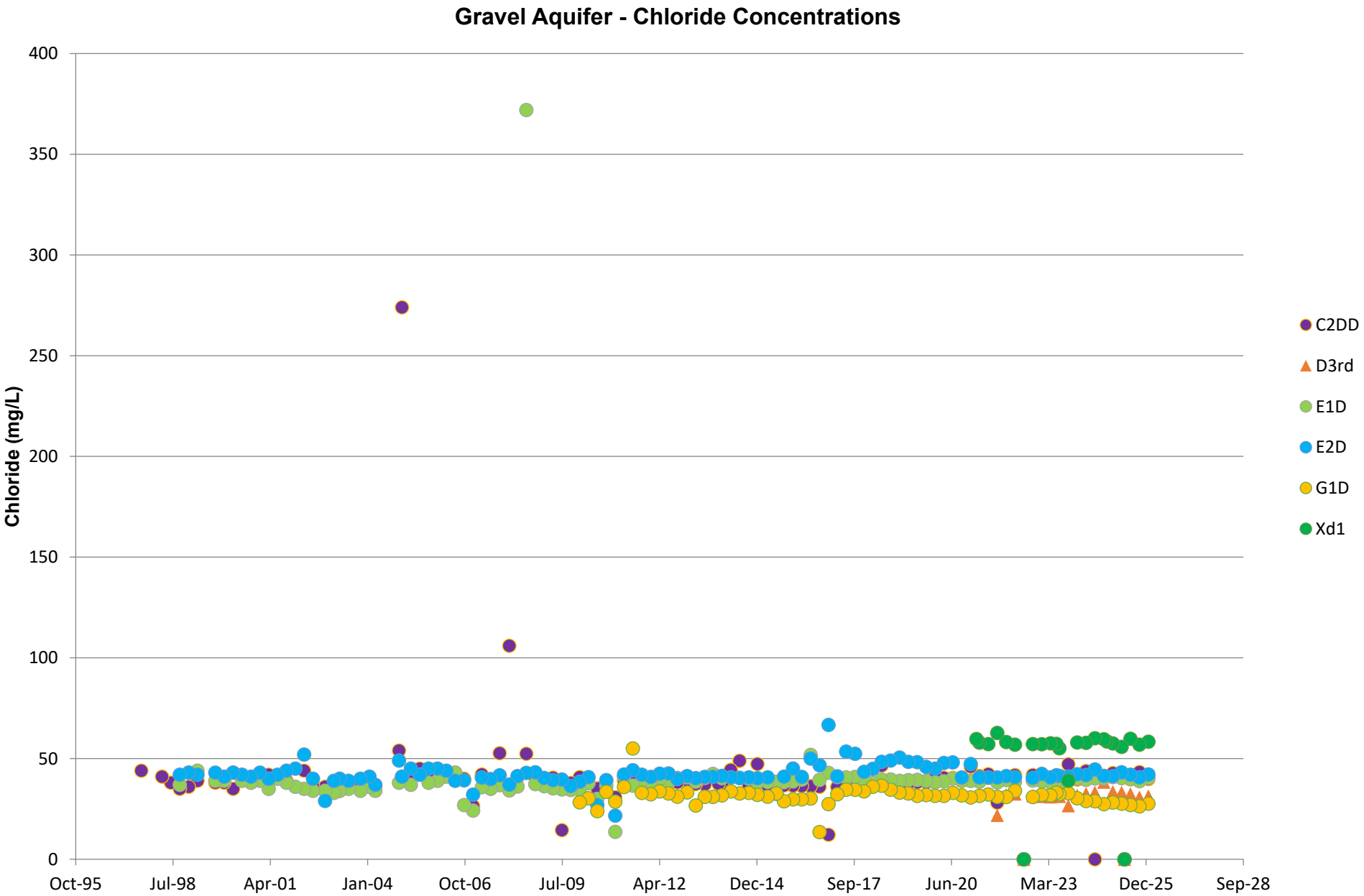


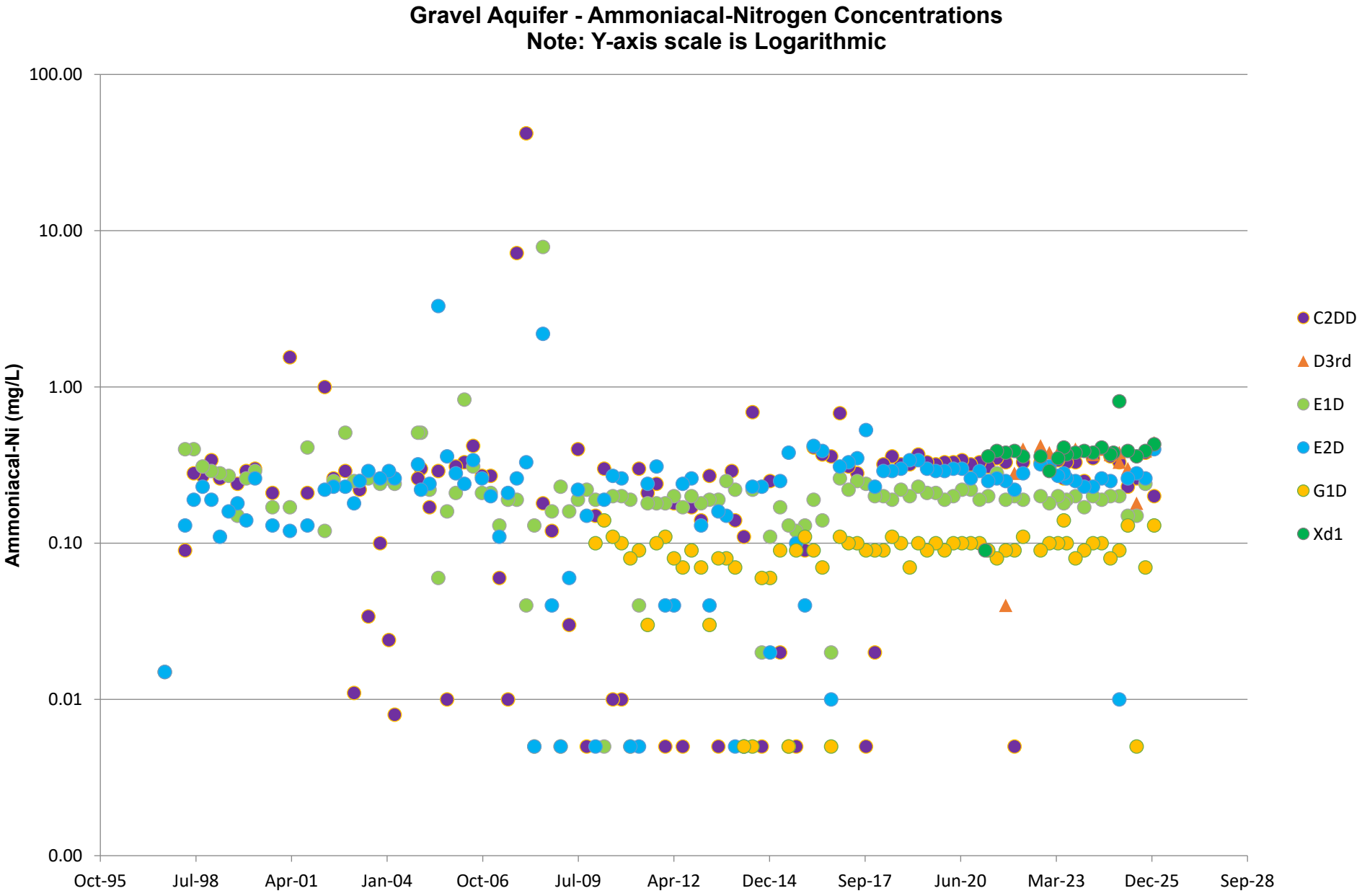
Sand Aquifer Downgradient of New Landfill - Sodium Concentrations

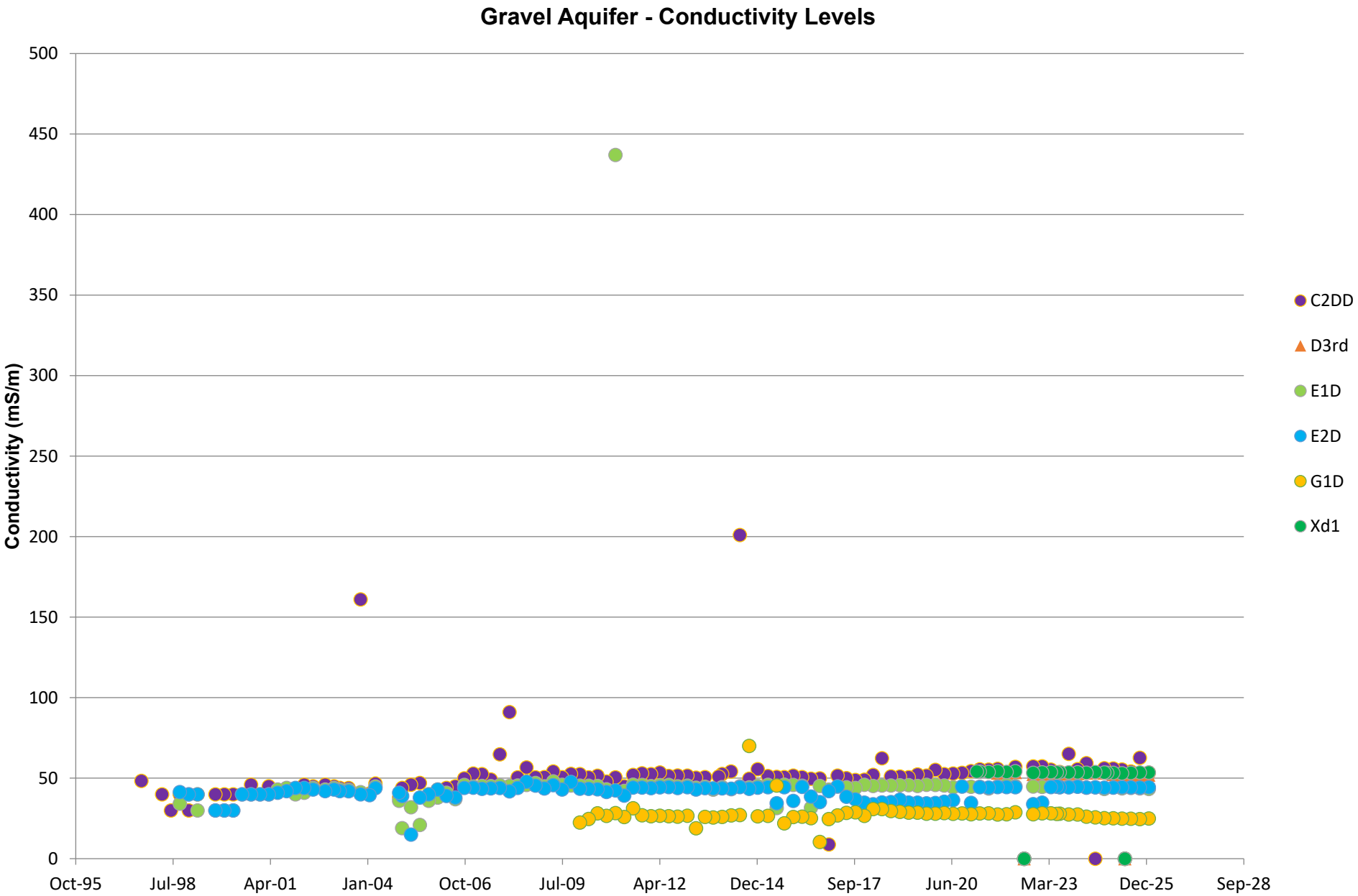


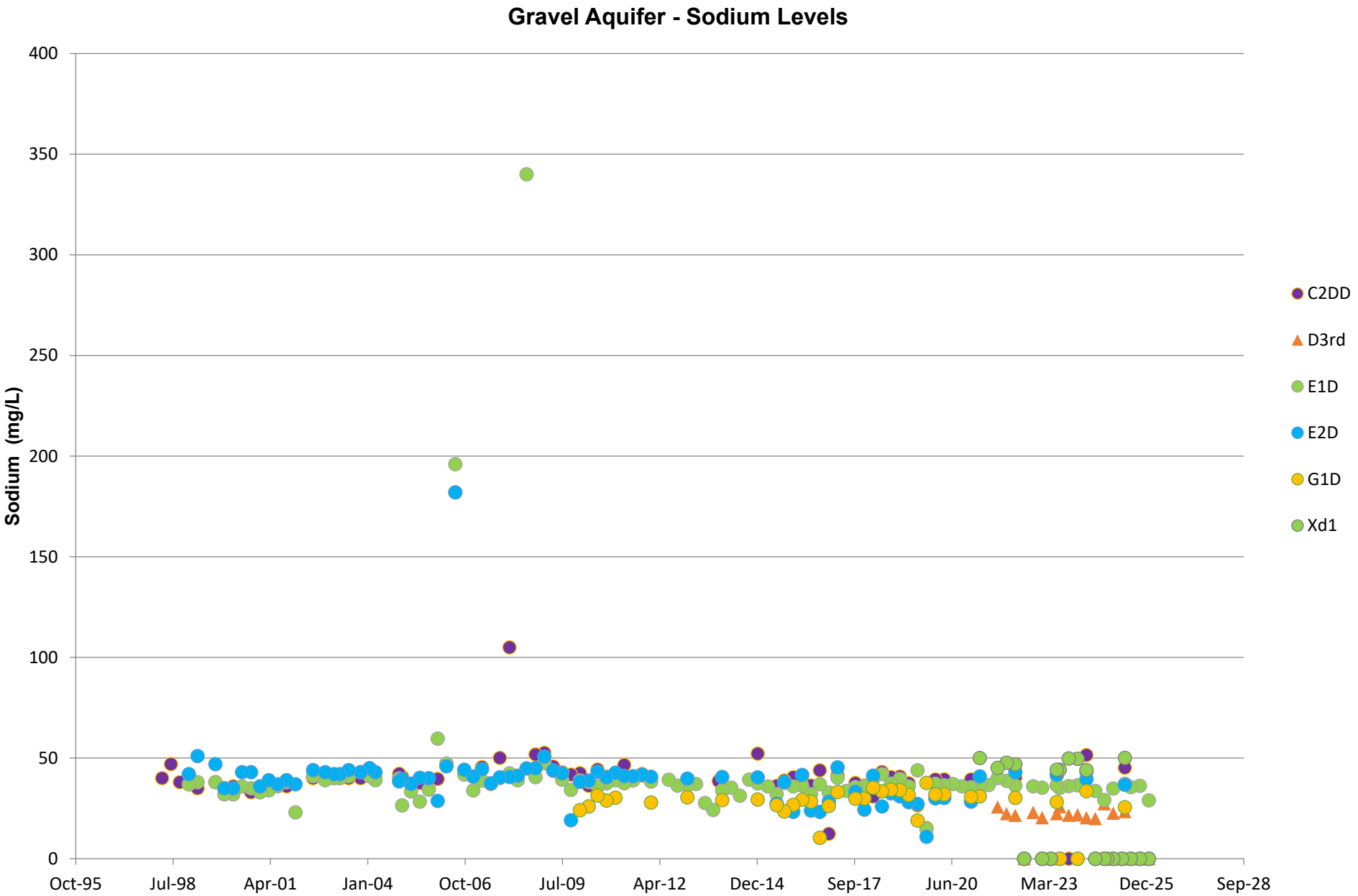

Sand Aquifer Downgradient of New Landfill - E. coli
E. coli (CFU/100mL)
1600
1400
1200
1000
800
600
400
200
0
Oct-95
Apr-01
Oct-06
Apr-12
Sep-17
Mar-23
Sep-28
D1
D2
D3rs
D4
D5
D6
E1S

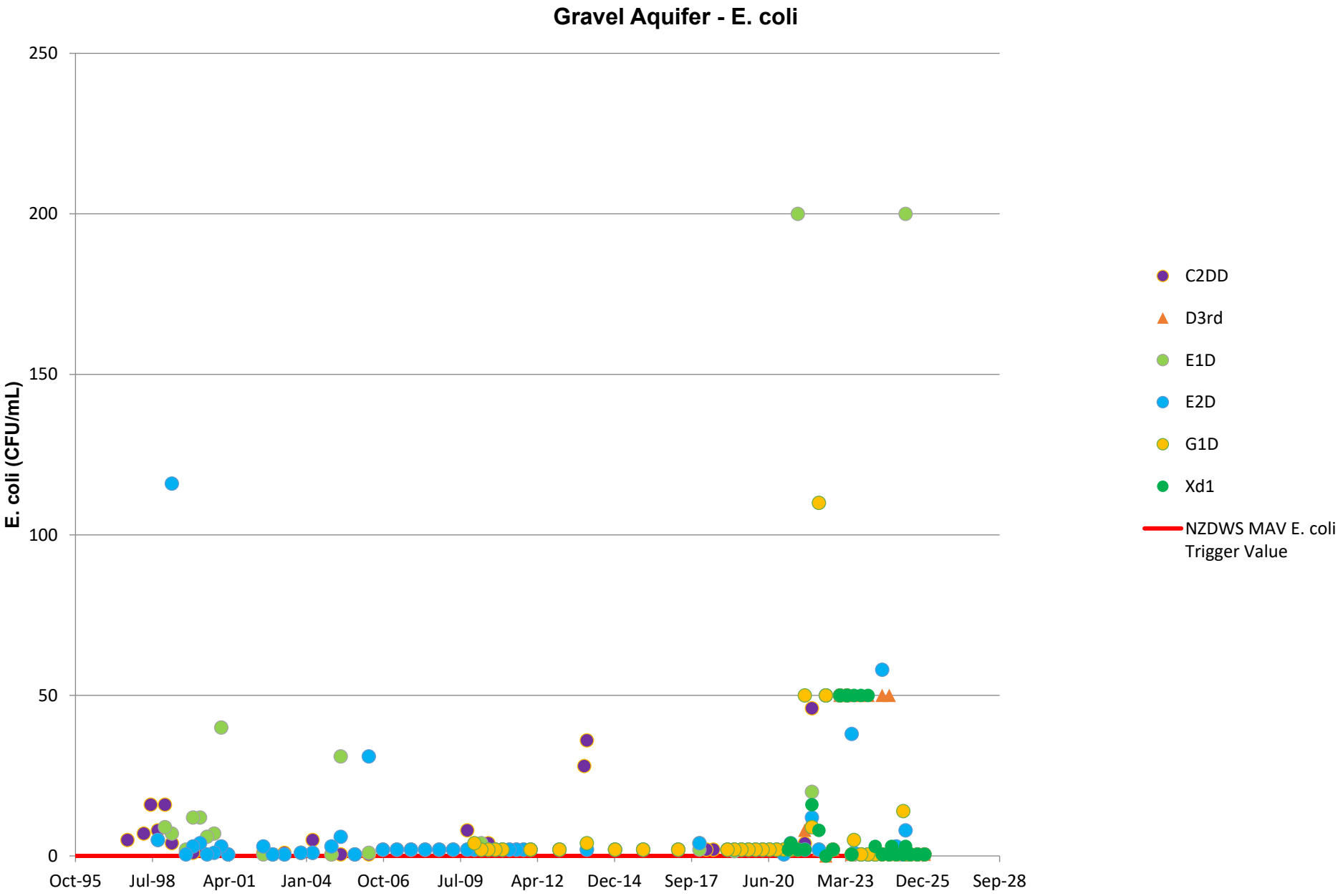

Gravel Aquifer - Boron Concentrations
Boron (mg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
C2DD
D3rd
E1D
E2D
G1D
Xd1

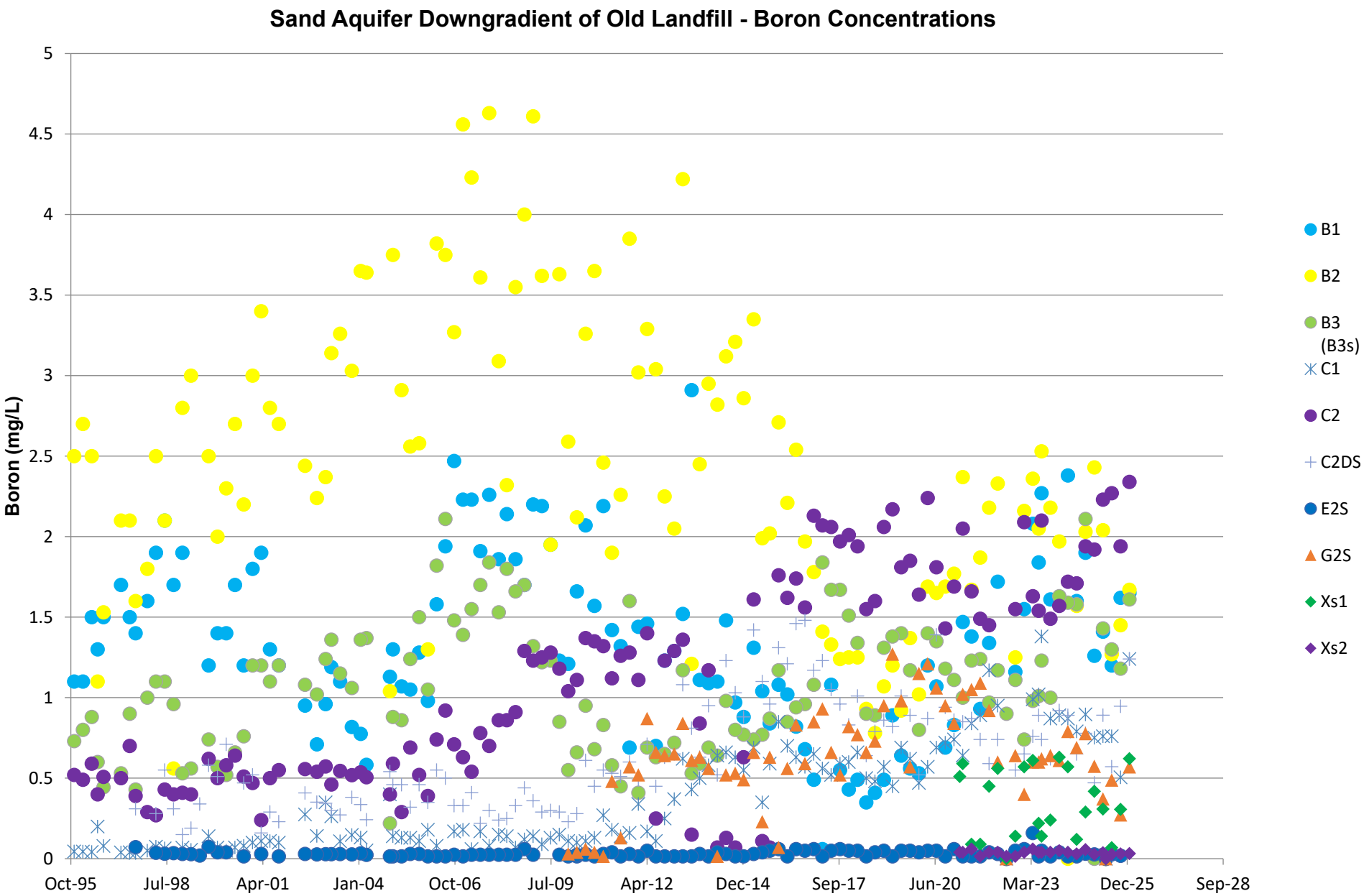

Gravel Aquifer - Chloride Concentrations
Chloride (mg/L)
400
350
300
250
200
150
100
50
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
C2DD
D3rd
E1D
E2D
G1D
Xd1

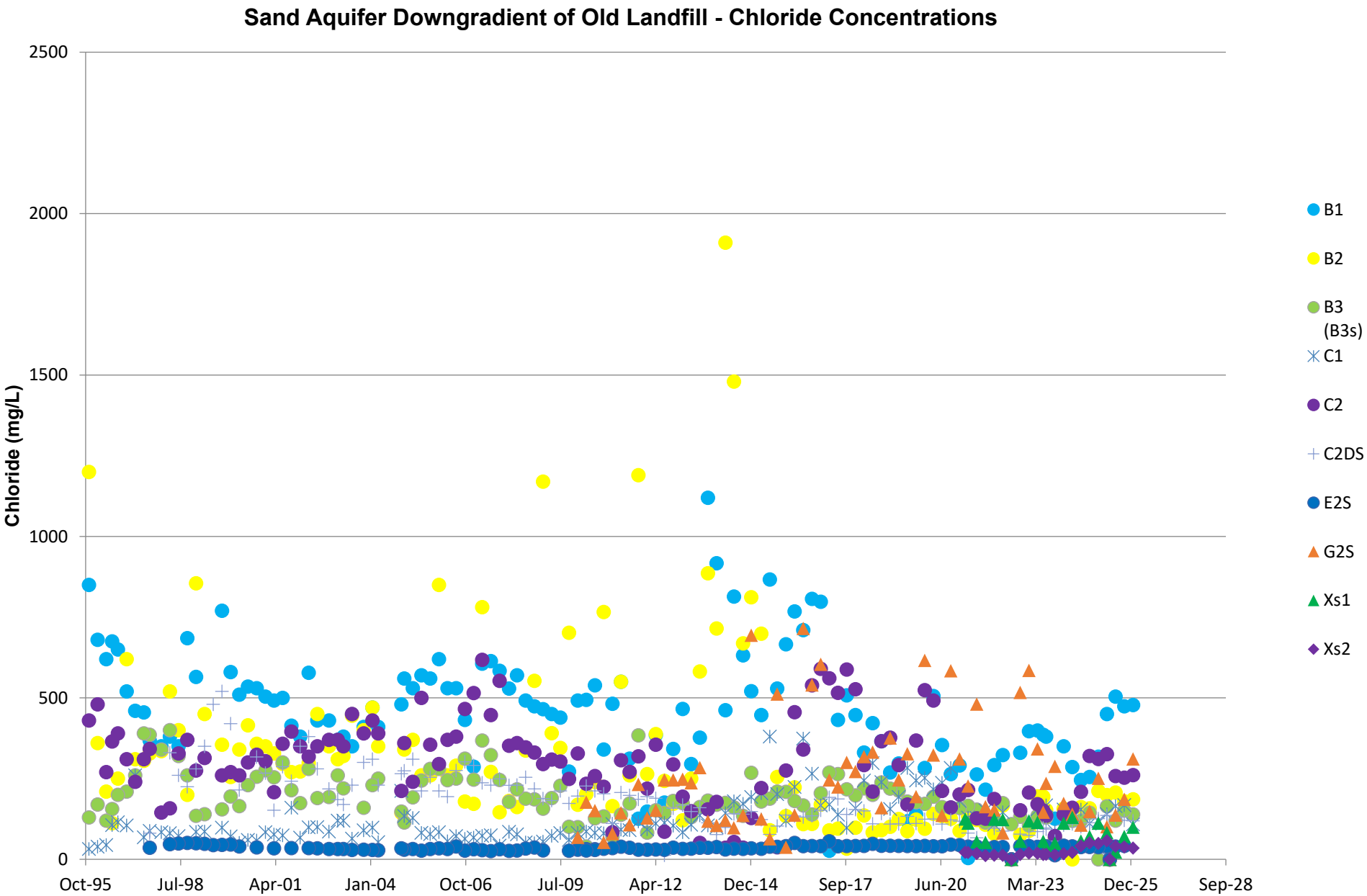

Gravel Aquifer - Ammoniacal-Nitrogen Concentrations
Note: Y-axis scale is Logarithmic
Ammoniacal-Ni (mg/L)
100.00
10.00
1.00
0.10
0.01
0.00
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
C2DD
D3rd
E1D
E2D
G1D
Xd1

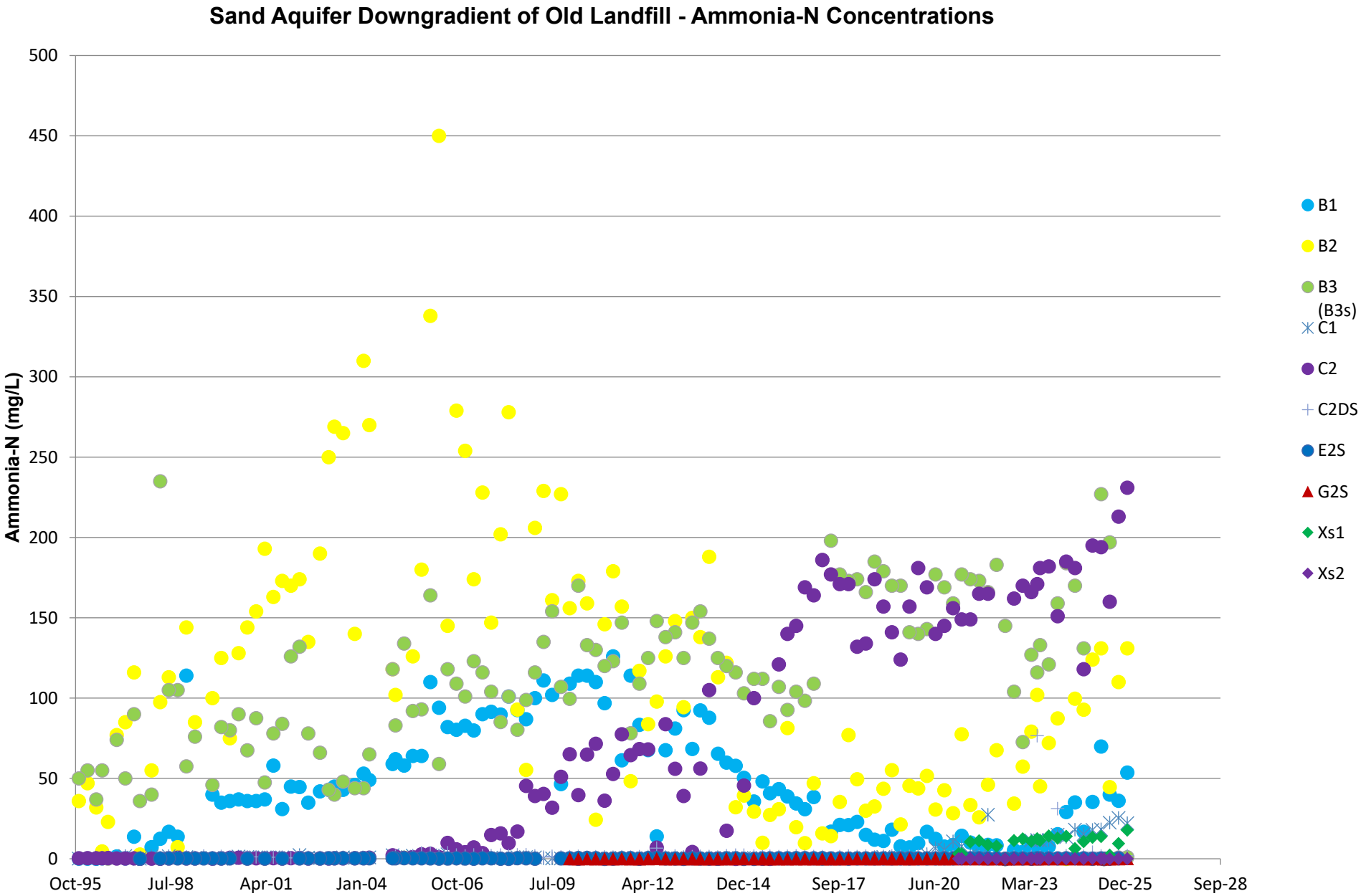

Gravel Aquifer - Conductivity Levels
Conductivity (mS/m)
500
450
400
350
300
250
200
150
100
50
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
C2DD
D3rd
E1D
E2D
G1D
Xd1

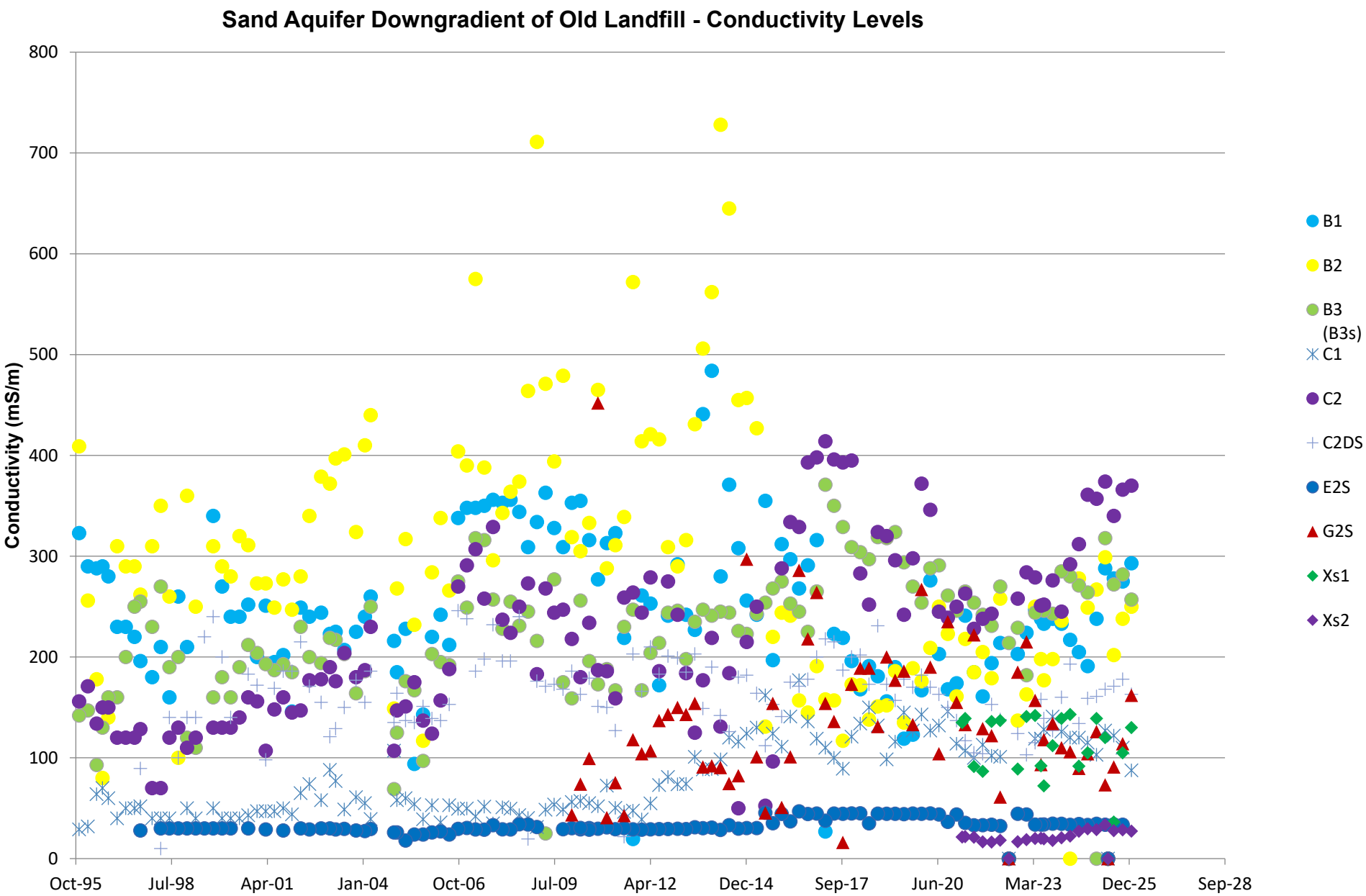

Gravel Aquifer - Sodium Levels
Sodium (mg/L)
400
350
300
250
200
150
100
50
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
C2DD
D3rd
E1D
E2D
G1D
Xd1

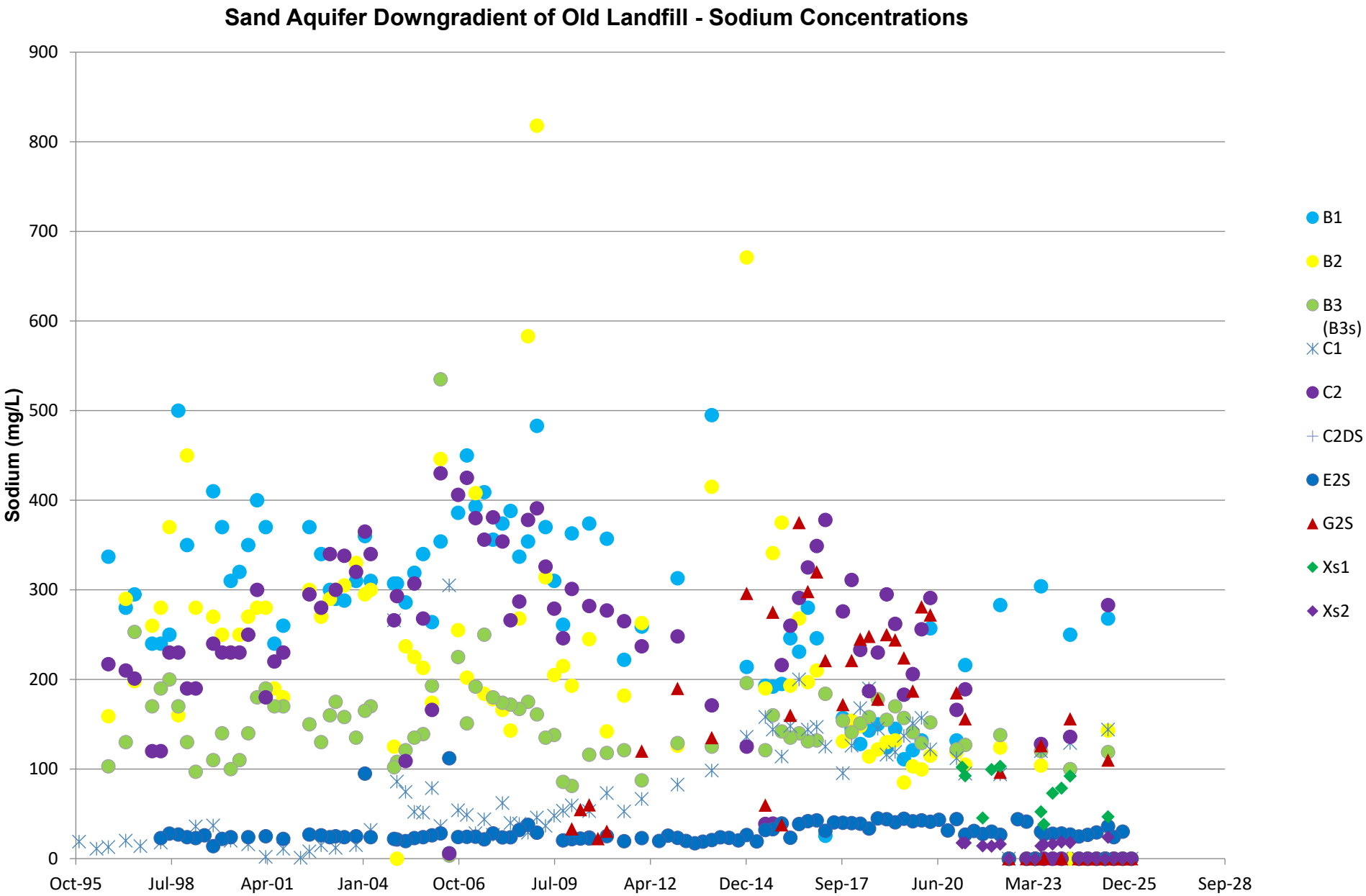

Gravel Aquifer - E. coli
E. coli (CFU/mL)
250
200
150
100
50
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
C2DD
D3rd
E1D
E2D
G1D
Xd1
NZDWS MAV E. coli Trigger Value

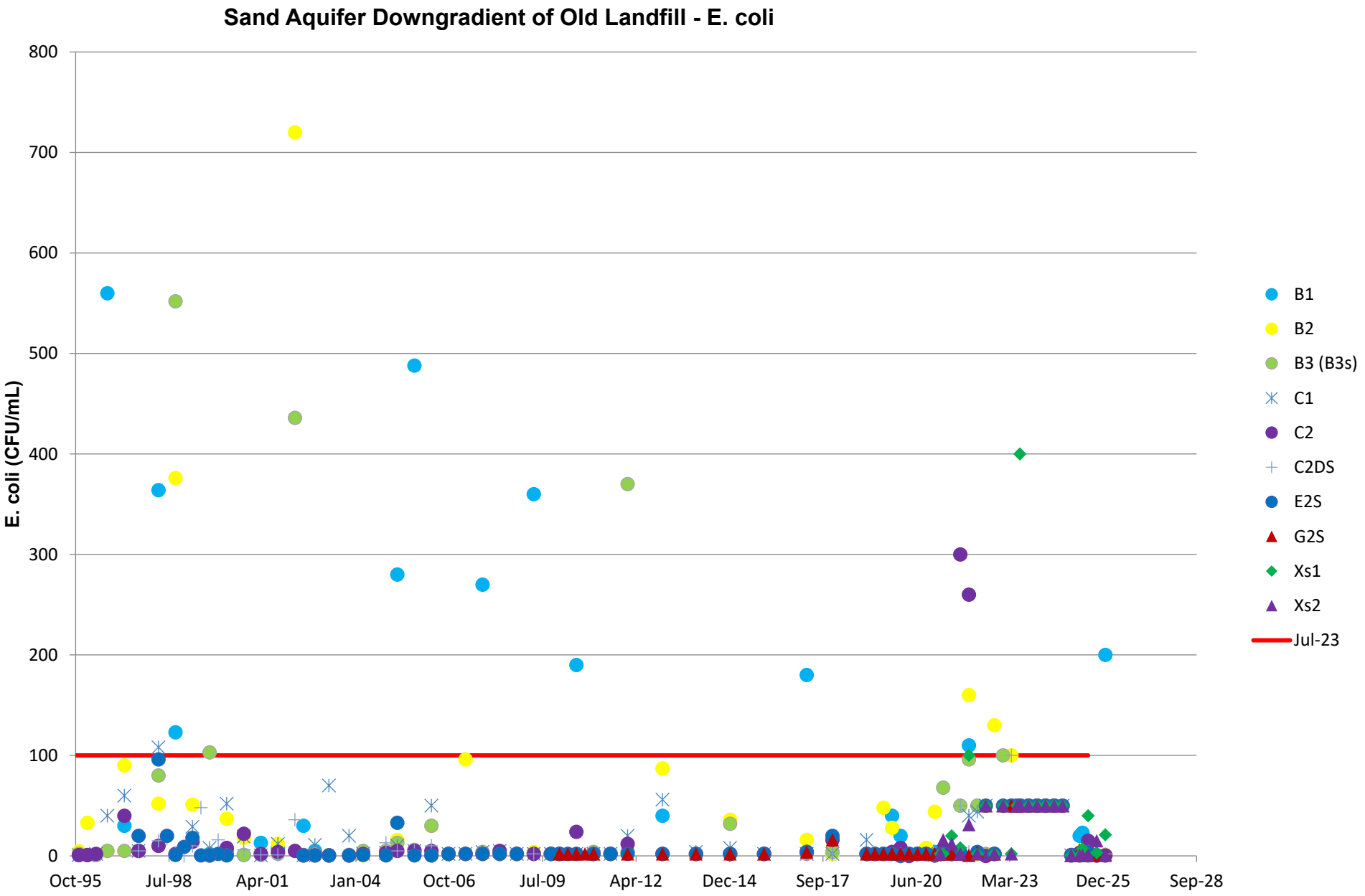

Sand Aquifer Downgradient of Old Landfill - Boron Concentrations
Boron (mg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
B1
B2
B3 (B3s)
C1
C2
C2DS
E2S
G2S
Xs1
Xs2


Sand Aquifer Downgradient of Old Landfill - Chloride Concentrations
Chloride (mg/L)
2500
2000
1500
1000
500
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
B1
B2
B3
(B3s)
C1
C2
C2DS
E2S
G2S
Xs1
Xs2

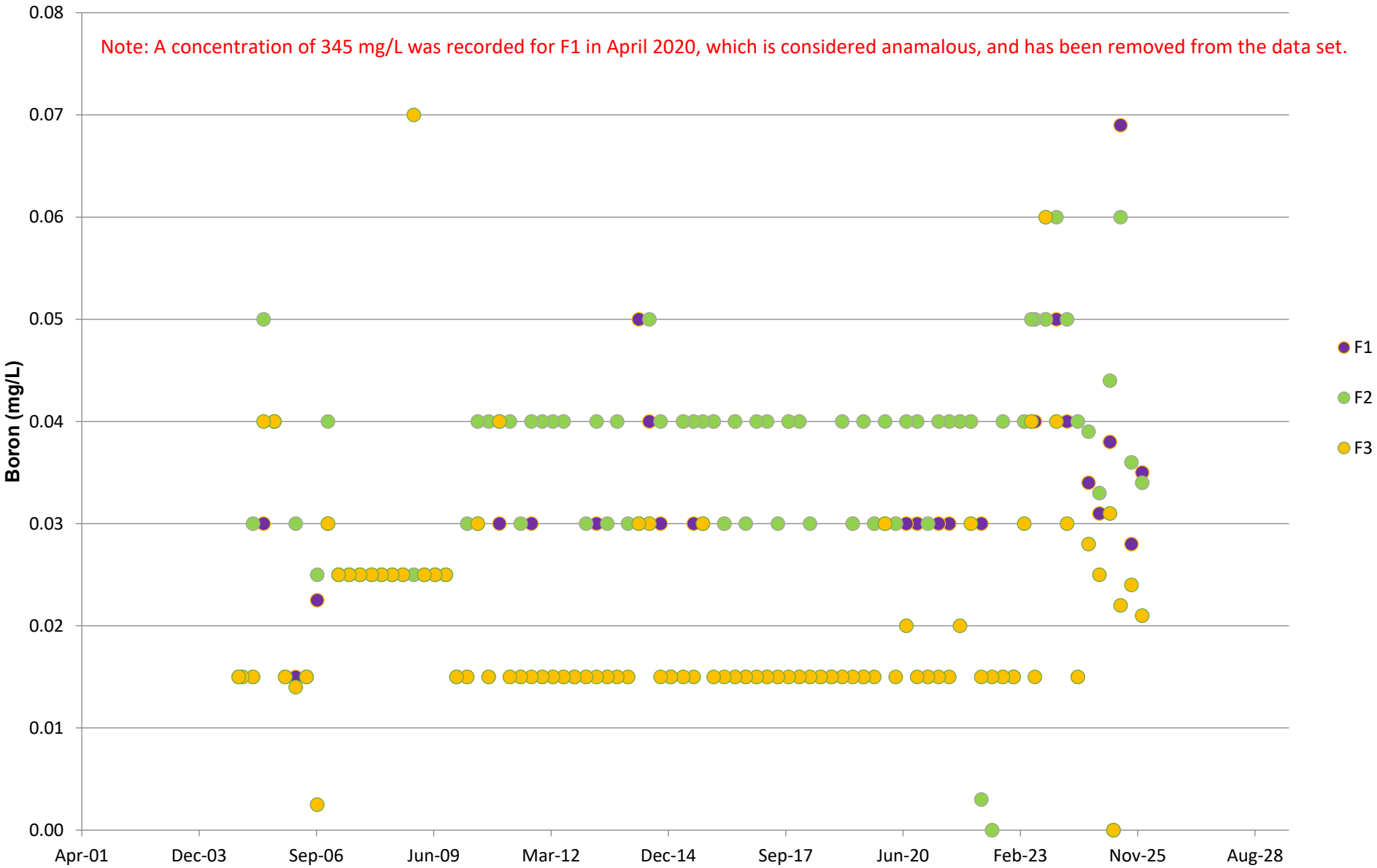

Sand Aquifer Downgradient of Old Landfill - Ammonia-N Concentrations
Ammonia-N (mg/L)
500
450
400
350
300
250
200
150
100
50
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
B1
B2
B3
(B3s)
C1
C2
C2DS
E2S
G2S
Xs1
Xs2

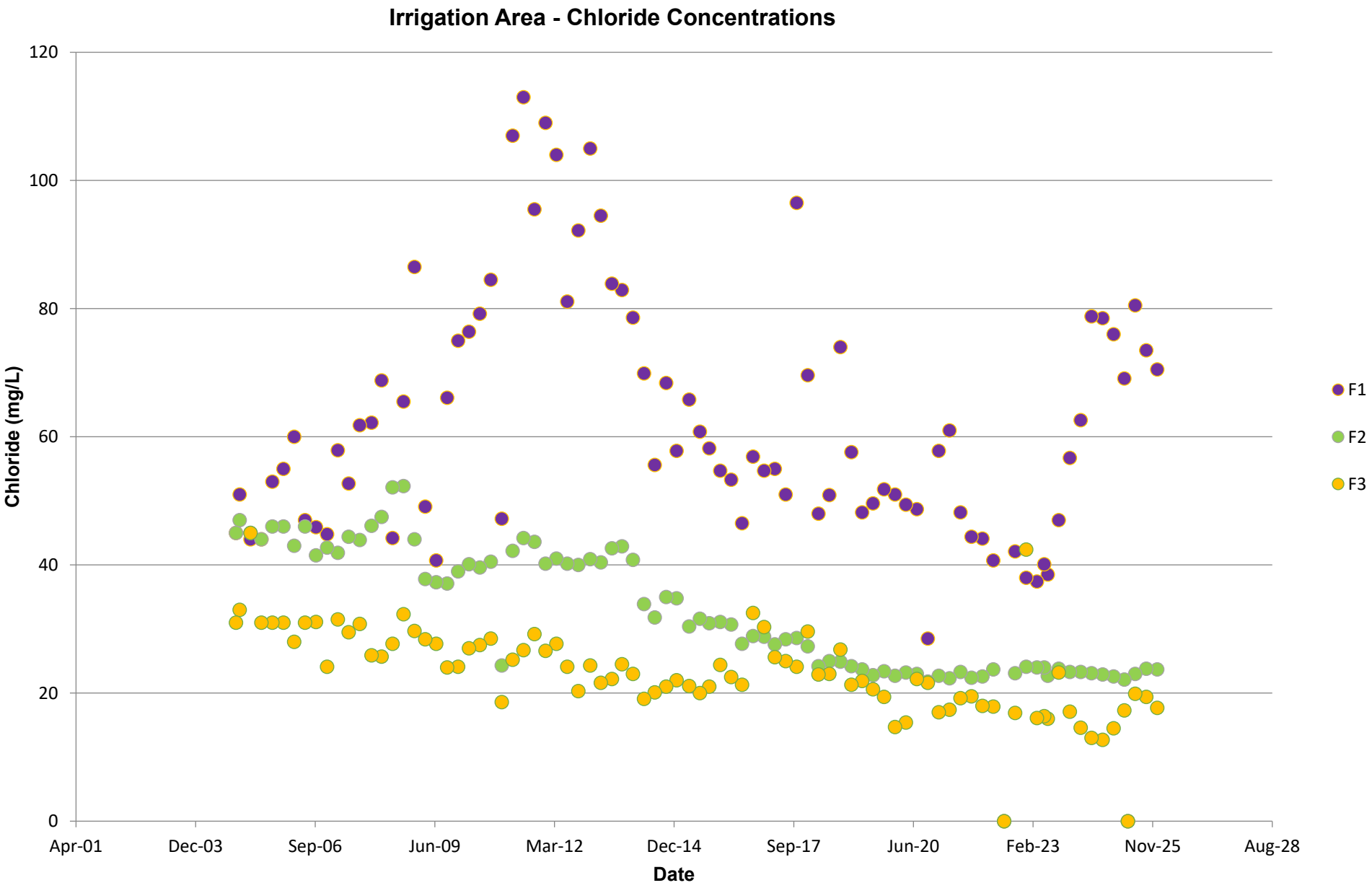

Sand Aquifer Downgradient of Old Landfill - Conductivity Levels
Conductivity (mS/m)
800
700
600
500
400
300
200
100
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
B1
B2
B3
(B3s)
C1
C2
C2DS
E2S
G2S
Xs1
Xs2

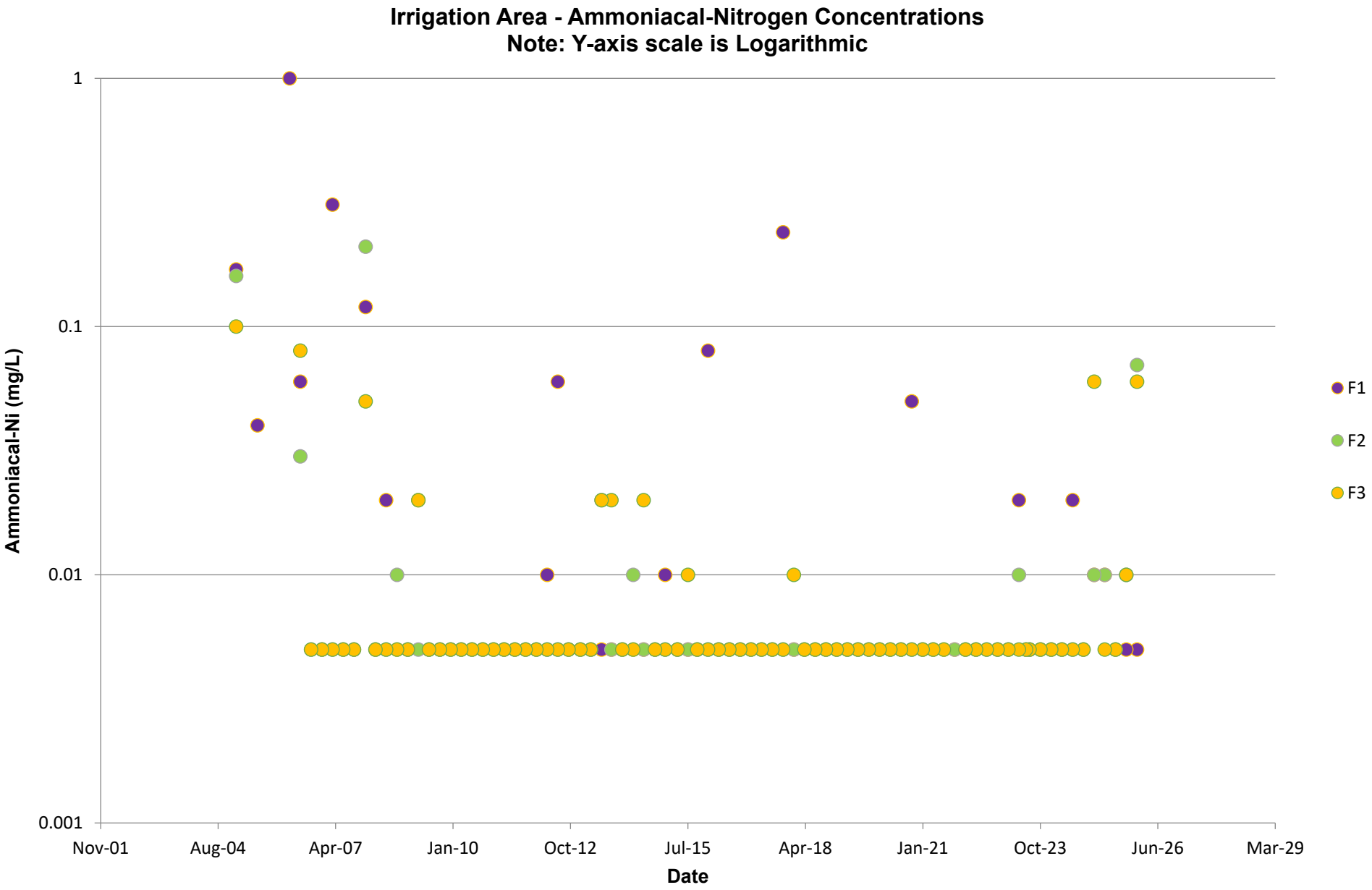

Sand Aquifer Downgradient of Old Landfill - Sodium Concentrations
Sodium (mg/L)
900
800
700
600
500
400
300
200
100
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
B1
B2
B3 (B3s)
C1
C2
C2DS
E2S
G2S
Xs1
Xs2

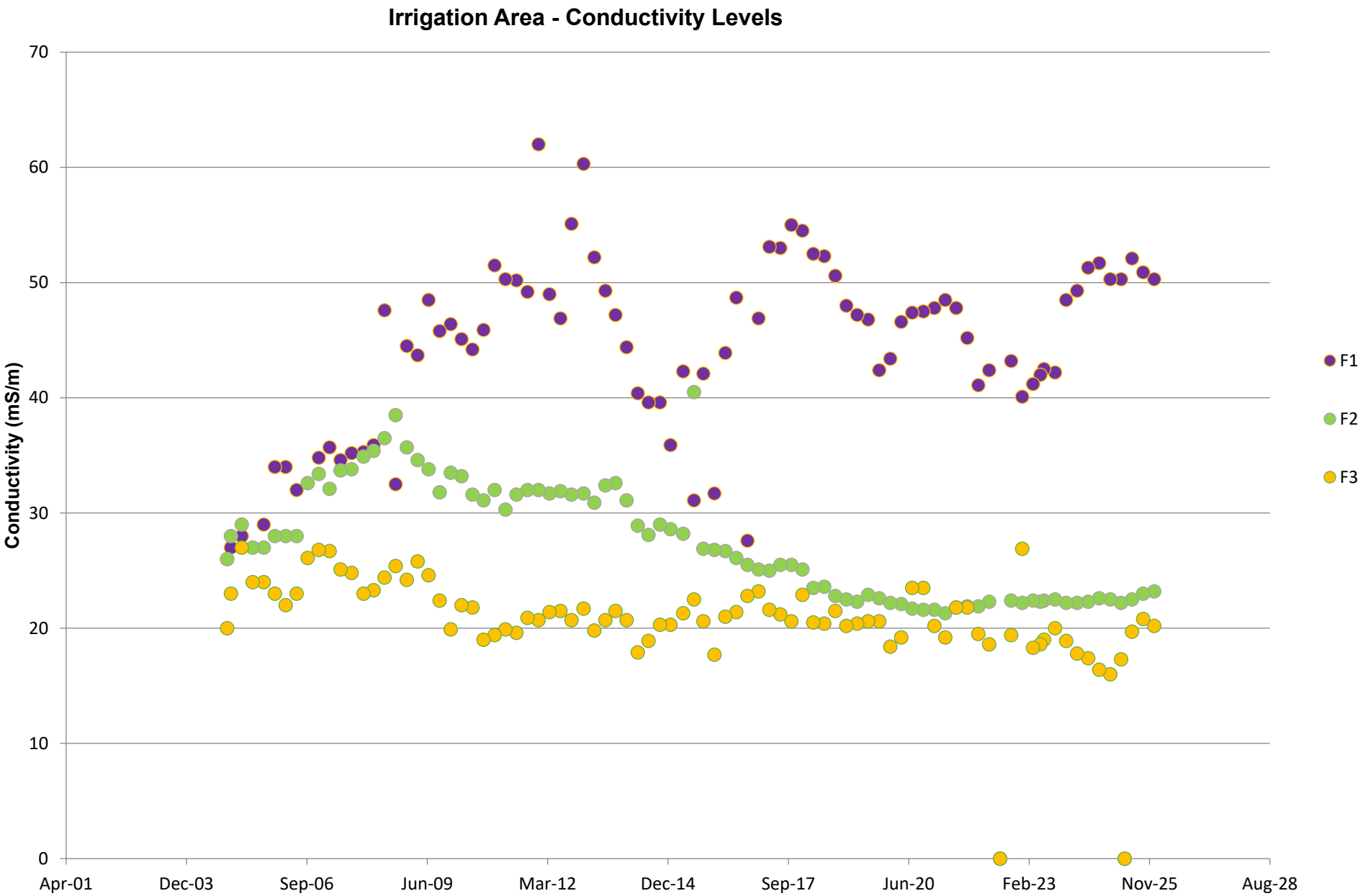

Sand Aquifer Downgradient of Old Landfill - E. coli
E. coli (CFU/mL)
800
700
600
500
400
300
200
100
0
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
B1
B2
B3 (B3s)
C1
C2
C2DS
E2S
G2S
Xs1
Xs2
Jul-23

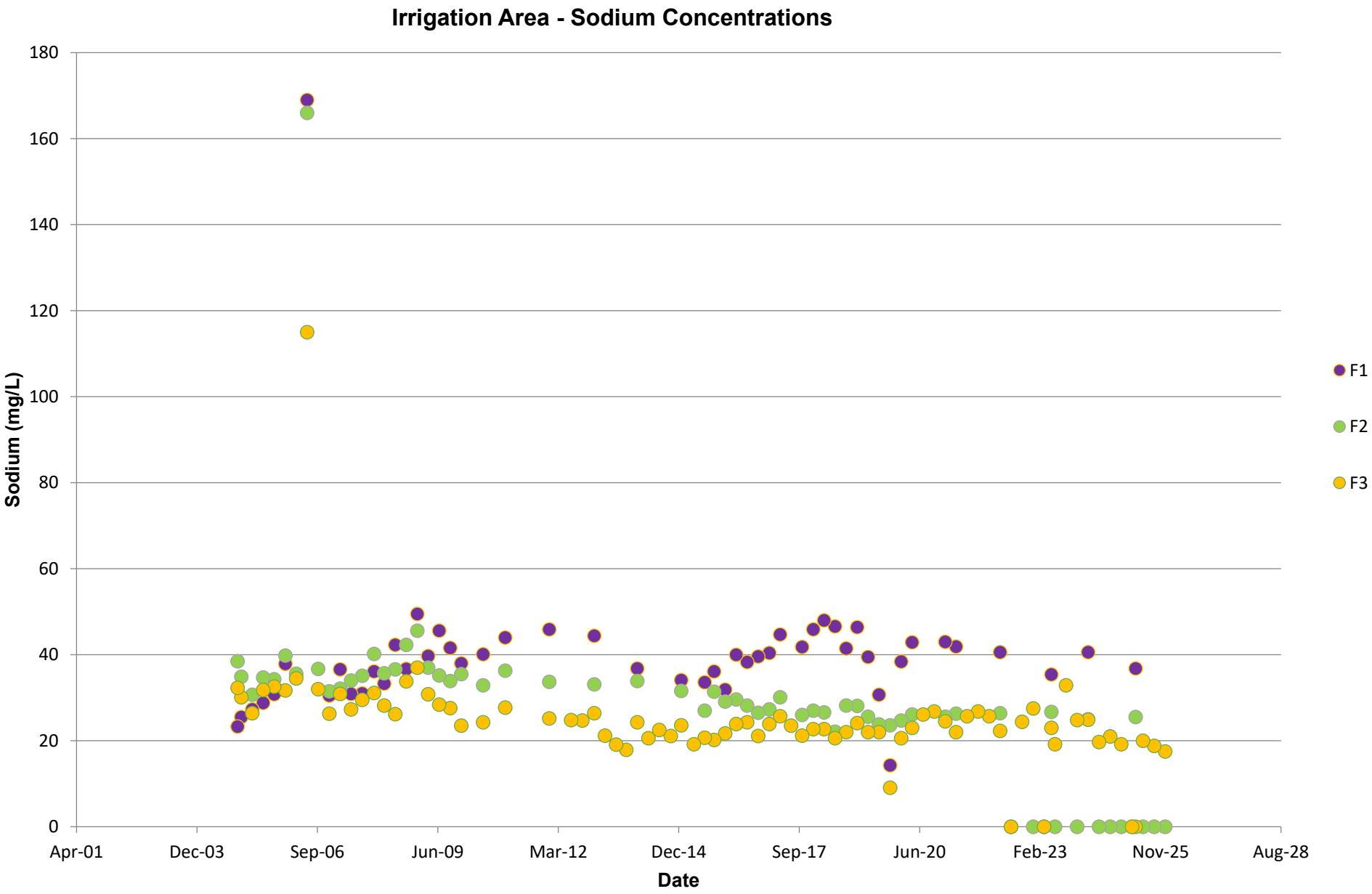
Irrigation Area - Boron Concentrations

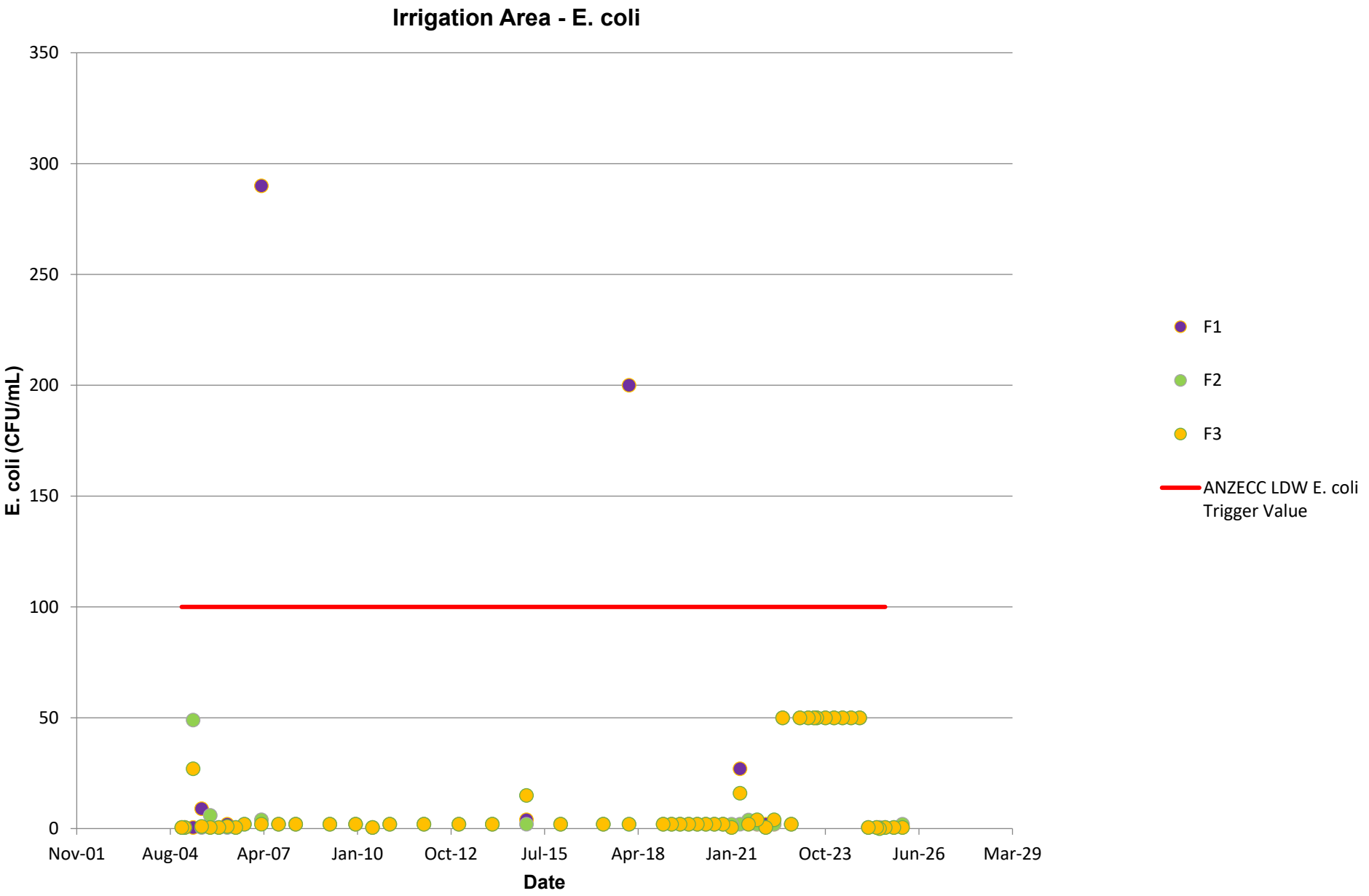


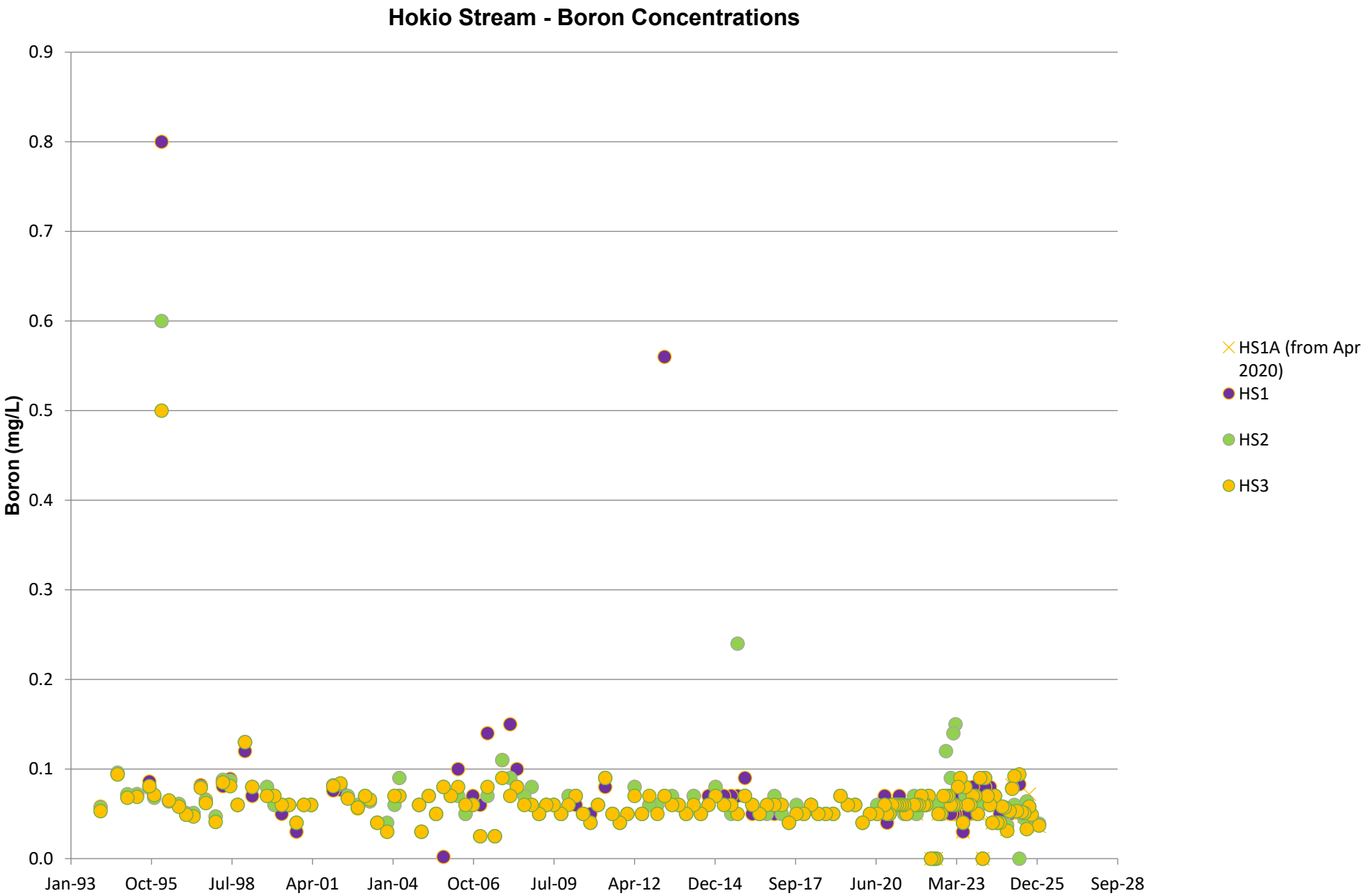

Irrigation Area - Chloride Concentrations
Chloride (mg/L)
120
100
80
60
40
20
0
Apr-01
Dec-03
Sep-06
Jun-09
Mar-12
Dec-14
Sep-17
Jun-20
Feb-23
Nov-25
Aug-28
Date
F1
F2
F3

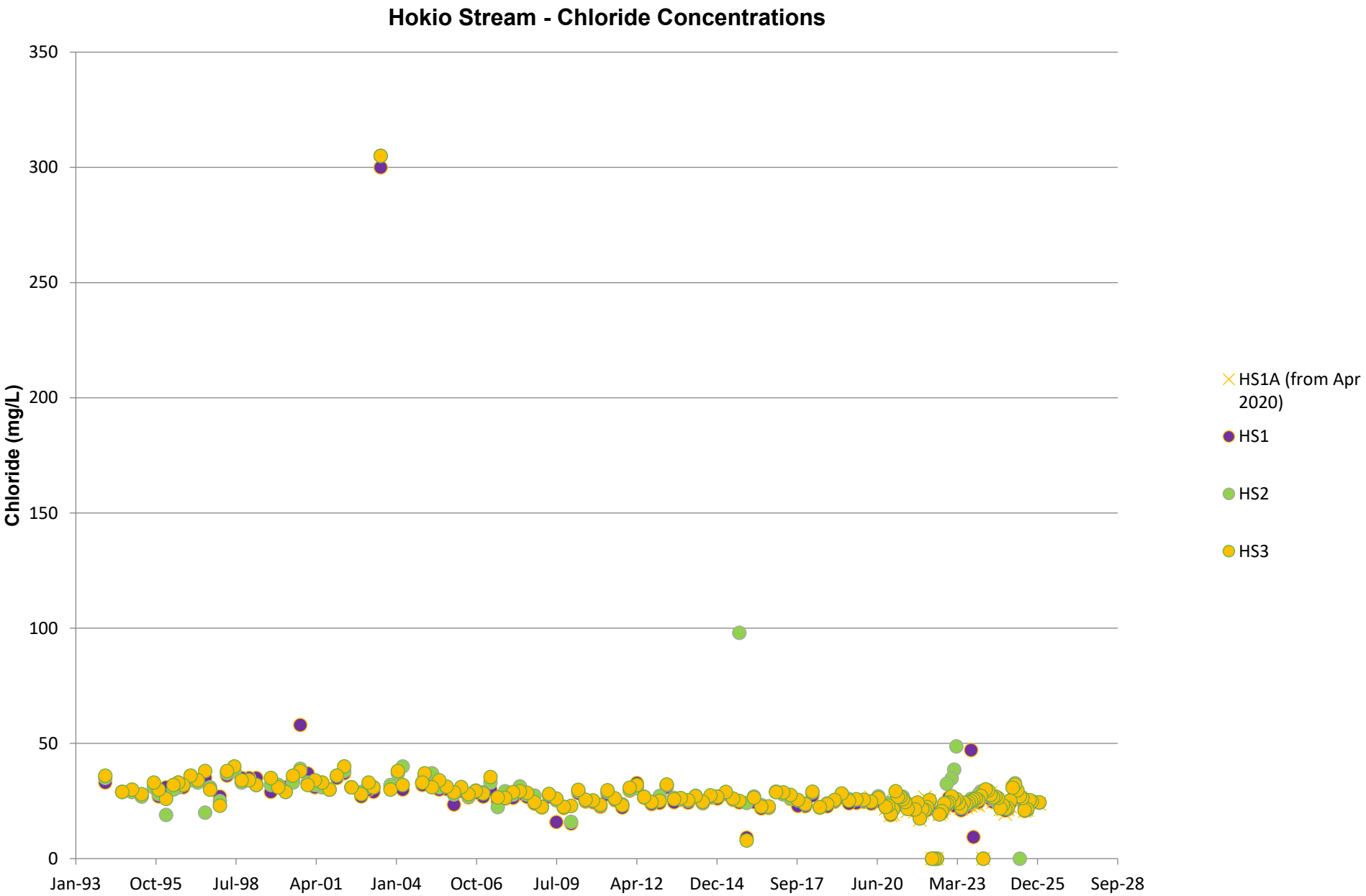

Irrigation Area - Ammoniacal-Nitrogen Concentrations
Note: Y-axis scale is Logarithmic
Ammoniacal-Ni (mg/L)
1
0.1
0.01
0.001
Nov-01
Aug-04
Apr-07
Jan-10
Oct-12
Jul-15
Apr-18
Jan-21
Oct-23
Jun-26
Mar-29
Date
F1
F2
F3

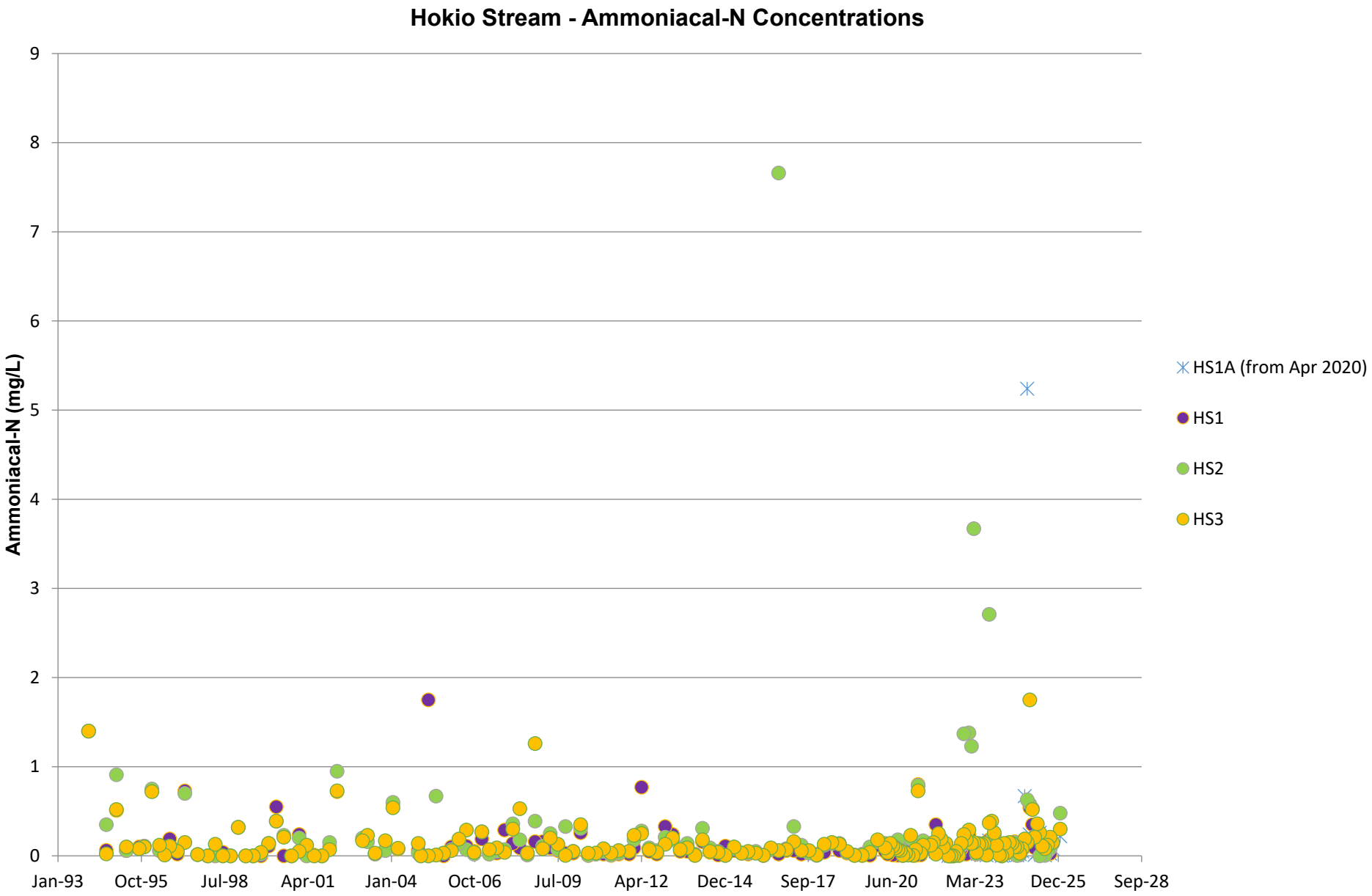

Irrigation Area - Conductivity Levels
Conductivity (mS/m)
70
60
50
40
30
20
10
0
Apr-01
Dec-03
Sep-06
Jun-09
Mar-12
Dec-14
Sep-17
Jun-20
Feb-23
Nov-25
Aug-28
F1
F2
F3

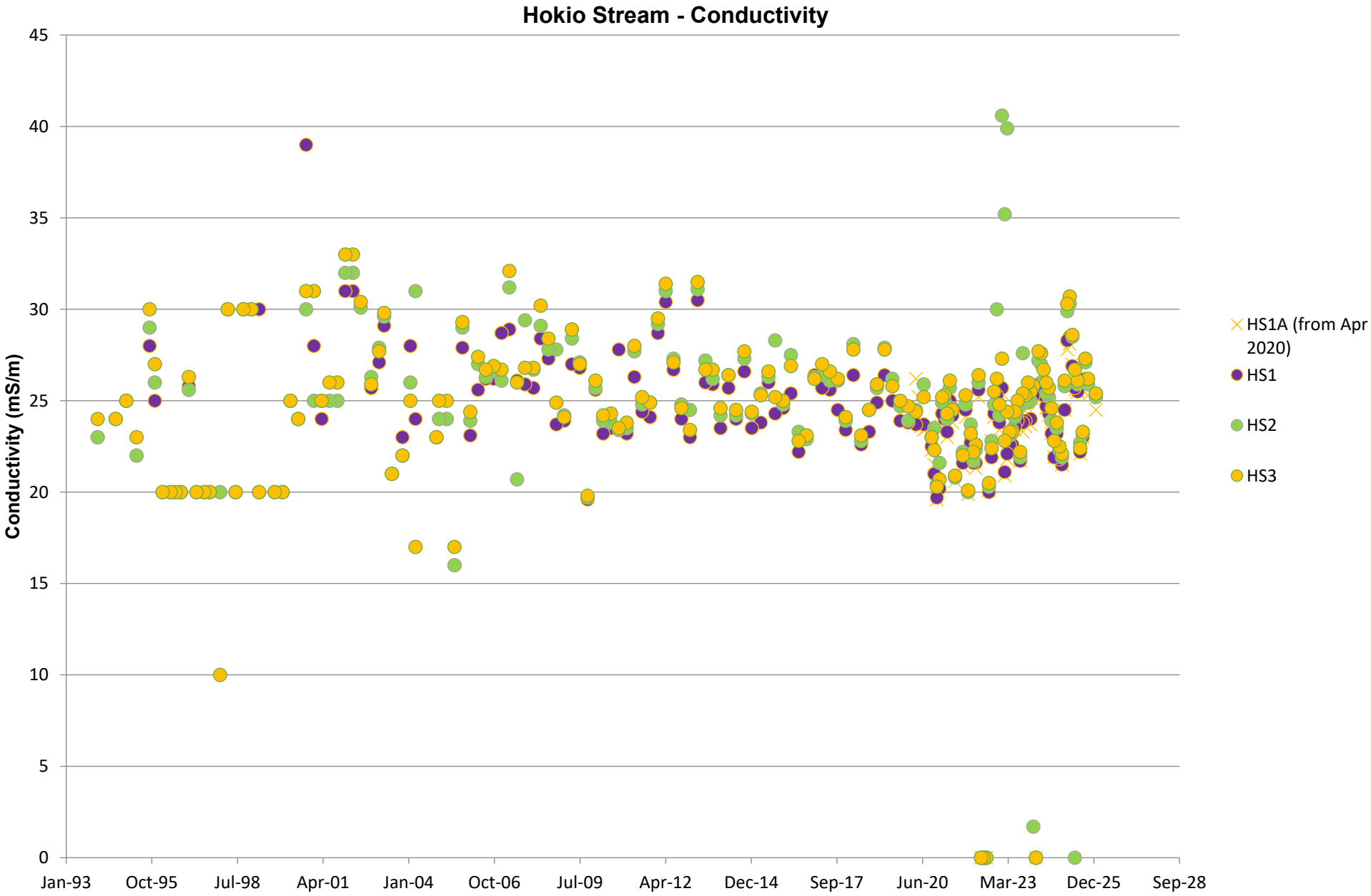

Irrigation Area - Sodium Concentrations
Sodium (mg/L)
180
160
140
120
100
80
60
40
20
0
Apr-01
Dec-03
Sep-06
Jun-09
Mar-12
Dec-14
Sep-17
Jun-20
Feb-23
Nov-25
Aug-28
Date
F1
F2
F3

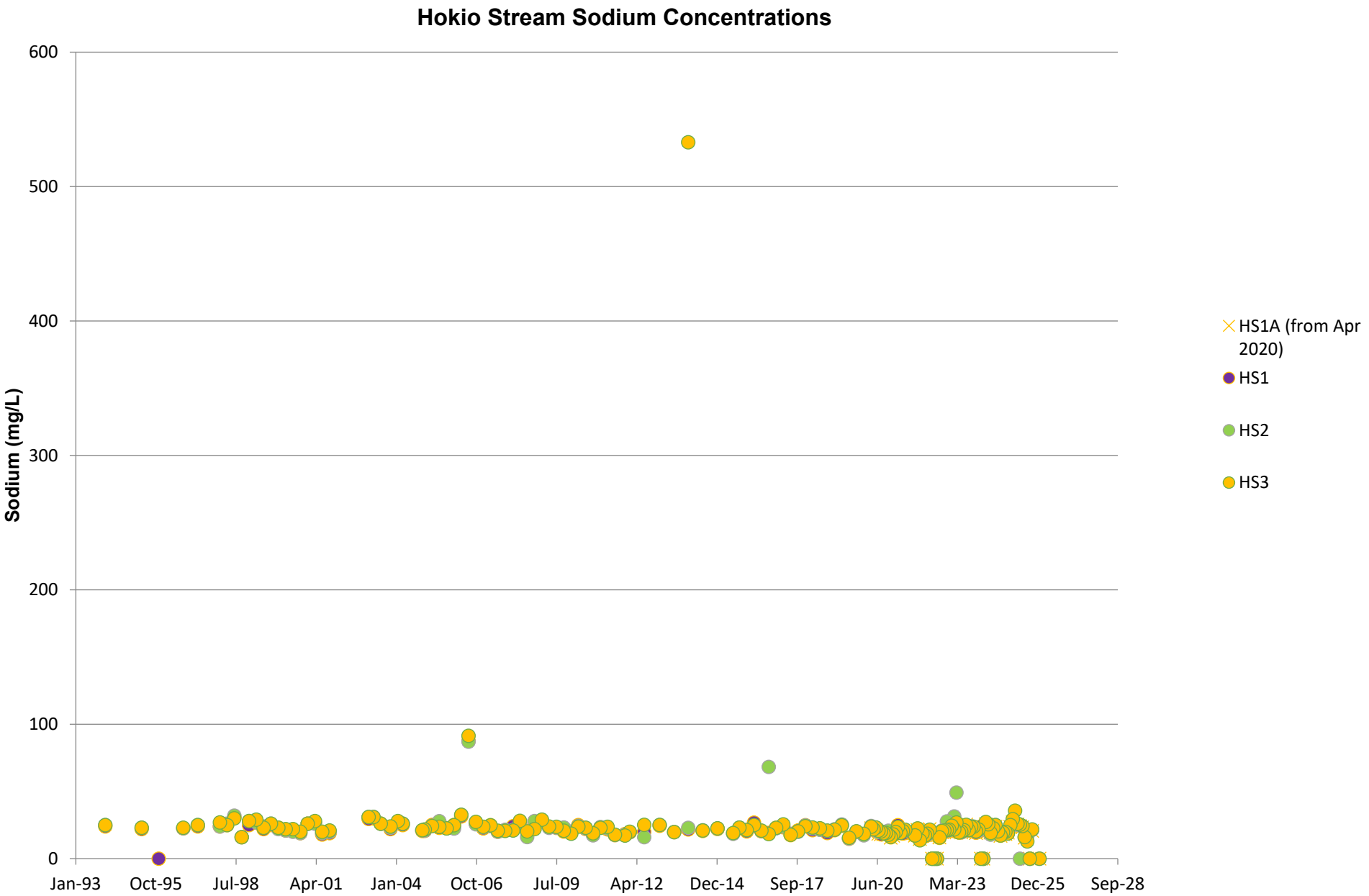

Irrigation Area - E. coli
E. coli (CFU/mL)
350
300
250
200
150
100
50
0
Nov-01
Aug-04
Apr-07
Jan-10
Oct-12
Jul-15
Apr-18
Jan-21
Oct-23
Jun-26
Mar-29
Date
F1
F2
F3
ANZECC LDW E. coli Trigger Value

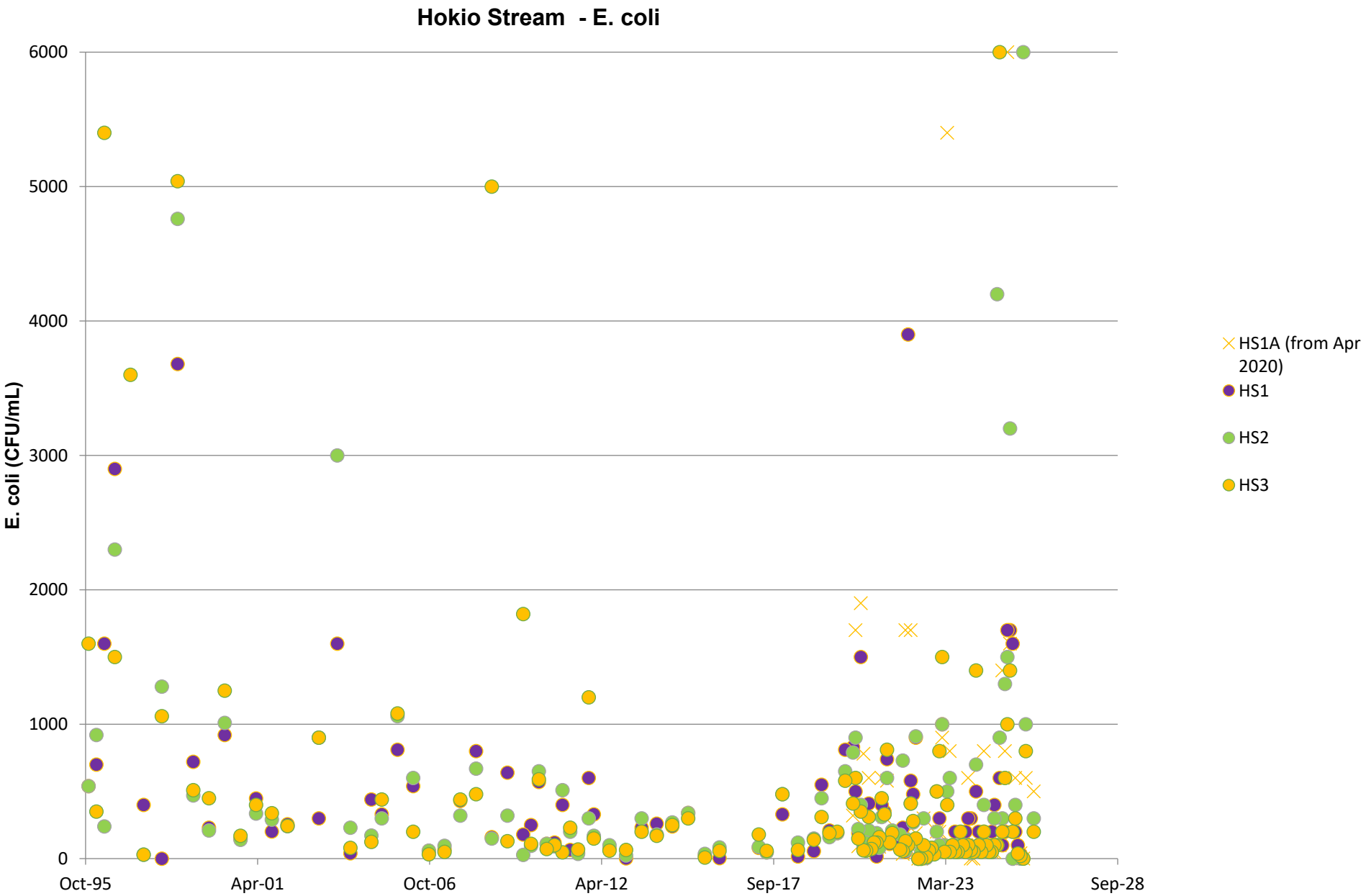

Hokio Stream - Boron Concentrations
Boron (mg/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Jan-93
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
HS1A (from Apr 2020)
HS1
HS2
HS3


Hokio Stream - Chloride Concentrations
Chloride (mg/L)
350
300
250
200
150
100
50
0
Jan-93
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
HS1A (from Apr 2020)
HS1
HS2
HS3


Hokio Stream - Ammoniacal-N Concentrations
Ammoniacal-N (mg/L)
0
1
2
3
4
5
6
7
8
9
Jan-93
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
HS1A (from Apr 2020)
HS1
HS2
HS3


Hokio Stream - Conductivity
Conductivity (mS/m)
45
40
35
30
25
20
15
10
5
0
Jan-93
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
HS1A (from Apr 2020)
HS1
HS2
HS3


Hokio Stream Sodium Concentrations
Sodium (mg/L)
600
500
400
300
200
100
0
Jan-93
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Jun-20
Mar-23
Dec-25
Sep-28
HS1A (from Apr 2020)
HS1
HS2
HS3


Hokio Stream - E. coli
E. coli (CFU/mL)
6000
5000
4000
3000
2000
1000
0
Oct-95
Apr-01
Oct-06
Apr-12
Sep-17
Mar-23
Sep-28
HS1A (from Apr 2020)
HS1
HS2
HS3

Appendix E Landfill Gas Monitoring Results at GW Bores for January 2026

Entry Date	Borehole	Methane (CH_4) %	Carbon Dioxide (CO_2) %	Hydrogen Sulphide (H_2S) ppm	Oxygen (O_2) %	Weather conditions	Air temperature °C
23/01/2026	Levin Landfill: Levin B1	0	0.41	0	20	Sunny	21
23/01/2026	Levin Landfill: Levin B2	0	1.01	0	19.3	Sunny	21
23/01/2026	Levin Landfill: Levin B3s	0.08	0.19	0	20.2	Sunny	21
23/01/2026	Levin Landfill: Levin C1	0.01	0.07	1	19.9	Sunny	21
23/01/2026	Levin Landfill: Levin C2	0.82	2.97	0	19.6	Sunny	21
23/01/2026	Levin Landfill: Levin C2dd	0.01	0.12	0	20.4	Not stated	21
23/01/2026	Levin Landfill: Levin C2ds	0	0.07	1	20.4	Sunny	21
23/01/2026	Levin Landfill: Levin D1	0	0.22	0	20.6	Not stated	19
23/01/2026	Levin Landfill: Levin D2	0	0.43	0	20.3	Not stated	18
23/01/2026	Levin Landfill: Levin D3rd	0	0.07	1	20.6	Not stated	19
23/01/2026	Levin Landfill: Levin D3rs	0	0.09	0	20.6	Not stated	19
23/01/2026	Levin Landfill: Levin D4	0	0.07	0	20.7	Sunny	19
23/01/2026	Levin Landfill: Levin D5	0	0.1	0	20.5	Not stated	19
23/01/2026	Levin Landfill: Levin D6	0.04	0.08	1	20.6	Not stated	19
23/01/2026	Levin Landfill: Levin E1d	0	0.07	1	20.5	Not stated	19
23/01/2026	Levin Landfill: Levin E1s	0.03	0.08	0	20.5	Sunny	19
23/01/2026	Levin Landfill: Levin E2d	0	0.08	0	20.4	Not stated	21
23/01/2026	Levin Landfill: Levin E2s	0	0.11	0	20.3	Sunny	21
23/01/2026	Levin Landfill: Levin F1	0	0.07	2	20.6	Not stated	18
23/01/2026	Levin Landfill: Levin F2	0	0.07	0	20.7	Not stated	19
23/01/2026	Levin Landfill: Levin F3	0	0.08	0	20.6	Not stated	19
23/01/2026	Levin Landfill: Levin G1d	0.08	0.06	1	20.8	Not stated	18
23/01/2026	Levin Landfill: Levin G1s	0	0.05	0	20.9	Not stated	17.7
23/01/2026	Levin Landfill: Levin G2s	0.02	0.1	1	20.5	Not stated	19.8
23/01/2026	Levin Landfill: Levin Xd1	0.01	0.09	0	20.2	Sunny	21
23/01/2026	Levin Landfill: Levin Xs1	0	0.1	1	19.8	Not stated	22
23/01/2026	Levin Landfill: Levin Xs2	0.08	0.17	0	19.4	Sunny	22

Stantec

Stantec is a global leader in sustainable engineering, architecture, and environmental consulting. The diverse perspectives of our partners and interested parties drive us to think beyond what's previously been done on critical issues like climate change, digital transformation, and future-proofing our cities and infrastructure. We innovate at the intersection of community, creativity, and client relationships to advance communities everywhere, so that together we can redefine what's possible.