

Te Hui o Te Kaunihera ā-Rohe o Heretaunga Hastings District Council

District Planning and Bylaws Subcommittee Meeting

Kaupapataka

Attachments Under Separate Cover

Te Rā Hui:

Meeting date: Wednesday, 22 September 2021

Te Wā:

Te Wāhi:

Time: **1.00pm**

Council Chamber

Ground Floor

Venue: Civic Administration Building

Lyndon Road East

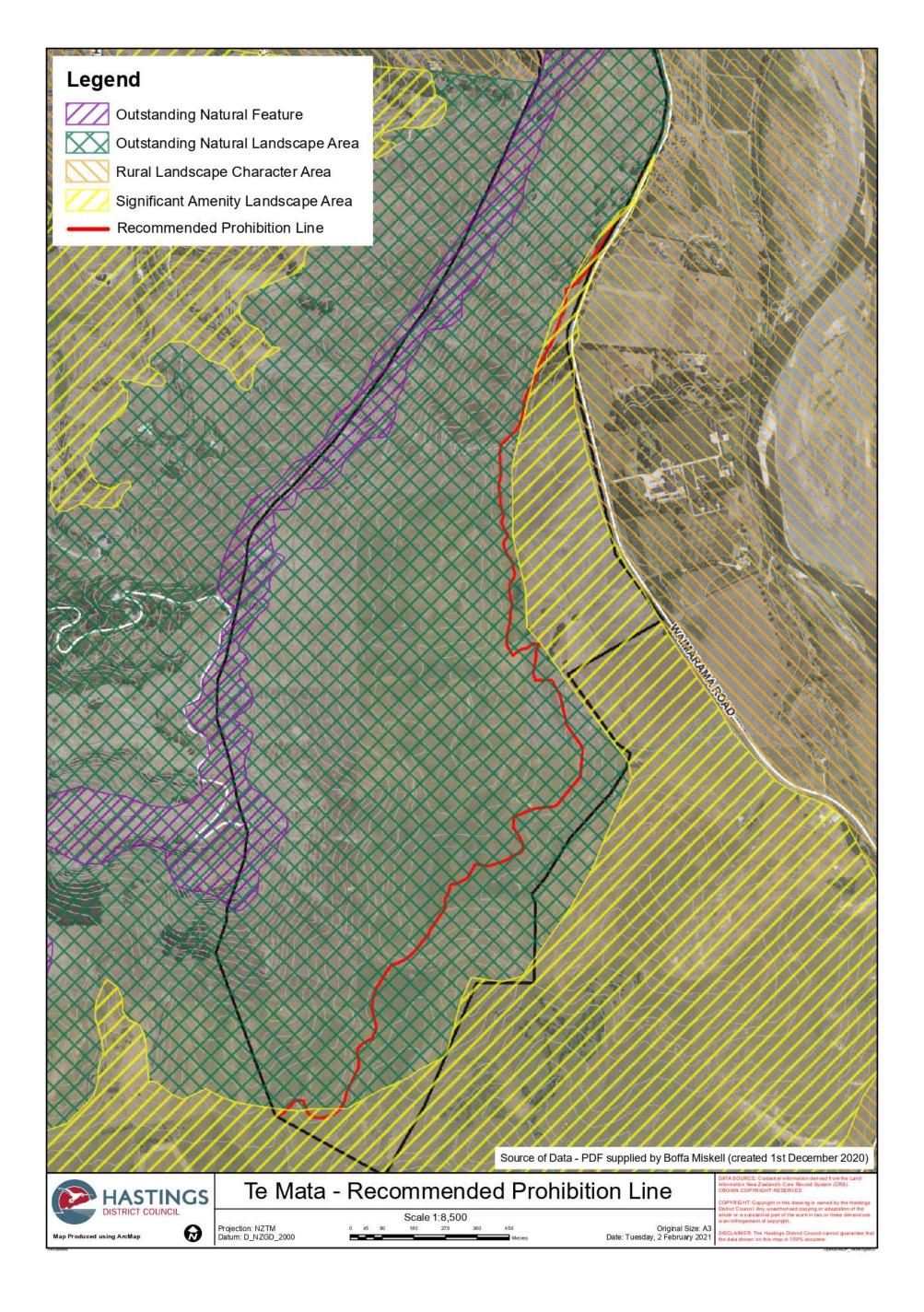
Hastings



ITEM	SUBJECT		PAGE		
4.	PROPOSED PLAN CHANGE 4 - PROTECTION OF EASTERN FACE OF TE MATA, TE N MATA O RONGOKAKO, TE KARANEMANEMA TE MATA O RONGOKAKO (HEREIN REFERRED TO AS TE MATA TE MATA TE TIPUNA)				
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	Attachment 2:	Proposed Rules Table - Te Mata Eastern Face	5		
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6.	STATE OF THE ENVIRONMENT DRAFT REPORT 2019				
	Attachment 1:	Draft State of the Environment Report 2019 (10 September 2021)	13		

Map Showing Prohibition Line with Landscape Areas

Attachment 1



Eastern Face of Te Mata – District Plan Provisions

Activity	Existing Rule	Location	Proposed Rule- Te Mata Eastern Face	Location
Buildings	(1) Buildings associated with any activity other than residential and visitor accommodation within the 240m contour—non complying. (2) Buildings for residential or visitor accommodation within the 240m contour—prohibited (3) Buildings greater than 50m² gfa below the 240m contour and within the ONFL—non complying (4) Buildings less than 50m² gfa below the 240m contour and within ONFL—permitted (5) Buildings within the SAL6 permitted	Section 17.1 Landscapes	Lowering of the Building Prohibition line 1) All buildings within the Building Prohibition area other than buildings accessory to land based primary production under 50m² – prohibited. 2) Buildings accessory to land based primary production under 50m² within the Building Prohibition area – noncomplying. 3) Buildings greater than 50m² gfa below the Building Prohibition area and within the ONFL- noncomplying 4) Buildings less than 50m² below the Building Prohibition line and within the ONFL – RD 5) Buildings greater than 50m² gfa within SAL6 RD	Section 17.1 Landscapes

Item 4 Proposed Plan Change 4 - Protection of Eastern Face of Te Mata, Te Mata o Rongokako, Te Karanemanema Te Mata o Rongokako (herein referred to as Te Mata ... Te Mata te Tipuna)

Proposed Rules Table - Te Mata Eastern Face Attachment 2

			6) Buildings less than 50m ² gfa within SAL6 controlled.	
Plantations	Non complying within the entire ONFL	Section 17.1 Landscapes and Appendix 43	Non- complying within the ONFL	Section 17.1 Landscapes and Appendix 43
	Permitted activity within SAL6		Plantations within SAL6 – RDNN with the exception of revegetation around existing seepage and natural wetland areas.	
Network Utilities	Non-complying activity including any support structures and associated earthworks	Section 17.1 Landscapes	Non-complying activity including any support structures and associated earthworks. Assessment Criteria includes the consideration of cultural effects.	Section 17.1 Landscapes
Signs	Permitted Activity up to 2.5m ² in area	Section 17.1 and 28.1	Non-complying with the exception of signs relating to safety and Te Mata Trust Board activities.	Section 17.1 and 28.1
Earthworks	Permitted activity up to 200m³ per site per year and 500m³ per site per year for maintenance of existing farm tracks fencing and drains. Discretionary activity for cuts with a vertical extent greater than 1 metre	Section 27.1	Permitted activity up to 50m³ per site per year and 500m³ per site per year for maintenance of existing farm tracks fencing and drains. Discretionary activity for cuts with a vertical extent greater than 1 metre	Section 27.1
			Re wording of the assessment criteria to make explicit recognition of the effects on cultural landscapes.	
			Re word Policy EMP13 so that there is clear reference to cultural landscapes.	
			SAL6 – Permitted activity up to 200m³ per site per year and 500m³ per site per year for maintenance of	

Item 4 Proposed Plan Change 4 - Protection of Eastern Face of Te Mata, Te Mata o Rongokako, Te Karanemanema Te Mata o Rongokako (herein referred to as Te Mata ... Te Mata te Tipuna)

Proposed Rules Table - Te Mata Eastern Face Attachment 2

	existing farm tracks, fencing, and drains.
Appendix 43 Outstanding Landscapes	Need to add Cultural issues in as a management issue for ONFL1
Appendix 44 Significant Amenity Landscapes	Need to add Cultural issues in as a management issue for SAL6
Fences within ONFL1	Performance standard that any new fences shall be aligned with the grain of the landscape.



this report we have drawn attention to the fact that this wahi whenua is inextricably linked with 800-1,000 years of whakapapa. Its soils contain the blood of our tipuna (transl. ancestors) and taonga (transl. cultural artefacts) that constitute a vitally important cultural heritage for the marae hapû of Heretaunga. This wahi whenua represents a complex layering of domains of tapu and noa that are linked with the former expressions of kawa, kaupapa and tikanga by our tipuna (transl. ancestors). The status 'wāhi whenua' recognises that this is not only an outstanding natural landscape, it is a landscape what has been shaped by centuries of human occupation.

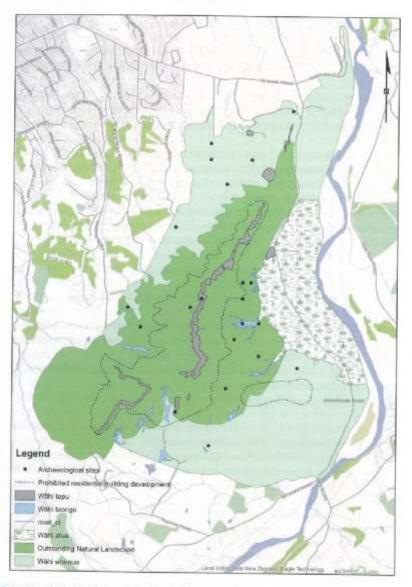
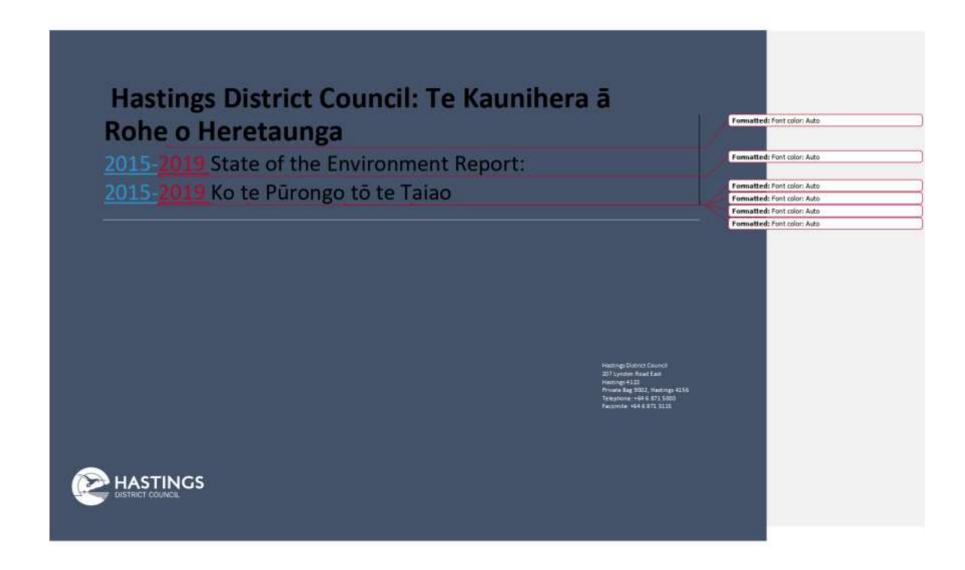


Figure 28 A map of the Te Matā ... Te Mata te Tipuna study area that depicts recommended planning zones in addition to the existing Outstanding Natural Landscape zone and registered archaeological sites (Source: LINZ base map, Adam Forbes 2018, Landcare Research PNW).

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Ітем 6





He Mihi

Kei ngā mana, kei ngā reo, kei ngā pari kāranguranga o tēnā pito, o tēnā takwā, o tēnā hapū o te rohe whānul o Heretaunga, anei ngā kupu whakamīha ki a koutou katoa!

E tika ana kia tukuna atu ngā whakaaro ki a rātau mā ko ngā rau-opiopio kua purea atu e ngā hau maiangi, e ngā hau pūkerikeri ki tua o te ārai. Kāti rātau te tira mātai pō ki a rātau, waiho ake ko tūtau te tira mātai so ki a tātau.

Tēnā iš tātau katoa e whakamana nei i 50 tātau reo rangatira i raro Lite āhua o ngā kupu körero ā kui mā. ā koro mā me ngā tāhuhu körero o te rohe whānui o Heretaunga.

Kei ngā marae rua tekau mā whā o Te Kaunihero 3-Rohe o Heretaunga, kei ngā hapū kārangaranga, kei ngā Talwhenua o te takwā nei, anei anō te maioha ki a koutou, otirā, ki a tātau katoa.

Otiră, Heretaunga-ara-rau, Heretaunga-haukū-nui. Heretaungatiāuro-te-kāhu, Heretaunga-raorao-haumako, Heretaungaringahora, Heretaunga takoto noa; tihei Heretaunga Greetings to you the many, many vaices from every corner of the district and community of Heretaunga, greetings and solutations to one, to all!

2015-2019 for te Püronga tál te Taisa

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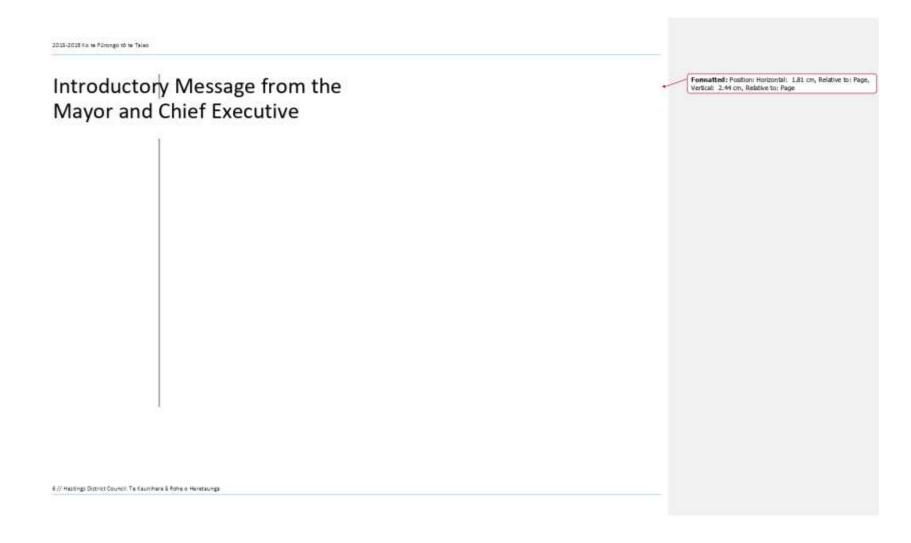
It is important that in moving forward, we acknowledge the post and so we remember our loved ones across the district who have passed and whose legacies we uphald today.

Greetings to us all as we celebrate our stance as a Council in acknowledging the place of te rea Māari today across Heretaunga district, a language and history that is both rich and pertinent to community development today.

To our marge and hope across the district and our will partners including Post-Settlement Governance Entities and Talwhema, greetings and acknowledgements to you.

And so it is with pride that we acknowledge Herretainga of its converging According bothways, Heretainga of its life-giving dews and waters, Heretainga of its beauty seen from the eye of the how Heretainga of its fertile plans. Heretainga of its hospitality and open arms, and Heretainga of its many departed chiefs, we acknowledge the living spirit of Heretainga here with us today!

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2015-2019 for te Püronga tál te Taisa

Introductory Message from the Mayor and Chief Executive

We have great pleasure in presenting to you, the <u>third</u> State of the Environment Report for the Hastings District. The Report is a snapshot of the Hastings District detailing current environmental conditions and the interaction between the people and the environment as at 31 December 2019.



As Mayor and Chief Executive of Hastings District Council, we are proud to present the State of the Environment Report for the wider Herstaurga area. This is a snapphot of current environmental conditions and the interaction between our people and the environment as at 31 December 2019.

Our monitoring and reporting of the state of the environment provides council and our community with information on the condition of the environment we live in. From this, we can identify key environmental pressures and make a plan on how, as a community, we react to those.

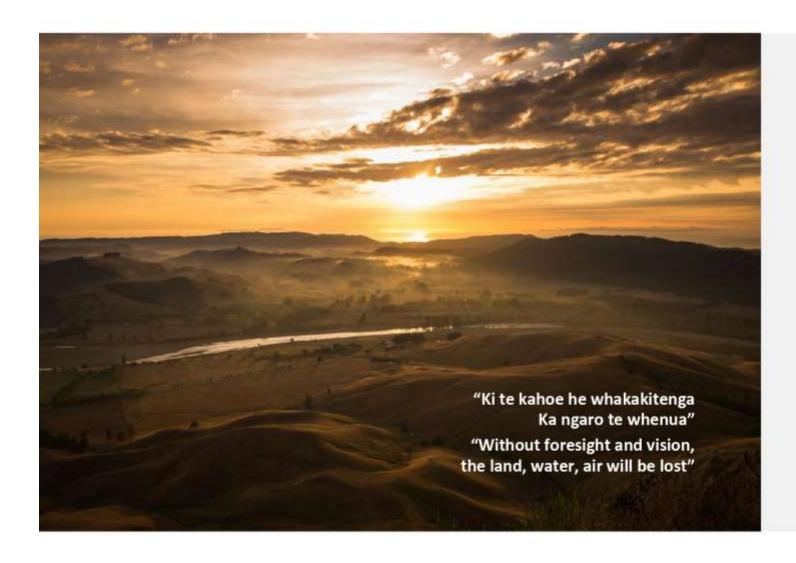
it is important we are all informed about how we are performing in the management of our natural and built environment. This is a report card on ruly ust Hastings District Council's management of the environment, but also the Hawke's Say Regional Council, local organisations, community groups and individuals who all have a role to play in looking after our environment.

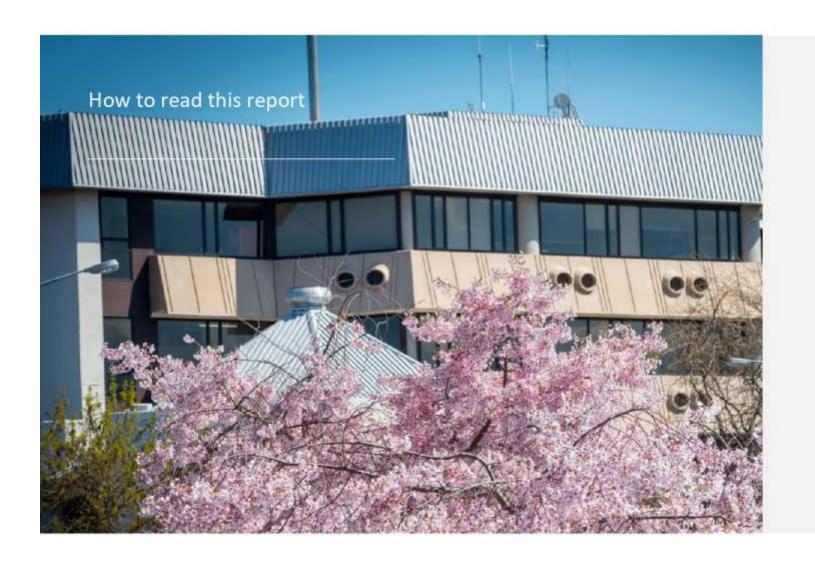
Council has committed to a sustainable development approach as a central theme of its strategic planning framework. It is focused on meeting the needs of its community today, as well as those of future generations. Protecting and enhancing our environment and its productive capacity is key in achieving this, alongside addressing social, cultural and economic factors. This is something that will require the efforts of the whole community.

We all have a part to play in safeguarding our environment for future generations. We see this report as a tool to help those involved in that protection and enhancement through the preparation of plans and strategies that will help our environment in the future.

We will continue to work for a prosperous Council that cares for and sustainably manages the world in which we live.

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How to read this report

This State of the Environment Report is organised in two parts.

This first part provides an introduction to state of the environment reporting, the parameters for this Report, a snapshot of Hastings District and its people to provide context in understanding the interaction between people and the environment, and an introduction to commonly held environmental values and customary mana whenua values as they relate to the environment.

The second part of this report describes the state of the District's environment. This commences with a table providing an executive summary of the state of the District's environment under the headings of the following five sections of the Report:

- Sustainable Land Use;
- . Amenity, Character & Heritage Management;
- Sustainable Infrastructure;
- · Hazard Management, and
- Sustainable Waste Management.

These sections reflect the key topics selected for this State of the Environment Report and align with the functions of the Hastings District Council. It is recognized that these sections are a starting point only, and it is envisaged that future State of the Environment Reports will evolve and may incorporate additional topics relevant to the District's environment, as appropriate

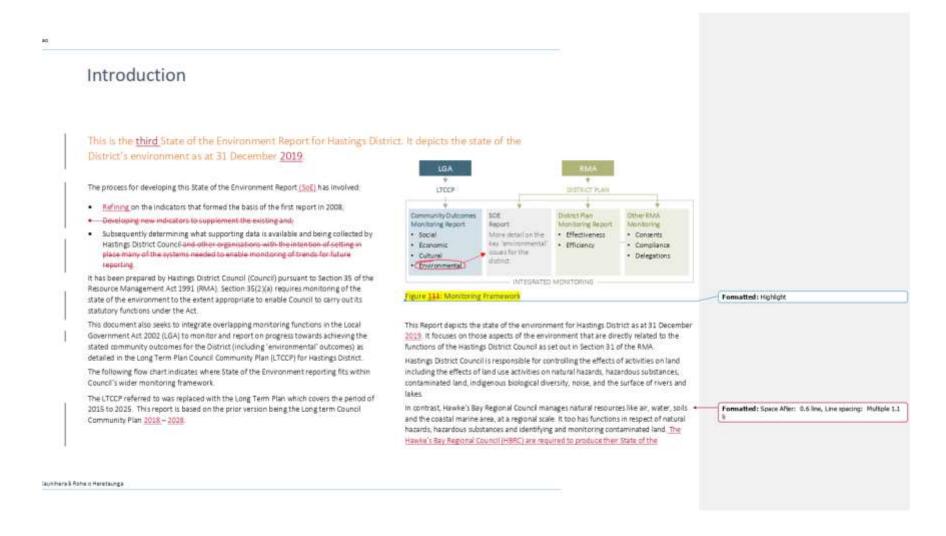
Each section commences with a summary table which provides a quick glance at the indicators for that topic and a summary of the indicators over the reporting period.

Each section is then divided into sub-topics following a standard format, as follows:

- An introduction;
- A table summarising the relevant community outcomes and District Plan outcomes and how the state of the environment indicators also inform those outcomes;
- · Presentation of monitoring information for each indicator;
- . A summary statement based on the indicator results for the topic in question; and
- Identification of current and suggested responses for Council and for the community.

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2015-2019 to te Pürongo tő te Talac Environment report on the areas within their control. To reduce repetition, it was decided to remove sections covered by HBRC. For more detailed reporting on the state of these resources, refer to the Hawke's Bay The following table provides a description of each type of indicator: Regional Council's own State of the Environment Reports including their most recent Table 1: Description of DPSIR Indicators 2014-2018 report, available at: https://www.hbrc.govt.nz/environment/state-of-the-environment/soe-five-yearly/ Indicator type Description Driving Force² Describes social, demographic, and economic developments. Primary driving forces Formatted: Font: Bold The State of the Environment Report, compiles, assesses and reports on information on are population growth and changes in people's needs and activities. These change lifestyles and overall levels of production and consumption, which in turn evert the condition of the environment, the key pressures on it, and what responses are in pressures on the environment. place to address the issues. Pressure Tracks people's use of natural resources and land, and production of waste and At this point, it is helpful to introduce the 'Driving Force - Pressure - State - Impact -Formatted: Foot: Bold emissions (for example, greenhouse gases and particulates into the air). These Response' (DPSIR) model, which was developed from the Organisation for Economic pressures can charge environmental conditions. Cooperation and Development's (OECD) 1993 'Pressure - State - Response' (PSR) model. Describes the quantity and quality of the environment and natural resources (for Formatted: Font: 8.5 pt, Font color: Text 1, English (New The PSR and DPSIR models are the most frequently used approach to State of the example, water quality, air quality, or land cover) Environment reporting internationally, and have been adopted in New Zealand, Canada, Describes the effects that environmental changes have on environmental or human United Kingdom, and Australia. The DPSIR model has been adopted for this State of the Formatted: Font: 8.5 pt, Font colon Text 1, English (New health (for example, the level of human liness related to exposure to air pollution Zealand) Environment Report for Hastings District Describes responses by government, organisations, or the community to prevent, Formatted: Font: 8.5 st, Font color: Text 1, English (New DPSIR indicators aim to address four fundamental questions: compensate, ameliorate, or asset to changes in the environment (for example, the Zealand) introduction of regulations such as national environmental standards and legislative . What is happening to the environment? initiatives to protect native vegetation and biodiversity). . Why are changes happening to the environment? Source: Ministry for the Environment (adapted from European Environment Agency, 2003). · Are these changes to the environment significant? While it is important for indicators to have continuity across reporting years in order to What is society's response to these changes to the environment?³ identify long terms trends, there are occasions where indicators need to be altered in "Driving Force", "pressure", "state", "impact" or "response" indicators can be categorised order to reflect changes in policy direction and goals for the District Plan. An example of according to the type of information they provide. this is the District Plan review. The Proposed District Plan was released for consultation in November 2013, with hearings throughout 2014 and early 2015 and decisions Environment New Zekland (2007), 2007, Ministry for the Environment, 'Nepportal' Helicators for Haltings District are generally summerced as suffer points in terms of proposed community and forwing force indicators for Hastings district are generally found in the following section of this Report — trappings of the Hastings district and its Respire council responses, and found at the end of each topic in this Report Hastings District Council: Te Kaumihera & Rohe o Heretaungs // 13

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released in September 2015. Therefore, by the time the next State of the Environment Report is produced, there will be a new District Plan in effect, and some indicators may need to be altered accordingly.

2015-2019 to te Pürongo tő te Talad

Snapshot of Hastings District and its People

Our District

The District covers a land area of \$22,635 hectares (5,226 km²). The Pacific Ocean is to the east, and our <u>six</u> neighbouring territorial authorities share the remaining boundaries (see map below).

Figure 2: Hastings District and Neighbouring Territorial Authorities



Source: Hactings District Council

Hastings District comprises the major urban centre of Hastings, several smaller urban areas including Havelock North, Flaxmere, Clive and Whakatu, as well as a number of rural service settlements and coestal settlements.

The landscapes and river systems of our District hold significant cultural, spiritual, ecological, recreational, as well as economic values for us. The hape when us of Ngati Kahungunu have always valued and acknowledged the bounty of the land as a toonga — Heretaunga hauku nur. The fertile soils, aquifers, waterways and life-giving dew (hauku nur) combine, providing an environment rich for cultivation, providing manaaki for the mana whenus and the community as a whole.

Our western border is dominated by the presence of the Ruahine and Kaweka Ranges. The major river systems in our District are the TukiTuki, Ngaruroro, Tutaekuri and Esk Rivers and their ributaries. Our landscape is also dominated by the presence of the Heretaunga Plains and surrounding hills, Te Mata Peak, Kahuranaki, Mt Erin — Kohinurakau, along with the Lake Tutira basin and significant wetlands. These features are also embedded in the oral traditions of the mana whenua.

The Heretaunga Plains, formed as a result of uplift, erosion and fluvial processes, contains some of the most fertile and productive agricultural and horticulture land in the country. The aquifer system undermeath the Heretaunga Plains is the main groundwater resource for the Heretaunga Plains, Hastings and Napier communities, providing 85% of our water requirements.

Hastings District has a mild temperate climate protected from the prevailing westerly winds by the mountain ranges. As a result, we experience a calm, dry, sunny climate characterised by long hot summers and mild winters. These environmental factors contribute to our District's strong association with horticulture, cropping and viticulture and accompanying recreation and tourism. Hastings is New Zealand's largest producer of apples, pears and peaches, and second largest producer of grapes and wines.

Hastings District is renowned for its fertile soils, plentiful clean water and beautiful scenery, so the quality of our environment and its protection for future generations is very important to us. Formatted: Font: Bold

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The medium series for population projections⁴ suggest that our District will grow to 86,000 people by the year 2038. This equates to an increase of 6% (6,000 people) over the 20 years from 2038 to 2038. However, under the high series projections, we could experience a 17.9% increase over that same period (an additional 14.500 people).

 statistics new basing apost a series of projections based on verying fertility, mortality and migration rates – low, medium and high peries projections.

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thnic Composition

Based on the 2018 Census, a higher proportion of us identify as Maon (27.3%) compared with 14.9% nationally, and 71.8% of us identify ourselves as belonging to the European ethnic group (similar to the national figure of 74%).

A total of <u>22, 259</u> Maori usually live in the Hastings District. This is an increase of <u>5,448</u> people since Centur <u>2013</u>

Hastings District has a proportion of residents who identify themselves as Maori that is significantly higher than the national average. This is particularly evident in the urban area of Flaxmere where those identifying as Maori make up close to half of the population.

Ethnic population projections to 2021 suggest the proportion of people identifying themselves as 'Maori' in the District will continue to increase.

Our Economy

The economy of the Hastings District is highly dependent on <u>viticulture</u> and <u>horticulture</u>, land uses and associated industries. These land use activities rely on the soil resource; of the Heretaunga Plains and are located primarily on the fertile soils of the Heretaunga Plains that surround Hastings City.

Given the importance of these land uses to the District's economy, it is necessary to manage and protect the soil resource so it is available for <u>hortculture</u> and <u>vitculture</u> activities that depend on it.

While land based primary production is the primary focus of the Plains Production Zone it is recognised that other rural production activities that do not rely on the soil resource may also be appropriate in certain circumstances.

Hastings District's economy is highly dependent on land based primary production. Therefore, the protection of land suitable for these activities is of very high importance both now, and in the future.

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Source: Hainings Detrict Council

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Sustainability

Sustainability is a term used interchangeably with concepts such as environmentalism or being "green". One of the most commonly used and widely adopted definitions of sustainable development is "meeting the needs of the present generation without compromising the ability of future generations to meet their own needs." This is the overarching principle of "sustainable management" – the promotion of which is the central guiding purpose of New Zealand's "Resource Management Act 1991" (RMA).

Sustainability is about the relationship between people and planet both current and in the future; remembering that we are inestricably part of this planet, and that our societies (including economies) depend upon healthy biological and physical systems.

There is a growing realisation that we are currently living beyond our means, and that our way of life is placing an increasing burden on the planet. The environmental impacts of our consumption and production patterns can be severe and an inefficient use of resources. Sustainability or sustainable development is about protecting natural resources and enhancing the environment (where appropriate), and understanding environmental limits. As part of this, there is a movement towards creating sustainable communities that are:

- Active, inclusive and safe.
- Environmentally sensitive providing places for people to live that are considerate
 of the environment and the flora and fauna that live in it.
- · Well designed and built featuring a quality built and natural environment
- Well connected with good transport services and communication linking people to jobs, schools, health and other services

- . Thriving with a flourishing and diverse local economy
- Well served with public, private, community and voluntary services that are appropriate to people's needs and accessible to all
- Fair for everyone including those in other communities, now and in the future!



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 [&]quot;Extrahelie Construction: People Plant & Property", 2008, Office of the Deputy Frime Minister (COPAL), Histogramment, London.

Mana Whenua Customary Environmental Values

Exercising Partnership - Council and Mana Whenua

During 2017/18 the Council provided the following opportunities for mana whenua to exercise partnership in decision making:

- The Hastings District Council sreated two new roles in the latter third of 2017 and with the selected appointments starting in March 2018. The roles of Pou Ahurea Matus Principal Advisor Belationships, Responsiveness and Heritage, and Pou Ahurea Advisor Relationships, Responsiveness and Heritage have been specifically developed to work dosely with mana whenua and community to enhance strategic relationships between whanau, marae, hapo, taiwheriua, Post Seftlement Governance Entities (PSGEs) including Ngáti Kahungunu Iwi Incorporated and the Council; and all tangafa whenua in the district.
- Māori Joint Committee's focus is on strutegic priorities for mana when ua and tängata
 when ua in the district. The committee comprises six mana when ua appointments
 and six councillors. The committee's terms of reference include:
 - To provide governance level advice to the Council on matters of strategy and policy development across the scope of Council's activities;
 - To develop, update and recommend to Cosmoil a policy framework and work programme, known as the Māori Responsiveness Framework;
 - To provide input and advice into the Long Term Plan and the Annual Plan in order to assist Council to effectively consider Māori perspectives and address issues of importance to mana whenua and tangata whenua; and,
 - To assist the Council as appropriate in conducting and maintaining effective, good faith working relationships with mana whenua and tangata whenua, including advice on governance arrangements.

- Council is intent on providing apportunities for PSGEs, to be engaged in district
 planning and development, including economic development to benefit both mana
 whenus and the community as a whole.
- Council continues to encourage the development of Papakäinga housing through
 effective cross-sectoral engagement with whanau and hapu. Te Puni Kökiri and the
 Mäori Land Court. Also, the rates' remission policy for Mäori freehold land takes the
 establishment of Papakäinga developments into account.
- The Tangata Whenua Wastewater Committee continues to monitor the performance of the treatment plant. This special purpose committee works through the development of wastewater solutions integrating tikanga Máon (customary values) alongside the provisions of the Resource management Act. Accordingly, the biological trickling fifter system for the wastewater treatment plant at East Cline has a consent to operate (granted by the Hawke's Bay Regional Council) for a period of 35 years. A condition of the consent is that the Committee meets once a year to monitor the performance of the treatment plant.
- The annual Marse Development Fund has resumed to take a more strategic approach to support marse, after the success of the Marse Whakaute Project that supported our marse sapshifty and capacity to host manufari at Te Matatini 2017. An ongoing collegial partneship continues with Te Puni Kökiri and the Department of Internal Affairs funding processes to support marse whânau and hapû to focus on the physical and cultural revitalisation of our marse; for instance, the marse fire and safety project. The Fund is governed by the Miloni Joint Committee.

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- The development of the Maon Responsiveness Framework, adopted to guide Council
 activity and to monitor progress throughout the operations of Council has been a
 success. The framework continues to be reported on to the Maori Joint Committee
 every 6 months to record achievements and to identify emerging needs across four
 areas:
 - Governance and relationships;
 - Culture and identity;
 - Prosperity and Welbeing; and,
 - Resources and Infrastructure.

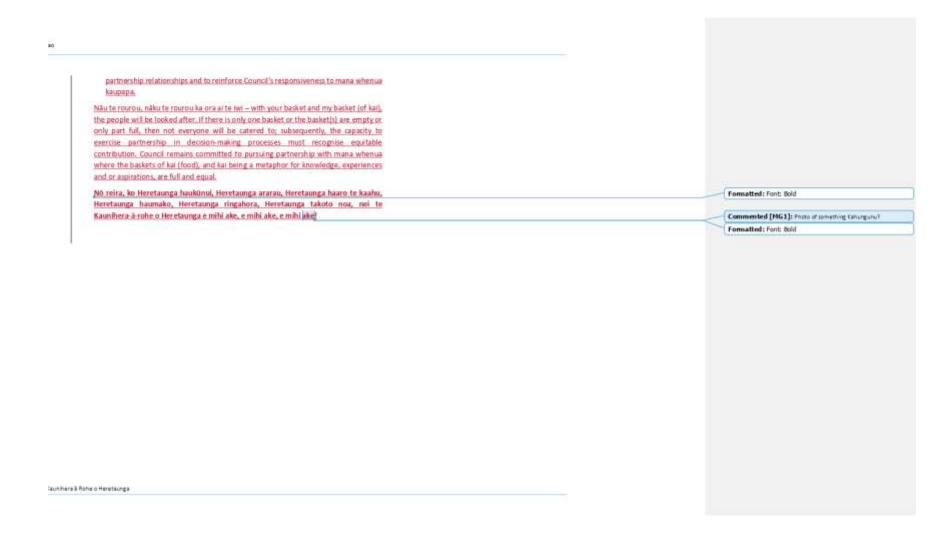
Following Macri Joint Committee, the Pou Ahurea Matua and the Pou Ahurea's monitoring and review in the latter half of the year, the framework is currently being revamped and refreshed for the erosing year in order that it too is more transparent across Council, for mana whenua and for the wider community.

- Te Tira Toitü te Whenua Hastings District Plan Cultural Values Subcommittee has been established with the specific purpose of considering how the cultural values of Te Mata and other areas of cultural significance are to be integrated within the District Plan. This will include overseeing the formation of a project plan and timeframe, considering the options for any changes proposed to the Proposed District Plan, and the detail provisions of the preferred option. Te Tira Toitü te Whenua will also provide guidance on the consultation that will be required and its purpose will also be extended to look at the same issue with the other cultural values and areas of cultural significance (including outstanding landscapes) within the district. Te Tira Toitü te Whenua comprises eight members; four Councilor's from the Hearings Committee, and four members appointed by the Mādri Joint Committee.
- An inter-sectoral working group set up to develop effective policy on with tacoga / with tacoga to inform the development of District Plan rules to apply in a way that harmonises the requirements of the Resource Management Act and customary practices continues to meet. This kaupapa includes the development and production of a culturally appropriate normination took it that takes into account tikinga Macri

[cultural values], private property rights. The Resource Management Act and many whenua aspirations in a balanced way.

- Council is encouraging and supporting the continual development of hapo plans
 including both hapo environmental management plans and hapo community plans.
 At the later part of the 2017/18 year, Council has entered into relationships with the
 Waipatu and Bridge På hapo communities and is embarking on a journey with the
 Waipatu and Bridge På hapo communities and is embarking on a journey with the
 Waipaturu Tangitū Trust in regard to a hapo environmental management or
 Mana Whakahono å-rohe plan; that also has positive implications for our other for
 PSGEs.
- Council has undertaken a project to establish a framework for the management of the Rene Orchiston harakeke collection located at Longlands. This framework will include provision for mana whenua to:
 - Assist and coordinate Council in thinning out the [overgrown] harakeke and cleaning the site;
 - Create a Ngāti Kahungunu ki Heretaunga weavers' database;
 - Establish guidelines for the management of resources in consultation with many whenua, maries, hapti, talwhenua, Ngati Kahungunu liwi incorporated INSII). To Sünanganut o Heretaunga (TROH), Nga Whenua Rahul (NWR), and Council officers (HDC).
 - Produce a Kaitlakitanga Booklet (contact database, history of the Rene Orchistor collection, tilianga, kawa, protocols, monitoring and maintenance); and,
- Provide and advocate policies based on mana whenua and matauranga Maori.
- Council also works with Ngå Marae o Heretaunga in the maintenance of Ngå Poul.
 Heretaunga in Chic Square where consultation is currently underway with the next phase of this laupapa, which involves capturing and making available via technology the cultural narratives that accompany and underpin each of the Poulin Civic Square.
- Council, Ngáti Kahungunu Iwi Incorporated, Te Taiwhenua o Herelaunga and mani whenua, from Council's position, have had to work more closely together in this last year to ensure the inclusive vitality of cultural life in the district; to strengthen

Hastings District Council: Te Kaumihera & Rohe o Heretaungs // 23



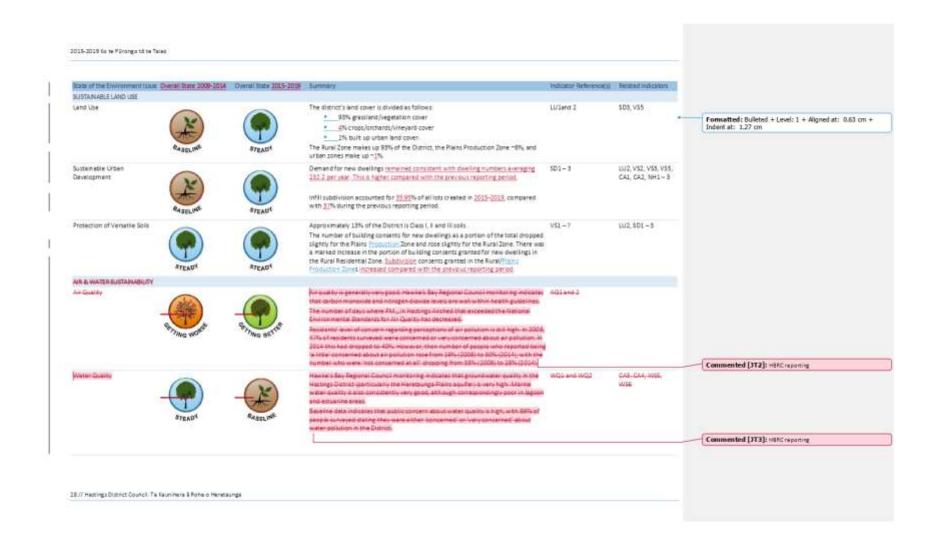
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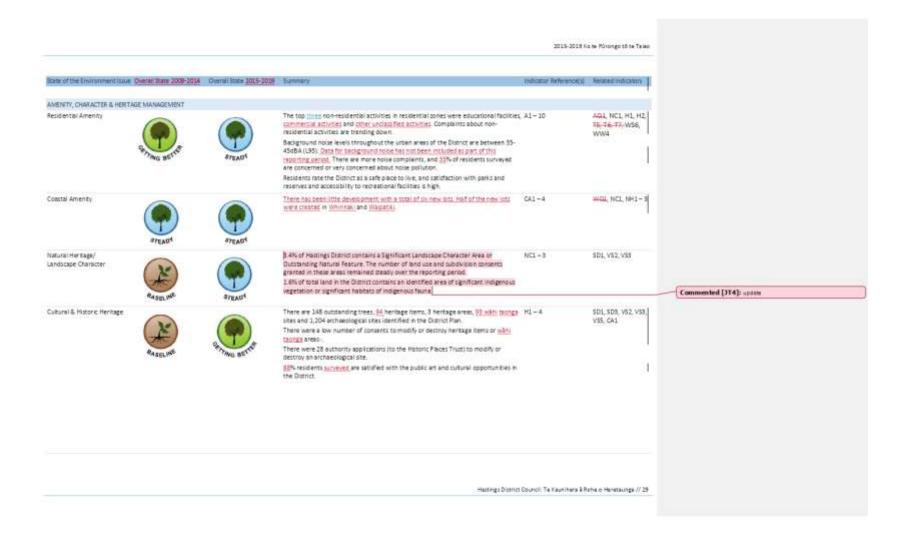
Hastings District Council: Te Kaunihera & Rohe o Heretaunga // 25





Heating's District Council: Te Kauniters & Rohe o Heretaungs // 27



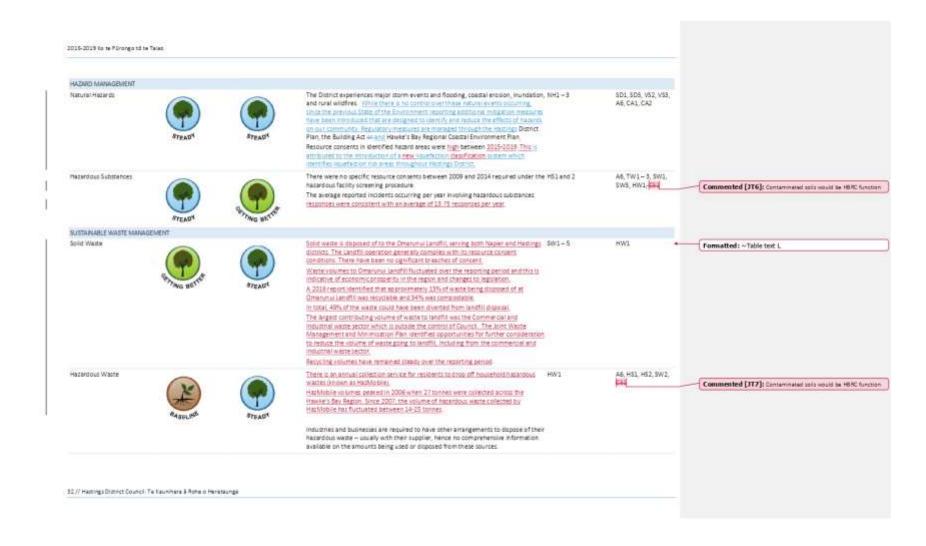


30 // Hastings District Council: Te Kaunihera & Rohe o Heretaunga

2015-2019 No te Pürongo tá te Talao

Ітем 6





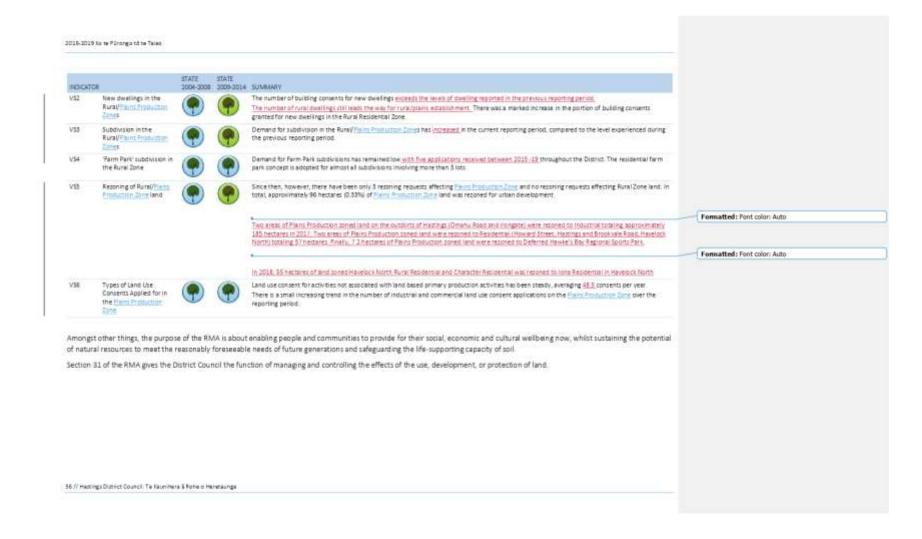
Hastings District Council: Te Kaunihera & Rohe o Heretaunga // 33

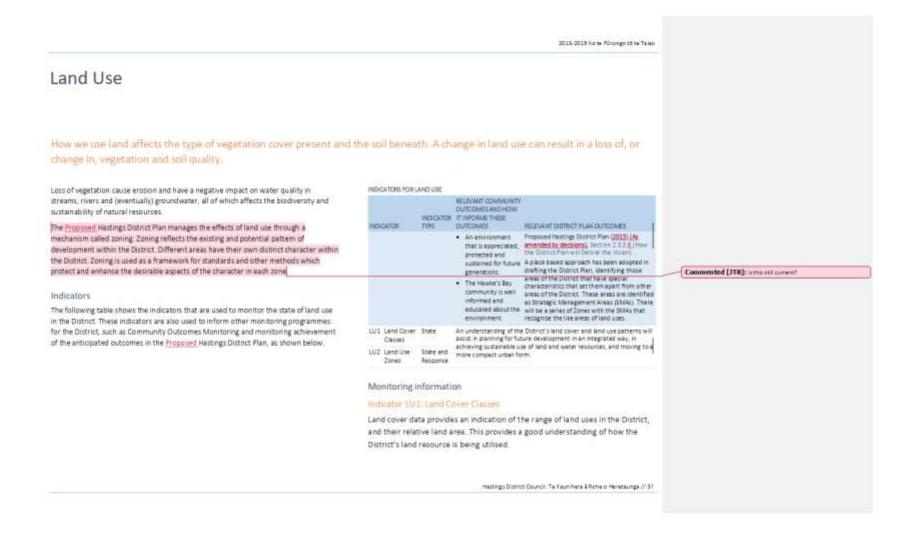
2015-2019 Ko te Pürongo tő te Talao

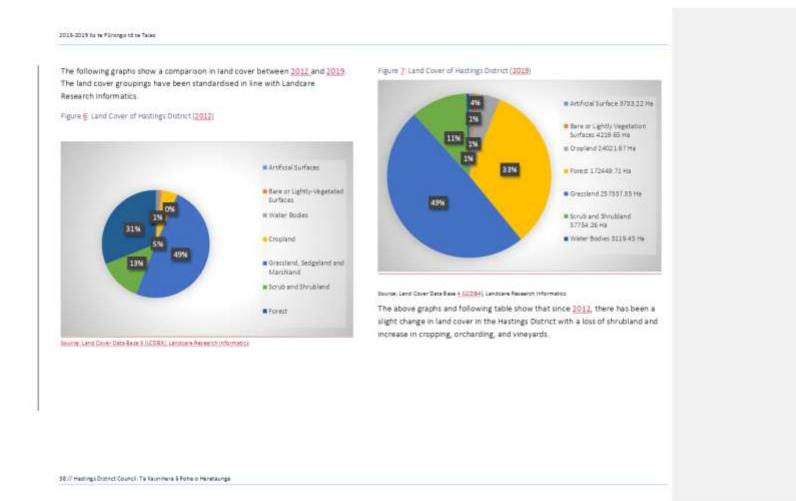


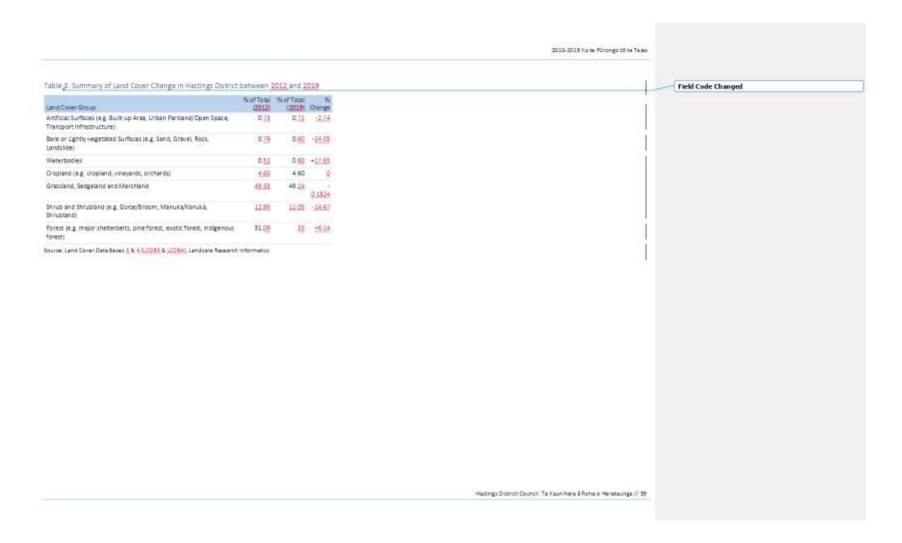
Ітем 6











2015-2019 to te Pürongo tá te Talad

The combined amount of grassland, shrubland and forest cover has dropped slightly from around 93.4% in 2012, to around 93.2% of the District in 2013. The above indicates a slight decrease in shrubland (1.9% decreased, which equates to around 6.495ha) and cropland cover (remained the same), with a corresponding slight decrease in grassland (down 0.9%) and _forest cover (up 1.91%). This does not represent significant land cover change, but suggests some possible minor land conversion towards cropland, vineyards and orchards, and some reversion to shrub, may be occurring.

Artificial Surfaces (e.g., built up area and urban parkland/open space areas) in 2012 accounted for approximately 0.73% of the land cover. This is a slight decrease in percentage cover from 2012 (down 0.2%). The amount of bare or lightly vegetated surfaces has decreased by 0.32% while waterbodies has increased by 0.93%.

Indicator LU2: Land Use Zones

Land use in Hasting District an emanaged by Zones. A zone is an area of fand set aside for a specific range of land uses. Each zone is managed according to the different environmental outcomes that are being sought for the zone. Activities within the zones are managed according to the anticipated environmental effects, and the ability of the District Plan to avoid, remedy or mitigate these effects. As part of the District Plan review, there was a shift towards a place-based approach to zoning which also introduced overanting strategic management areas (SMA).

The Rural SMA for example is the Hastings District's largest environment comprising approximately 481 600 ha of land which accounts for 92% of the District's total land area.



The zones in the Hastings District Plan can be generally grouped as follows:

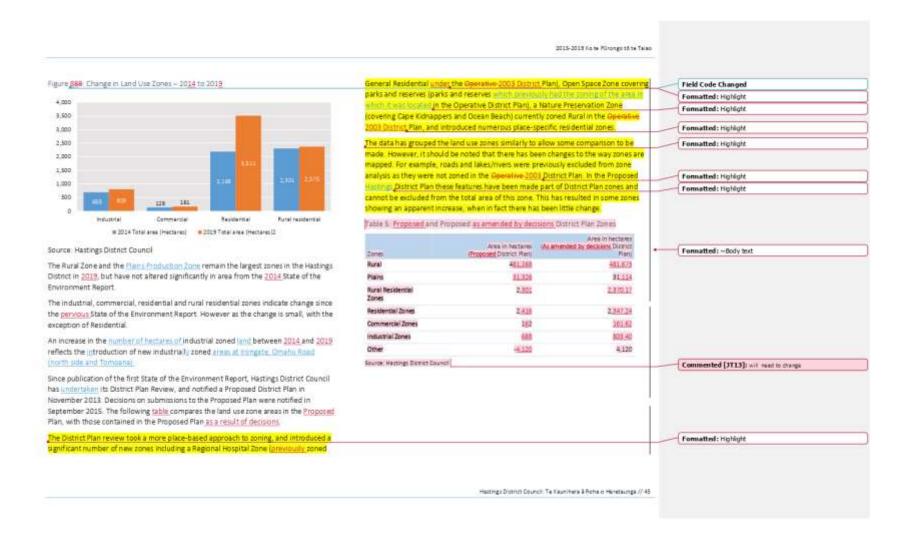
- Rural Zone: traditionally oriented towards land-based primary production but becoming increasingly diversified; provision for limited commercial and industrialactivities and liarly to its primary production focus, and limited opportunity for residential lifestyle lot subdivision
- Plains Production Zone: focuses on sustaining the life-supporting capacity of the highly versatile Heretaunga Plains soil resource; residential lifestyle subdivision is discouraged and restricted to only that which provides for the balance to be amalgameted into an adjoining title
- Rural-Residential Zone: accommodates development of peri-urban lifestyle blocks, and is generally located on land with lower fertility soils. This also includes the Special Character Zones (Te Mata and Tukituki) along with the long and Havelock forth Special Character Zone.

Commented [319]: is tres accurate?

40 // Hastings District Council Te Kaunihera & Ashe o Heretaungs

						Hastings District Council. Te Kaunthers & Rohe o Heretaungs // 45				
The deveral happensal zone incorporates the main centres of Haptings City. Maintere and Havelock north, but also Clive and Whalats. The Plant Sestential zone covert the pattlements around fall Paril, single the and cimely, and the overtall					Application targos	Zone includes the coastal settlements of Hawmon				
	Te Mata Special Character	502	508	517,64		R _{esi} densie	**	9	516.19	
Rural Residential	Rural Residential	1,265	1,906	869 22		Haumoana-Te Awanga Defensed Residential B Havelock North Character	±1	3	261.00	Formatted: Font: Not Bold
fains	Plains	29,580	29,550	31,114		Haumoana-Te Awanga Deferred Reudential A	- 1	(\$)	3.8	Formatted: Font: Not Bold
ural	Rural	A73,267	473,802	Access to the second se		Haumdens-Te Awangs Deferred Residential		=	3.78	Formatted: Font: Not Bold
	DISTRICT PLAN		DESTRICT PLAN AMENDED BY DEDSHOWS DISTRICT PLAN			Haumoana-Te-Awanga Residential	- 50	- 1	92.88	Commensted (JTT2): Should I deate this column and just column 2 and 37
ONES		AREA HECTARES ANEA HECTARES AS AREA HECTARES 3008 - OPERATIVE 3004 - OPERATIVE AS 2009 - AS				Hastings City Living Hastings General Residential	- 1	(#) (#)	1066.53	Formatted Table
listrict Fian and amended by decisions! Vee of Street Land Use in Hastings District:						Hactings Character Repidential	# # # # # # # # # # # # # # # # # # #	(#)	53.23	
where there may have been gains and losses since the first <u>and second</u> State of the Environment Reports Fable 44 Area of Zoned Land Lize in Hastings District (Operative District Ran and Proceed						Relidental Flavorere Seneral Residential	***	(4)	219.22	Laumanoga; Louid 3-br
						Clive-Whatata Residencial Plasmara Community	- 1	#	80.86	Formatted: Font: 9 pt
						Coggtal Settlement	-		38.33	relates to the 2003 Flan.
there are six industrial zones. The following table shows the area of land within each of the Operative District Plan zones as at the end of 2008, and enables limited comparison with 2014 figures, showing						Plans Settlement Coastal Residential	117	132	30,58	Commented [3711]: Was whining that I should delete as to
						Plains Residential	26	25	1000	Commented (JT10): Most to amond
industrial activity in the District, A seventh industrial zone has been introduced since the first State of the Environment Report, Under the Proposed District Plan					Total Section 1	Deferred General Residential	5	34	2007.00	
 Industrial Zones: Six industrial zones provide for the various levels and types of 						Total Rutal Residential General Residential	2,058	2,800 1,995	2,870,17	
 areas identified for future residential expansion* Commercial Zones: 15 commercial zones provide for the different commercial requirements of businesses within the District 						Havelock North Rural Residence Iona special character			30.83	
Residential Zones: covers the main urban residential areas and settlements, and						Tulk Puki Special Character	292	192	800.1	





2015-2019 to te PSrongo tá te Talac

The Proposed District Plan zones were grouped into the following categories for the purposes of the above table.

Rural Zone

Rural

Plains Production Zones

Plains.

Rural Residential Zones

- Rural Residential
- Havelock North Rural Residential
- · Te Mata Special Character
- TukiTuki Special Character
- Iona Special Character
- Te Mata Special Character Area.

Residential Zones

- Clive-Whakatu Residential
- Coastal Settlement
- . Flaxmere Community Residential
- · Flaxmere General Residential
- · Hastings Character Residential
- Hastings City Living
- Hastings General Residential
- · Haumoana Te Awanga Residential
- Haumoana Te Awanga Deferred Residential A
- . Haumoana Te Awanga Deferred Residential B
- Havelock North Character Residential
- Havelock North General Residential

- Havelock North Rural Residential
- Plains Residential
- Waimarama Coastal Settlement.

Commercial Fone

- Central Commercial
- · Clive Suburban Commercial
- Commercial Service
- · Flaxmere Commercial
- Flaxmere Commercial Service
- . Haumoana Te Awanga Suburban Commercial
- · Havelock North Village Centre Business
- Havelock North Village Centre Mixed
- Havelock North Village Centre Retail
- · Large Format Retail
- Residential Commercial
- Suburban Commercial
- Bridge Pa Suburban Commercial
- Clive-Whatatu Suburban Commercial
- Haumoana-Te Awanga Suburban Commercial
- Waimarama Suburban Commercial

Industrial Zones

- . Deferred General Industrial
- General industrial
- Havelock North Village Centre Industrial
- Light Industrial
- · Tomoana Food Industry
- · Whirinaki Industrial

44 // Hastings District Council: To Yaunihera & Robe o Heretaungs

Other Zones

- Regional Hospital
- Hawke's Bay Regional Sports Park
- Deferred Hawke's Bay Regional Sports Park
- Open Space
- . Cape Kidnappers Ocean Beach Nature Preservation.

Hastings District comprises approximately 98% vegetated land (over, and approximately 98.9% of the Districts zoned Rural or Plans Production Zime. There have been some minor increases in industrial and residential type zones to provide for current and future demand, although these are relatively small in relation to the total area of rural and Plans Production. Zone areas:

Land cover and zoning allocation continues to reflect a rural provincial area in New Zealand

Companisons suggest there has not been any significant change in land cover or land use patterns within the District since the previous State of the Environment Report.

Responses

For Council

 Continue to monitor changes in land cover and land use patterns (zoning) over time, to determine/confirm any areas of the District experiencing significant change or pressure.



2015-2018 No te Pürongo tă te Teleo

Photo: Land Use on the Heretaungs Plains Source: Heretaungs Plains Urban Development Strategy

Hastings District Council: Te Kaunihera & Rohe o Heretaunga // 45

2015-2019 to te Püranga tá te Taled

Sustainable Urban Development

Areas close to the urban centres and the hills surrounding the Heretaunga Plains face considerable pressure to accommodate increased urban activities (commercial and industrial activities) and residential housing.

Photo: Heatings City - Handwargs, linest haseing towards Heatings District Source

The price, infrastructure potential and close proximity of the Heretzunga Plains to the urban centres of Hastings City, Havelock North and Flammere generate; considerable demand to utilise the land for a range of uses. Once land has been converted to urban, it is unlikely that this process will be reversed.

Of course, sustainable urban development is not about no development or urban growth – the issue is about striking an appropriate balance, efficient use of land resources at a rate that balances demand and supply, and investigating alternatives to Greenfield, commercial and industrial expansion. Indicators in this section illustrate whether development is sustainable. A development to the Resource Management Act 1991 will see the remove of the RMA which is set to be replace with three new pieces of legislation being the.

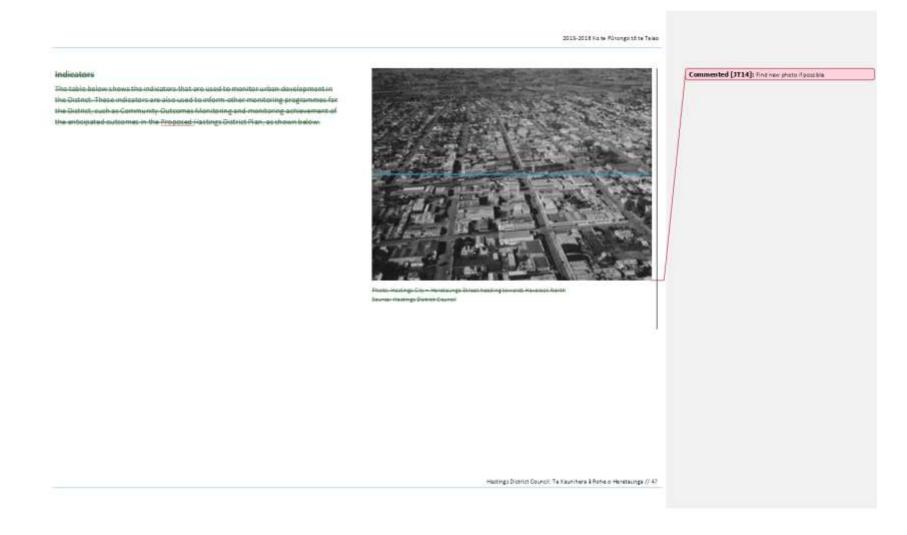
- Natural and Built Environments Act
- Strategic Flanning Act.
- Climate Change Adaptation Act.

According to Environmental Manager David Parker

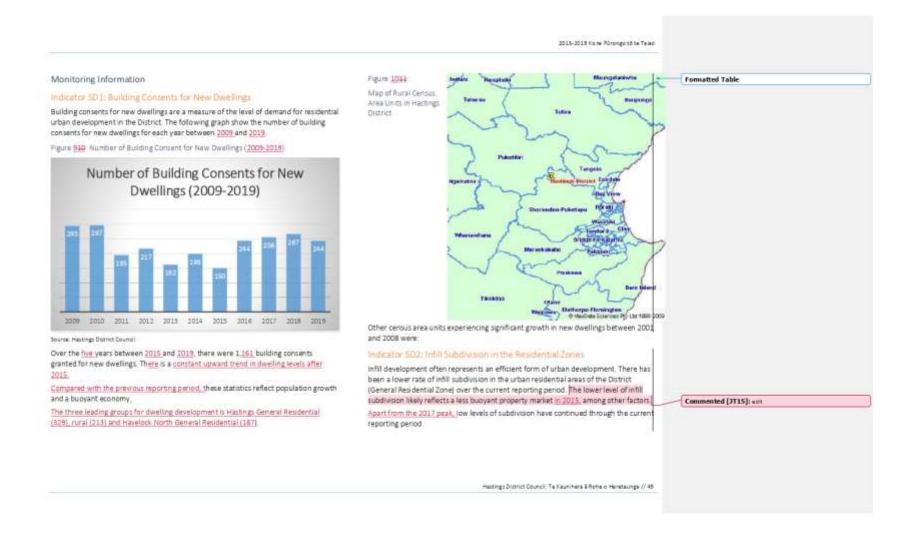
"Urban areas are struggling to keep pace with population growth and the need for affordable housing. Water quality is deteriorating, biodiversity is diminishing and there is an urgent need to reduce carbon emissions and adapt to climate change".

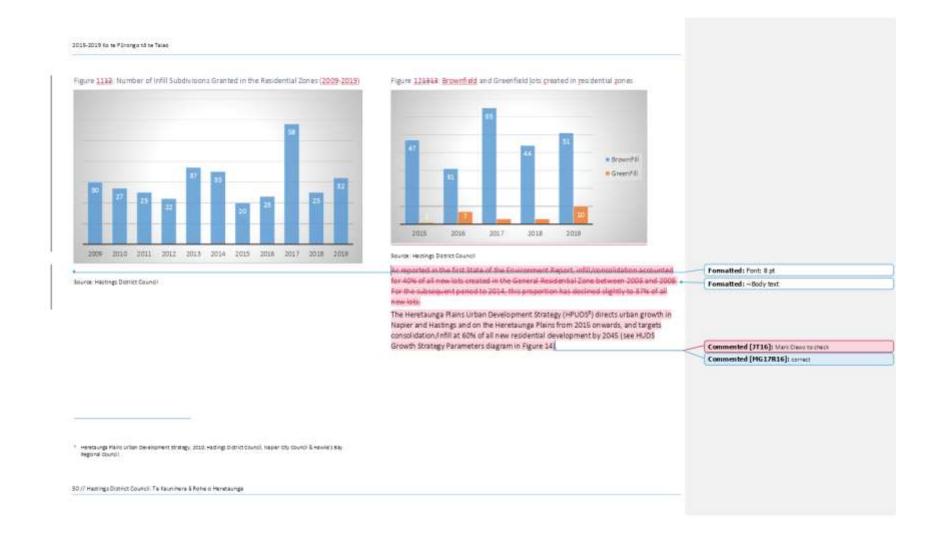


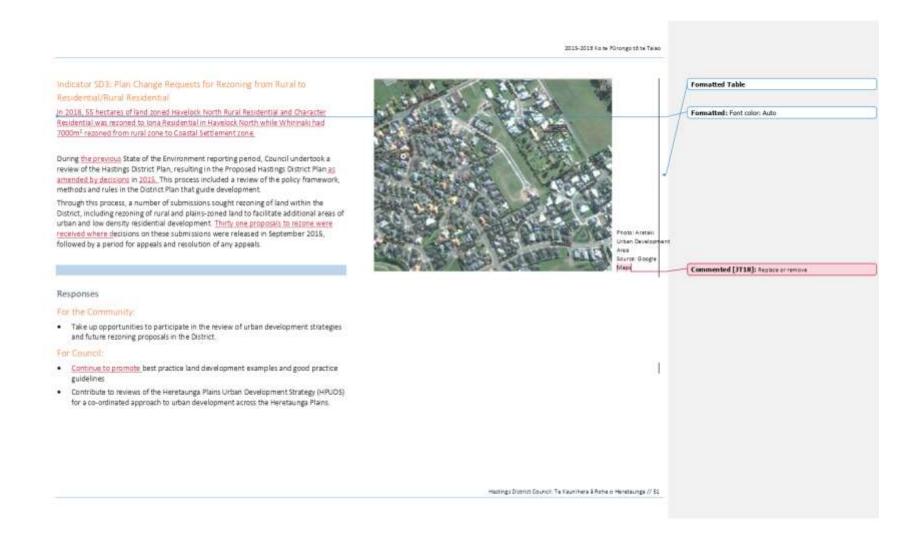
46 // Hastings District Council To Naunihera & Rohe o Heretaungs



2015-2019 to te Püranga tá te Talea Indicators The table below shows the indicators that are used to monstor urban development in the District. These indicators are also used to inform other monitoring programmes for the District. such as Community Outcomes Monitoring and monitoring achievement of the antidipated outcomes in the Proposed Hastings District Plan, as shown below INDICATORS FOR SUSTAINABLE LIRBAN DEVELOPMENT RELEVANT COMMUNITY. INDICATOR OUTCOMES AND HOW IT NOICATOR TYPE INFORMS THESE OUTCOMES ASSEVANT DISTRICT PLAN OUTCOMES Proposed Hartings District Plan (2013) (As amended by decisions) . An environment that is appreciated protected and Section 2.3.2.2 (The Role of the District Plan in Deliveting the Vicion): sustained for future generations. the resources of the District that support land based primary production need to be carefully managed to ensure that they remain Safe and secure available for future generations, the versatile soils of the Heretaurga Plains should be protected from unnecessary development and that communities future urban growth should be provided for within the existing boundaries of the urban environment. This will require more intensive use A lifetime of good health of the existing residential areas and wellbeing. Development in Hawke's Section 2.4.2 Articipatest Outcomes (Lintain Strategy) Bay a sensitive to the need • UDBQ2 increased intensification of the existing urban environments, while maintaining acceptable levels of residential amenity to protect and promote UDAGE Urban development that avoids, remedies or mitigates adverse environmental effects and avoids the loss of valuable finite soil o Environmental resources on the Heretsungs Plains in line with the Heretsungs Plains Urban Development Strategy. welbeing Section 3.8.1 Anticipated Outcomes (Rural Resource Strategy): RRSAGE The continued availability, development and utilisation of the life supporting capacity of the restings District's soil resources. for a range of activities 901 Building Consents for Pressure The number of building consents for new dwellings provides a good indication of demand for residential development and can highlight where pressure for development is New Dwellings occurring. Enowing where development pressure is occurring enables better strategic planning towards achieving infill development and a more compact urban form SD2 Infill Subdivision in the Pressure Infill subdivision provides for residential demand without engroeching on currently undeveloped and. The higher the rate of infill development the less the impact of Resistential Zones development on the District's land resource, as well as enabling efficient provision of services and infrastructure and more compact urban form SDS Pan Change Requests for Pressure Recording of fural and for urban development can directly impact on the potential of the District's land and soil resources to provide for future generations. Together with Reconing from Rural to understanding population dynamics and projections for the District, an understanding of demand and pressure for urban resoning and where this is occurring, can assist Liroan with long term planning for sustainable urban development. 48 // Hastings District Council Tie Kaunihera & Rohe o Haretaunge







2015-2019 to te Püranga tá te Talea

Protection of Versatile Soil

Class 1, II and III soils are generally considered the most fertile and versatile, and contain the greatest productive potential for farming and horticulture.

Hastings District has a finite resource of good quality rural land. The District's economy heavily relies on the Heretaunga Plains soils for horticulture and viticulture, and rural pasture land for sheep and cattle. The loss of high quality rural land to residential development could in the future compromise the ability of the District to support the extensive farming, horticulture and visculture industries on which much of the community relies.

The rural land resource, and particularly the Heretaunga Plains soil resource, is important to the District for economic, cultural and social reasons. The Heretaunga Plains is a resource rich area of New Zealand, blessed with high value soils, good water supply and a temperate climate. With such resources the Plains have been the focus for settlement, with the main industrial base being in support of the agriculture and horizoulture sections.

The value of the soil and water resource to the economy and the wellbeing of the community has changed 4ttle over time. Ongoing growth in the residential and industrial sectors, along with changing horticulture practices has led to increasing competition for the water and soil resources.

Areas of rural land are often purchased and subdivided into smaller lots for residential and lifestyle purposes, particularly close to townships, although this is offset by the smalgametion of larger lots.

Diversification and intensification of activities in the rural area also means pressure to divide rural land into smaller and smaller lost, likely in an attempt to offset capital investments. Land fragmentation can result in a shortage of properties of suitable size for viable farming and hort culture units in the future. Since the first State of the Environment Report was published, Hastengs District Council, Napler City Council and Hawke's Bay Regional Council have embarked on a collisionative approach thewards managing within growth on the Plains from 2015 to 2045. The sand Strategy was fruit adopted in 2010, then a reviewed version re-adopted by the three councils in early 2017 04/PUDS 2017.

One of the key drivers for HPUDS was community recognition that both the soils and water resource are finite and under increasing pressure and could be better managed. Also of relevance is the Regional Policy Statement which became operative in 2014. This was the first statutory document that gave effect to HPUDS.

Through the District Plan Review and development of the Proposed Hastings District Plan, Hastings District has sought to implement relevant aspects of HPUDS with inclusion of objective, policies and rules to ensure future growth is comprehensively and automobile managed.

Indicators

The table below shows the indicators that are used to monitor the state of the versatile sols in the District. These indicators are also used to inform other monitoring programmes for the District, such as Community Outcomes Monitoring and monitoring achievement of the anticipated outcomes in the <u>Proposed</u> Hastings District Plan, as shown below.

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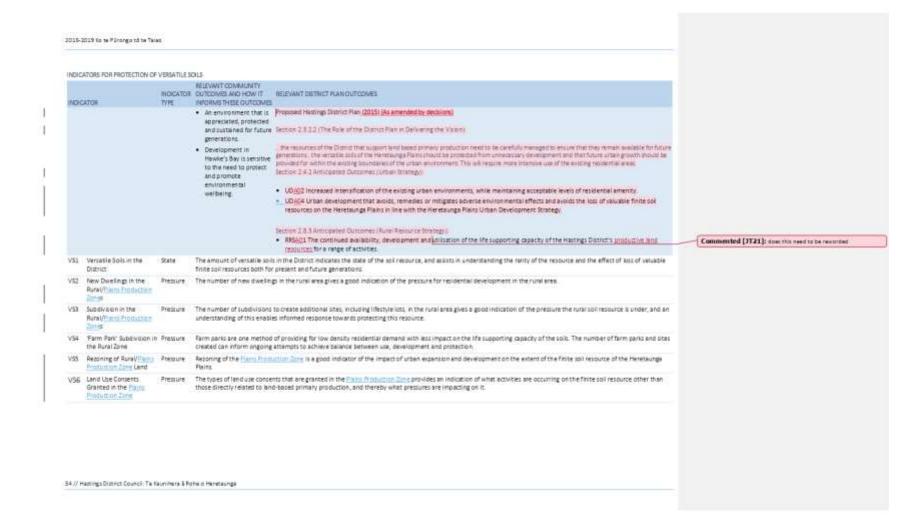
52 // Hastings District Council To Naunihera & Rohe o Heretaungs

2015-2018 Kis te Pürongo tõ te Teleo



Photo: Vercatile Soils of the Heretaurga Plains Source: Hawke's Bey Regional Council

Heatings District Council: Te Kaunihers & Rohe o Heretaungs // 58





Hastings District Council: Te Kaunihers & Rohe o Heretaungs // 55

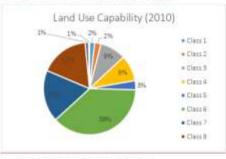
2015-2019 to te Pürongo tá te Talad

Monitoring information

V51: Versatile Soils in the District

Class I, II and III soils are generally considered the most fertile and versatile, and contain the greatest productive potential for farming and horticulture. There are 68.514hectares (or 13.11%) of the District comprising class I, II or III soils.

Figure 1324 Land Area by Land Use Capability (2010)



Source: LRI Land Use Casebilty Data, Landcare Research

The New Zealand LRI data (including the Land Use Capability data) has not been updated since 2010, and there are no plans to review it in the near future.

Indicator V52: New Dwellings in the Rural/Plains Production Zones.

New dwellings in the Rural and Plains Production Zones provide a useful indication of the urbanisation of the soil resource.

The settlement pattern in the Heretaunga Plains Urban Development Strategy (HPUDS) is made up of key growth areas that have been identified within Napier OTy and Hasbings District. HPUDS outlines a settlement pattern out to 2045 involving an increase in the number of households on smaller lots. This is achieved by focusing development into the key growth areas identified.

The key elements of the settlement pattern out to 2045 are:

- 60% intensification (10 20% intensification or brownfields)
- · 35% greenfield
- . 5% of population in rural areas.

One of the aims of HPU DS is to have defined urban areas. This allows for more cost effective and efficient servicing and creates definite boundaries between the urban and rural environments³.

The following chart compares the actual distribution of building consents for new dwellings in the Hastings District by zone for 2015 to 2019 against the previous State of the Environment reporting period.

* Heretoungs frank untain Development Brooky, 2010. Hasings District council, hapler day to uncil & Hawke's Bay Regional Council.

56 // Hastings District Council Tie Kaumihera & Ashe o Heretaunga



2015-2019 to te Püranga tá te Talad

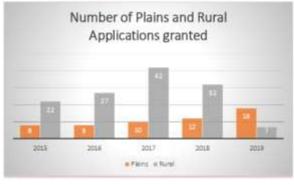
Indicator VSS: Subdivision in the Rural/Plains Production Zones

Subdivision can lead to lead fragmentation and an increased and accelerated supply of smaller sites may not safeguard the life-supporting capacity of the finite rural seal land resource. Fragmentation creates expectation of higher land value than larger rural properties, making land aggregation less appealing.

HIDC has maintained a strong policy position on adhering to the provisions of the Plains Production Zone to protect the Plains Production Zone resource. This strong policy stance position is called the number of successful Environment Court cases supporting the Council's stance on soil protection. The following graphs show that the number of Plains Production and Rural Zone subdivision consents granted has dropped significantly.

Subdivision in the Plains Production and Rural Zones therefore, is an indicator of fragmentation of the rural land resource. The following graphs show the number of subdivision applications granted for the Plains and Rural Zones for the 5-year period to 2019¹⁰.





Source: Hastings District Council

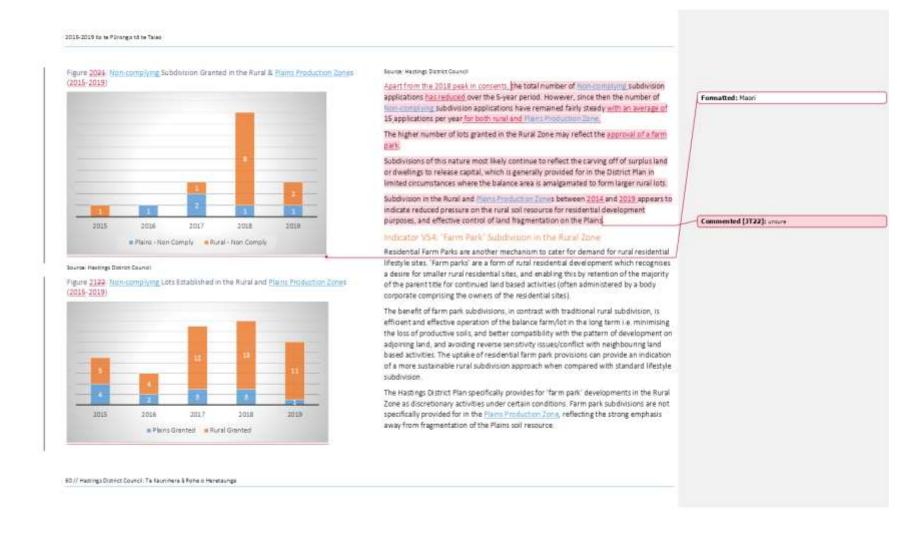
For the current reporting period, subdivisions in the Rural Zone have an average of 25 applications a year. This likely reflects high demand due to a variety of factors, including the change in lifestyle choices to possibly policy and rule changes enabling development.

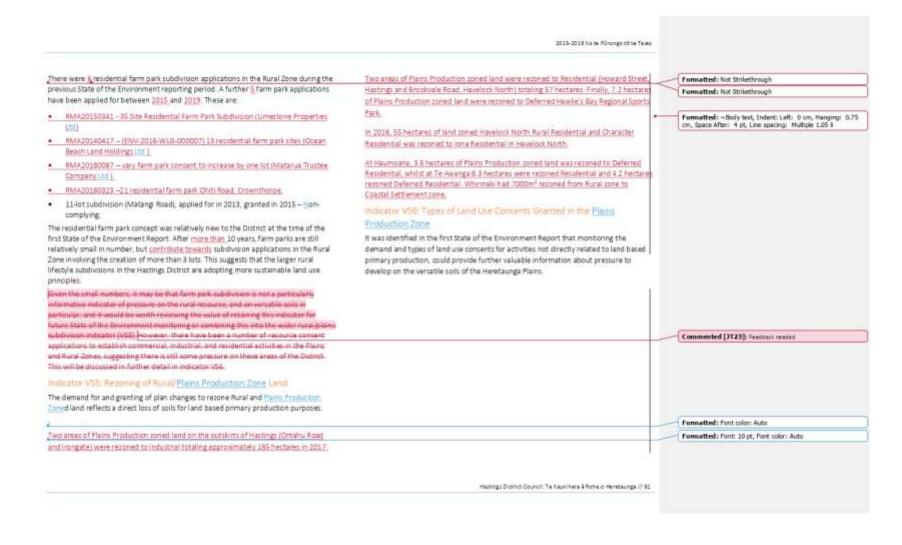
Rico-complying activities represent development is contrary to the District Plan provisions. Therefore, the number of <u>Non-complying</u> subdivisions provides a strong indication of 'pressure' to develop land over time.

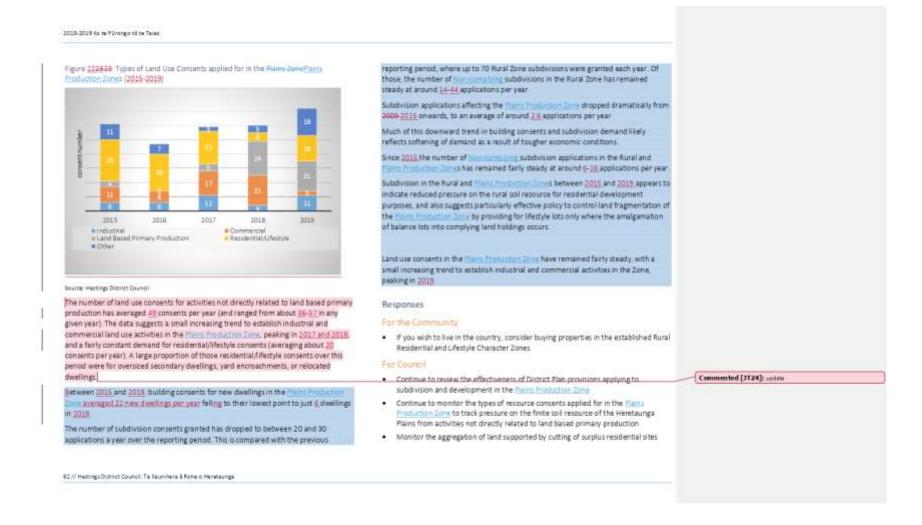
38 // Hattings District Council To Yaunihers & Robe o Hermaungs

The subdivision data used for this indicator excludes any subdivisions salely for the purpose of boundary adjustment, creating rights of key, or amagemation.



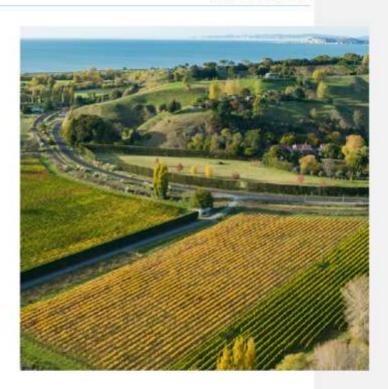






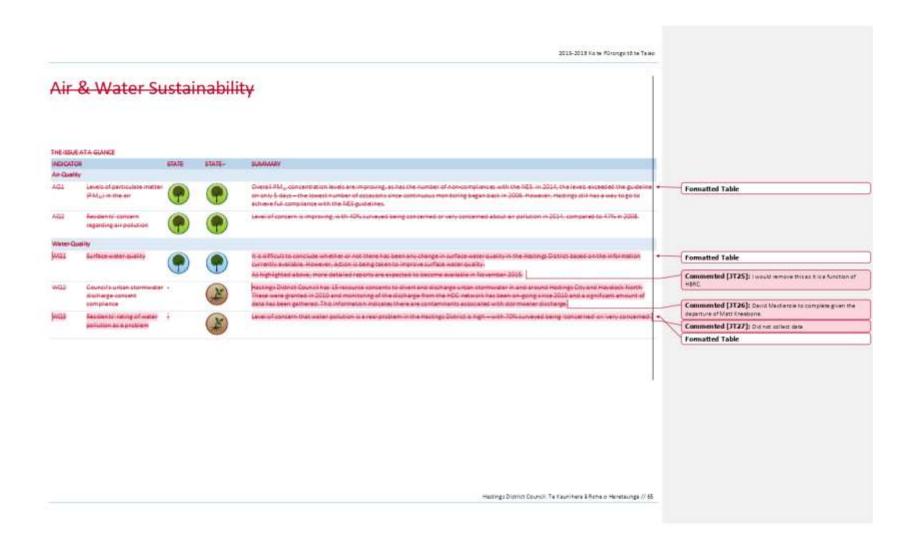
2015-2019 Kaite Pürongo täite Teleo

 Continue to implement and review the Heretauriga Plains Urban Development Strategy (HPUDS).



Hastings District Council: Te Kaunihers & Rohe o Heretaungs // 63





2015-2019 to te Püranga tá te Talad

The management of air and water quality are functions of the Hawke's Bay Regional Council under Section 30 of the RMA.

The following section summarises representative monitoring work undertaken by the Hawke's Say Regional Council in respect of water and air quality, specifically for Hastings Distinct. The Hawke's Bay Regional Council's own State of the Environment Reports provide more detailed reporting on the state of these resources for the region-

The Hastings District relies heavily on its sell and water-resources. The activities using those resources throughout the rural area in particular make a significant contribution to the social and economic well-being of the District, in the Hastings District, water is essential given the dry weather patterns experienced. The largest source of water is the interctaings Basin—a vest groundwater resource which provides for the communities of the District, as well as supporting industrial and agricultural activities.

According to Hawke's Bay Regional Council, Hawke's Bay enjoys reasonably-slean air due to a relatively law population, low traffic volumes and entry a few major industries kowever, local air quality does occasionally experience times of reduced quality, which has been largely attributed to domestic heating (woodburners and fires) in the sold winter months.

The Regional Council has also determined that the District enjoys very good groundwater and morine water quality. Furface water quality (rivers and takes), however, is somewhat less consistent across the District.

HDC Stormwater Network Consent

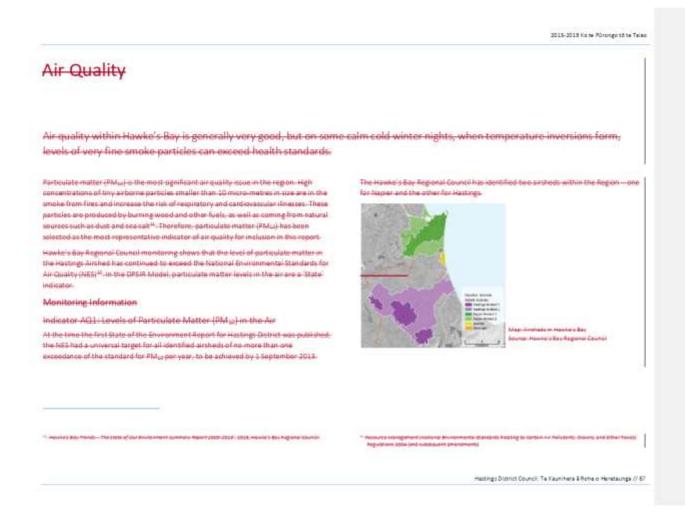
The Urban Stormwater Consent held by Hasbings District Council (HDC) was granted in May 2010 by the Hawke's Bay Regional Council (HBRC). It is a 12 (towker) year consent to protect and where appropriate, enhance inland waterways by managing the quantity and quality of the stormwater discharges from Hastings, Flammere, Clive and Hawlook Nutrin to protect the aquatic environment.

It is envisaged that on-going collection of information and review of that information will drive changes to the management of the stormwater system over the ife of the consent. These changes will be monitored and assessed. Further changes will be made to the management of the network, based on the collection and analysis of monitoring data and system performance.

To achieve this long term change, the consent contains a number of conditions which broadly fall into the following groups. The management approach is based on these themes, with targeted strategies put in place that are consistent with the consent conditions. A catchment management plan has been developed to provide guidance and to imprement methods to increase awareness of stormwater related issues and to improve the overall discharge from the main urban areas in the Hastings district.



86 // Hastings District Council To Naunihera & Rohe o Hermaungs



58 // Hastings District Council To Yauniners & Foto o Herenaungs

3015-2019 to te Püranga tá te Taleo in 2011, amendments to the NES were made to introduce now split target compliance Source: Ministry for the Sourcement 2014 & Airchael Progress Report 2012, Wellington dates depending on the state of the air quality in each airshed, to reflect more realistic Hastings featured in the ten aircheds with the highest armual number of exceedances of compliance targets. the PM is standard in New Zealand, for 5 out 7 years between 2006 and 2012. Data was not available for 2013 and 2014 The Hastings Airched is now required to achieve no more than three exceedances by 1 September 2016, and no more than one exceedance by 1 September 2020. The monitoring site for the Hastings Airshed is located at 5t John's College, Hastings-The following graph shows the number of days where FM₁₀ in the air exceeded the it is important to note that whilst the timeframe has been amended to be more National Environmental Standards for Air Quality (NES) as measured at this site. The achievable, the value of the FM a standard itself (50µg/m3 as a 34 hour average, which previous State of the Environment Report only had 3 years' worth of data on PM a levels is the World Health Organisation global guideline) has not changed from the St John's site using a continuous Beta Attenuation Monitor. There is now 9. Figure 24: Airsheds with the Highest Annual Number of PMus Exceedances, 2006 - 2012 years' worth of data available. TABLE 6. ARSHEDS WITH HIGHEST ANNUAL NUMBER OF EXCEEDANCES OF THE PANSO STANDARD Figure 25: Number of days where PM_{IC} exceeded National Environmental Standard for 2006-2012 Air Cavality at St John's College Rank 2006 Otago-1 Otago-I'-Drago-L Grago-L Diago-8 Chago-L Ougo-1 - display 25 10-64 1845 1944 Retrette Otter-2 32 (37) (3/9) 1-3-00 1500 1222 12 Christohuset Chausehauen Gaebon Kalsopii Kaisoo Righmond Realition Orago-II Righmand Ka-spd-Kalago Christohurch Richmond Tentron (14) (15) Source: Hawke's Bay Regional Council Rocerus Kempor Kerepor In those first 3 years of monitoring, PNA:s exceeded the national air quality guidelines an 1151 1155 (32) 1135 1280 0.50 average of 20 days per year. The number of exceedances peaked at 28 days in 2008. Investigit Kangora and Hastings (L2) Since that time, the number of exceedances has improved, averaging 18 days per your between 2009 and 2013. In 2014, the levels exceeded the guideline on only 5 days - the Emm-2000, results represent the comparison of Asserting, Amounts, Children's Cromises data. lawest number of occasions since continuous morstoring began. 3 From 2000, results represent the consolidation of Margini and Wilton.

2015-2018 No te Pürongo tő te Teleo in research commissioned by Hawke's Bay Regional Council in 2005 and again in 2010; insulate their homes and to install clean heat devices to further facilitate reduction in domestic heating (woodburners and fires) was identified as the dominant source of the amount of smoke and PM win the air. PN/ during winter in Hastings by emission inventory, source identification, and airshed Hawke's Bay Regional Council suggests that changes to home heating methods have dispersion modelling (accounting for 92% of PM_{III} emissions in Hastings and 97% in already led to a decline in PM₃₂ emissions to date. The changes in home heating Havelock North). Domestic heating in winter coincides with when concentrations of methods have helped reduce domestic heating emissions by approximately 18% in PM_{ID} exceed the NES. Hastings and 42% in Havelock North¹⁸ To comply with the NES by 2020, PM permissions in Hastings need to reduce by 71% Figure 26 Proportion of Households using Electricity, Gas, Wood and Coal in 2005 and (HBRC website). It has been determined that the only way to achieve this is to phase out inefficient wood-burners and prohibit open fires in the Hastings Airshed. At the time of the first State of the Environment Report, the Regional Council had just notified Proposed Plan Change 2 to the Hawke's Bay Regional Resource Management Plan (notified in December 2008), which sought to phase out inefficient domestic woodburners and open fires for home heating. Plan Change 3 is now fully operative refer Rules 18b, 18c, 18f, 18g and 18h. Under the new regional plan rules. The following phase out dates apply to properties less than 3 hectares in area: Table 7: HBRC Plan Change 2 Rules Open Fire or Burner Installation Date Hastings Airshed & (Property <2he) Coen-Fired Prohibited from use January 2012 1545 Fre-1996 Hon-Compliant Burners Prohibited from use January 2014: Havelock North Nation Hattings 3098-2003 Non-Compliant Burners Prohibited from use lanuary 2016 # 2005 # 2010 # 2005 V-2010 For Samerous 3005 hors-Comprised But need Distributed from use carried v 3018 Source: He wire a Sing Regional Countil Source: Hawke's Rey Regional Council Overall, air quality in the Hastings District is improving, but Hastings still has a way to go Alongside the phasing out of inefficient woodburners and open fires, the Regional to achieve full compliance with the NES-Council has also invested in funding Heat Smart initiatives to encourage home owners to Hasting's District Council: Ta Kaunihers & Rohe o Henetaungs // 69



2015-2019 No te Pürongo tő te Teleo At the same time. Hastings district resident surveys indicate the community is: somewhat less concerned about ar pollution, with the proportion of respondents being concerned or very concerned falling from 47% in 2006, to 40% in 2014. Responses For the Community . Reduce the amount of heating needed by insulating your home, using thermal drapes and closing them before nightful, and installing good seals round doors and . Maximise the use of the sun's natural heating when designing new homes or extensions . For existing domestic heating fires, use dry untreated wood, start the fire quickly, and maintain a hot, clean-burning fire . Don't dampen down fires overnight, as the smoke build up inside and outside is . When burners reach replacement age, replace with compliant burners or nonemitting heaters such as heat pumps or central heating. For Council . Support Hawke's Bay Regional Council initiatives to reduce the levels of particular matter in the Hactings Airched · Continue to survey the community's perception of air quality in the District. Hastings District Council. Te Kaunihera & Rohe o Heretaungs // 71

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Water Quality

Water is incredibly important in the Hastings District, particularly given the dry climate.

The groundwater resource is of particular significance as a main source of water for irrigation, industrial processing and especially drinking water. Hawke's Bay Ragional Council monitors groundwater levels at various locations. A full network of monitoring state were not installed until the early 2990 is, so knowledge of groundwater level response to human influences in primarily limited to the last 30 years. On the Haretaungs Plains, groundwater level doclines have mainly occurred west of Hastings, near Flasmere, and between Roy's Hill and Femilian the major resharge area, but the rates of decime vary between also and agrees seatons.

Groundwater quality, particularly from the Heretaunga Plains basin, is generally of high quality. Hawke's Bay Regional Council mentions groundwater quality at key groundwater establishes in the region. Futrace integer concentrations and the occurrence of Ecolories key indicators for both environmental and health related reasons, including the New Zealand Orminio Water Standards (NZDWS). In most cases, inhate-integers and 6 coli levels are well within those national standards set by the Ministry of Health. Monitoring has not detected any elevated pollutants or naturally occurring chemicals of concern in this resource to date.

Future climate change scenarios indicate it is likely to get drier and warmer than average, and the Regional Council anticipates that this will lead to a reduction in aquifor recharge ratus and an increasing demand for groundwater. They therefore consider ongoing monitoring of aquifor levels and groundwater quality as essential.

Overall, Hawke's Bay Regional Council advises that manno water quality is also consistently very good, although poor in estuance areas (Walpatki Lagoon, Maraetotara Lagoon, Walpuka Steam at Opean Beach, and Pulpokio Stream at Walmarama). Coastal water quality is addressed in more detail in the section of this Report relating to coastal amenity land in the Regional Council's own state of the environment reporting.

Surface water quality in the District however, is not always the best, particularly during law flow period: in summer, and affect leavy rainfall and flood events. For the purposes of this District the Environment Report, surface water quality remains the representative indicator of water quality.

Water quality has a history of deterioration over time across New Tealand, and Hawke's Bay Heatings District in the district hines the first State of the Smitronment Report, there have been considerable policy changes affecting freshwater management Hawke's Bay Regional Council notified Plan Changes 5 and 6 to the Regional Resource Management Plan. In the midst of these regional plan changes. Control Government

"- wower a day from the dates of the development currency Agent 2000-0014 - 2006-40449 is day they and being

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2015-2018 No te Púrongo tá te Teleo

also introduced its National Policy Statement for Freshwater Management, which came into effect in August 2014

Proposed Plan Change 5 was notified in October 2012, and provides enhanced guidance and direction about how land and freshwater resources are to be managed across the region in an integrated manner. Amongst other things, Plan Change 5 outlines a broad approach to managing leaching of nitrogen-faccal coliform bacteria and phosphorus from the use of production land.

As at this plan change has been adopted

Proposed Plan Change & was notified in July 2018, and presents a estchment specific change to the Regional Resource Management Plan specific to the Tukstuki River catchment. This change addresses specific water allocation and water quality sixues in the catchment, and forms part of a wider proposal for the catchment that included resource consent applications for the proposed flustunisha Water Borage Scheme. As at 2015, this plan charge has been adopted.

Water quality monitoring of the District's Inversis undertaken by the Howke's Bay Regional Council, as affecting surface water quality in Hackings District, are:

- . Pollution from land use activities alongside nivers and waterways.
- · Loss of riparian and aquatic vegetation, and
- Dumping of rubbish alongside rivers and waterways.

in the DPSIR Model, surface water quality sampling is a State indicator:

in 2010 Hactings District Council was granted a discharge consent by the Hawke's Bay Regional Council for all urban stermwater discharges from the Hactings District Council stormwater cetwork.

Since 2010 HDC has undertaken a significant level of monitoring of the stormwater network pipe end discharges, sediment sampling of the receiving environment directly downstream of the pipe end and ecological surveys of aqualicille in the receiving environment, as required by the network consent. In addition to this routine monitoring. Hastings Orbits Council have undertaken similar monitoring along tributaries leading to the Karamu Stream. The Karamu-Stream is the ultimate receiving environment for all urban stormwater flows from the hastings, Havelock North, Flasimere and Chive communities. This information is shared with the Hawke's Bay Regional Council on a regular bases so a resilatorative approach to understanding the surface water quality issues and where attention is best foressed to improve the quality in these waterways.

Hastings District Council has recently produced a first generation stormwater catchment management plan in 2015 to focus on methods to improve the management and quality of stormwater discharges from the stormwater network.

Monitoring Information

Indicator WO2: Urban Stormwater Discharge Compliance

Since 2011, sodiment quality, macroinventebrate community structure, and stormwater quality were monitored at multiple stac across a number of waterways that receive stormwater runoff from the Hastings urban area.

The most comprehensive monitoring was of benthic sediment quality-Sediment monitoring covered a total of 33 sites across 174 houtaires of the Karami-Stream, plus 6 sites on the main-stem of the Karami-Stream Auddy Creek at Dive was also included in this monitoring. This yet here sites were sampled in 2011 and 23 sites were sampled annually since 2012.

Semi-quantitative inon-replicated; macroinvertebrate campling was carried out during 2011 at 38 sites, and at 34 sites during 2014. Comparative camples are available at 31 sites for the 2011 and 2014 surveys.

Wrater quality-menitoring during rainful events were cerried out at 3 sites.—Rushapia 4 inergute 5, and Wellwood 1 over a small number of individual rainfall events. Each ate was located near the end of the resoluted urban stormwater network and results confirmed there are instances where the stormwater water contamination levels are above the low level trigger values in the ANZECO guidelines.

Sodiment-Quality

Concentrations of stormwater indicates contaminants (Copper, Load, Dinc, Total Polyarematic Hydrocarbons) in sediments vary widely across the 38 sites. For example, the background sites 'Awanui L' and 'Raupare 2', which receive no urban stormwater

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runoff show consistently low-concentrations, while depositional waterways such as the Rushapia, Riversica, Mallary, Mahora, Windson, Tomorna, and Wellwood Drains, the trongate Stream, and oter within the Karamu Stream as far upstream as Havelock North, typically show signs of contamination by one or more stormwater indicator parameters—most commonly sinc.

Comparison of stormwater contaminant concentrations in eadiments from the Havelock North 50 ears suggests accumulation of contaminants is less of an issue in these steeper gradient/higher velocity environments. It is possible a greater proportion of contaminants would be transported to the taranus Stream, within which deposition is more likely to occur. The most contaminated sediments are found in the Aushapia Stream (AVA4) where sinc and lead concent whom a are well in occess of the respective ANZECC High Trigger Value, and other contaminants such as aronne, shromium, mercury, nickel and FAH are elevated—in particular at the unbornedge.

Typically in the depositional tributary waterways stermwater indicator contaminant concentrations are highest at the urban edge and decrease steadily in a downstream direction toward the raining byteam. Elevated concentrations of stormwater contaminant concentrations at most in butary monitoring uites (where they are available) immediately prior to convergence with the Karamu-Stream orgest come transport of contaminants from wiban areas to the Karamu-Stream. An accumulation of stormwater indicator contaminants within the Karamu-Stream, in a downstream direction, supports the view that wiban stormwater contaminants are mobilised to the Karamu-Stream. Find data has been collected downstream of the Karamu-Raupare confluence (i.e., in the Cline River) so it is not known what contaminant concentrations are in the lower catchingent.

Macroinvertebrates

Macroinvertebrate communities are most healthy in the Havelock North streams, where SQMCL results suggest. Fair: and 'Poor' quality. Semi-quantitative invertebrate sampling in Havelock North streams suggest reasonably stable conditions between the 2011 and 2014 sample events. Low gradient tributaries of the Karamu Stream, and the Karamu Stream itself-support macroinvertebrate community accress fitting the qualitative descriptor. Food. There is some variation in sample scores between 2011 and 2014, however, the significance or causes of those differences are difficult to determine, and a causative link to stormwater contamination is equally difficult to establish. Macroinvertebrate community scores in the Rushippio Steam, especially at the urban addle (RUA4) were notably reduced in 2014 compared to 2011 – and the score returned from RUA4 during 2014 (SOMCL=27) suggests a heavily impacted, very unhealthy aquatic environment.

Stormwater-Quality

in-sternwater, are as the key discolved sternwater contaminant consistently found; with lead and cooper typically present in lesser concentrations. Of the three sites where sturmwater has been campled, flushapia a has the highest concentrations of stornwater has been campled. Rushapia that the highest concentrations of stornwater discharged from the trongate a outlet was found to have increased and downstream after reasonable inverse, however, interestingly, the discharge outlet had an apparent jathough not always statistically significantly disting influence on nutrients and turbidity as measured downstream of the outfail after reasonable mixing. ¹²

Stormwater-Quantity

in addition to stormwater quality management, the network consent requires Hastings District Council to mitigate the effects of increased runoff from new developments within the urban areas of the district.

Council now requires new developments to be compliant with the Hastings District Council's Engineering Code of Practice and other relevant documents so that incliniously sites control stormwater runoff to minimise the risk of overloading the notwork, causing panding issues within reads and private property.

* Summary of Findings from Hestings District When Bormweter Montaining - Forces Ecology

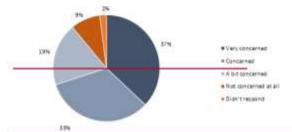
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Indicator WQ3: Residents' Rating of Water Pollution as a Problem Resident's level of concern about water pollution gives further insight into the perception of the state of water quality in the Datrict.

Council's Public Voice Survey was undertaken for the first time in 2014, and 98% of the 356 people surveyed responded to a question asking whether they consider water polition is a problem in the Hastings District.

Figure 34: Survey of Residents' Perception of Water Pollution as a Problem (2014)



Booms: Palata Home Survey, Heatings Gatriet Geurei

There is a strongly held perception from those surveyed that water pollution is a real problem in the Hastings District. - 20% were concerned or very concerned.

This is a new indicator added since the first State of the Stwinnment Report, and the first time this question has been put to the community, so there are no trends available at this time. However, with regular repeat surveys this indicator will be able to show whether perceptions of water quality in the District are improving or res.

Groundwitter quality in the Hustings District (particularly the Heristaungs Plains aquified is very high. Howke's Bay Regional Council more turing has not detected any elevated poliutants or naturally excurring chemicals of concern in this recourse to-date.

Surface water quality in the District however, construes to be variable, particularly during low flow periods in summer, and after heavy careful and flood events.

The reason-some rivers or catchments have botton-water and habitat quality than others which are saried and complex and the subject of detailed monitoring and recearch programmes carried out by Hawke's Bay Regional Councill[®].

Somewater discharge consents were granted in 2010 and monitoring of the discharge from the HDC network has been on going since 2010 and a significant amount of data has been gathered. This efformation indicates there are contaminants associated with stormwater discharge.

Responses

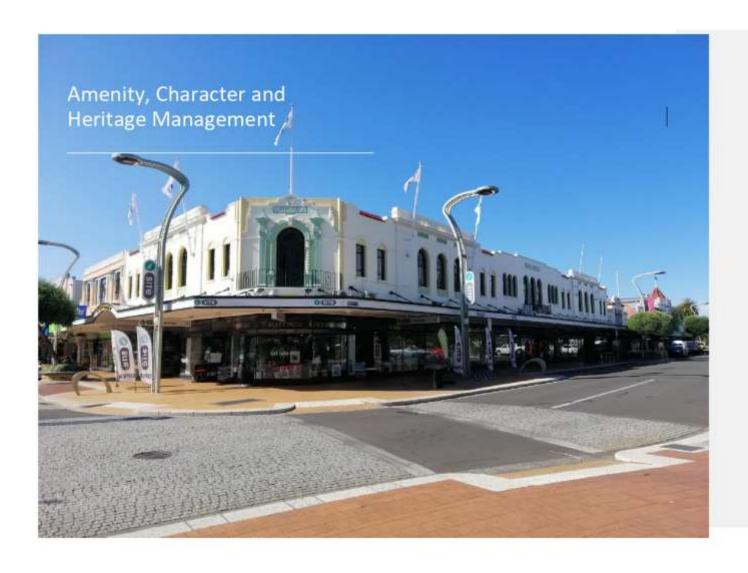
For the Community

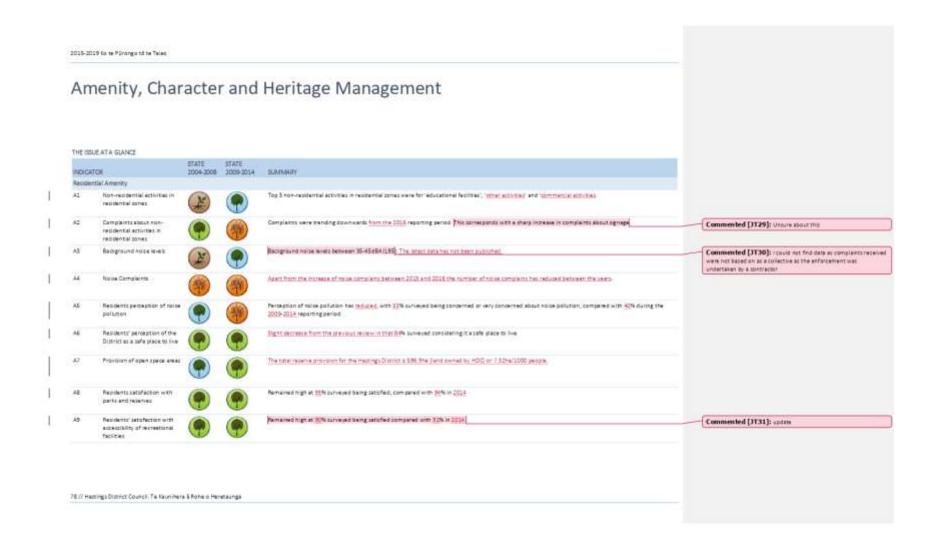
- If you live in the rural areas, ensure your wastewater system is regularly maintained to avoid contaminants leaching into nearby waterways.
- Land management practices have a significant impact on water quality—consider restricting stock access to waterways, develop welland areas as nutrient soaks and plant appropriate vegetation along the riparian margins of mers, takes and steem (preferably indigenous species, sourced locally)
- Take care to prevent discharges of contaminants to water, particularly over unconfined aguiler areas. Award putting chemicals, detergents or any other rubbish in stormwater drains, use low phosphate detergents in your laundry, and wash your car on the lawn rather than cending pollutants to the nearest river.

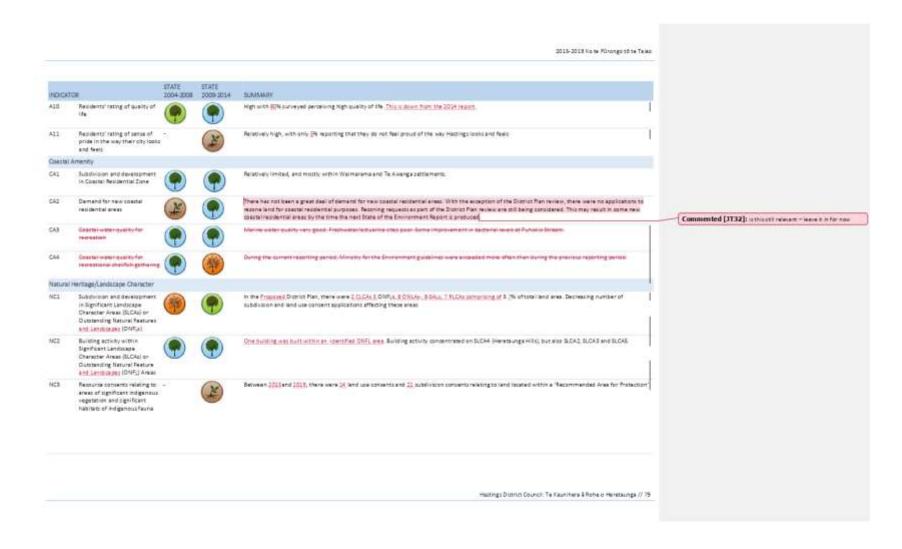
 Aprimate setales analysis of our face water quority in the Hallings Outside raths to the House is the Regional Council is of the on Halling and Council in April 18.

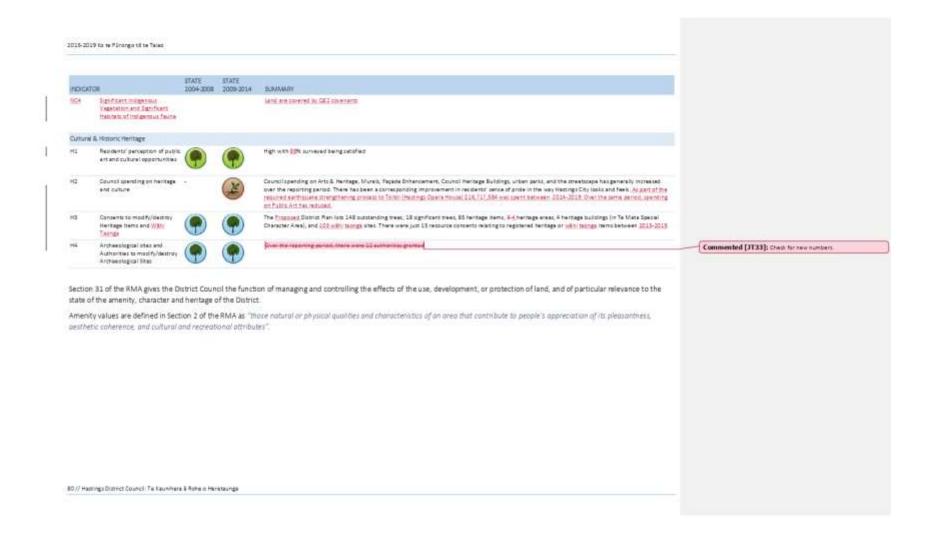
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Residential Amenity

Hastings is the primary urban area of the District, with several smaller urban areas including Havelock North, Flaxmere, Clive and Whakatu, as well as a number of rural service, coastal and marae settlements.

As the commercial and business centre, Hastings provides the principal focal point of business activity, employment, retailing and entertainment.

The majority of the population live in the urban and plains areas.

The 2005 New Zealand Urban Design Protocol describes urban design as being.

"_concerned with the design of the buildings, places, spaces and networks that make up our towns and cities, and the ways people use them. It ranges in scale from a metropolition region, city or town down to a street, public space or even a pingle building. Urban design is concerned not just with appearances and built form but with the environmental, economic, social and cultural consequences of design, it is an approach that draws together many different sectors and professions, and it includes both the process of decision—making as well as the outcomes of design."

Urban design is about connecting people and their places — making a successful environment that works now and into the future. Hastings District Council has adopted the NZ Urban Design Protocol, committing to creating sustainable and successful urban places for the community.

The community demands a high quality urban environment with attractive places to live, work and undertake business and recreation, well connected and easy to get around. The Hastings community has a vision to enhance its valued lifestyle, culture and heritage. These are often subjective values.

New development can alter the amenity, character and heritage of its surroundings. The District Plan deals with issues such as compatibility, density and design to ensure amenity values are maintained or enhanced over time.

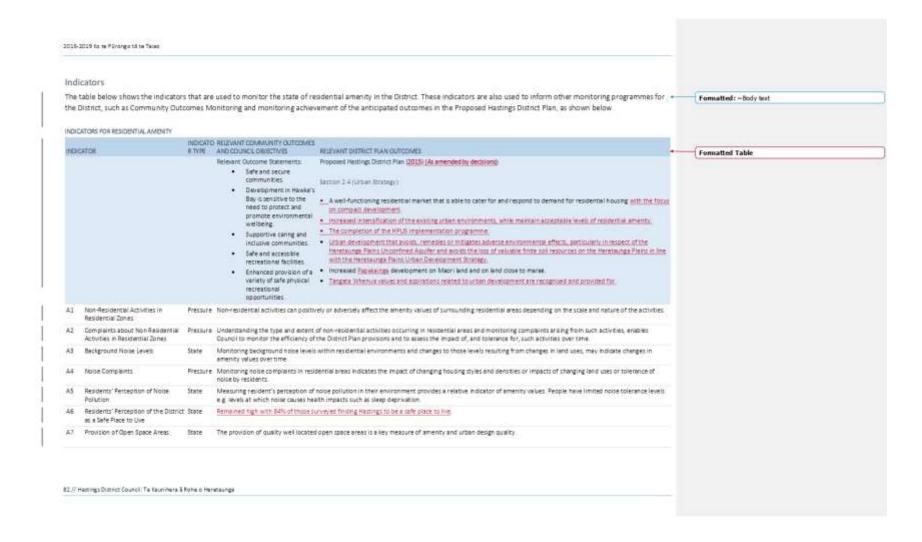


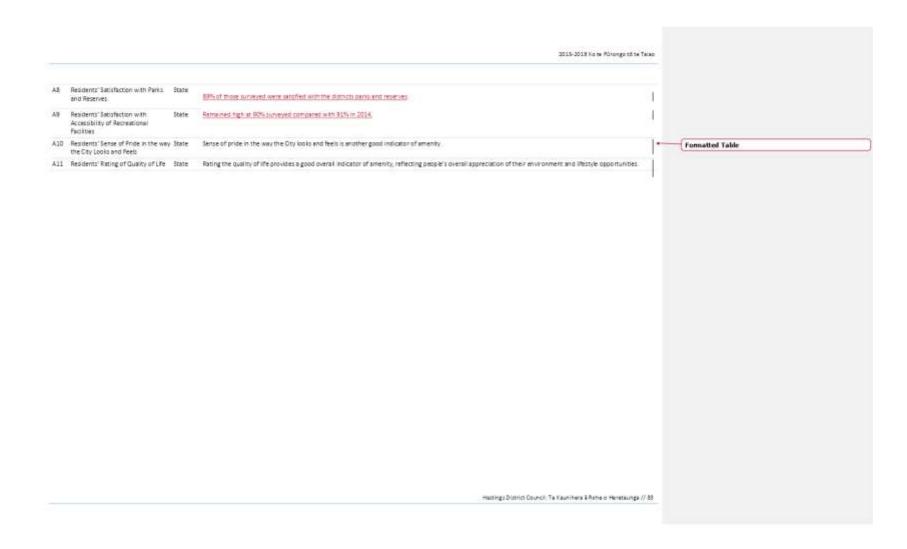


Photo: Replantal Development -Arataki, Havelock North Source: Heatings District Council Commented [JT35]: ma/ba change

Commended [3734]: Stall relevant? We are only after changes between 2015-15

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Monitoring Information

Indicator A1: Non-Residential Activities in Residential Zones

The amenity of residential areas may be affected by the types of land use activities undertaken. Residential activities use land and buildings for the purpose of permanent living accommodation. This includes dwellings and garages. Any activity outside of this is considered to be non-residential. It should be noted that there is a certain expectation and level of acceptance for limited non-residential activities in residential areas, such as the corner shop, small home occupations, local doctors etc.

Some non-residential activities in the residential zones are permitted in the District. Plan, and data on activities that do not brigger the need for resource consent is difficult to obtain without comprehensive survey. However, data on non-residential activities for which resource consents were required, can give some general information in terms of demand for such activities in residential areas. An increase in demand could suggest some pressure on residential amenty. Such information would also enable identification of any trends and possibly establish some correlation with people's appreciation of their residential neighbourhood.

The following graph show the broad categories of the types of non-residential activities in Residential Zones that were granted resource consent during the period 2015-2019

Half of the resource consents granted for non-residential activities in Residential Zones were for extensions or variations to existing activities.

The most common non-residential activities that required resource consent are as follows:

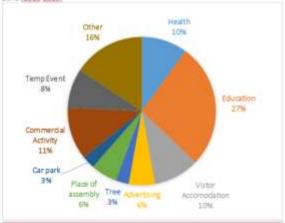
- 1) Education Facilities (19 resource consents granted)
- 2) Other (11 resource consents granted)
- 3) Commercial Activity (8 resource consents granted).

The majority of resource consents for education facilities were for <u>education facility</u> <u>upgrades</u>.

The graphs below show that over the period of 2015–2019, there is demand for commercial activities, healthcare facilities, and other non-residential activities that go beyond the amits set in the District Plan. This is different compared with the results of the 2009-2014 State of the Environment Report.

The following graph shows the types of non-residential activities granted resource consents during the five year period of 2015-2019.

Figure 22 Resource Consents Granted for Non-Residential Activities in Residential Zone (2015-2019)

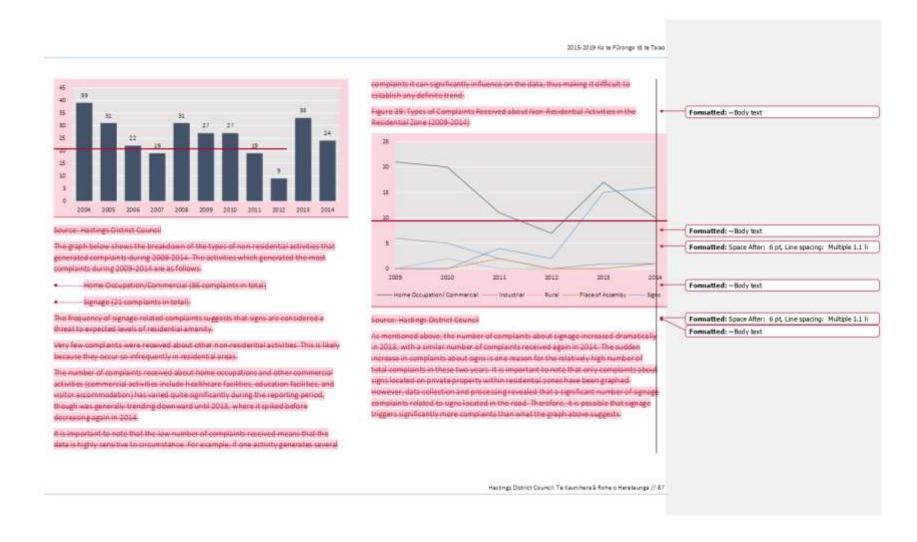


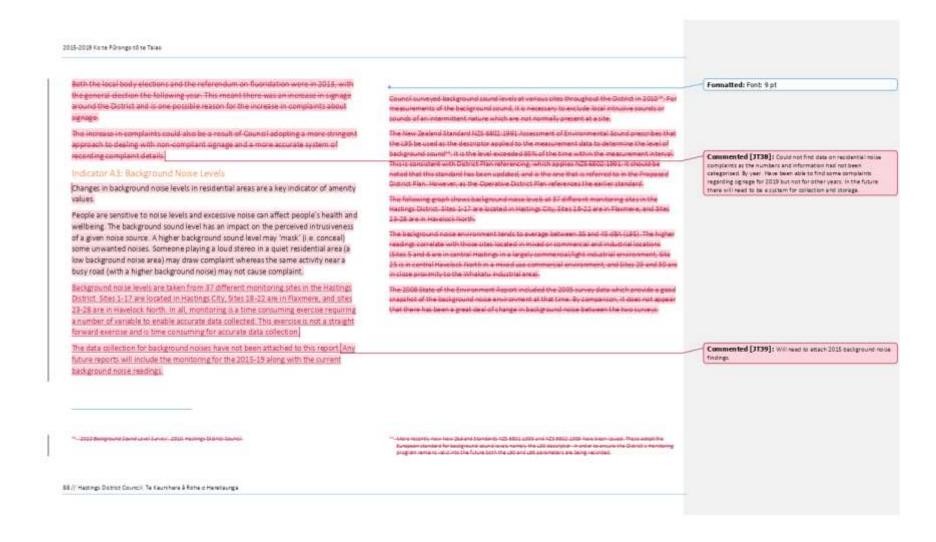
This shows that education facilities, commercial activities, and other activities were the most common non-residential activities granted resource consent in residential

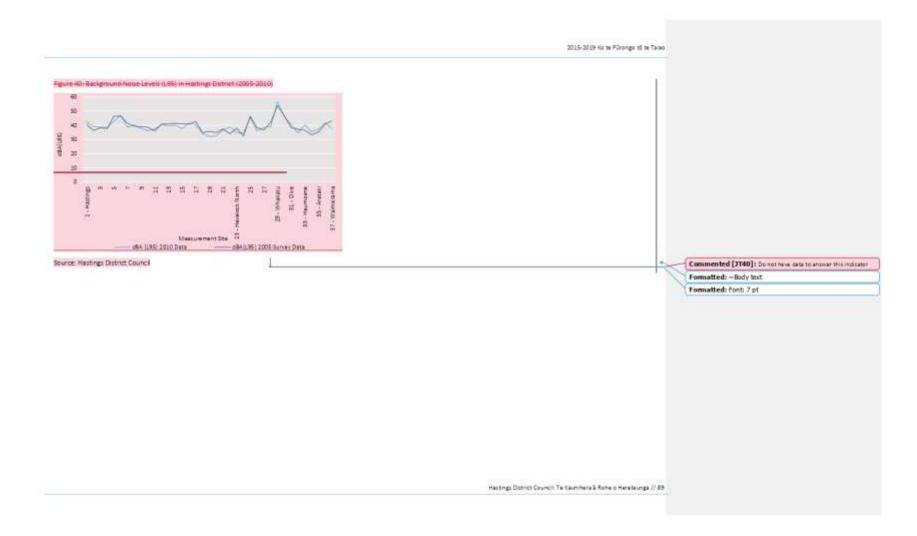
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2015-2019 No te Pürongo 16 te Talao zones. Compared with the previous reporting period, education facilities, temporary events and offices were the three most required non-residential consents. Hastings District Council Te Kaunihera & Robe o Heretaungs // 85









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The following graph shows the total number of noise complaints and monitoring sonsents between 2015–2019.

Figure 2641: Noise Complaints Received by Hastings District Council 2015-2019/20

	2015-16	2016-17	2017-18	2018-19	2019-20
Excessive noise complaints	857	2872	2385	1857	2084
Resource consents requiring monitoring	596	640	758	695	465
Resource consents monitored	309	243	415	923	465

Apart for the 2016-17 peak, noise complaints have decreased in the 5-year period. However, the majority of this increase occurred between years 2015 and 2017.

Noise complaints continue to decrease after 2016-17, before increasing in 2015-20.

While there is an element of variability in more recent years, the general trend over the last 5 years is that noise complaints have decreased.

Indicator A5: Perception of Noise Pollution

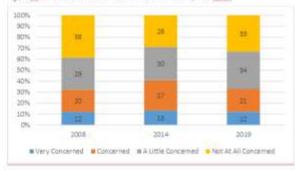
Measuring resident's perception of noise pollution provides a further relative indicator of residential amenity values. Surveying people's level of concern regarding noise pollution provides a good overall perception of noise nuisance.

The following graph shows the results of Council's 'public voice Survey' and the Public Voice survey which replaced Communitrak in 2014. Many of the survey questions in the Public Voice survey replicated the Communitrak survey in order to produce results that could be compared with previous years. This indicator shows that concern about noise pollution is increasing. It is interesting to note that the number of noise complaints has stabilised, yet concern about noise pollution has continued to increase. In 2008 and 2014, 32% and 40% of people surveyed reported being concerned or very concerned about noise pollution.

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In 2019, this remained steady at 33%. An additional 34% reported being a little concerned. Only 33% of the 2019 survey respondents said they were not concerned at all about noise pollution. This is compared with 38% and 28% in 2008 and 2014 respectively.

Figure 2742 Residents' Concern about Noise Pollution (2008-2019)



Source: Hattings District Council Communitral Survey (note: numbers do not add up to 100% as those who did not answer the question were not graphed).

However residents aged over 60 years of age, who live in one or two person households or who have resided in the District for more than 10 years were slightly more likely to feel very concerned. Although the Public Voice survey was not subject to the same analysis, the questions from Communitrak were directly transferred to the Public Voice survey. Therefore, the analysis of Communitrak results carried out by NRB-Ltd is considered relevant.

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Therefore, the age group of survey respondents may have contributed to the level of reported concern about noise poliution, in the 2019 survey, 55% of respondents stated they were aged 60 or over. This is compared with 58% in 2014 and 35% in 2008. Therefore, a possible reason for the increase in concern about noise pollution in 2004-2019 is that the over 60 age group accounted for a much larger proportion of survey respondents. Data about the length of time people had lived in the District, or the number of people in the survey respondents' households was collected. 64% of those surveyed have lived in the Hattings district for more than 20 years while 77% lived in a household of two or less people. Because respondents were mature in age and living in households with less than two people this could be an indicator of the stage in life that respondents felt more sensitive to noise related issues.

Indicator A6: Perception of the District as a Safe Place to Live

People's perception of general amenity values is usefully indicated by their awareness of safety and the extent to which social crimes are perceived as a problem.

When asked <u>B4%</u> of respondents to the Council's Public Voice Survey (<u>2019</u>) believed the Hastings District is a safe place to live, and the following graph indicates there has been a significant improvement in perception since <u>1998</u>.

In 1998, 71% of respondents agreed 'Yes, Definitely' or 'Yes, Mostly' with the statement that Hastings District was a safe place to live. While the number of 'Yes, definitely' responses dropped over the entire reporting period, the perception of the District as a safe place to live improved generally. This people who answered either 'Yes, Definitely' or 'Yes, Mostly' increased steadily to 85% in 2008 and 89% in 2014.

The number of people who did not believe the District is a safe place to live, answering 'No, definitely not' and 'Not really' increased to 16% in 2019 compared to just 5% in 2014. Furthermore, 73% of males and females surveyed indicated that they believed Hastings was 'mostly' a safe place to live.



2015-2019 No te Pürongo tő te Talao

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Source: Hastings District Council <u>Public 19 is</u> Survey (note: numbers do not add up to 100% as those who add not answer the question were not graphed).

Passible reasons for improving perceptions of the District as a safe place include the introduction of the City Assist programme. More detail about the City Assist programme will follow in ease study at the end of this chapter.

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However, according to NRB Ltd's analysis of the survey results in 2008, Hastings District as a whole was below its peer group (similar Local Authorities) and the national average in terms of the percent saying "res, Definitely" (24% Hastings District, 32% Reer Group, 30% National Average).

This comparative data is no longer available, so it is not possible to track the District's performance against its peer group, and the national avarage.

As a whole, the number of people who reported the District as a safe place to live has increased each year the surveys were undertaken.

Indicator A7: Provision of Open Space Areas

The total Fireserve provision for the Hastings District is 596.9ha (land owned by HDC) or 7.82ha/1000 people. However there is justification to include Te Mata Peak to the reserve provision, as this land was gifted to the people of Hawker's Bay in 1927 by the Chambers Family. It is protected in perpetuity as a recreation reserve and available for recreational purposes for all citizens of Hawker Bay under the management of a charitable trust. The inclusion of Te Mata Peak brings the total to 896.44 or

8.54ha/1000 people. The Hastings urban areas has 131.45ha or 4.15ha/1000 people. Havelock North urban area has 76.32ha or 5.25ha/1000 people. Flammere has 63.83ha or 6.16ha/1000 people and the Rural area has 324.88ha or 13.87ha/1000 people.

Urban properties within walking distance of a park

- Properties within 500m of a park Hastings 87.7%
- Properties within 500m of a park Flaxmere 100%
- Properties within 500m of a park Havelock North 97.4%
- Total properties within 500m of a park 82 1%

Urban properties within walking distance of a playground -

- Properties within 500m of a playground Hastings 53%
- Properties within 500m of a playground Flaxmere 88.7%
- Properties within 500m of a playground Havelock North 58:2%
- Total properties within 500m of a playground 59.8%

Indicator A8: Residents' Satisfaction with Parks and Reserves

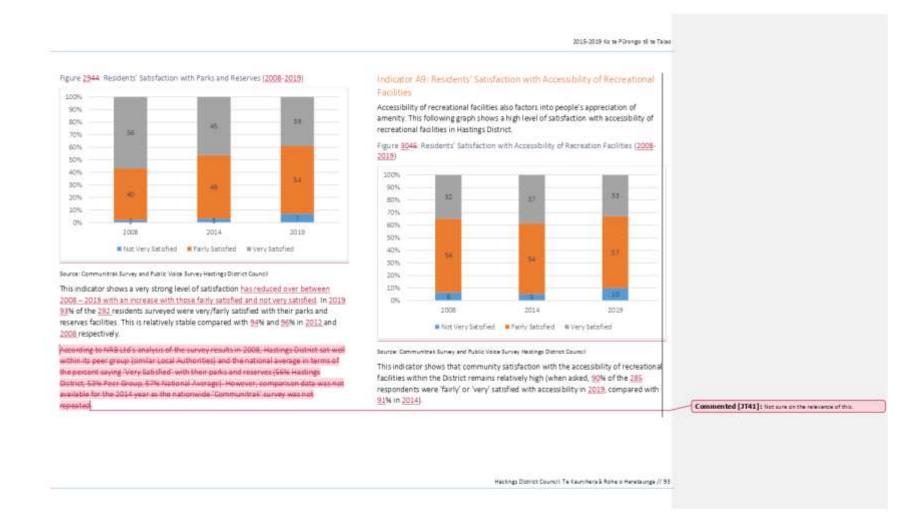
It is not just the quantity, but the quality of open space and recreational facilities that is a key factor determining the pleasantness and desirability of a place to live, work and do business. Formatted: ~ Body text, Indent: First line: 0 cm

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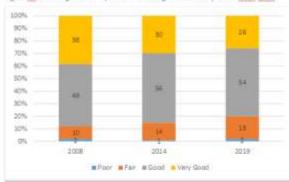


Indicator A10: Residents' Rating of Quality of Life.

Perception of quality of life in the District indirectly indicates a general appreciation of amenity in its widest sense. A good rating of quality of life suggests a correspondingly high level of appreciation of amenity.

The following graph shows that the large majority of those surveyed during the Council's Communitrak and public voice survey perceive their quality of life to be high. The proportion of survey respondents' who rated quality of life in Hastings District as being 'Good' or 'Very Good' has remained steady between 2014 and 2019, being 86% and 80% respectively. The number of survey respondents' who identified with the most positive and most negative responses (poor and very good) both increased between 2014 and 2019. However, the general trend is one of consistency with previous results.

Figure 3146: Rating the Quality of Life in Hastings District Comparison 2008-2019

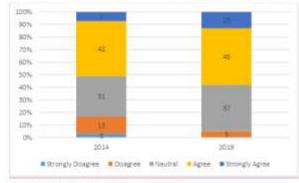


Source: Hastings District Council Communitral Survey and Public Volce Survey

in 2006, Hastings District sat well within its peer group (similar Local Authorities) and the national average with an 87% rating for 'good' or 'very good', compared with 85% (peer group) and 86% (national average). However, comparison date was not available for the 2014 year.

Indicator A11: Residents' Sense of Pride in the way Hestings City looks and feels

Figure 3747: Residents' sense of pride in the way the city looks and feels (2014-7019)



Source: Hastings District Council Survey and Public Voce Survey

Sense of pride in the way the city looks and feels is a broad measure of indicating satisfied residents' are with urban amenity. This indicator has been included in the State of the Environment Report for the first time, so there is no comparison data available.

It is difficult at this stage to draw any significant conclusions from the indicators for residential amenity. Many of the above indicators (particularly those relating to non-residential activities and complaints in residential areas and noise), need additional monitoring over a longer period to give more useful information.

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2015-2019 No te Pürongo 15 te Talao

There were 45-70 resource consents to undertake new or easting non-residential activities in the residential agness of the District between 2014 and 2019. Educational facilities were the most prevalent, followed by education facilities, commercial activities and others. With controls, these are appropriate in residential environments and do not pose a threat to residential amenity.

On average, resident surveys in 2005-2008 and 2014 indicated the community is concerned about noise pollution.

The total number of noise complaints has gradually reduced over the last 4-year period to 2019.

It is important to note that as this that multiple noise complaints received by the same person about the same noise source are included in total figures and may have an impact on the trend observed. Future reporting would benefit from looking more closely at the source of noise complaints, so as to avoid counting multiple complaints by the same person more than once where it is not appropriate to do so.

in the meantime, residents' perception of safety, level of open space provision, satisfaction with parks and reserves and accessibility of recreational facilities, along with quality of life ratings suggest that the perception of amening generally is fairly high, and comparable to that of simfar Local Authorities and the national average.

Responses

For Community

- · Get to know, and be considerate of, your neighbours
- Make use of the many facilities within your community
- Celebrate and support the positive aspects of your community.

For Counc

- Monitor the trend for increasing number of non-residential activities establishing in residential areas.
- Complete a survey of Background Noise levels on a five yearly basis, with the next survey to be undertaken in later 2021 as 2020 was missed due to the Covid 19 virus.

- Review the causes of noise pollution in residential areas to identify methods to reduce the perception of noise pollution
- · Identify source of noise complaints
- Continue to survey residents' perception of quality of life, and satisfaction with the facilities provided in their neighbourhood.
- To implement a system for monitoring and tracking compliants received by year.
 This will enable easier data collection for future reference.

Hastings District Council Te Kaunihera & Robe o Heretaungs // 95

2015-2019 Kone Pürongo törte Talac

Coastal Amenity

Coastal settlements within the District are generally low <u>residential</u> density and <u>dotted</u> along the coastline. They provide another option for residential living, where the amenity and character <u>of these settlements</u> are <u>shaped</u> by the coastal environment.

There are often competing demands between protecting a sometimes fragile coastal resource, and the community's desire for access to and the use, development and enjoyment of its resources.

These small settlements have grown on the coast as holiday places, around traditional marae settlements or as rural service centres including Whirinaki, Waimarama, Haumoana, Te Awanga, Waipatiki and Tangolo.

in recent times more permanent dwellings have established in these centres and some also offer basic commercial services.

Council's growth strategy has identified coastal areas where urban development can more readily be accommodated and by default, those areas where development should be resisted in order to protect coastal amenity and character. Much of this also relates to adequate infrastructural provision and coastal hazards.

The coast also has significant value as a place of recreation — swimming, picnicking, walking, surfing, diving and fishing, it also has significant cultural, spiritual and ecological values for mana whenua. The coast has played an important part in history for mana whenua, being a place of occupation and settlement, a source of food, of materials for whakairo, rarange and the making of tools and weapons. The coast contains numerous urupa and sites of significance for mana whenua.

Indicators

The table below shows the indicators that are used to monitor coastal amenity and character in the District. These indicators are also used to inform other monitoring programmes for the District, such as Community Outcomes Monitoring and monitoring achievement of the anticipated outcomes in the Hastings District Plan, as shown below.



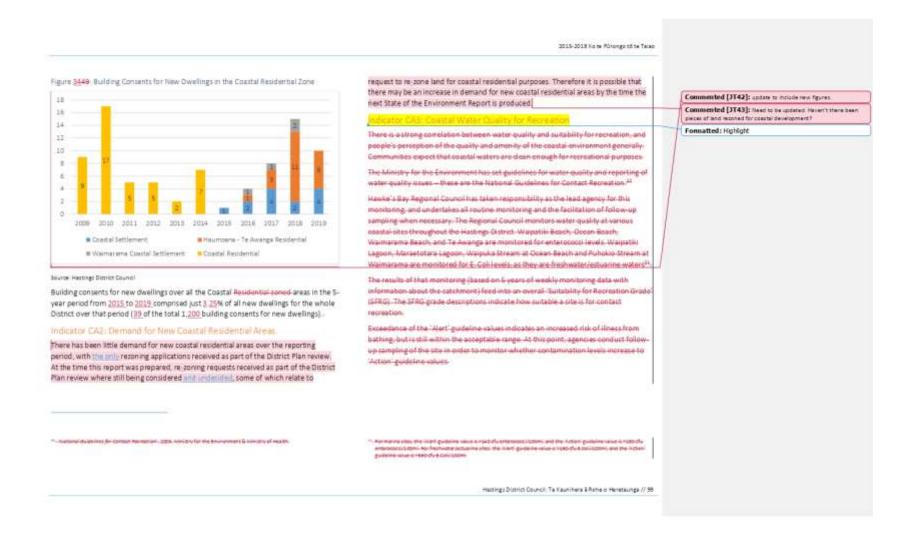
Photo: Ocean Beach Source: Hastings District Council

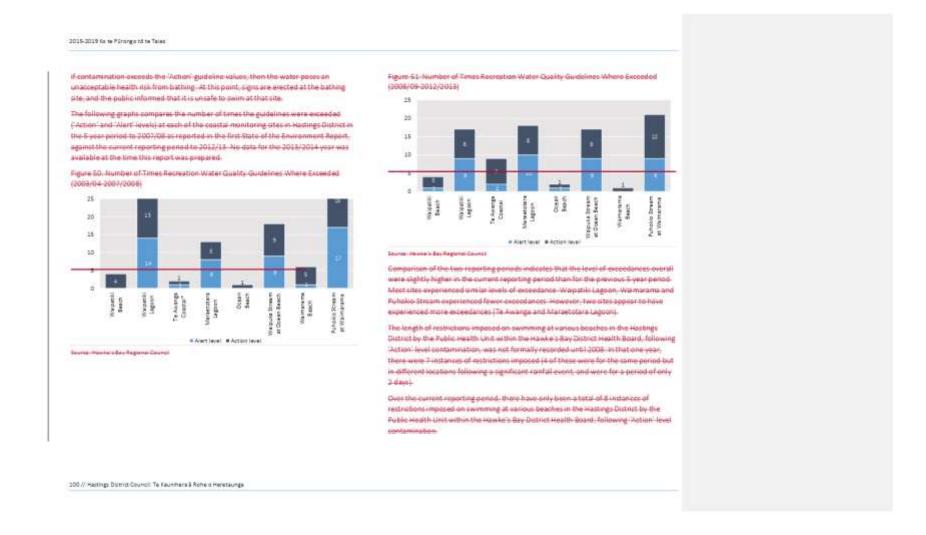
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			Bey's lakes, streams, waterways and coastlines are protected and	 An integrated management approach to the use, sevelopment, and protection of the Coastal Environment is implemented. The protection of natural, cultural, heritage, and scenic features of the coast, that reflect the significance of 		
			enhanced	The adoption of long term sustainable development strategies for each of the coastal community's socional and natural heritage. The adoption of long term sustainable development strategies for each of the coastal communities. What Hop values and interests will be recognised and provided for in Council's management of the coastal environment.		
CAL Subdivision an Coestal Repide	nd Development in the ential Zone	Pressure	These indicators will enable Council to monitor trends for urban development particularly in coastal residential settlements and adjacent rural sones. This will assist in understanding if and where there are any pressures, in pursuing long term sustainable development strategies for the District's coastal communities, and ensuring the coastal environment is managed and protected. These indicators provide an improved understanding of the natural evalues of the District's coastal environment and where there may be lossed with its heads and management in terms of oursability for recreation and as a food source. This indicates how well the coastal environment is being managed, protected and sustained for future generations.			
CA2 Demand for N Areas	iew Coestal Residential	Pressure				
CAS Goods Water	Quality for Recreation	State				
CA4 Coestal Water Shellful Gothe	Quality for Recreational aring	State				

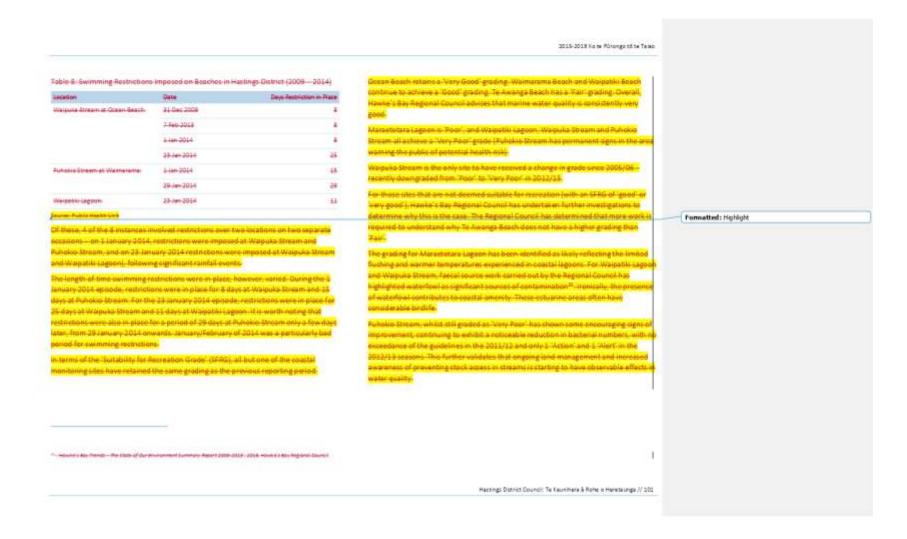
Hastings District Council: Te Kaunihers & Rohe o Heretaungs // 97







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2015-2018 No te Pürongo tő te Teleo The results in the above graph for the two-shellfish gathering waters within the Hastings worsened - with samples breaching the guidelines every season since 2009/10. District reveal that compliance for shellfish gathering is reasonably poor. Waipatiti Beach compliance is better, but has fluctuated over the period - achieving compliance for only 4 of the 8 years of available monitoring data. At Te Awanga compliance appears to have worsened - with samples breaching the guidelines every season since 3009/10: in 3009/10. 50% of the camples breached the Responses Formatted: ~ Body text, Pattern: Clear (Accept 1) guidelines, and 30% of the samples breached the guidelines in 3010/11 and 2013/13. For Community Waipatiki Beach compliance is better, but has fluctuated over the period - activeving Care for the coactal environment by removing your rubbish and taking your compliance for only 4 of the 8 years of available monitoring datawaste away and disposing of it appropriately The results in the above graph for the two shellfish gathering waters within the Hastings If you live in the coastal environment, and operate a septic tarm or wastewater District reveal that compliance for shellfish gathering is reasonably poor. At Te Awangs compliance appears to have worsened - with samples breaching the guidelines every treatment system, ensure it is operated and maintained according to the supplier's season since 2009/10. in 2009/10, Solii of the samples breached the guidelines, and 30% of the samples breached the guidelines in 2010/11 and 2012/18. Walloatki Seach Connect to the community sawerage scheme in your quartal settlement if compliance is better, but has fluctuated over the period - achieving compliance for only there is one 4 of the 8 years of available monitoring data-For Council Development in the established coastal settlements of the District has been relatively limited, and there have been only two requests to rezone land for coastal residential Improve public awareness of what contributes to degraded itorimiyater quality development to date (one approved, and one withdrawn): For future reporting, Council will collect data on residential subdivisions in the Aural & Plains Zone adjoining the coast ine or our ent Coastal Residential Zones. This w Currently, data is not readily available to determine exactly what is occurring in the coastal environment outside of the Coastal Residential Zone (i.e. on rural zoned land in anable a wider understanding of pressure for coastal development in the District the coastal marginj. Anecdotally, there have been a number of subdivisions processed Council continues to investigate the feasibility of community sewerage. by Council for Tifestyle' purposes in this area, particularly around Walmarama and schemes for Waimarama and Te Awanga/Naumoana. Geeen Beach Hawke's Buy's marine water quality is very good - Warpatiki Beach, Grean Seach and Waimarama Scach are all graded "good" or "very good". Freshwater/estuarine sites are not so good. Warpatiki & Maraetotara Lagoons and Warpula & Fuhokio Streams are all graded 'poor' or 'very poor'. None of the gradings for coastal monitoring rites in the Hastings Outsict have altered significantly in the five seasons to 2012/18. There has been a noticeable improvement in becturial levels for Puhokio-Stream since 2000, but not sufficient to improve its overall grading. Pubolio Stream is permanently signposted, warning the public of potential health risk-Morntoring at Te Awanga and Walpatiki Beach for their suitability for the collection of shellfuh only began in 2005/06. Results show compliance at Te Awanga appears to have Hastings District Council: Te Kaunihere & Rohe a Heretaungs // 203

3015-2019 to te Püranga tá te Talea

Natural Heritage/Landscape Character

Natural heritage is the legacy of physical landscapes and natural environments identified as having unique or outstanding characteristics that should be protected for future generations.

The significance of the physical landscape is based on how it is perceived and what it means to people. Landscape is the relationship between natural and human landscape patterns, human experience, and perception of these patterns, and meanings associated with them. Landscape encompass both physical and intrinsic aspects. Mana whenus view the landscape as an historical record of past events. The landscape depicts occupation and whakapapa, showcasing the relationship between the people and the land. Or all traditions and landscape features combine to convey the history of hapu whenus in the District.

Hastings is characterised by, and known for, it's significant natural landscape, with sunbaked hills surrounding a fertile basin of orchards, vineyards and farms.

Hastings District has simple and dramatic natural landforms which strongly express the geological processes forming the east coast of the North Island.

The natural heritage and landscape character of the District is distinct and highly valued by the community. Protection of natural heritage and landscape character is largely achieved through District Plan provisions. The <u>Proposed</u> District Plan identifies.

- "Significant Vegetation, Habitats & Geological Sites" termed 'Recommended Areas for Protection' (RAPs), being those remnants of significant indigenous vegetation and significant habitats of indigenous fauna in the District; and
- Significant Amenity Landscapes (SAL's) and 'Outstanding Natural Features and Landscapes' (ONF(s), being significant landscapes and landscape features identified throughout the District. The Outstanding Landscapes also include Outbiral Landscapes

Indicators

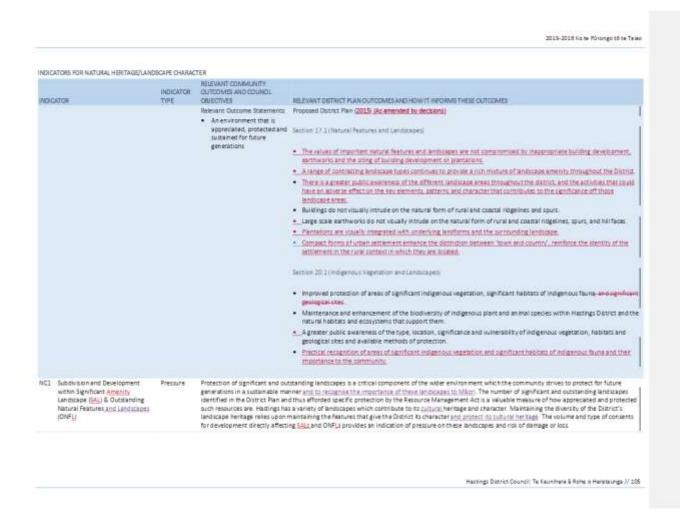
The table below shows the indicators that are used to monitor the state of natural heritage and significant landscapes in the District. These indicators are also used to inform other monitoring programmes for the District, such as Community Outcomes. Monitoring and monitoring achievement of the anticipated outcomes in the Proposed Hastings District Plan, as shown below.



Photo: Te Mata Pess Source: Hastings District Council

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Building Activity within Significant Amenity Landscape (SAL) or Outstanding Natural Feature Landscape (CRFL) Areas	Pressure	(refer above)
Significant Indigenous Vegetation and Significant Habitats of Indigenous Pauna	State	Human habitation and land development has resulted in most of the District's natural landscape(s) being modified. Today there are very few areas of remnant indigenous segetation remaining. This increases the importance of protecting those semanting areas of native forest, settlends, and regenerating scrubland. The number of significant natural areas identified in the District Plan and thus afforded specific protection by the Resource Management. Act, and also those areas protected by private coverants (e.g. QEI open space occurrants), are a valuable measure of how appreciated and protected such resources are.
Significant Indigenous Vegetimion and Significant Habitats of Indigenous feuna		

2015-2018 No te Pürongo tő te Talao 'Aural Character Landscapes (BCLs), Coastal Character Landscapes (CCLs) and Significant Monitoring Information Amenity Landscapes (SALs) are listed by their general location, including: Indicator NC1: Subdivision and Development Activity within Significant Maungaharuru Te Waka (RCL1) Amenity Landscope (SAL), Coastal Character Landscapes (CCL), Rural Eskdale Valley (RCL2) Character Landscape (RCL) ex-and Affecting Outstanding Natural Features Tutaekun Valley (RCL3) and Landscapes (ONFL) Hills surrounding Heretaunga Plains (Koroki po, Swamp Road Hills, Matapiro Hills, Ngaruroro Valley, North Eastern Raukawa Hills and Puketapu Hills (RLC4) The number of significant and outstanding landscapes identified in the Proposed District Plan and thus afforded specific protection by the Resource Management Act is a Raukawa – Kaokaoroa (RCLS) valuable measure of how appreciated and protected such resources are. Havelock Foothills (RCL6) The Proposed District Plan, as of 2019 identifies a total of 17,600 hectares of land as Tuki Tuki Valley – [Mid and Upper Valley] (RCL7) being of significant amenity landscape or as containing outstanding natural features and Cape Kidnappers Headland (SALI) landscapes. This equates to approximately 3.4% of the total land area of the District. Lake Tutira Basin (SAL2) These areas are delineated on the Planning Maps. Maungaharuru Range, Titlokura, and Te Waka (SAL3) "Outstanding Natural Features and landscapes" (ONFLs) include: Roy's Hill – Hills surrounding Heretaunga Plains (SAL4) Te Mata Peak and Te Mata East Face (ONFL1) Te Aute Valley including Lake Poukawa, Te Aute Hill, Raukawa Range and Kaokaoro Range [SAL5] Kahuranaki (ONLF2) Te Mata Peak Surrounds (SAL6) Mount Erin – Kohinurakau (ONFL3) Mount Erin – Kohinerakau Sumounds (SAL7) Cape Kidnappers and Rangarika Coast (ONFL4) Whakaari Headland – Tangolo Bluff (CNFLS) Waitangi (SAL8) . Maungaharuru Range, Titiokura, and Te Waka (ONFL6) Clifton (CCL1) Kaweka and Ruahine Ranges (within Forest Park boundaries) (ONFL?) Tangolo Beach Settlement (CCL2) Ocean Seach Settlement (CCL3) Motu O Kura – Bare Island and Waimarama Coast (ONFLB). Together these features cover approximately 81,357 hectares in the District. Waimarama and Peach Gully (CCLA) Formatted: Font: Bold Waipatiki Beach (CCL5) Together these features cover approximately 138,291 hectares in the District: Formatted: Font: Bold Hastings District Council: Te Kaunihere & Rohe a Heretaungs // 507

2015-2019 to te Püranga tá te Teled



Photo: Turifica Turific) Valvey Source: Hastings District Council

Te Mata Feak (CNF_1) and Cape kidn appers (CNF_4) are nationally and internationally recognised landscape features. The remaining areas and features have either regional or local significance:

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The identification of and corresponding District Plan provisions relating to Significant Amenty Landscapes (SALS) and Outstanding Natural Features and Landscapes (ONFLS) are the principle mechanism to retain these resources for future generations to appreciate. Collectively, these areas fall within the Natural Features and Landscapes section of the Proposed District Plan.

The focus of District Plan provisions is on buildings, earthworks and plantations on prominent ridgelines, hill faces and other landscape features, as these are considered to pose the greatest risk to these landscapes.

Whilst all subdivisions trigger the need for a resource consent, only some land use activities in these identified landscape areas trigger the need for resource consent.

The District Plan has specific rules for some ONFLs. In SALL earthworks, plantations and most non-residential buildings do not brigger consent under the Landscape provisions unless they lie in the Rural Residential Zone.

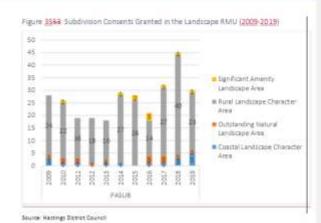
There are a number of activities that do not trigger the Landscape provisions in the District.

Plan but which may have some cumulative, albeit minor, impact on these landscapes.

Currently, it is difficult to gather data on these unrestricted land use activities.

The following data essentially only represents pressure from the more significant developments in the <u>SAL</u> areas, or developments occurring in the more significant ONFIL areas of the District in general.

This still represents a useful relative indicator in terms of trends over time, and captures those activities that are most likely to impact on the landscapes.



2015-2018 No te Pürongo tő te Teleo

From the above graph, the number of subdivision consents that have the potential to affect the identified (andscape; between 2009 and 2019 were consistent in number averaging 25 consents per year, and trended upwards in the 2015-19 year period.

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Hastings District Council; Te Kaunihere & Rohe o Heretaungs:// 109

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2015-2019 to te Püranga tá te Talad

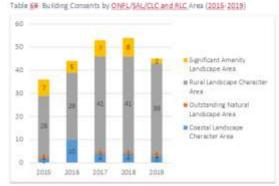
Given the relatively small number of resource consents in these areas, the data is highly sensitive to human error associated with data entry. Therefore future reporting would benefit from a concentrated effort to record details of resource consents accurately, as over time it would more provide more reliable data identifying those landscapes which are experienting the greatest or growing pressures, and whether there are certain types of activities affecting particular landscape areas.

Indicator NC3: Building Activity within Significant Amenity Landscape Areas (SALs) or Outstanding Natural Features and Landscapes (ONFL) Areas

Another relative measure of development pressure in the Landscape Areas, RMU is actual building activity. The following graph shows the number of building consents granted within the respective SALS, RLC, ONFL and CLCAS between 2015 and 2019. As a result of recent Environmental case law regarding the use and classification of identified landscape areas. Council view this as an opportunity to amond its current landscape classification as part of the District Plan review. These new classifications are as follows:

- Significant Amenity Landscape Area
- Rural Landscape Character Area
- . Outstanding Natural Features and Landscape Area
- Coastal Character Landscape Area

The results may vary compared with the previous reporting period.



Source: Hestings District Council

As shown above, building within the ONFL are low with only four applications reserved between 2015 and 2019.

This indicates that the restrictive planning provisions to build in the more highly-valued outstanding landscapes of the District (the restriction on buildings over 50m² required.

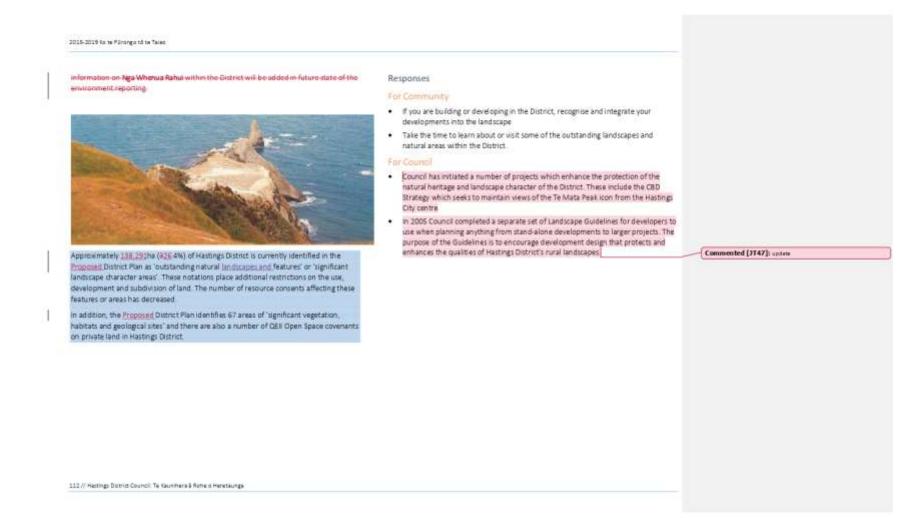
Building is not as constrained in the <u>RC</u> areas, and this is evident in the number of building consents granted within those areas over the whole of the reporting period. Consents have concentrated on <u>RCL2</u> (Eskidale <u>Valley)</u>, <u>RCL3</u> (Tutaekuri Valley), <u>RCL4</u> (Hulls Surrounding Heretaunga Plains (Korokipo, Swamp Road Hills, Matapiro Hills Magaruroro Valley, North Eastern Rashawa Hills and Puketagu Hills), RCL5 (Rashawa Kackagroa Valley), RCL6 (Heretaunga Foothills), and RCL7 (Tukit Fukit Valley) (Mid and Upper Valley).

This is not necessarily an indication of pressure of itself, or of an adverse impact on landscape values, as it may merely reflect that <u>RCL</u> has describe areas for building, and contains areas suitable for building. Formatted: Bulleted + Level: 1 + Aligned st: 0.63 cm + Indent st: 1.27 cm

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2015-2019 Naite Pürongo tö te Teleo

Cultural and Historic Heritage

Cultural heritage comprises the legacy of physical artefacts and intangible attributes of a group or society that are inherited from past generations, maintained in the present and bestowed for the benefit of future generations.

Positive public perception, awareness of the cultural and historic issues and support for investment in the District's heritage are important components of any successful programme to protect and enhance the resource for future generations.

The built heritage of hapu when us are the marse of which there are 23 in the Hastings District. The District has \$5 sites of significance registered as wah- taongs in the District Plan. These sites record important events and cultural practices. Protecting these sites from inappropriate development assists the oral traditions and customary practices of tangata whenua with mans whenua, and protects cultural and historic heritage values for the community as a whole.

Hastings District has numerous recorded cultural heritage items including historic areas, buildings and objects, trees, want taongs and archaeological sites.

Specific legislation designed to protect heritage items includes the Heritage New Zealand Pouhere Taonga Act 2014 and the Resource Management Act 1991. The Heritage New Zealand Pouhere Taonga Act 2014 provides a framework for the identification and listing of heritage items and archaeological sites. The District Plan identifies those heritage resources worthy of protection and identifies methods to assist. In the preservation of heritage resources some items in the District Plan also list Historic Places Trust registered items.

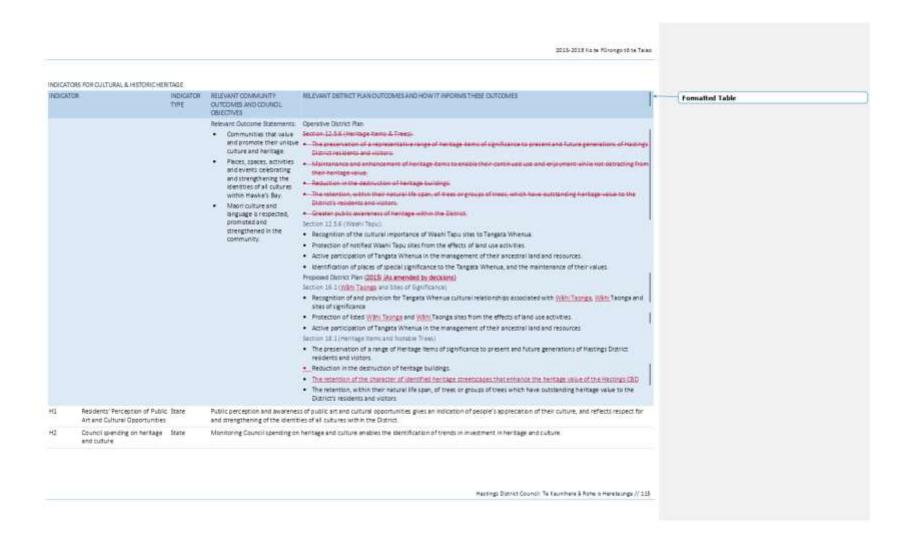
Indicators

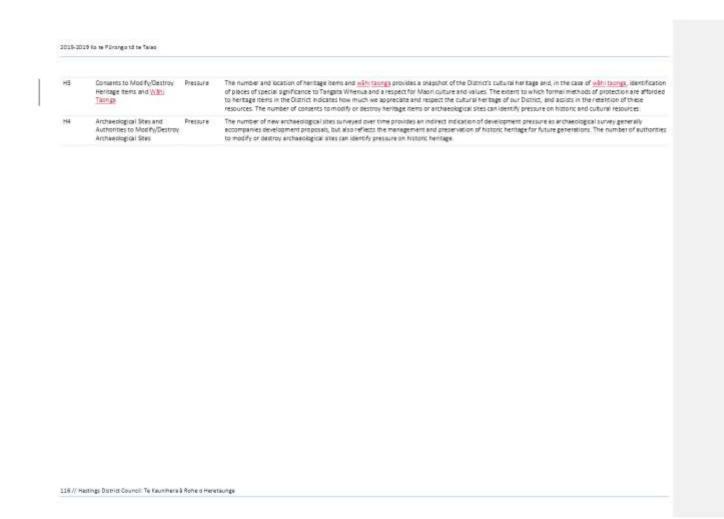
The table below shows the indicators that are used to monitor the state of cultural and historic hentage in the District.

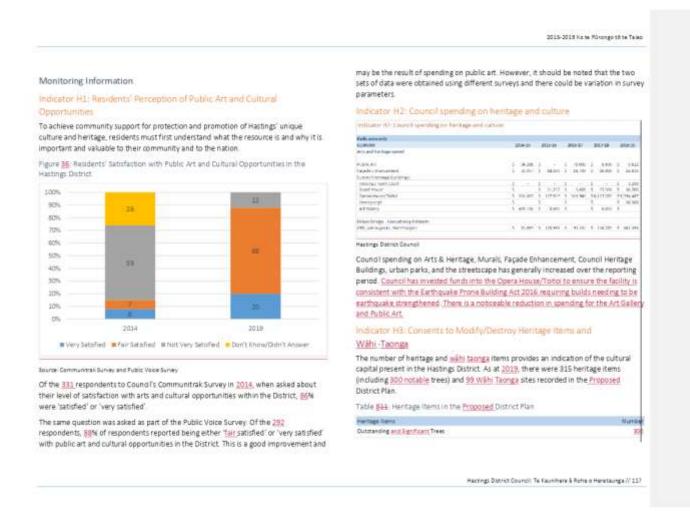
These indicators are also used to inform other monitoring programmes for the District, such as Community Outcomes Monitoring and monitoring achievement of the anticipated outcomes in the Hastings District Plan, as shown below.

Harrings District Council: Te Kaunihere & Rohe o Heretaungs // 113









2015-2019 to te Püranga tá te Taleo Heritage Hems (HI-HET not consecutive lincluding approximately 76 tentage buildings) Heritage Buildings: Famore: (Te Mata Special Character Area) 94 Wilth Tachgaster (WC-W67 ret-consenting) 22 578 Modification or destruction of heritage items can impact on the cultural and historic heritage of the District. The number of resource consents to modify or destroy listed heritage items can therefore identify growing pressure on these sites, and gives a

general indication of pressure on cultural heritage

It should be noted that not all activities affecting heritage items are necessarily detrimental - resource consents are often required even where the activity is beneficial to the maintenance and protection of a heritage item.

The above results indicate that pressure on listed heritage items, outstanding trees and with taongs sites in the District is very low.

There have only been seven resource consents affecting these items over the reporting periods of 2015-2019: Of these buildings were altered externally or required internally strengthening. One with taonga application was received in 2019 to construct an open canopy. The proposal did not modify the wahi taonga but because the wahi taonga is attached to the site, consent is required.

Resource consents relating to heritage items between 2015 and 2019 involved:

- Aiterations to signage on heritage item in 2015 (H49).
- External alteration to heritage item in 2016
- Signage on a heritage building in 2016
- Earthquake strengthening works to opera house in 2017 (HB14).
- Earthquake strengthening the Havelock North Transformer House and Shelter
- . Fire safety works, decorative screen and glazer canopy for opera house and municipal building in 2019 (HB14 and HB13).

Resource consents relating to with toongs items between 2015 and 2019 included:

 Proposed construction of an open canopy at a wahi taonga site in 2019 (W13 wahi pakanga and Urupa)

Given the small number of resource consents relating to heritage and year taongs. items, it is difficult to drawn conclusive trends. However, it appears pressure on these items is low.

Indicator H4: Archaeological Sites and Authorities to Modify/Destroy Archaeological Sites

According to NZAA files, there are currently 1397 recorded archaeological sites in the Hastings District.

If should be noted that the file is only a record of those sites that have been surveyed and formally recorded. It does not reflect the total number of archaeological sites: present in the District - given that sites are generally only surveyed in response to development proposals or specific request, the vast majority of the District has not been subject to detailed archaeological survey

The Hentage New Zealand has received few applications for authorities to modify or destroy archaeological sites in the -period to the end of 2019. In total, 25 of the 31 authorities were granted between 2015-2019. The authorities had conditions imposed to minimise impacts on the archaeology present. Many of these authorities involved multiple archaeological sites, and some involved site modification as well as site destruction.

The relatively low number of authorities granted suggests there is little pressure on archaeological sites within the District. The small number authorities required as a result. of subdivision or development proposals is in stark contrast to the number of subdivisions that have occurred in the District over this period (there were 186 subdivisions between 2015and 2019 in the Plains & Rural Zones alone). However, it is possible that there are sites being modified or destroyed for which no data is available.

The constraints of the data mean that there is currently no good indicator for measuring the state or quality of archaeological resources in the District.

Commented [3749]: According to Mary O'Keels who maintains

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Ітем 6 PAGE 130

2015-2019 Kaite Pürongo tõite Teleo

Satisfaction with arts and cultural opportunities in the District is very high and, along with the number of heritage items listed in the District Flan, this suggests that the cultural heritage of the District is presently well appreciated

Pressure on historic and cultural heritage in Hastings District appears very low, with very little activity affecting items listed and protected in the District Plan between 2004 and 2014

Applications for authorities to modify or destroy archaeological sites have similarly been very low in number, although little can be drawn from this in terms of presenting an accurate picture of the health of historic heritage in the Hastings District as many sites are either unrecorded or may be being modified without formal approval.

The indicators do not measure the quality or health of the various heritage resources in the District. An accurate picture of the state of historic and cultural heritage in the District is therefore difficult to assess at this stage.



For Community

- Alert Council or the NZAA when potential archaeological sites are uncovered.
- Find out about the stories that relate to major heritage sites, and get to know the history of your District and local area
- · Treasure the memories of kaumatus and elders in our community.

For Council

- Continue to survey residents' satisfaction with access to arts and cultural opportunities
- Continue to initiate programmes to raise community awareness of and support for the cultural hantage of the District
- Ensure effects on archaeology are assessed in the processing of subdivision applications.



Photo: Municipal Theatre, Hastings Source: Hastings District Council

Commented [3750]: could be improved

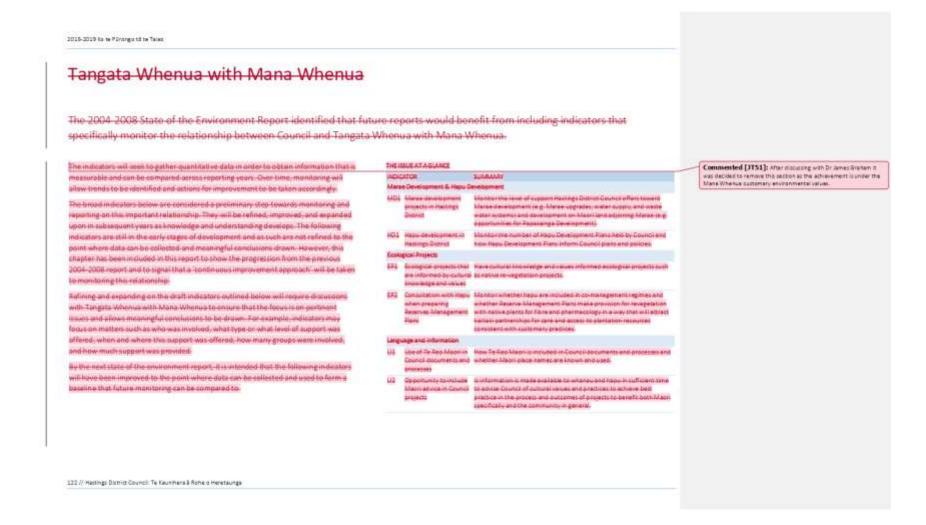
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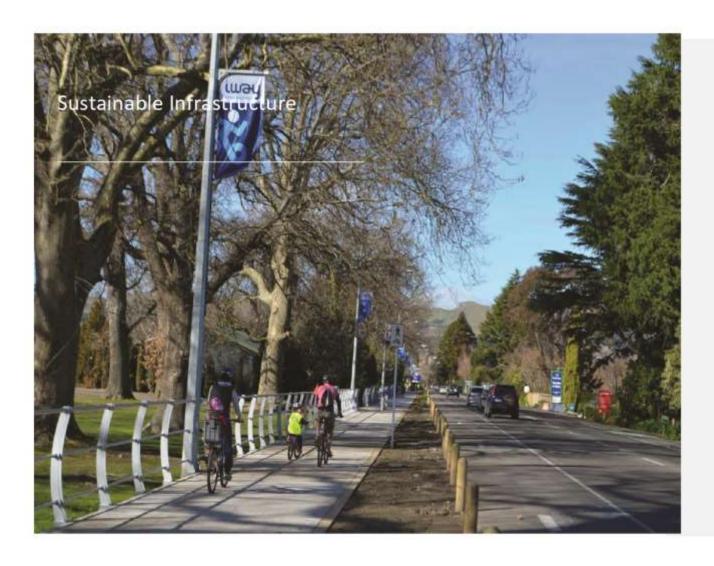
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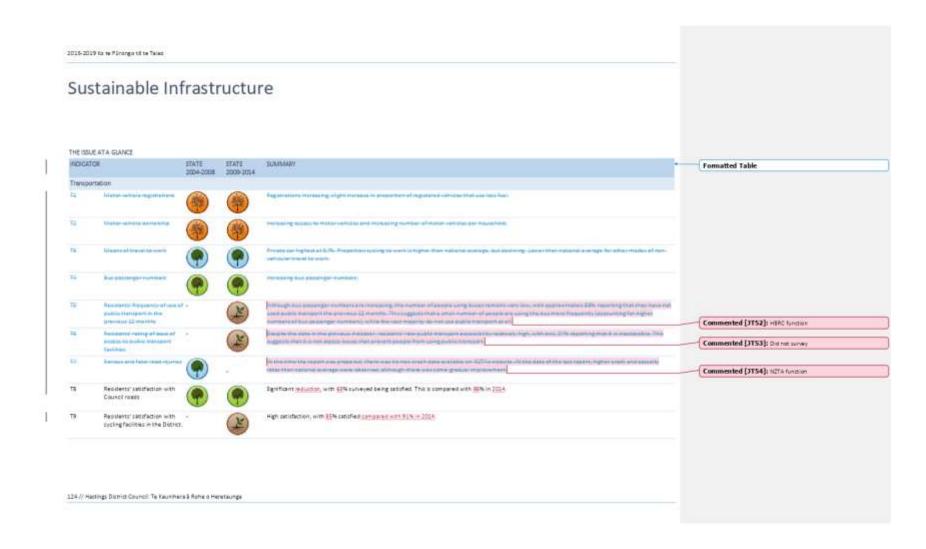
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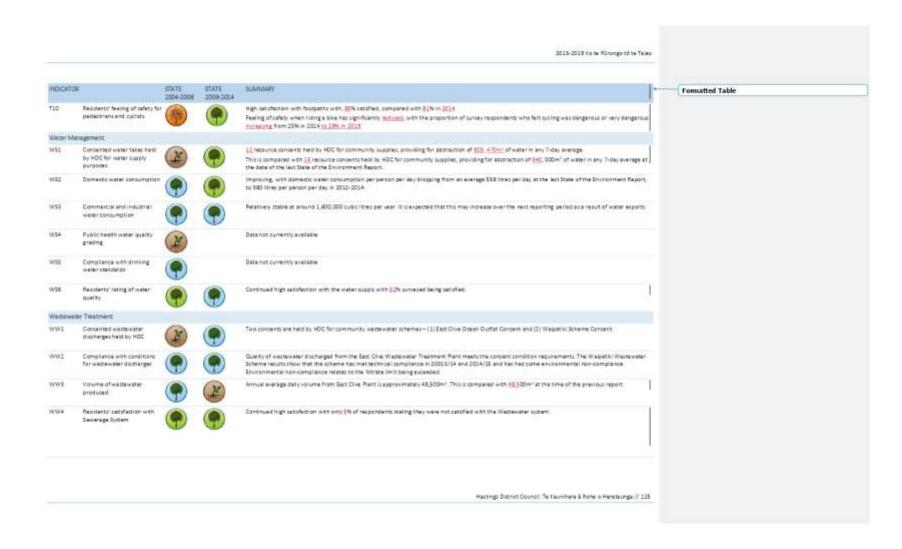
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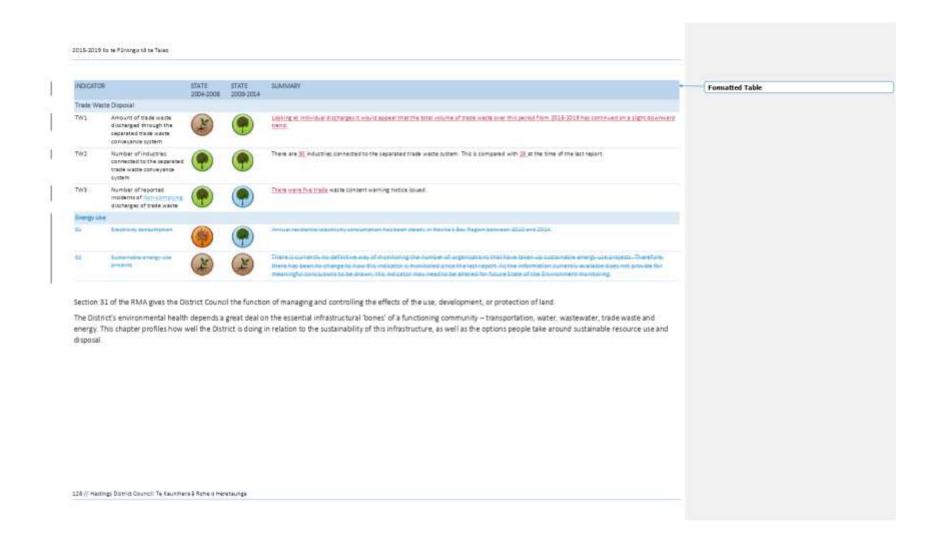












2015-2019 Kaite Pürongo tõite Teleo

Transportation

Transportation networks are critical in the daily functioning of the District. As a community the Hastings District is highly dependent on the mobility of its population, and particularly dependent on a well-designed roading network as its primary means of physical communication.

The District is a major producer of primary produce and manufactured goods and linkages to both domestic and international markets are crucial in maintaining a healthy economic sector²⁵.

The continued high dependence on motor vehicles also has a negative impact on the environment and communities—human cost in terms of crashes and fatalities, effect on air quality due to vehicle emissions, demand on existing road networks and pressure to develop new roads, and continued reliance on finite fossil fuel resources, hence the growing importance of public transportation networks and provision for non-motorised forms of transport, such as cycling and walking.

The transport system links people and apportunities.

The vision for transport in Hastings is to connect people and places, products and markets. This will be achieved by providing a safe road network that gets people and goods where they want to go, however they choose or need to get there. This needs to be achieved in a sustainable and resilient manner for an affordable whole of life cost.

The key challenges facing our transport system are

- · We have ageing assets that will need renewal.
- Growth in traffic loading is putting pressure on the capability of the network.

- Increased industry productivity and changes in land-use are resulting in unreliable travel time and safety of the network.
- Lack of resilience in the roading network can isolate communities and industry
- Road safety risks across the network results in death and serious injury.
- Low levels of walking and cycling.

The overarching goals for the Hastings transport system are:

- A range of transport options move people safely and efficiently.
- More people walking and cycling more often.
- Maintaining a resilient, accessible and safe network that is capable of meeting user demands.

The Hastings Transport Network Business Case 2020 Identified three key issues.

- Increased industry productivity and changes in land-use is resulting the transport system not meeting the needs of users.
- Poor user behaviour and transport system deficiencies increases the risk of death and serious injuries.
- Foor uptake of active travel and public transport is negatively impecting on community wellbeing

Section 2.8 & of the Operative Hactings district Plan.

Hassings District Council: Te Kaunihere & Rohe o Heretaungs // 127

2015-2019 to te Püranga tá te Taleo

To address these issues a balanced programme was proposed with a bias towards community wellbeing and road safety. This programme aims to

- Improve road safety.
- Improve customer experience.
- Increase community wellbeing.
- Increase uptake of active travel and PT.

The Hostings Active Transport Business Case 2020 signalled that gaps in levels in service and the perception that walking and cycling is unsafe and inconvenient is limiting their uptake, resulting in high car dependency. It proposes a balanced work programme with a mix of infrastructure projects and low cost / high impact soft measures. There is also a focus on travel behaviour and demand management. The two objectives of this programme are to

- Increase the use of active transport.
- Improve the perception of active transport as safe and convenient.
- The Regional Land Transport Strategy 2008-2018²⁸ (as required by the Land Transport Management Act 2003) sets out the strategic direction for land transport in the Hawke's Bay region. Key actions for the Hawke's Bay Region are in the areas of:
- . Travel Demand Management.
- Roading improvements:
- · Improved Land Transport Planning and Design,
- improved Communication And integration;

- · Rail improvements; and
- Facilitation of Alternatives to Private Passenger Transport.

It is noted that this Strategy has been replaced by the Regional Land Transport Flan (RLTP) 2015-2025. However, the RLTP 2015-2025 is outside of the reporting period and will not be referred to further in this document. Some transport indicators used in this report may need to be altered or replaced for the next report in order to track whether or not the outcomes of the RLTR 3015-2025 are being achieved.

The Heretaunga Plains Transportation Study²⁷ is a key strategic document for the District, and outlines how improvements are to be made to the roading network.

In addition, Hastings District Council operates Cycling and Walking Strategies, in response to the National Walking and Cycling Strategy²⁸.

The Hastings Cycling Strategy Seeks-to-

- . Provide for the safe and efficient movement of cyclets to, from and between all areas in the District.
- Improve access to, from and within the District by broycle;
- · Promote and increase cycling as a viable mode of transport
- Achieve a coordinated and integrated approach to cycling in the transport system. and
- Encourage cycling and the use of facilities throughout the community.

The Hastings Walking Strategy⁵⁰ seeks to:

- · Encourage walking in the district.
- Connect parks, reserves, and points of interest;
- moorporate existing walking tracks:
- incorporate shared use of the cycle paths enabled by the Cycle Strategy; and

- * He wild a thir Applical cand Transport Strawyy 2008-2012 2008, Havin Likey Regional Caural * Heretoveys Name Transportation (Study - 2004) (and Having all by regions and ferritorial authorities and Transference Deplete
- * same tree or fact to use things environment in the cook cook, side, seeingly of transport & and transport
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Ітем 6 **PAGE 140**

2015-2018 Haite Pürongo tõite Teleo

Enhance safety for piedestrians.

Hawke's Bay Regional Council has also developed a Regional Passenger Transport Plan[®]I. The purpose of this Passenger Transport Plan is to provide guidance for the Regional Council in the provision of public passenger transport services, by cutlining the passenger transport needs of the region, the Council's objectives and policies to address those needs, and the services required to meet them.

The three strategies outlined above have not been updated since the last State of the Environment Report. Therefore, the outcomes remain relevant to this report.

Indicators

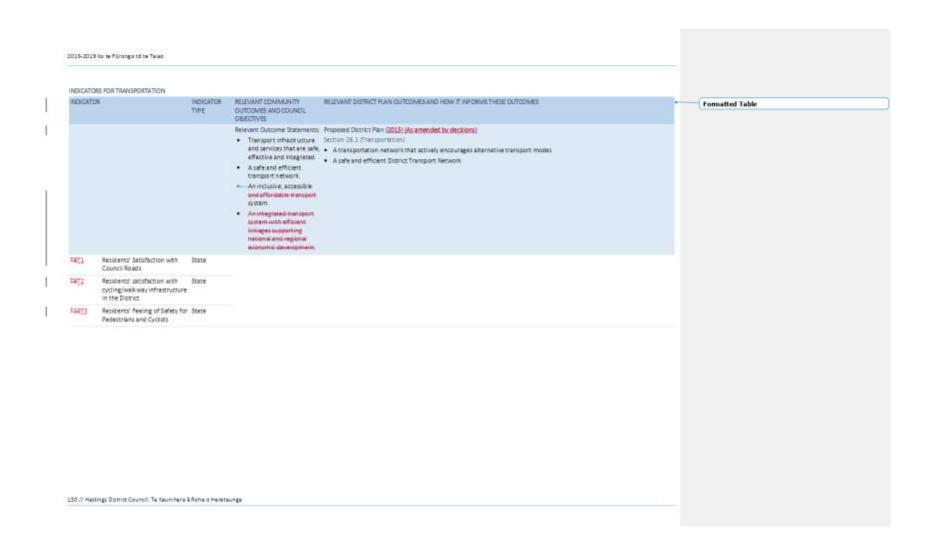
The table below shows the indicators that are used to monitor traffic and transport in the District. These indicators are also used to inform other monitoring programmes for the District, such as Community Outcomes Monitoring and monitoring achievement of the anticipated outcomes in the Hastings District Plan, as shown below.

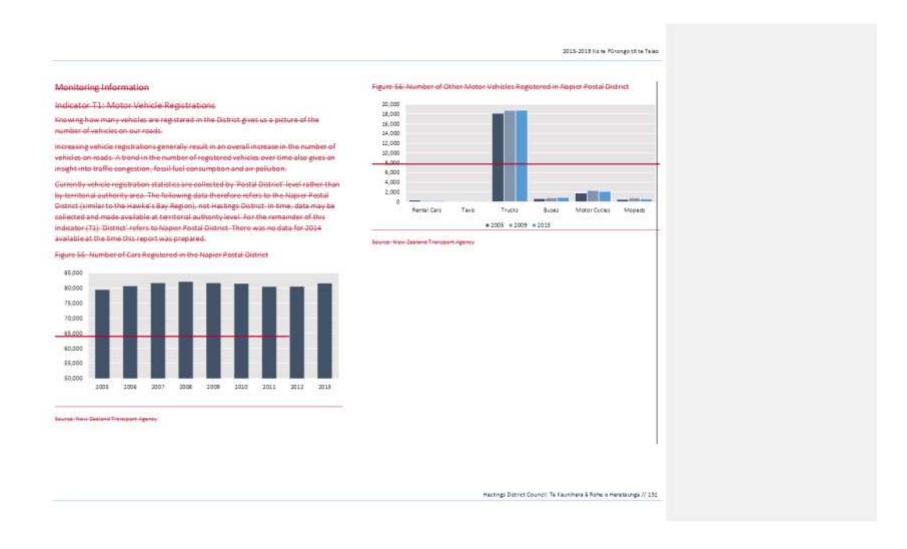


Photo: Cars on Heretaunga Street, Hastings – earls mid 1960's Source: Hastings District Council

* Appendic Acc. Angional Assumption from part from 2008 2008 - COSA - House C Acc Ingrand - Council

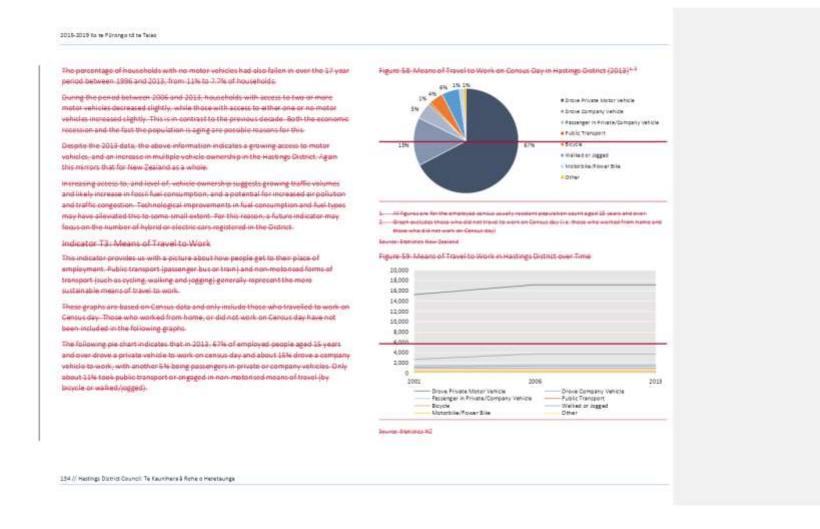
Hactings District Council; Te Kaunihere & Rohe & Heretaungs // 129

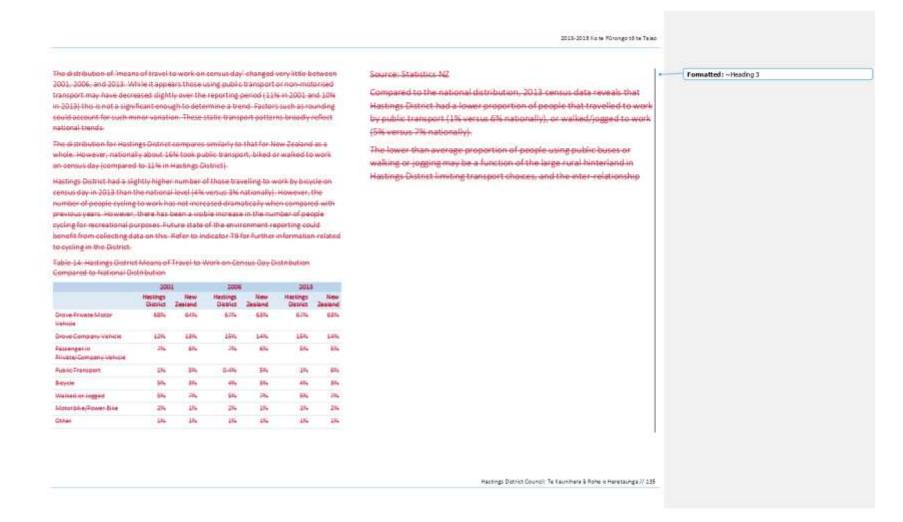




3015-2019 to te Pürongo tá te Talad Total registered vehicles rose 3.5% over the 9-year period from 2005-2013**. Car registrations increased by 2.67% (an additional 2.120 cars) over the 8-year period; truck registrations rose 3.5% (636 trucks); bus registrations ruse 39.87%% on 2005 numbers (250 buces), motorcycle registrations rose by 18 02% (222 motorcycles), and imped registrations rose by 12 88% (68 mopeds). However, it is interesting to note that the above trends are quite different when based on the 2009-2013 figures * The dispersion theirs - factory - everys variety are majorness; vehicle ja migriphess vehicle in registration (station video which is at design is not of a commonly defined which type og ideas exploring more inter-132 // Hastings District Council: Te Kaunihers & Rohe o Heretaunge

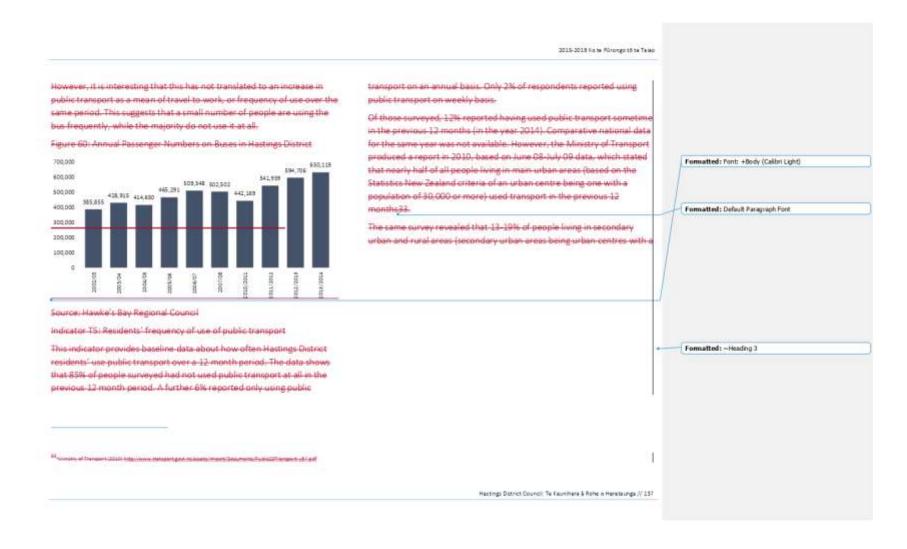
2015-2018 No te Pürongo tő te Talao Figure 57: Types of vehicles registered in the Napier Portal District (2005-2013) Indicator T2: Motor Vehicle Ownership Percentage Change in the Number of Whicles Registered 2005-2018 As for total reliable registrations, the number of motor vehicles per household is an indicator of traffic congestion fossil fuel consumption and air pollution CARS REMINLOARS TAXE TRUCKS BUSIN MOTORCYCLES MOVEDS TOTAL -3A4Th 20.07% S-50% SR-87% The following graph shows the distribution of motor vehicles per household for Hasting 2012 District in the 2013 census closely mirrors that for New Zealand as a whole-434K 1350K 036K 8.04K 0.18% Table 12: Access to Motor Velvoles in Hastings District and New Zealand (2018), 1018 Number of Motor Vehicles Hanney Denne die New Zeeland (Na Source: New Stational Transport Agency. 2,058 (7,7%) 136,979,17,59 Manageres Note: Draced calls indicate vehicle types with sgreficant change One 8.465 DS./HU \$52,511/35,6% The number of rortal cars registered in the District decreased over the 9-year period. I-o 9,758-D6.0Ng 365,095,086,496 but with a noticeable increase in the last 5-years. The number of rental cars registered 3, 812 (34 8%) 257,471115-35 was significantly higher in 2006 than in any other year and dropped fairly rapidly between 2005 and 2013, before beginning to increase again. Not execute recipitated 1457 (5.8%) 59,745 | 5.0% 1,454,570 36.691 The 2004-2008 State of the Environment Report noted a rapid increase in the number of registered motorcycles and mopeds during the years 2005-2008. A possible reason 2. At Figures are for households in private accuracy disklings. Assented and endlated 2 - In 1996-2005, this includes non-specified data and in 2005 has stated data. From 2006 has partie for this was high fuel costs. It general increase in the number of both can be observed properties and non-stated data is included over the S-year period. However, this increase occurred almost solely between years Source-Deprisons New Zealand 2005 and 2008 The table below shows how motor vehicle ownership in Hastings District has changed Though the number of registered motorcycles and mopeds in 2013 was still higher than between consecutive census periods from 1886 to 2013. in 2005, the last six years have seen the number of registered motorcycles and mopeds Table 13: Access to Motor Vehicles in Hastings District per Household (1996-2006) decline quite rapidly, despite fuel costs remaining high. It is possible the fluctuation in registered mopeds and motorcycles was due to changes requiring more of these types 2005 Number of Motor Vehicles 2001 of vehicles to be registered. 1,782 (7%) NO eccess 3,66011104 2,245 (984) 206813-292 9,310 (40%) 8,918 (87%) 8.847 (SEE 0.465(35.4%) Since 2005 all vehicle types, except rental cars, have grown in number. At the time of the 2004-2008 State of the Environment Report, both cars and trucks dropped slightly Tes 3,483 (82%) 44444890 0.323 (\$754) as a proportion of all registered vehicles in the District Joan commised 78,6% of all Livee-or-more 1,661 (12%) 3,544413316 4.043 (16%) 1372/14/8% registered vehicles in 2005 dropping to 77.8% in 2008; trucks dropped from comprising Not executere included 1,005 (5%) 1201 514 1,149 (5%) 3/18715-096 18% of all registered vehicles in 2005 to 17.1% in 2008). Trucks as a proportion of all 38.058 19,620 35,153 Lotw 26,688 registered vehicles in the District has remained relatively steady (17.8%) as of 2018, and Source: Statistics New Zasiand the proportion of cars increased slightly to 78.3%. This shows that use of private cars as a mode of transport has remained relatively stable over the two reporting periods-Around 40% of households in Hastings District had one motor vehicle in 1996, in 2001 this had fallen to 37% of households, and roughly 35% in 2006 and 2018. Hastings District Council: Te Kaunihere & Rohe a Heretaungs // 138

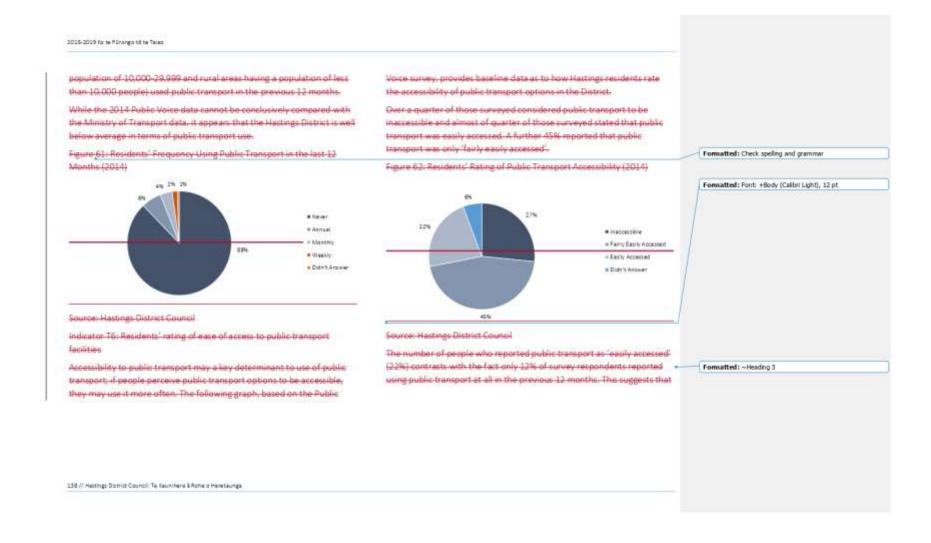




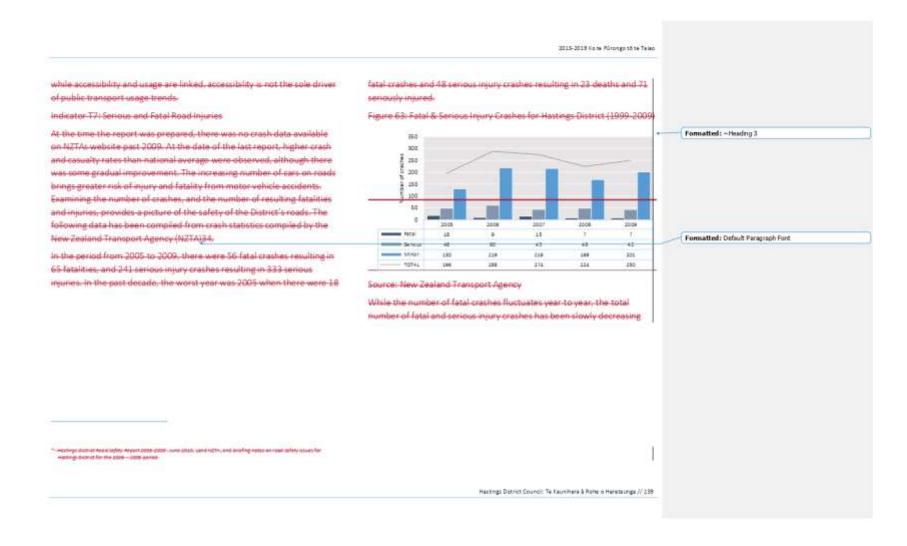
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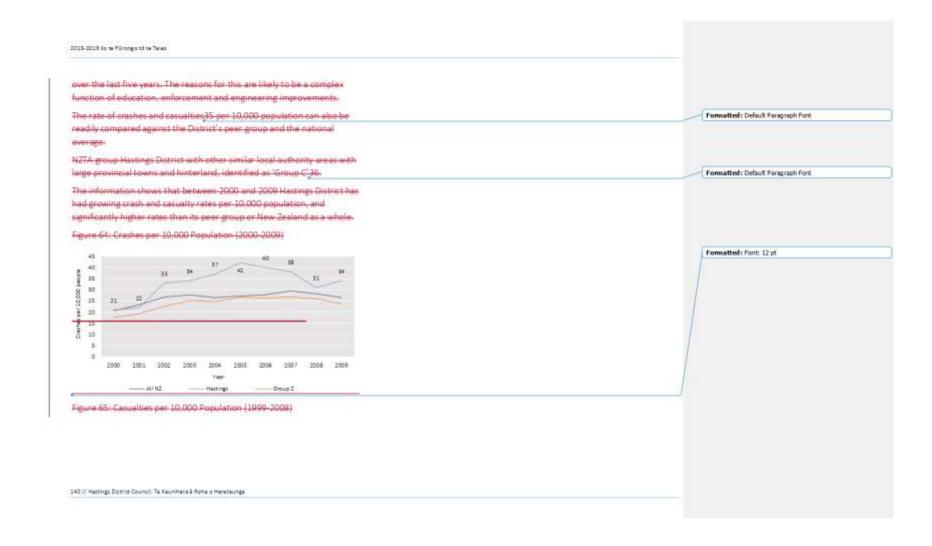




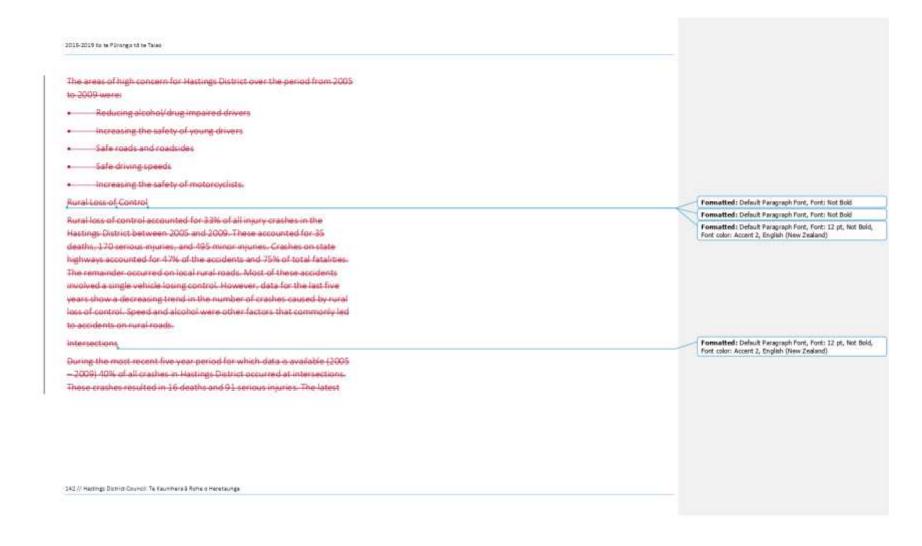


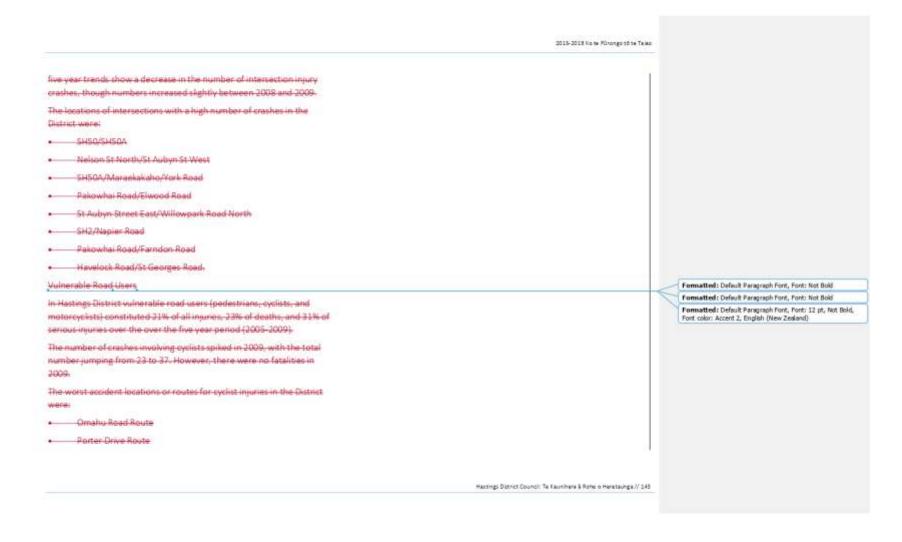
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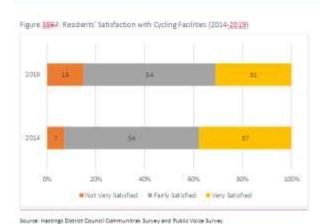








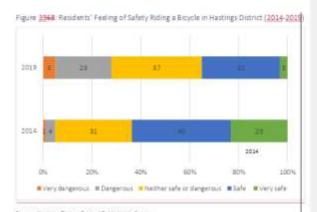




Indicator T3: Residents' Feeling of Safety for Pedestrians and Cyclists

Residents' feeling of safety as pedestrians and cyclists gives some insight into aspects that might be hindering the use of more sustainable modes of transport. In 2008, Council added two questions to its survey for the first time.

These related to satisfaction with the quality and safety of footpaths, and the feeling of safety while riding a bloycle in the District. These same questions were asked again in 2014



2015-2019 No te Pürongo tő te Teleo

Source: Harrings District Council Public Voice Survey

The following graph shows that in 2014, a quarter of the respondents to the survey felt safe, and only 23% felt 'very safe'. A further 31% felt it was neither safe nor dangerous significantly, 5% of respondents felt riding a bike in the District was dangerous.

in 2019, there was significant movement between those Sinding is very safe and dangerous to cycle. However 28% of respondents considered riding a bike dangerous or very dangerous. A further 27% stated riding a bike was neither safe nor dangerous. Only 35% of respondents considered riding a bike either safe or very safe. This contrasts with the fact that 69% of those surveyed indicated they were satisfied with cycling facilities in the District. This suggests that while residents are satisfied with existing cycling facilities, such as trails and paths, they do not feel safe when riding a bike in parts of the District where these facilities do not exist.

Hastings District Council: Te Kaunihere & Rohe o Heretaungs // 145



2015-2018 No te Pürongo tā te Teleo

Overall, the results for the State of the Environment in relation to Hastings' Fransportation infrastructure are mixed.

Residents' satisfaction with Council roads has decreased from the previous reporting period in 2014.

The baseline data from the 2019 survey shows relatively high levels of satisfaction with walking and cycling facilities, but almost a third of those surveyed do not feel that riding a bike is safe. Residents' satisfaction with the quality and safety of footpaths is reasonably high but there is still room for improvement.

Future surveys will enable some trend information to be identified over time in this respect and will help to uncover what is deterring people from using public and non-motorised forms of transport.

Responses

For Community

. Take opportunities to walk or cycle to work, school and neighbouring amenities.

For Counci

- Continue on-going publicity around healthy living and sustainable modes of transportation
- Encourage sustainable transport choices in new developments
- Continue to implement Hastings District Council's Walking and Cycling Strategies, including promoting walking and cycling to school and work.
- In future, Council will survey residents about re recreational cycling what deters them from using public transport or non-motorised transport options.

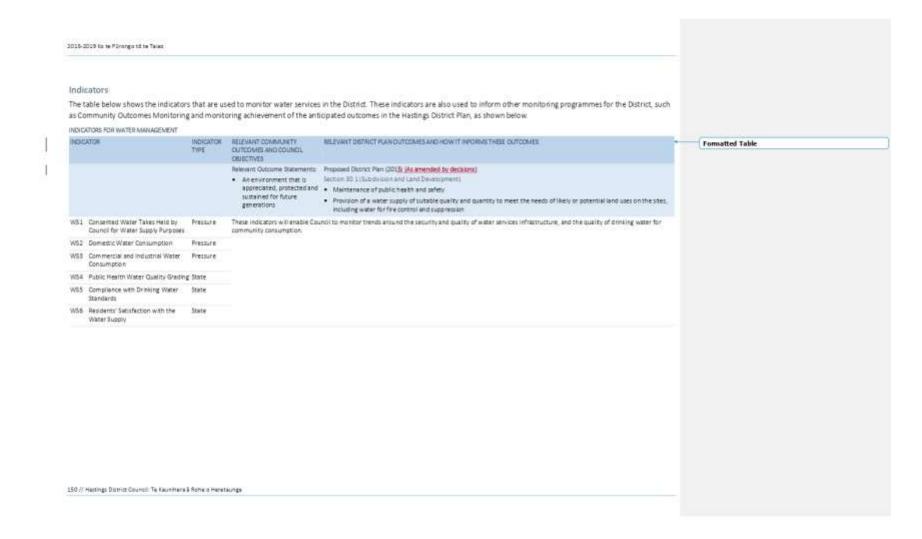
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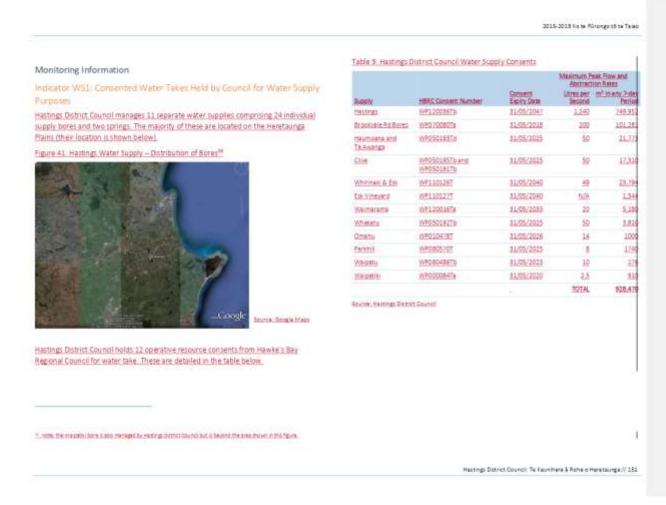


Hazzings District Council; Te Kaunthere & Rohe is Heretaungs // 547



2015-2019 Ko te Pürongo tő te Talao iin addition, there are a number of smaller, privately-managed water supplies throughout the District (managed by schools, marae, local communities etc). Hastings District Council: Te Kaunihera & Rohe o Heretaunga // 149





3015-2019 to te Pürongo tá te Talad

Indicator W52: Domestic Water Consumption

In Hawke's Bay, water consumption is highly seasonal – summer consumption can almost double winter consumption.

Demand in some supplies is also influenced by seasonal population growth, for example Walmarama, where the summer population growth sees a three-four fold increase in water use.

As a community water supplier, HDC has an important role in promoting efficient use and minimising waste. As a consent condition attached to many of our resource consents HDC has developed a Water Conservation and Demand Management Strategy outlining HDCs commitment to a range of measures that will achieve an efficient use of water and thereby minimise the effects of abstraction on surface and groundwater resources.

The Historigs Urban supply consents provide for a stepped increase in annual allocation during the term of the consent in order to provide for growth. Figure 2 below shows the ongoing tracking of use against consented take and growth.

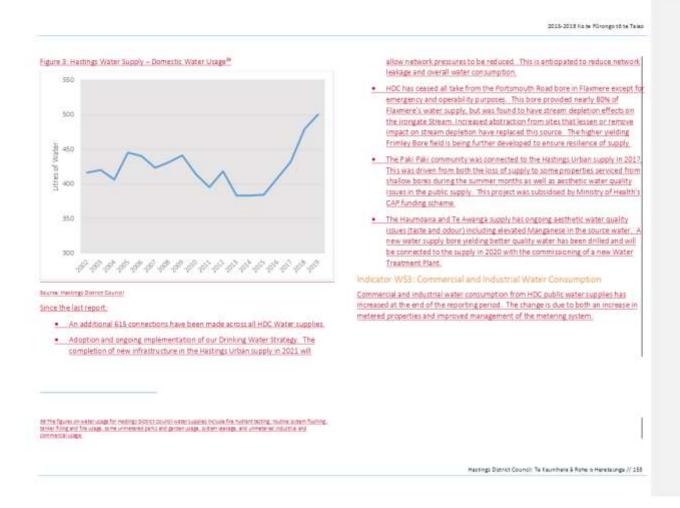


Source: Harrings Dietrict Council

As shown in Figure 3 below, since 2016 the averaged consumption per capita across all supplies has climbed following changes to supply operation including the introduction of chlorination to the supply networks.

Lesk repairs are now stabilising and proactive renewals programs continue to be enhanced.

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3015-2019 to te Plinango tá te Talac

Figure 4: Commercial and Industrial Water Consumption in Hastings District.



Source, Heatings District Country

It is important to note that these figures do not include many of the large industries such as Heinz Wattle's and McCain's who obtain their own processing water from private bores consented by the HBRC. Some industry have connections to Council supply to meet domestic needs, such as drinking water for staff.

Indicator WS4: Public Health Water Quality Grading

Currently there is no national requirement for supplies to be graded and since the Health (Drinking Water) Amendment Act of 2007, the emphasis has moved towards ensuring supplies meet the Drinking Water Standards and the requirements of the Act.

HDCs water supplies are currently ungraded.

Indicator WS5: Compliance with Drinking Water Standards

Histings District Council manages 11 Water Supplies, comprising 16 abstraction sources, 15 treatment plants and 17 distribution zones. The remaining supplies in the district are privately owned and managed. All of the Hastings District Councils supplies are managed to comply with the requirements of the Health Act 1956, Health [Drinking Water] Amendment Act 2007 [HDWAA] and the Drinking Water Standards for New Zealand 2005 [Sevised 2018]

All HDC supplies over 500 population have an operative Water Safety Plan (WSP).

Safe drinking water is the Hastings District Council's highest priority. The extent of changes in the way Council is managing drinking water safety has been informed by the Board of Inquiry findings following the Havelock North contamination event which occurred in August 2016, and there is commitment at the highest level to achieve this.

These changes have occurred across the entire drinking water space from catchment to tap including.

- Chlorination of all drinking water supplies starting 2017
- Treatment upgrades
- New water treatment plants being installed which will comply with protozoa- and bacteriological criteria of the DWSNZ [2018]
- Improving our understanding of source risks through the ongoing catchment risk assessment work and managing the risk through development of source protection zones (SPZs) and associated processes.
- Restructured business with additional skilled resources.
- New internal processes, standards and systems

New requirements for contractors

A significant emphasis on quality assurance

Complying with the DWSNZ requires a combination of freatment processes [UV, chlorination] and routine monitoring of the source, treatment plant and reticulation. All supplies compiled with the DWSNZ bacteriological requirement from 2016 to 2019. This is attributed by the implementation of chlorination throughout all the supplies as well as monitoring frequencies and test results as per DWSNZ requirements.

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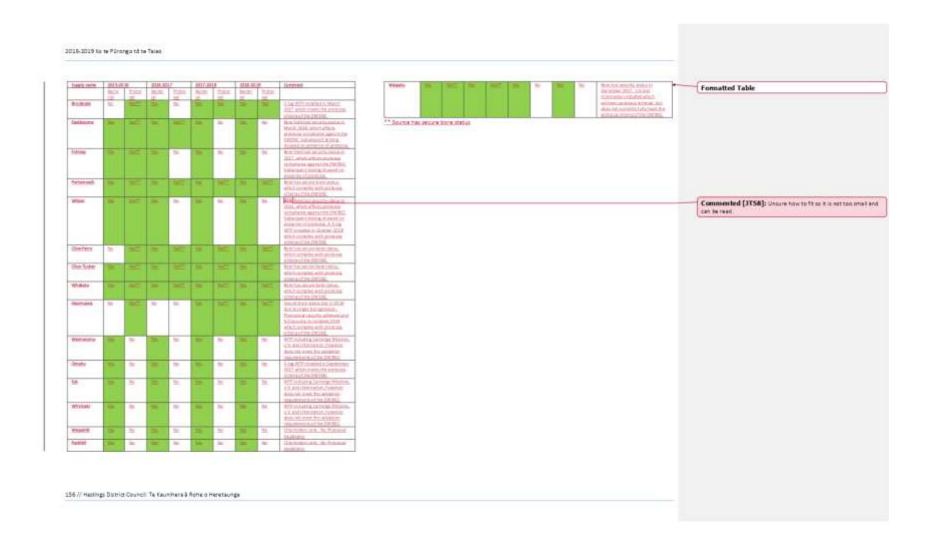
Protozoa compliance has not been achieved for some of the HDC supplies due to the current WTP not being validated against the DWSNZ criteria, or due to the bore losing security status after previously being classified as secure meaning treatment processes are now required.

A significant program with funding committed in the LTP will see new source development, network modifications and Water Treatment Plants and reservoirs statisfied to ensure all supplies are capable of meeting the compliance requirements of the DWSNZ by the end of 2021.

The below table summarises the compliance status of the HDC supplies from compliance years July 2015 to June 2019

Hactings District Councit, Te Kaunihera & Rohe à Heretaunge // 155

2015-2018 No te Pürongo tā te Teleo



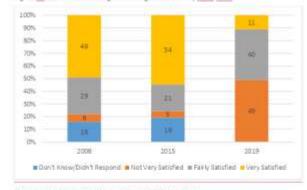
2015-2018 Ko te Pürongo tõ te Teleo

Indicator WS6: Residents' Satisfaction with the Water Supply

Resident's satisfaction with their water supply gives some insight into the state of water for domestic supply. Approximately 75% of residents were provided with piped water supply in 2019, down from 79% in 2008.

The following graph shows there has been little change in level of satisfaction since between 2008-2015, with those "fairly" or 'very satisfied' remaining stable at between 28% and 75% in comparison to the 2019 results, almost half of those surveyed were not very satisfied with the water quality. A possible reason is the chlorination of the district water supply to ensure safe drinking water.

Figure 4374 Residents Rating of Drinking Water Quality 2008-2019



Source: Hactings District Council Communities, and Fublic Voice Survey

Hastings is very fortunate to have this valuable water resource in the aquifer system beneath us that supports our communities, however, this should not be taken for granted. The Council sources its water from 24 individual hores as well as two soning sources in the Walmarama area. These sources support 11 community water supplies across the district comprising of 16 water treatment plants and 17 distribution zones. Water is distributed to the homes and businesses in the communities through over 500km of water mains and over 21,000 connections. Pump stations and reservoirs are installed at key points in the network to ensure adequate supply is maintained throughout the day.

Responses

For Community

 By taking a few simple steps to reduce your water usage now, you can help ensure future generations enjoy the same access to good quality water, such as turning off the tap, fixing leaks, and using water saving devices on showers, washing machines and toilets.

For Counci

- Demand management, and water conservation measures are a strong focus for Council into the future, indusing a public education campaign, an active leak detection program, and implementation of zone management and pressure reduction across the main supplies (Hastings, Havelock North and Flaimere)
- Council will continue to work towards improving and maintaining the quality of drinking water through the proposed planned upgrades to water supply infrastructure.

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Hastings District Council: Te Kaunihere & Rohe o Heretaungs // 157

3015-2019 to te Püranga tá te Taleo

Wastewater Treatment

Wastewater is the term used to describe a combination of domestic sewage (from showers, baths, toilets and kitchens) and trade wastes (liquid wastes produced by many industrial and commercial processes).

The provision of a wastewater system (sewerage scheme) is fundamentally important in terms of ensuring public and environmental health and well-being. The Wastewater System collects, treats and manages wastewater disposal from homes, work places, businesses and industries in urbant areas. The HDC Wastewater System's ability to accept industrial wastewater (trade waste) is critical for the social and economic well-being of the District and Region.

Without wastewater schemes, there would be significant environmental and human health issues, especially within rapid growing and populated urban areas. In today's modern urban environment, wastewater schemes are developed in conjunction with the statutory processes of the RIMA to ensure that adverse environmental effects are avoided, remedied or mitigated to an acceptable level.

The existing HDC Wastewater Scheme is made up of a network of pipes and pumps which collects the wastewater from Hastings, Havelock North, Flammere, Whakatu and Clive and conveys the wastewater to HDC's East Clive Wastewater Treatment Plant (WWTP) which after treatment discharges the combined wastewater streams from the two separate networks (as discussed below) through the 2,750m offshore ocean outfall into the marine receiving environment of Hawke's 8ay.

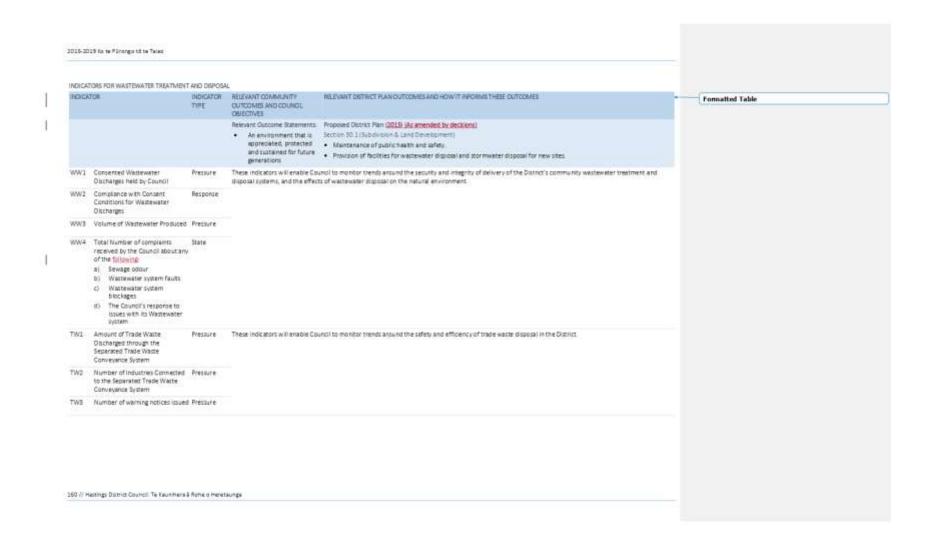
The wastewater network comprises two separate networks:

- A domestic and non-separable industrial wastewater system that primarily collects
 domestic wastewater and a small amount of trade waste from industries that are
 not able to connect to the separated industrial trade waste system. At the WWTP
 this wastewater is screened and treated in using Biological Tricking Filters (BTFs).
 The BTFs are used to grow bacteria which biologically treat the wastewater to the
 required standard.
- 2) A separated industrial wastewater system that collects industrial trade wastes. Trade wastes are treated on-site at individual industrial premises to comply with the Water Services Bylaw requirements, prior to discharge into the separated industrial wastewater system. At the WWTP the trade wastes are screened through a 1mm slotted screen prior to mixing with the treated domestic and non-separable wastewater stream.

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2015-2019 No te Pürongo tő te Teleo After passing through a grit removal unit the combined wastewater is then discharged through the offshore ocean outfall. There is also a small wastewater system in Waipatiki this was established in the mid-2000s in response to environmental concerns around water quality in the local catchment Households in rural areas outside the service area rely on on-site wastewater treatment systems to treat and dispose of household wastewater. Properly installed and maintained, this is a hygienic, economical and environmentally safe way of disposing of household wastewater Council has looked at the feasibility of community schemes for Warmarama and Te Awanga/Haumoana and, in both locations, a scheme is feasible at reasonable cost. However, at this time there are no environmental or public health imperatives that necessitate this investment. The Council's Engineering Code of Practice also stipulates the manner in which new Wastewater schemes should be designed as part of land use development. Commented (JTS9): Has there been any other shanges to the updated code? This section covers the Wastewater Services provided by the Council for the urban environment and certain communities around the District. Indicators The table below shows the indicators that are used to monitor wastewater treatment in the District. These indicators are also used to inform other Council performance. monitoring programmes. Hactings District Council: Te Kaunihere & Rohe a Heretaungs // 159

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2015-2018 His to Pürongo tö te Telao

Monitoring Information

Indicator WWI: Consented Wastewater Discharges Held by Counc

Hastings District Council holds two main resource consents granted by the Hawke's Bay Regional Council (HBRC) for the discharge of wastewater from community Wastewater schemes:

- East Clive Wastewater Treatment Plant the consent (CD130214W) is to discharge final combined wastewater into Hawke Bay at East Clive via the long offshore outfall
 - Consent granted on the 25th June 2014 with a consent expiry on 31 May 2049 (35 year term), and
 - . The consented maximum discharge rate is for 2800 litres per second,

The consent was granted following an extensive consenting process that involved technical, environmental and public health assessments, consultation with the community and livil and finally a public submission process.

The consent is for a 35 year term, with the requirement for nine yearly reviews. The reviews will consider system performance and technological advancement and will make recommendations about possible treatment improvements.

- Walpatki Washwater Scheme the consent (DP050397L) is for discharge of washewater to land
 - Granted in 2005 and will expire on 31 May 2025 (20 year term);
 - Maximum rate of application of effluent of Smm/m2/day; and
 - Maximum volume of discharge of 76m* per day [532m* over a 7 day period] during Stage 1, and 172m* per day [1204m* over a 7 day period] at completion of Stage 2.

The Waipatiki Wastewater Scheme has been designed to cater for the established properties within the Waipatiki coastal settlement, as well as the 29-lot subdivision granted in 2003. Approximately 90% of properties designed for connection to the scheme have been connected, with only half a dozen properties still electing to continue with on-site septic tanks. There is provision for a second stage development when either the 76th connection occurs or when the discharge volume reaches 76m3 per day, whichever occurs first.

ndicator WW2: Compliance with Consent Conditions for Westewate Discharges

East Clive Wastewater Treatment Plant

The annual compliance report for 15/16, 16/17, 17/18 has been generally been complying with conditions. A couple of minor con-compliance has been reported. The annual compliance report for 18/19 is still being processed.

Waipatiki Wastewater Scheme

The annual compliance reports for 15/16, 16/17, 17/18 has met technical compliance but not met environment compliance. For 17/18 the technical and environmental compliance was not met. Environmental not-compliance relates to the nitrate limit being exceeded. The annual compliance report for 18/19 is still being processed.

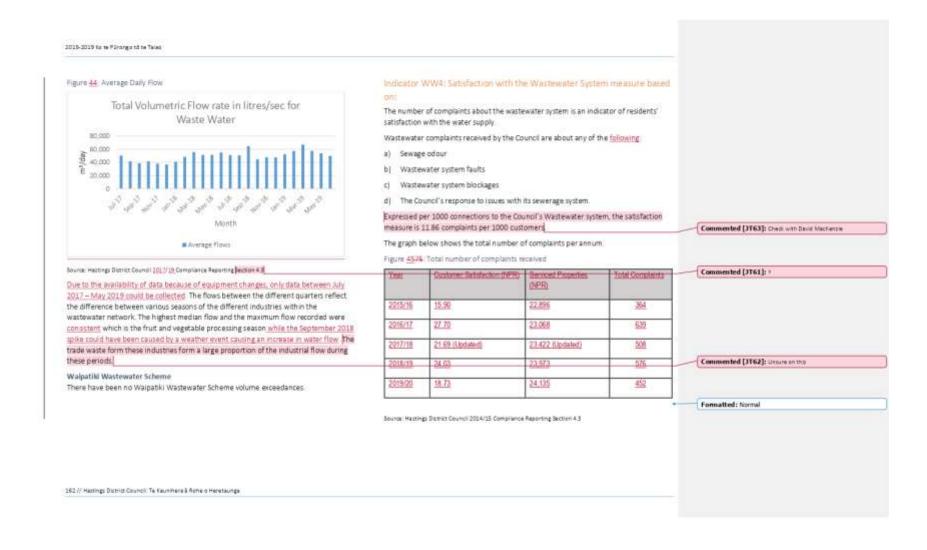
Indicator WW3: Volume of Wastewater Produced

Waste Water Treatment Plant East Clive

The following graph shows the average daily volume of wastewater based on the marine outfall pump station flow records from the East Clive Wastewater Treatment Plant included in the 2017/12 Compliance Reporting. This is baseline data and flow trends—against the new consent conditions framework will be developed over time.

Commented [3T60]: Completed by Simon Taylor. Appears to be so change.

Hazzings District Council: Te Kaunihere & Rohe & Heretaungs // 161







2015-2018 No te Púrongo tá te Teleo

Responses

For Community

- . Do not pour chemicals, paints or thinners (or the like) down any drain
- For the wider community, notify Council compliance staff if you observe unsafe trade waste disposal practices.
- For users of trade waste services, ensure compliance with trade waste guidelines so as to minimise the likelihood of <u>Nun-complying</u> discharges and resulting potential for adverse environmental effects.

For Council

- Continue to look at opportunities to make improvements to all wastewater infrastructure, and to service future growth
- Continue to monitor and manage trade waste discharges under the Water Services Bulaw
- Continue to carry out monitor sampling and reporting as required by resource consent conditions
- Look at new technologies to assist in meeting conditions of consent/permitted activity standards for trade waste
- Public education is being used effectively to improve compliance. The Council has
 good information on best practice and responsible methods for trade waste
 disposal. A 'guide' document is being prepared for the Council's website.
- . Encourage new industries to connect to the separated trade waste system.
- · Record discharge rates through the separated trade waste system
- Formally record any breaches of trade waste consent observed, including those
 that did not result in the issue of official non-compliance notices, to obtain a more
 complete picture of industrial trade waste disposal in the District.
- Continue to investigate new technologies that would assist industries to meet their conditions of consent or the permitted activity standards.

Hactings District Council; Te Kaunihere & Rohe o Heretaungs // 165

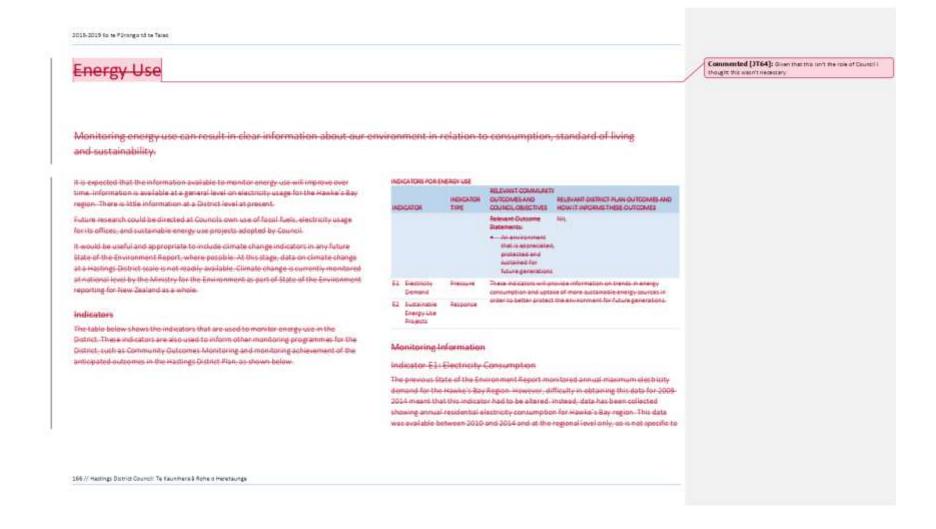
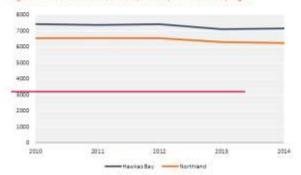




Figure 79: Annual Residential Electricity Consumption Hawke's Bay Region



Journal Electroity Market Information

Annual residential electricity consumption has been steady in Hawke's Bay Region between 2010 and 2014. It has been consistently higher than horthland, which has a smilar population, but it is difficult to drawn any meaningful condusions from this comparison due to the number of factors, such as climate, that influence electricity sensumption. Furthermore, the graph above does not take into account industrial and commercial electricity concumption. Future reporting would benefit from more complete data.

Indicator E2: Sustainable Energy Use Projects

Hawke's Bay Regional Council has a "Reatsmart' programme which assists residents with the cost of fitting exising and underfloor insolution and replacing non-complaint fires installing underfloor and certing insolation makes beating homes by energy efficient. At the and of the 2014/15 financial year, MBRC had provided insulation learn for 2, 155

homeo-in-addition to this, HBAC provided loans and grants to replace non-complaint fires with alternative heating sources. While a shift towards electric forms of heating, such as heat pumps, will likely drive up energy consumption, this is considered to be off set by the benefits to air quality.

2015-2018 No te Pürongo tő te Teleo

It is anecdotally evident that more public and corporate organisations are approaching their businesses from an energy efficiency and austainability perspective. However, there is currently no definitive way of monitoring this.

Residential electricity consumption for the Huwke's Bay region has been relatively steady between 2010 and 2014. Data at a district level is not surrently available.

Future reporting would benefit from more complete data and comparison with other similar regions, and New Zealand as a whole.

Future reporting would benefit from monitoring uptake of more sustainable/renewable forms of energy in the District.

Responses

For Community

- Reduce energy was tage through the prudent use of electricity at home and in the
 workplace. Turn surplus lights off, switch off appliances at the was, hang washing
 on the line to avoid use of ciothes driers.
- . When purchasing appliances, consider those with higher-energy-off-ciency ratings.

For Council

- Support education initiatives around reducing energy consumption
- Encourage uptake of energy efficiency measures outh as retro-fitting older homes with better insulation, and encouraging uptake of more sustainable forms of heating in the home
- Begin to monitor other types of sustainable energy use to build a picture for the District, such as the uptake of spiar power and wind generation
- Continue to report on Council's own energy consumption and progress towards energy efficiency.

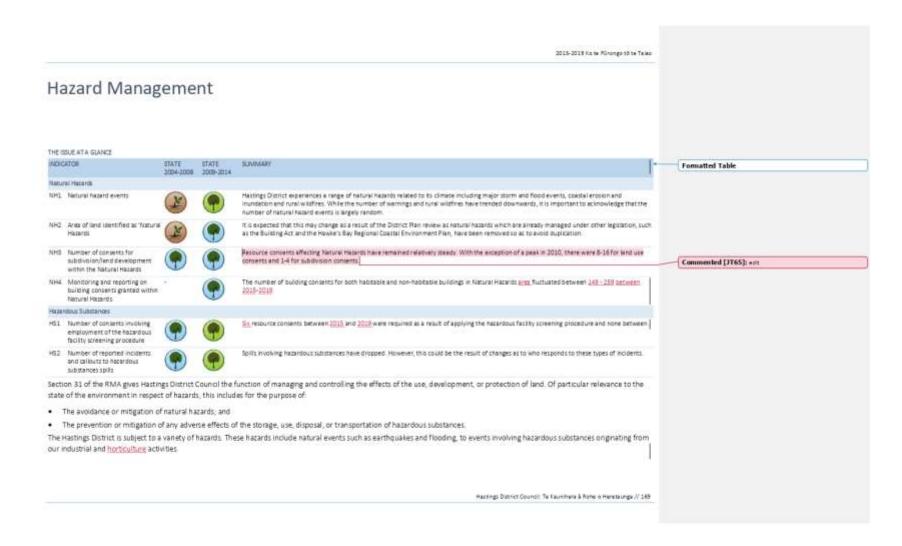
Harrings District Council: Te Kaunthere & Rohe a Heretaungs // 267

2015-2019 fo te Pürongo tá te Taiso

Hazard Management

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Ітем 6



3015-2019 to te Püranga tá te Talad

Natural Hazards

The Hastings District has the potential to suffer effects from several different natural hazard types. This includes earthquakes, coastal erosion, flooding, droughts, snow fall, volcanic activity and tsunamis.

Whilst natural hazard events are largely the result of natural processes and 'Acts of God', their impacts on the environment and severity are influenced by land use patterns, development and human activity.

The Hastings District Council aims to avoid hazards through District Plan provisions where appropriate, and the Building Act. This includes the avoidance of subdivision on land subject to natural hazards or potential natural hazards, and the avoidance of subdivision where it could accelerate or worsen the risk of natural hazards.

Indicators

The table below shows the indicators that are used to monitor natural hazards in the District. These indicators are also used to inform other monitoring programmes for the District, such as Community Outcomes Monitoring and monitoring achievement of the anticipated outcomes in the Hastings District Plan, as shown below.

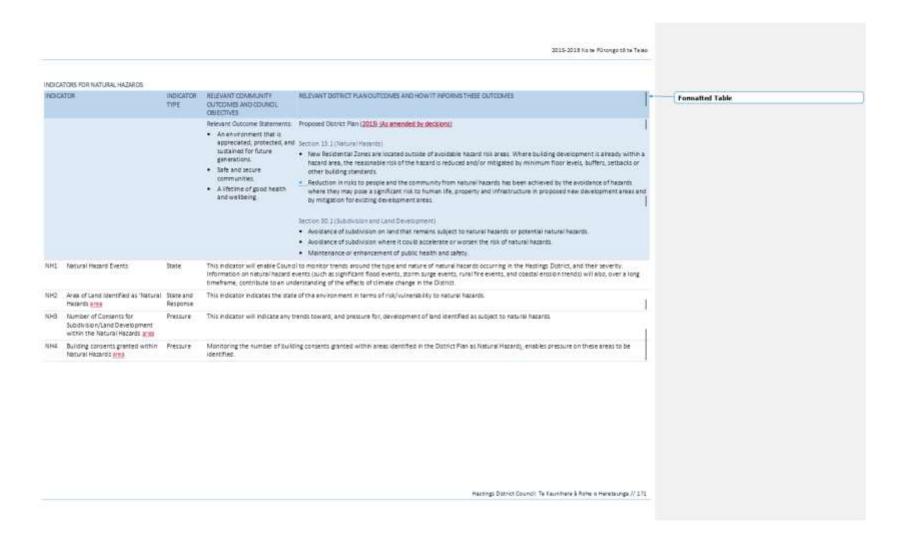


Poots: The Herstaungs Plants in flood (n. 1855). Breaches of the Blootsening system were common in the 1930's start to the ground upoff any settlement effects of the IRIS commons and indicated over channel capacity, and the severe ground shaking which weakened the stopbank structure in places Source: Halve's Sey Registral Council.

Commented [3766]: Major region with the flooding event in Airce

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3015-2019 to te Pürongo tá te Talad Monitoring Information Major Storm and Flood Events Hawke's Bay is often affected by flooding - on average, a severe storm or flood happens every 10 years. The following indicator provides a snapshot of recent natural hazard events related to When floods threaten communities they become a hazard. In Hawke's Bay, stopbanks weather and climate that have impacted on communities (such as major storm and have been built alongside many of the rivers to hold in the extra flood water. flood events, coastal erosion and inundation events, and rural wildfires). Figure 4880: Civil Defence Warnings EDC Activations Regional Warning System: Number of Warnings/watches/alerts Number 160 140 120 100 80 60 40 2015/16 2016/17 2017/16 2014/15 2018/19 Year Photo: Ngaruroro River in Fisco, Walteng Railway Bridge - August 2009 Source: Hewke's Ray Regional Council Source: Hastings District Council Commented [JT67]: Vacious with recent event The table below shows the numerous major storms resulting in severe flooding in Whilst natural hazard events are not related to human activity, they do contribute to an Hawke's Bay since 1867 understanding of how the presence of people and associated development can exacerbate their effects on people, property and the natural environment. Ongoing recording of such natural hazard events may also, in the future; contribute to an understanding of the effects of climate change on the District over time (temperature, rainfall and weather patterns, sea level rise). 172 // Hastings District Council: Te Kaunihers & Rohe o Heretaunge

2015-2019 No te Pürongo tő te Teleo

able 10a6	Major Storm and Flooding Events Recorded in Hawke's Bay (to 2019)	year	Citte	Event
mr Date	Event	1997 2-5 Am	Warros District declared a Civil Defence Emergency at 1900, terminated at 2300 next day. About 186 people evacuated at Nuhaka after flooding and power failure associated with storm.	
867 25 M 4 Jun	 A large flood in Hawke's Bay, which according to the local Maori, there was no flood to compare with it in the previous forty years, Rainfall in Napier was 380 mm in four 	2001 9 Dec		
4300	days. The Tuctust, Ngaruroro and Tutaeturi all overflowed their banks at several locations, causing extensive flooding.		9 Dec	A chain of thunderstorms formed up the eastern coast of New Zealand, which resulted in down pours in Hawke's Say, in Napier and Hastings, 50mm of rain fell in the hour before noon – close to the average for the entire month, it caused million
895 4 Dec	Heavyrain raude flooding in the Walpawa River, with the highest levels ever known. The Tutaekuri and Ngaruroro Rivers broke their banks, resulting in widespread damage.		of dollars of damage from water and surface flooding and damaging some roofs as shop stock, it was cited as a 1/100-year rainfall event for Napier and Hazzings city areas.	
897 17 Ap	356 mm of ner fell in Nepier over four days. The Ngarutoro River broke its banks betieven Roy's Hill and Fershill and menaced Hastings. It also broke its banks south of Roy's Hill and flowed dring a very old course. The Tatabeluri River forcier its banks and joined with floodwaters from the Ngarutoro River to flood Citive and Napier.	2002 10 Jan	An electrical storm formed near Walpulurau in the evening, traveled north and resulted in 77mm of rain in 90 minutes in Hastings and 70mm in Napier. The storm turned streets into rivers, damaged footpaths and properties, caused power cuts and flooded shops as stormwater systems were unable to cope with the accord.	
917 13.Ju	Flooding estimated to be bigger than that of 1397 and nearly as bad as the 1867 flood, caused widespread damage in Napier 187mm fell in 36 hours. At Morere, 522mm fell in four days, of which 350mm fell in 24 hours.	2004 15 Feb	15 Feb	1/100 year downpour in a month. Southern Hawke's Bay was hit with southerly winds and heavy rain. In 14 hours starting from around hoon on Sunday, 15,226.5 mm fell at Sheg Rock, and 197 mm.
924 11-12	Mar Rainfall at Rusington was 510mm in 10 hours with 230mm falling in 2.75 hours. At Eskitale, 419mm was recorded in nine hours.		fell at Wallingford. The Tukituki River reached a 5-year level. Surface flooding occurred in Otane, Walpawa, Walpukurau, and Takapau. Porangahau area was	
938 1 feb	A cyclonic storm resulted in extensive flooding throughout Hawke's Bay. In Napier 101mm fell in 14 hours.			worst hit, with roads, the cemetery, businesses and houses flooded, and around 6 families evacuated.
938 23-29	Apr Esk Veley Floods Severe flooding was widespread after three days of heavy rain, with exceptional fall in some areas. In three days, 510mm fell at Tutra, and a staggering 1,000mm at Pukstitle justs 590mm in one day).	2004 18 Oct	A thurderstorm dumped several day," worth of rain on Napire in just a few hours described as a 'rainbomb' producing a 1/50 year event - the rain quickly filled up drains, and then roads. However, the rain was so intense tup to 180mm of rain recorded in a few hours in the epi-centre of Tamatea/Greenmeadows) the water then also flooded numerous properties, with 8 homes being flooded and firms in the Onebawa industrial area estimating losses in the millions.	
941 4 Ma	in 24 hours, and the Porangahau River rose 34 3m above normal causing extensive			
948 13-14	flooding May In the War oa River catchment 307mm fell in three days at Grepoto, and 260mm at Tuel in the same period. The War oa River rose to a record height and flooded	2007 17 Jul	17 Jul	Several houses in Maraekakaho were evacuated. Army unimage evacuated 200 students and staff marooned at Pukesaurgong's School. Maraekakaho residents called a the worst flooding in 50 years.
	buildings in the Walros township.	2009 5 Oct	5 Oct	Heavy snow fell on the Napier Taupo Road closing the road and trapping over 100 people. The local 4WD Club and NZ Defence assisted police to ferry people to sefety.
1953 - 27-28 Avn	Exceptionally heavy rainfall over the Wanstead, Eisthorpe and Manaetotara area, in the Mangarouti Valley 349mm was registered in 34 nours, with the bulk of the fall occurring over six hours.			
974 1534		2011 27 Apr	27 Apr	Coestal flooding event affecting Haumoana, Te Awanga, Clifton and Walmarama when a local rain event flooded properties and closed roads.
980 28 De			9 people at Warnarama and the Te Awanga Motor Camp were evacuated and 6 homes were flooded.	
988 7-10	Cyclone Bolla was the most significant event in New Zealand since Cyclone Alloon in the South Made in 1975. Bolla dauted conscienable damage in the Globome and Walroa sistricts. The highest sousi rainfall for the three day period was 635 mm recorded at Pulsecraps.	2012		Snow and Sood every Plagner/Taupo mad closed along with Taihape — Napier (Gentle Ahnie Spati).
		2218	Mar	Esk liver Floods and severe weather in June closing Napler-Taypo road after heavy rain caused slot and flooding.

Hactings District Council; Te Kaunihers & Rohe & Heretaungs // 175

2015-2019 fo te Pürongo tõ te Talao

Source: Hawke's Bay Civil Defence Emergency Management Group website and Hastings District Council Barrents

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2015-2019 No te Púrongo tá te Taiso

Coastal Erosion and Inundation

Coastal erosion is the removal of material at the coast causing the shoreline to retreat landward. The processes include not only the work of the sea, but also that of the wind, migrating river mouths and tidal inlets, coastal landslides and tectonics. Coastal erosion can also be caused, or exacerbated, by man-made structures placed in the coastal environment, which interfere with natural coastal processes.

Coastal inundation is the flooding of low-lying coastal areas by seawater. This occurs when storm surges or heavy swells, often coinciding with high tides, overtop beach crests. Beach front properties can also suffer from direct wave attack causing damage and localised flooding. Low-lying areas, which experience coastal erosion, can also be at greater risk of coastal inundation as natural barriers are weakened.

Erosion has been causing damage to property in the Hastings District since at least the 1850's. In particular, concern has grown at Clive, Waimarama, Haumoana and Te Awanga. The following table describes the two major coastal inundation events affecting Clive and Haumoana in recent history.

Table 1117: Major Coastal Inundation Events Recorded in the Hastings District (to 2019)

Yes	Date	Event				
297	4 Aug	Seawater flooded three hundred hectares of horticultural and urban land in East. Clive. To prevent a reoccurrence a sea exclusion bank was constructed in 1876-77 along the coastal area. However, the shoreline continued to recede and erosion was accelerated by the Hastings sewer outfall constructed in 1878-89 1982 erosion had substantially decreased the ponding area between the beach berm and the sea exclusion bank and it was twice overtooped by the sea. The long-term vulnerability of the erea was recognized and in 1985 a scheme was mittated to move the sea exclusion bank further inland.				
200	2 3 Apr	About 20 Haumiana residents had to wave their homes as the high seas threatened a down properties near the corner of East and Clifton Roads, with some properties receiving major structural damage. The rough seas destroyed fences, cracked doors and tosted up stones smashing windows.				
200	7 27 Jul	Previously damaged house lost in heavy owell at corner of Sast and Clifton Roads, Haumoana. The Marantalaho community was fooded in July 2007. A few houses were evacuated, while others were accessible only to residents.				
200	6 II feb	If feb Heavy swells of up to Gm, generated by the aftermath of cyclone Gene, pounded to coast and threatened beach front homes, with the wave level reaching homes opposite the Te Awangs Puls. Haumonto and Te Awangs homes sustained the mo- damage.				

308 Jul Three storms in a orie-week period occurred, resulting in the Cifton Motor Campliosing some of its and when established pohusukawa trees and 2m of coast were washed away when high cide came in.

2010 24 May High seas along Clifton shoreline undermined six to eight metres of land by the Marine Club and motor camp

2018 Cape Coast Amplified causing senous miuries to two tourist and issuiting in the closur of the coast walk to Cape Kidnappers.

Source: Hawke's Bay Civil Defence Emergency Management Group website



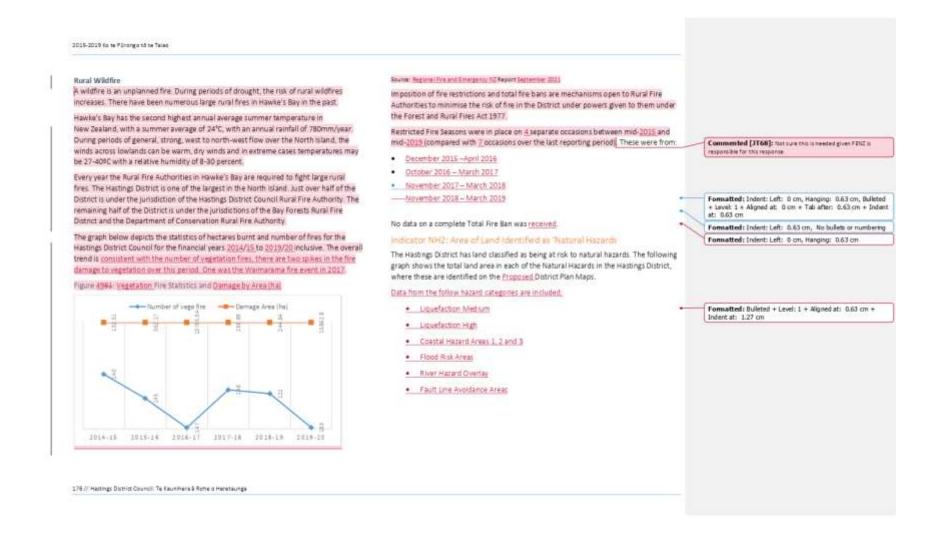
Fnoto: High seas at Heumisena - April 2002 Source: Hawke's Bay Civil Defence Emergency Management Broup

According to the 2014 report, the shoreline from Clive to Clifton has a net northerly drift of beach material resulting in significant coastal retreat. The long term shoreline retreat at Clifton Beach is on average 0.75m per year; Haumoana and Te Awanga 0.30m-0.70m per year; and Waimarama 0.13m per year.

With sea level rise predicted to accelerate over the next 100 years coastal erosion and inundation will continue to occur in Hawke's Bay, but the extent remains difficult to accurately predict. Extensive research has been carried out over the last 10 years resulting in an improved understanding of coastal processes acting along the Hawke's Bay coast. This has resulted in review of Hawke's Bay Regional Coastal Plan provisions, and has been updated in the review of the Haxtings District Plan.

Formatted Table

Hastings District Council; Te Kaunihere & Rohe a Heretaungs // 175







2015-2018 No te Pürongo tõ te Taiao Hastings District suffers from a range of natural hazards related to weather and climate (such as major storm and flood events, coastal erosion and inundation events, and rural Recording natural hazard events contributes to an understanding of how the presence of people and associated development can exacerbate the effects of such hazards on people, property and the natural environment. It may also, in the future, contribute to an understanding of the effects of climate change on the District over time Approximately 1.5% of the Hastings District's land area is currently identified on the District Plan Maps as subject to Natural Hazards RMU. Approximately 90% of that is identified as River or Flooding RMU. Therefore Natural Hazards RMUs cover a relatively small part of the District. Identification and refinement of hazard prone areas is ongoing. The number of resource consents within the Natural Hazards RMU generally rose over the period to 2008, peaking in 2007 at 44 (more than double the number for 2004), but has since dropped. inundation of the coastal areas of Clifton and Te Awanga continues to be a significant risk or threat. Hactings District Council; Te Kaunihere & Rohe & Heretaungs // 579

2015-2019 to te Püranga tá te Talad

Responses

For Community

- Consider the risk of natural hazard when purchasing a property or building a home a g. flooding, coastal hazard and land instability risks
- . Be aware of, and adhere to, fire restrictions when in force
- Have an emergency plan in place, and enough supplies to be able to support
 yourself in your home for at least 3 days in the event of a natural disaster.

For Counci

- Monitor building consents and resource consents in current Flooding areas and also HBRC flooding areas
- Carefully manage development in coastal hazard areas with a view to avoiding development in the most at risk areas
- Review the Natural Hazards areas on the District Plan Maps to reflect continued research and improved flood modelling by Hawke's Bay Regional Council, identification of coastal hazard zones¹⁰, and further areas of land instability risk as they become known.

In February 2004, condutants Tonkin and Taylor Limited prepared a report for Hawke's Bay Regional Council which assessed countal hospital noisy for the Hawke's Bay countile.

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2015-2018 No te Púrongo tá te Teleo

Hazardous Substances

The Hastings District has a strong horticulture, viticulture and agricultural industry, each involving the use of various hazardous substances including herbicides, pesticides, and associated activities such as cool stores.

These substances, if not handled correctly, pose a significant hazard to people and communities within the District, as well as to the natural environment.

Uncontrolled release of hazardous substances into the environment has the potential to result in:

- · Contamination of water, soil and air
- · Short and long term damage to ecosystems
- Accumulation of persistent substances in the bodies of humans and animals; resulting in chronic and/or long term damage to their health
- Acute damage to human health through exposure to substances affecting skin, mucous membranes, respiratory and digestive systems
- . Damage to the environment from fire or explosion events
- . Damage to human health and property from fire or explosion events.

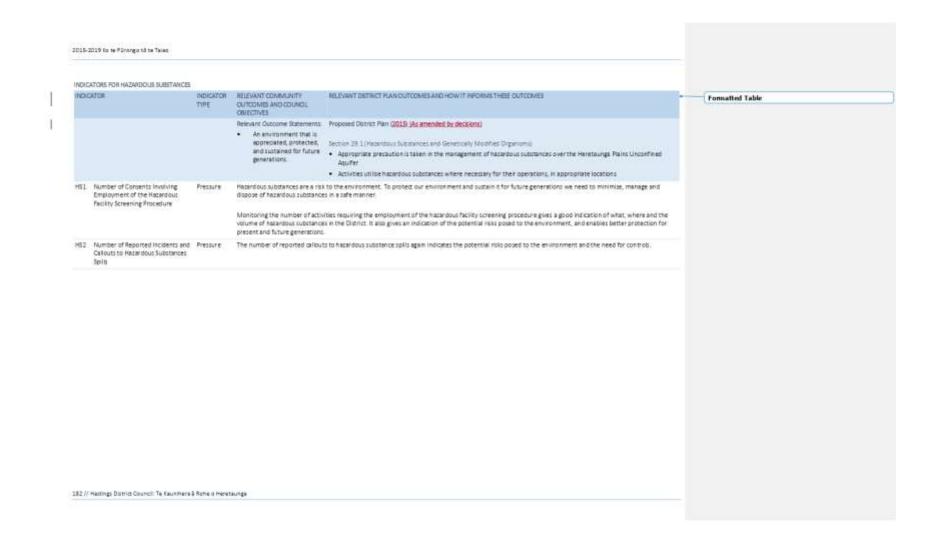
The potential for environmental damage from spills is of particular concern where hazardous substances are stored or used next to streams, lakes, aquifers and other sensitive areas.

Indicators

The table below shows the indicators that are used to monitor hazardous substances in the District. These indicators are also used to inform other monitoring programmes for the District, such as Community Outcomes Monitoring and monitoring achievement of the anticipated outcomes in the Hastings District Plan, as shown below.



Hastings District Council; Te Kaunihere & Rohe a Heretaungs // 181



2015-2018 Ke to Pürongo tõ te Teleo

Monitoring Information

Indicator HS1: Number of Resource Consents Involving Employment of the Hazardous Facility Screening Procedure

The Hazardous Facility Screening Procedure (HFSP) was designed as a screening tool to assist Council in deciding the risks posed by the use and storage of hazardous substances. This procedure was originally designed by a consortium of District and Regional Councils and the Ministry for the Environment, and has been adopted and tailored to reflect the Hasbings District context. This has change where the use of Hazardous Facility Screening Procedure has not been used.

Between 2015 and 2015, there have been 6 sites in where the definition for Hazardous substances and Major Hazardous facility is used, resulting in a requirement for a resource consent application for the use or storage of hazardous substances.

These sites were located in:

- RMA20150107 Storage and dispensing of diesel exhaust;
- RMA20150405: Soil disturbance on a halfside:
- RMA20150421 LPG cylinder storage increase.
- RMA20160175: Aerosol packing and storage;
- RMA20170399 Soil disturbance on half site
- RMA20180217: Self-service fuel stop and storage tank

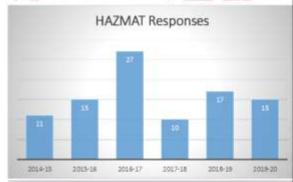
Groundwater in the Heretaunga Plains Unconfined Aquifer (the main groundwater resource for people living on and adjacent to the Heretaunga Plains) is such erable to contamination from the effects of activities on the surface. This is because there is no impermeable surface sediment which would prevent or minimise the downward flow of contaminants. None of the 4 sites listed above were situated over the Heretaunga Plains Unconfined Aquifer.

There have not been any specific resource consents that required HFSP to be employed between 2009 and 2014.

Indicator HS2: Number of Reported Incidents and Callouts to Hazardous Substances Soills

The number of reported spills involving hazardous substances has fluctuated slightly over the last three years, but the number of reported incidents per year has dropped from an average of 40 over the last reporting period to 10.

Figure 5386: Hazardous Substances Incidents & Spills (2014/15 to 2019/20)



Source: Fire and Emergancy New Zealand

Hazardous substance spills are dealt with by the Fire and Emergency New Zealand (FENZ) and/or Hawke's Bay Regional Council (HBRC). Apart from the 2016-17 spike, the number of responses have been consistent.

The Environmental Protection Agency (EPA) and WorkSafe NZ are responsible for the collection and collation of information relating to hazardous substance events.

Between 2004 and 2006, there have been 4 sites in which the Harandous Facility Screening Procedure was used, resulting in a requirement for a resource consest to use

Hastings District Council: Te Kaunihere & Rohe o Heretaungs // 283

2015-2019 to te Püranga tá te Talad

or store hazardous substances. There were no specific resource consents that used the INFSR in 2009-2014.

The number of spile involving hazardous substances reported to Hastings District Council's Emergency Management Team has fluctuated over the last reporting period, but averaged about 40 reported incidents per year. This has dropped to an average of 10 receiver as hazardous rubstance spile are now death with by the New Zodand Fire terrice and/or Hawkin's Bay Regional Council. 2 is filely that there are many incidents which HOC's Emergency Management Team are hot involved in:

Responses

For Community

- . Only use hazardous substances when absolutely necessary
- If you are using or storing any hazardous substances make sure that they are being used and stored in accordance with appropriate guidelines and regulations to avoid contaminating the land, air or water
- Unwanted hazardous substances should not be disposed of with general rubbish the annual HazMobile Collection is a safe and easy way to dispose of such waste.
- If you see or smell any chemical or oil spills, call the Hawke's Bay Regional Council
 Poliution Hotime Phone. (0800) 108 838 and tell the Poliution Response Team
 about it, or the New Zealand Fire Service.

or Council

- Ensure Council staff are trained in the use of the Hazardous Facility Screening Procedure
- Ensure Council's Emergency Management staff continue to be suitably trained and maintain readiness to respond to emergency callouts involving hazardous substance soils
- Continue to work with EPA, WorkSafe NZ, the New Zealand Fire Service and Hawke's Bay Regional Council's Pollution Response Team to ensure appropriate response to incidents involving hazardous substance spills.

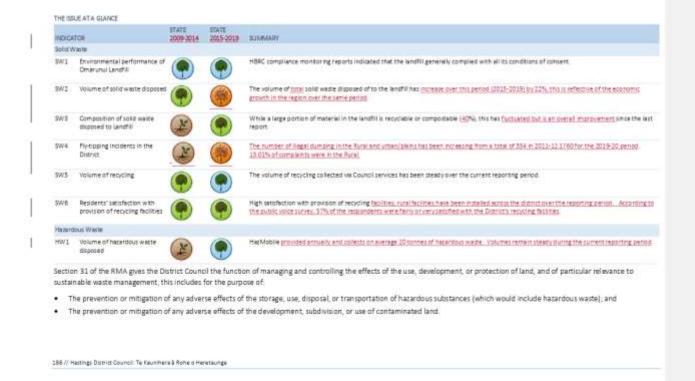


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2015-2019 to te Püranga tá te Talea

Sustainable Waste Management



2015-2019 No te Pürongo tõ te Teleo

Solid Waste

Waste is materials and energy which have no further use and are released into the environment as a means of disposal. Waste can be in solid, liquid or gaseous form. This section looks at solid waste.

It is in the community's best interest to encourage residents to be more resourceful, diverting as much unnecessary waste as possible to prolong Omarunui Landfill's life.

The Waste Minimisation Act defines "waste" as: "anything disposed of or discarded".

Most of the things we do, buy and consume generate some form of waste. If not managed properly, it can have a negative impact on people's well-being and the health of the environment. Reducing these impacts can be achieved by resurg items rather than throwing them away, and through recycling. The Council actively encourages as much waste reduction and recycling as possible and has a duty to manage waste in a way that minimises any effects on the District's land, air and water resources.

The Hastings District is served by one landfill, known as Gmarunui Landfill, which is situated at Omarunui Road and is jointly owned by the Hastings District and Napier City Councils It is only open to commercial operators/contractors with a Waste Disposal Licence (it is not open to the general public). There are also a small number of private cleanfills in the District.

Landfills produce leachate and greenhouse gases as materials break down slowly. Use most modern landfills. Omanunul is constantly managing leachate and greenhouse gases and this will continue well after cloture.

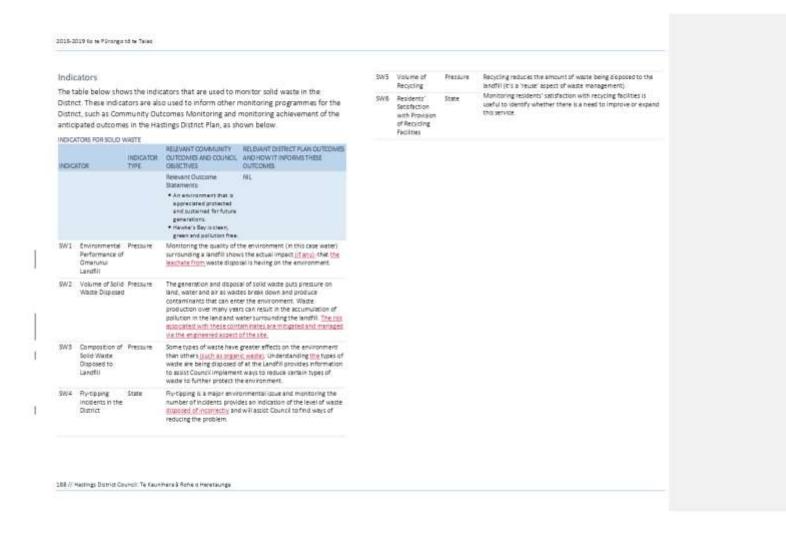
Omarunui Landfill has highly engineered and successful systems to capture liquids and gases produced by the waste. However, Hastings District and Napier City Councils' believe it is better to divert these materials from Omarunui in the first place rather (ban managing (and paying for) them at the landfill. Eventually, landfills reach capacity and a new landfill is needed. This is a costly process and increases the area over which contamination can occur. The goal is to reduce the amount of waste going to the landfill and to manage the disposal of waste so that the effects on the environment are minimal.

In 2018 Hastings District and Napier City Councils' adopted a new Joint Waste Management and Minimisation Plan which sets out the actions that both Councils will undertake to manage waste and resource efficiency across the region.



Photo: Omerunui Lenefill Source: Napler City Council

Hastings District Council: Te Kaunihere & Rohe o Heretaungs // 187



2015-2018 No te Púrongo tá te Teleo

Monitoring Information

Indicator SW1: Environmental Performance of Omarunui Landfill

The Omarunui Landfill comprises of four valleys identified as suitable for refuse disposal. Area A received waste between 1988-2007 and is now closed, Area D has been operational from 2007 and has an estimated 4 years of capacity remaining. The remaining landfill space at Omarunui Landfill is expected to serve the Hastings and Napier communities for 50+ years beyond 2025.

The life expectancy of the landfill depends on the amount of waste being received. Reducing the amount of waste going to the landfill means the life expectancy of the facility increases accordingly. The longer the landfill lasts, the less impact our waste disposal will have on the environment, through postponing the need for another waste disposal facility and reducing the amount of pollutants produced.

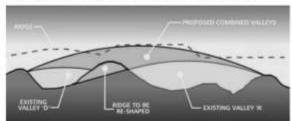
The Omarunui Landfill is a fully contained municipal landfill, meaning nothing should leave the site by way of pollution. Leachate is collected and re-circulated and methane gas is turned into electricity to power approximately 1000 homes. The Landfill is accredited with an ISO9000:2001 environmental management system.

Omarunui Landfill prescribes to best international practice and construction of Valley

Area D (the currently active part of the landfill) utilised a three liner system using clay,

Geosynthetic liner and HDPE plastic liner.

The following images show the final layout of the Omarunui Landfill in 2025.



Source: Nagler City Council

Hastings District Council and Napier City Council hold a number of resource consents from Hawke's Bay Regional Council (HBRC), associated with the operation of the Omarunui Landfill

- DP040122A to discharge odour, landfill gas and dust to air;
- . DP040120La to discharge leachate and waste from landfill to land; and
- DP040121W to discharge stormwater to water via stormwater retention ponds.

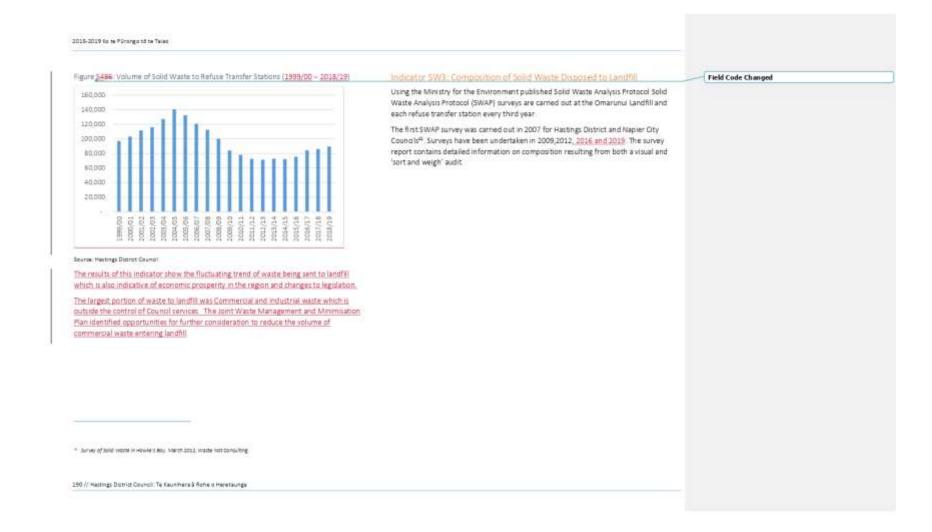
HBRC compliance monitoring reports for the 2014/15 year indicated that the landfill generally complied with all its conditions of consent.

Indicator SW2: Volume of Solid Waste Disposed

Most of the waste that comes to the landfill is from the commercial sector and the refuse transfer stations (RTSs). The two refuse transfer stations in the Hastings District are Blackbridge RTS on Mill Road, Clive, and Henderson Rd RTS in Hastings.

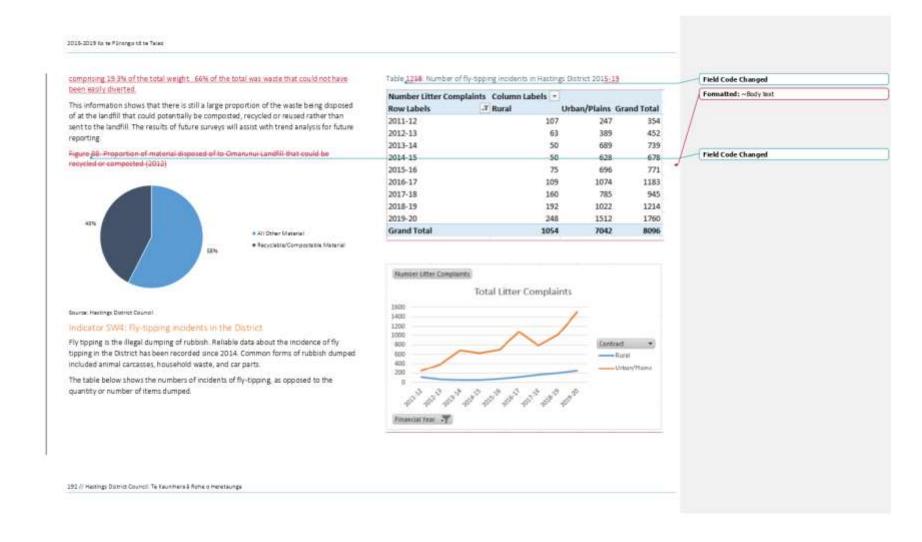
The following graph shows the total tormage of solid waste received at the Omarunul Landfill (being the combined tonnage of waste from the refuse transfer stations, commercial waste operators and industrial waste sources from both Napier City and Hastings District).

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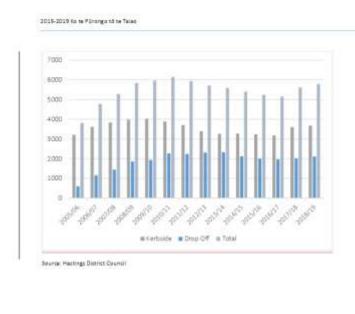
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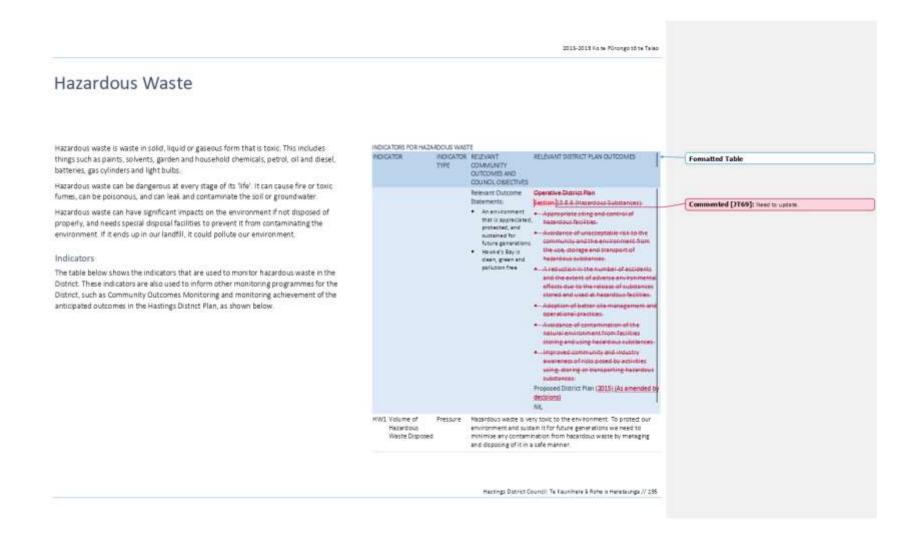
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Monitoring Information

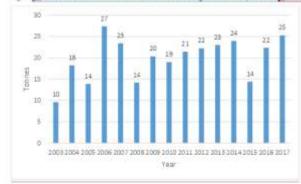
Indicator HW1: Volume of Hazardous Waste Disposed

Currently, there is no comprehensive data on the volume of hazardous waste disposed of in the District, as there are numerous avenues for its disposal. That does not mean there is not significant hazardous waste being generated. For instance, Council recovers an average of 12 tonnes of oil from transfer stations per annum. The volume of waste collected through the hazavooble is also a good indicator.

The HazMobile is a concept established by the former Auckland Regional Council and brought to Hawke's Bay. It's a free service for householders provided by the Hawke's Bay Regional Council, Hastings District Council, and Napier City Council.

The HazMobile stations itself in a carpani in Hastings or Napier once a year so that householders can dispose of their hazardous wastes – for example old paints, waste oil, teatteries and household and garden chemicals – safely.

Figure 5992: Volume of Hazardous Waste Collected through HazMobile (2003-2017)



Source: Hactings District Council

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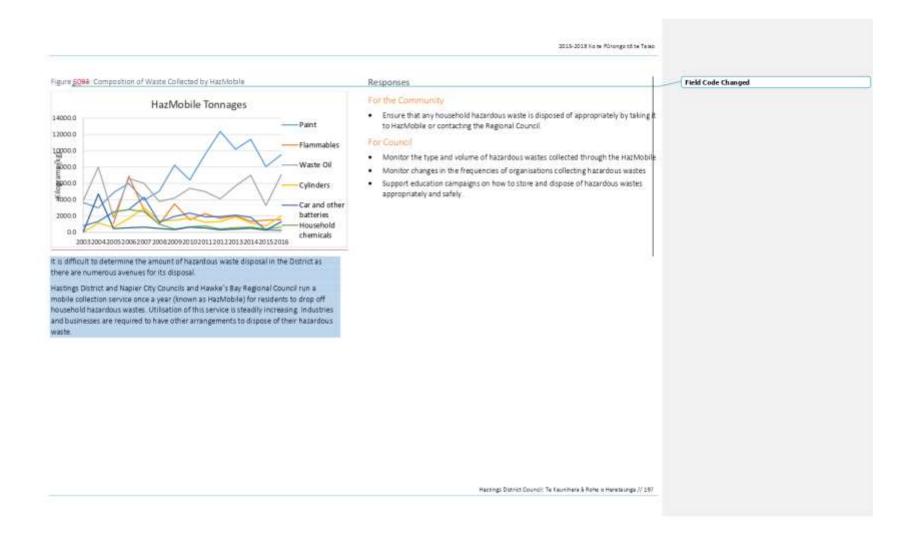


The previous graph shows the volume of hazardous waste collected through HazMobile from 2003 to 2014 for the Region, and shows that the volume of hazardous waste has trended upwards; peaking in 2006 when 27 tonnes of hazardous waste was collected across the Hawke's Bay Region.

The steady participation of HazMobile suggests that Hastings residents are becoming increasingly aware of the service and making use of it to dispose of common household hazardous waste.

Industries and businesses within the District are required to have other arrangements to dispose of their hazardous waste. This is usually with the supplier and therefore no information is available on the amounts being used or disposed.

Take back schemes such as the 'Resene Paintwise' programme (a product stewardship programme which recycles old paint) are accounting for a percentage, as is the Regional Council's Agricultural Chemical collection which services the District's farms twice yearly. Field Code Changed Formatted: Not Highlight



3015-2019 to te Pürongo tá te Talad

Contaminated Sites

Contaminated sites are properties or areas of land or soil where hazardous substances are present at levels above background levels and where they are likely to pose an immediate or long-term risk to human health or the environment.

This is usually from activities that have been, or are being, undertaken on sites that use chemicals and toxet substances, such as industries or some forms of horticulture. As well as endangering the health of people, animals and the environment generally, these substances also limit the future use of land. While a few sites are known to the Council, there are likely to be a number of sites that are unknown or have yet to be investigated. The Council is continuing to the work with Hawke's Bay Regional Council to identify, categorise, and where necessary, work with the site owner to remediate sites as they are identified.

In 2011, the National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health was introduced (NES Soils). This requires any piece of land which has contained a "HALL" activity (Hazardous Activities and Industries Ust) to address the NES when subdividing, or changing use. The NES requirements are more stringent than Operative District Plan provisions and therefore, the previous data presented under this indicator will be obsolete.

Responses

For Council

- Continue to work with the Hawke's Bay Regional Council and landowners to identify and appropriately manage contaminated sites in the District
- Hawke's Bay Regional Council have a register of contaminated sites.
- Draft new indicators that reflect the changes to the way contaminated sites are managed.

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