



**LEADING WITH
HUMAN INNOVATION**

PRINCE RUPERT PORT AUTHORITY
2021 Key Facts & Figures

2021 SUSTAINABILITY | ANNUAL REPORT

VIGOROUS TRADE. THRIVING COMMUNITIES. SUSTAINABLE DEVELOPMENT.

Through the ups and downs of the COVID-19 pandemic and the challenges faced by global supply chains, the Port of Prince Rupert has demonstrated the critical role it plays not only in Canada's economic prosperity, but also in the resiliency of its supply chains, further underlining the need for additional capacity and diversification in Prince Rupert. The Prince Rupert Port Authority's (PRPA) strategic priorities serve to guide the organization in its existing operations and in future development to align with the principles of sustainability and the best available practices to meet the needs of a changing world and climate.

At PRPA, 'sustainability' means more than environmental stewardship; it encompasses expanding economic benefits through safe, secure and sustainable operations. Through stakeholder collaboration and grassroots input from community members, minimizing the Port's impact on the environment while maximizing the benefits to the region and the people that call it home is the most meaningful method for measuring our collective success.

PRPA's role in community sustainability is two-fold: to be an enabler and accelerator for the maritime industry to meet the pressures of decarbonization and transition to sustainable practices for the betterment of all, while creating a vehicle for change and global sustainability through port-related trade and transportation initiatives. Examples of the first include our Green Wave program for shippers, incentivizing vessel owners to adopt sustainable practices through targeted port fee reductions, and our investment in shore power at DP World's Fairview Container Terminal, which will allow vessels to operate on hydroelectricity while at berth, significantly reducing vessel emissions. The latter is demonstrated through the Port of Prince Rupert's role in exporting Canadian biofuels like wood pellets and homegrown alternative energies like liquified petroleum gas to support the global energy transition.

In looking to the future, its incumbent on PRPA to plan for development, growth, and diversification through a sustainability lens. In 2021, PRPA was partner to the Transportation Asset Risk Assessment (TARA) project – a climate modelling exercise in which the effects of climate change were simulated on Port property to assist the organization and its terminal operators in risk management and planning. Throughout 2021 significant progress was made in the construction of two significant projects to add capacity to the intermodal line of business – the Fairview-Ridley Connector Corridor and, under DP World Prince Rupert, the Fairview Terminal southern expansion to 1.6M TEUs. Both have been undertaken with a standard of care to ensure top-tier environmental compliance and local contributions through contracting and procurement. Once complete in 2022, the Fairview-Ridley Connector Corridor, a private haul road to reroute commercial truck traffic away from city streets, will reduce the route from 20km down to 5km and result in 75% less truck emissions from port activities. As part of these development projects, habitat compensation work was undertaken in 2021 in the Seal Cove area to rehabilitate the salt marsh there. Once complete in 2022, the Seal Cove area will be an accessible, recreational amenity for the entire community to enjoy.

PRPA has a demonstrated track record of third-party certification as it relates to its efforts in the environmental, social, and governance (ESG) space. The Port of Prince Rupert became the first West Coast port to join the Green Marine environmental program in 2010 and has been an annually certified member since. PRPA as an organization has been Climate Smart certified annually since 2018. It is also worthwhile to note that PRPA has been carbon neutral since 2015. These provide the foundation for the Port of Prince Rupert to achieve its carbon reduction strategy goal of shrinking emission intensity by 30% by 2030 and reaching net-zero by 2050.

Our partnerships with local Indigenous communities, northern BC stakeholders, and the gateway workforce throughout the Highway 16 region is the foundation of our shared success. Over the past decade, the movement of goods through the Prince Rupert Gateway and employment in port-related industries that support it have more than doubled. This growth is a testament to the 3,700 people working directly in trucking and logistics, rail, marine and terminal operations, as well as the 2,400 others employed in businesses that service and support port-related industries. We thank them for their hard work and dedication. The Gateway workforce's skills and commitment are contributing to the ever-growing reputation of the Port of Prince Rupert and northern BC as the most innovative and competitive trade gateway in North America. Furthermore, the socio-economic benefits and procurement opportunities generated by this growing sector provide opportunities for Indigenous partners to fully participate in the port economy.

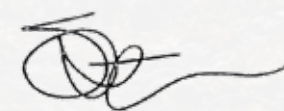
PRPA has built a reputation for world-class safety and security as one of the fastest growing ports in North America – efforts through 2021 have only served to augment that standing. Coordination between PRPA and its many partners ensures management over every vessel, train, and truck, ensuring round-the-clock safeguards. And as the number of vessels projected to call on the Port continues to grow, additional state-of-the-art technologies and best practices are enabling continuous operational improvements. Between the implementation of recommendations of a comprehensive Navigational Risk Assessment and a restructuring of the human capital that optimizes our Port Security team and our Emergency Operations Centre, PRPA facilitated safe passage for increased LPG exports and operated the year without a recorded VLGC vessel incident. None of this would be possible without the close, cohesive partnerships that exist among the multiple agencies with Port-related jurisdiction.

With global trade in a critical time of transition, supply chains in flux, and pressure mounting to decarbonize, the Prince Rupert Gateway is poised to help Canada's economy reap the benefits more than ever before. A world-class labour force, combined with investments in leading technologies, smart infrastructure, best practice environmental management and the lowest carbon emission intensity in North America, have all positioned the Gateway as Canada's leading edge for international trade. By committing to investing in strategic infrastructure, diversifying cargoes and sustainably growing capacity, Prince Rupert is ready to handle the needs of today and the future.

Most of all, we would like to thank PRPA's team of dedicated staff, the people propelling our innovation and track record of success, who lead by example as it relates to environmental and safety best practices and champion sustainability as a lifestyle. Together, we are leading with human innovation.

We encourage you to visit our full Annual Report online at 2021.rupertport.com for a more detailed overview of all of our 2021 activities.

Sincerely,



Shaun Stevenson,
President & CEO



Frans Tjallingii,
Board Chair

2021 SUSTAINABILITY RESULTS

3.8531 % ^{KG/} TONNE

GHG INTENSITY AT INVENTORY
BOUNDARY

-14% ▼

DECREASE IN NO_x INTENSITY (KG/T) AT
INVENTORY BOUNDARY SINCE 2010

-74% ▼

DECREASE IN PM_{2.5} INTENSITY AT
INVENTORY BOUNDARY SINCE 2010

-94% ▼

DECREASE IN SO_x INTENSITY AT
INVENTORY BOUNDARY SINCE 2010

30% ▼



PERCENTAGE OF UNIQUE VESSELS
QUALIFYING FOR GREEN WAVE PROGRAM

3,190 TONNES

GHG EMISSIONS AVOIDED BY 28 VESSELS
THAT QUALIFIED FOR GREEN WAVE THROUGH
RIGHTSHIP'S GHG RATING CRITERIA

2021 SUSTAINABILITY | SUSTAIN



INSTALLING SHORE POWER FOR SHIPS AT BERTH

PRPA, DP World, and BC Hydro have collaborated to install shore power infrastructure at Fairview Container Terminal. This will allow container vessels to use hydroelectric power while at berth and shut down their main engines, significantly cutting the ship's emissions. This project is a key part of PRPA's Carbon Reduction Strategy, which aims to shrink emissions intensity by 30 percent by 2030 and reach net-zero by 2050. Once the infrastructure is fully operational, emissions savings from shore power are expected to account for half of PRPA's aggressive reduction target.



WILDLIFE MONITORING

PRPA's Environmental team has contributed to initiatives on both land and sea aimed at protecting wildlife. During the Environmental Effects Evaluation for the Ridley Island Export Logistics Project, the review noted the potential presence of the Little brown myotis. This species of bat is considered endangered in North America due to the spread of white-nose syndrome, a fungal disease that is prevalent in eastern Canada, but has not impacted populations in BC. In 2020, PRPA's Sustainability team initiated an acoustic monitoring program to observe and record activity of the Little brown myotis around future development sites. In the next phase of the project, PRPA is installing bat habitat features to provide shelter for local Little brown myotis to roost.

PRPA continued to support the North Coast Cetacean Research Initiative led by Ocean Wise. In 2021, 100 new accounts were registered with the Whale Report Alert System on the North Coast, with 182 alerts sent out to mariners in local waters. This represents a 27% increase over 2020. Citizen scientists shared 589 sightings of cetaceans, up 30% year-over-year. Researchers also produced an identification guide of individual humpback whales of Chatham Sound and surrounding areas. The catalogue is a tool in understanding the abundance, distribution, feeding ecology and demographics of humpbacks throughout the Northeast Pacific.

INVASIVE SPECIES MONITORING

PRPA's Sustainability team has continued to collaborate with multiple organizations, including the communities of Metlakatla and Lax Kw'alaams, on Aquatic Invasive Species monitoring programs aimed at preserving local ecosystems. In 2021, PRPA once again partnered with Fisheries and Oceans Canada and Coast Mountain College on the PlateWatch program, regularly surveying nine locations around Prince Rupert during the late spring and summer to monitor for invasive tunicates. Each quarter, PRPA staff also collected zooplankton samples, to monitor for the presence of invasive European Green Crab larvae. Find details on the programs at <https://www.rupertport.com/aquatic-invasive-species/>.



SUPPORTING FOOD SECURITY

In 2021, PRPA provided funds and human resources to promote local food security in multiple ways. Teaming up with School District 52 and other industry partners, PRPA continued to fund the Breakfast Club of Canada program, expanding to seven local schools, and providing nutritious meals to upwards of 280 children each day.

Through a contribution from PRPA's Community Investment Fund, the Prince Rupert Garden Club installed a new greenhouse which is used for teaching community members about gardening techniques. Food grown at the greenhouse is donated to local non-profits which support food security in the community.



In February 2021, PRPA's Harbour Patrol and Maintenance teams loaded PRPA's vessels, the Amwaal and Charles Hays, to deliver thousands of pounds of food and other critical supplies on behalf of Gitxaala Nation. This was the third in a series of special deliveries conducted during the COVID-19 pandemic, when health and safety restrictions created immense challenges in transporting goods to the First Nation's community of Lach Klan.

2021 SUSTAINABILITY | ENGAGE

GREEN WAVE AWARD RECIPIENTS

Four companies have been honoured for their outstanding participation in PRPA's Green Wave environmental incentive program for their 2021 performance. They include intermodal shipping companies COSCO Shipping Lines and MSC Mediterranean Shipping Company, liquefied gas shipping company Navigator Gas LLC, and BC Ferries. The Green Wave program rewards shippers by offering discounted harbour fees to vessel owners who voluntarily invest in sustainable practices. In 2021, there were 163 vessel calls that met the strict criteria to qualify for the Green Wave program.



SUPPORTING COMMUNITY SAFETY

In November 2021, PRPA hosted a community safety event, bringing together multiple emergency response agencies and volunteer-led groups that serve Prince Rupert and the surrounding area. Members of Prince Rupert Ground Search & Rescue showed off their new Mobile Command Centre, purchased through a partnership with PRPA's Community Investment Fund. Prince Rupert Fire Rescue, RCMP, and Royal Canadian Marine Search & Rescue also rallied their emergency vehicles and vessels, inviting members of the community to take an up-close look at the various specialized equipment. Through its Community Investment Fund, PRPA has contributed to five different projects that support public safety across northwest BC and Haida Gwaii.



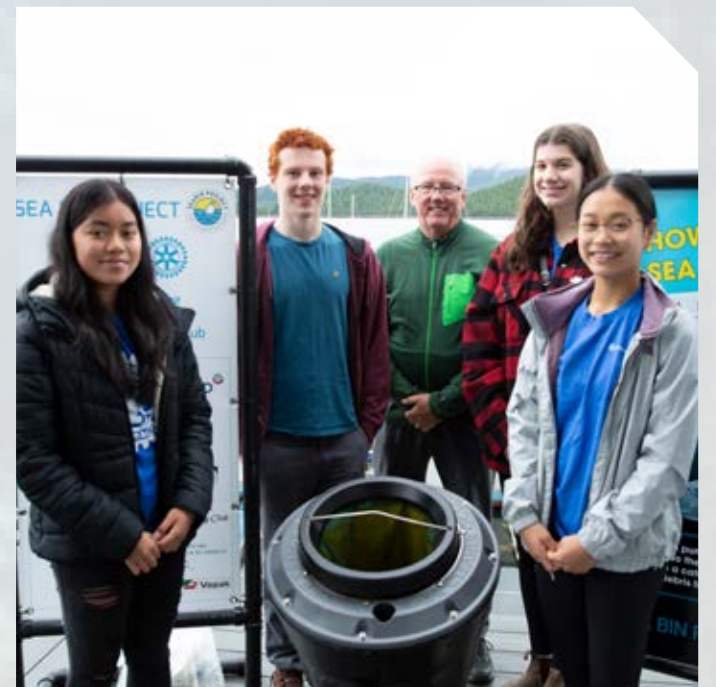
INVESTING IN LOCAL LABOUR AND RECRUITMENT

PRPA partnered with Community Futures Pacific Northwest and the City of Prince Rupert to launch the 'Make Prince Rupert Home' initiative. The website and accompanying social media campaign was developed to support labour and recruitment efforts for local businesses. Providing a place to connect job seekers from around western Canada to local businesses, Make Prince Rupert Home's website and social channels also offer extensive information about the community and local amenities, providing prospective workers and their families with a glimpse of what life is like on BC's north coast.



NORTH COAST ECOLOGY CENTRE POP-UP

PRPA provided the North Coast Ecology Centre Society with the space to host a special pop-up exhibit. The non-profit group set up aquariums and other educational displays in Northland Cruise Terminal, inviting members of the public to have an up-close look at different aquatic life found in the waters around Prince Rupert. Over the course of 16 days in July and August, the Pop-up Ecology Centre welcomed 3,200 visitors.



SEABINS CATCH OCEAN WASTE

Six floating trash skimmers have been deployed at marinas around Prince Rupert as part of a project led the Rainmakers Interact Club, a group of civic-minded youth who volunteer their time and efforts to improving the community. The SeaBin project is part of a global initiative to reduce ocean pollution by collecting floating waste, surface contaminants and small plastic particles. PRPA's Community Investment Fund pledged \$27,500 to acquire the devices and distribute them to locations around the harbour.

2021 SUSTAINABILITY | ENHANCE



ECONOMIC IMPACT STUDY

A new Economic Impact Assessment, conducted on behalf of the recently established Prince Rupert Gateway Council – a group comprised of employers, industries, and labour organizations that make up the trade Gateway – found employment in port-related activities has more than doubled over the past decade. The study revealed work in the marine, terminal, rail, trucking, and logistics activities through the Gateway directly supported 3,700 jobs, up three percent from 2018.

levels. The average annual wage for a fulltime worker directly employed by a gateway business rose by 14 percent to approximately \$95,000. Overall, the direct Gateway workforce earns a total of \$360 million annually, which helps support local communities throughout the northwest. Read the full Economic Impact study at www.rupertport.com/economic-impact/.



INDIGENOUS EMPLOYMENT

The Port of Prince Rupert operates on the traditional land of the Ts'msyen people. The Port workforce reflects the diversity of the surrounding communities, with 38 percent of people directly employed in Port-related businesses self-identifying as Indigenous. The Port is committed to sharing the financial benefits of increased volumes with local Indigenous residents, governments, and business through benefit agreements, revenue sharing, employment in the Gateway industry, and preferred infrastructure contracting for construction, operations, and entrepreneurial business opportunities. Since 2011, contracts totaling more than \$266 million have been provided to Indigenous-led businesses and numerous local Indigenous organizations are directly investing in Port-related development.



FAIRVIEW SOUTH EXPANSION

The next phase of DP World-Prince Rupert Fairview Container Terminal's expansion got underway with early site work beginning in Q1 2021. Marine dredging and in-fill work continued throughout the year with the assistance of environmental teams who helped safely relocate aquatic life and establish new habitat along the re-established shoreline. As part of the expansion project, the terminal gate is being repositioned to the southern end of the facility to link up with the new Fairview-Ridley Connector Corridor and the container yard is being reconfigured to expand capacity and maximize efficiency.



INVESTING IN LOCAL MARINE SAFETY

In 2021, PRPA installed Class B Automatic Identification System units on 11 local commercial vessels that operate in the Prince Rupert area year-round. PRPA's annual budget includes funds to equip between 10 and 15 vessels each year with the GPS technology that allows them to be identified by other vessels and marine safety partners like Canadian Coast Guard. Class B units are designed for smaller vessels with fewer power options, less space and fewer antennas than a large commercial vessel. Since launching the program in 2016, PRPA has provided 55 Class B AIS units to local mariners.

2021 SUSTAINABILITY | INVEST



SEAL COVE HABITAT RESTORATION WORK

To compensate for fish habitat impacted by the development of the Fairview-Ridley Connector Corridor, PRPA has overhauled a waterfront site in an area of Prince Rupert that has suffered decades of degradation from industrial activity. Through a partnership with the City of Prince Rupert, PRPA has undertaken \$4 million in restoration work to regenerate the Seal Cove Salt Marsh, including regrading the intertidal areas and transplanting enough eelgrass to cover the surface of three NHL-size ice rinks.



TOBOGGAN CREEK HATCHERY UPGRADES

Efforts to improve and monitor wild Coho and Chinook salmon stock productivity in northwest BC have received a significant financial boost from PRPA's Skeena River Salmon Enhancement Program. The Toboggan Creek Salmon & Steelhead Enhancement Society received \$60,000 to help upgrade aging infrastructure at the Toboggan Creek Hatchery northwest of Smithers. These improvements have ensured the volunteer-led organization can carry on their operations safely and sustainably for years to come and allows them to continue to directly contribute to Fisheries and Oceans Canada's management of Pacific Northwest salmon fisheries.



WIND AND WAVE MONITORING

In collaboration with the Pacific Pilotage Authority, Marine Labs and Coast Scout, PRPA launched a new sensor near Triple Island in early 2021. It provides Pilots and vessel operators with reliable data on current conditions, so they can assess the situation as they prepare to board incoming or disembark outgoing ships. Though it is located outside PRPA's navigable waters, the data collected from the monitoring device will play an important role in informing future marine safety practices at the Port of Prince Rupert, particularly regarding potentially delaying vessels if winds speeds reach a certain threshold.

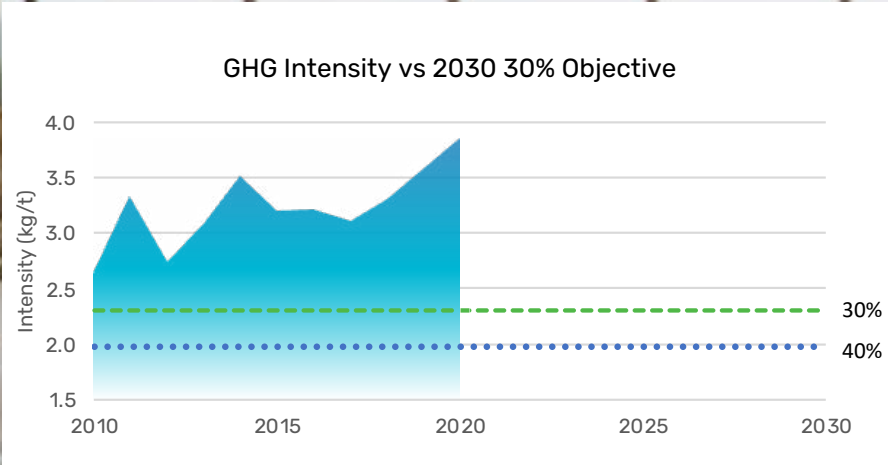


FAIRVIEW-RIDLEY CONNECTOR CORRIDOR MILESTONES

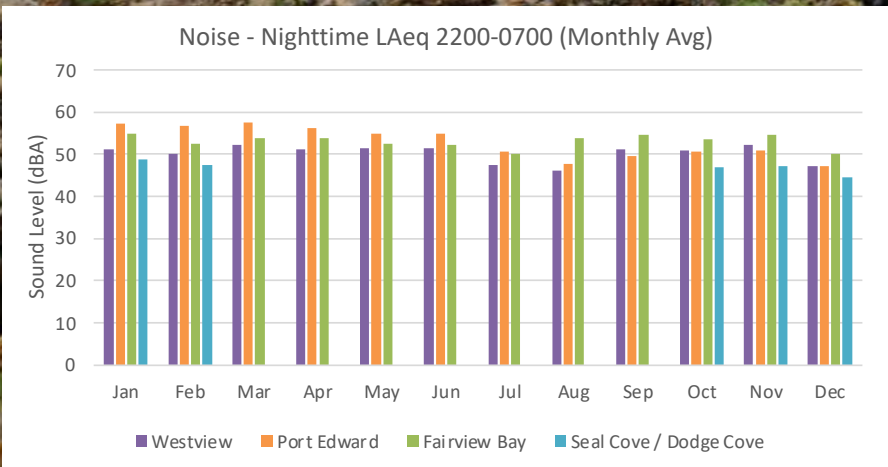
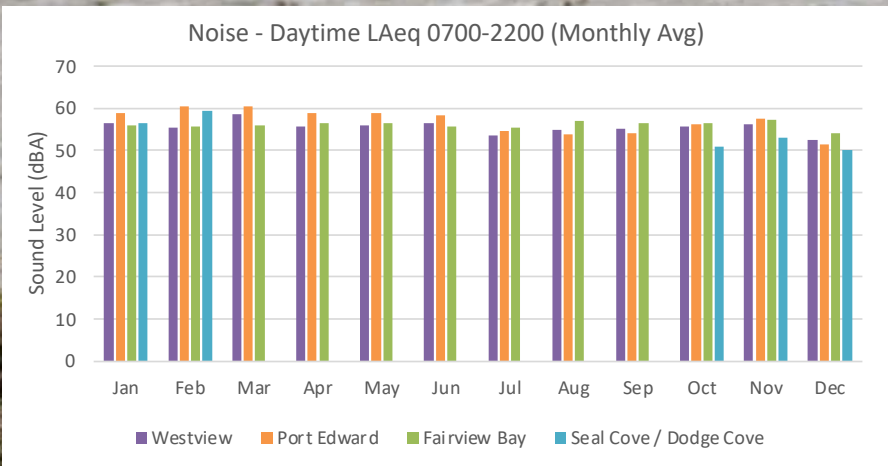
In 2021, extensive work was completed on the Fairview-Ridley Connector Corridor, a new five-kilometre haul road and two rail sidings linking Fairview Container Terminal to future transloading sites on Ridley Island. Construction has been undertaken by the Coast Tsimshian Northern Contractors Alliance, a local First Nations joint venture led by Prince Rupert Lax Kw'alaams Band and Metlakatla First Nation. The Connector is designed to reroute container truck traffic away from municipal and provincial roadways, reducing both the distance vehicles must travel and their emissions by up to 75 percent.

2021 SUSTAINABILITY ENVIRONMENTAL RESULTS

CARBON REDUCTION

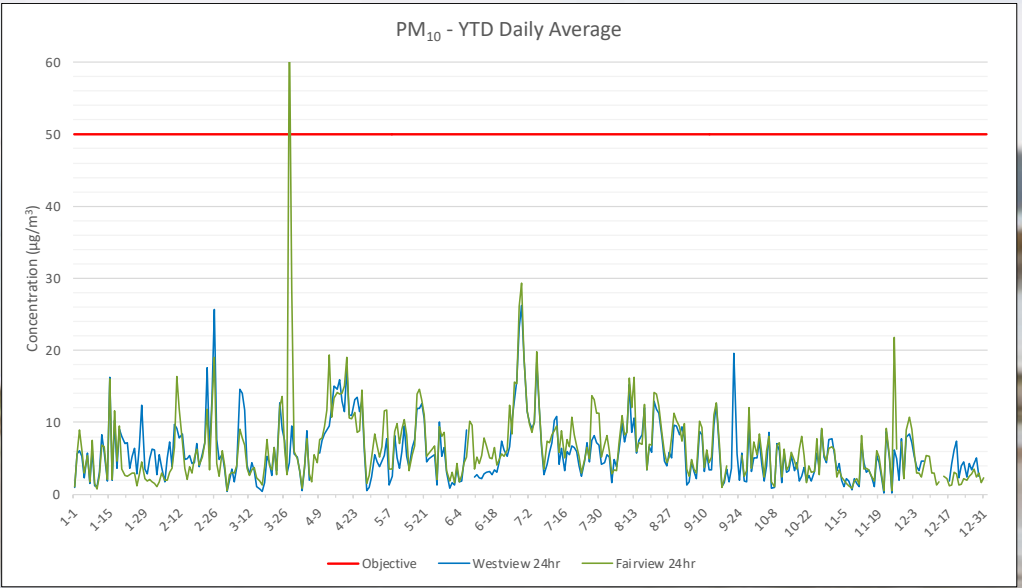


NOISE

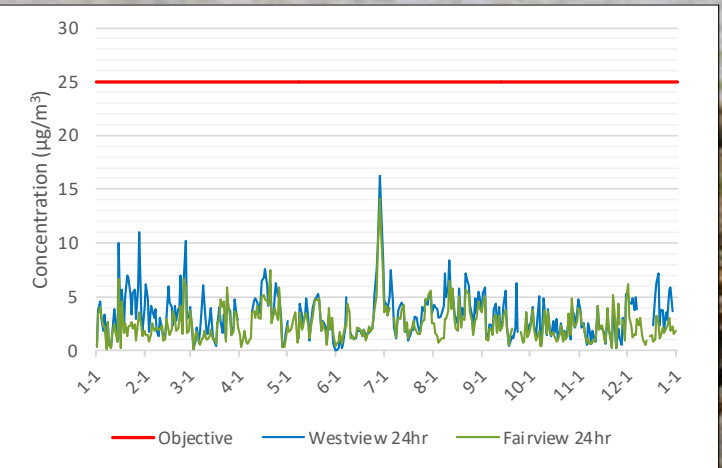


AIR QUALITY

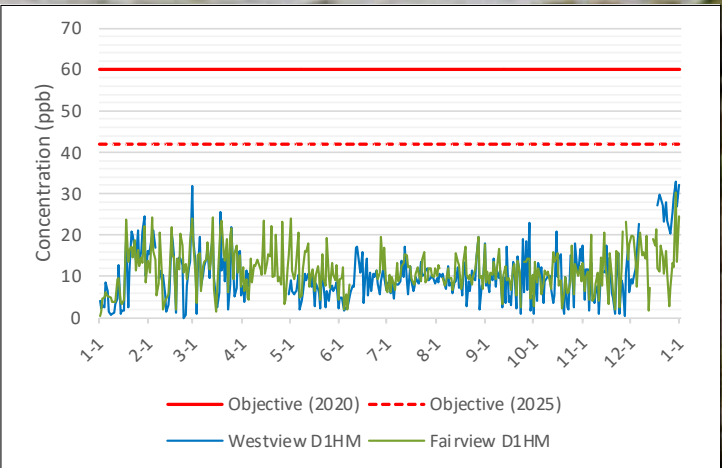
PM10 - 24hr Rolling Average



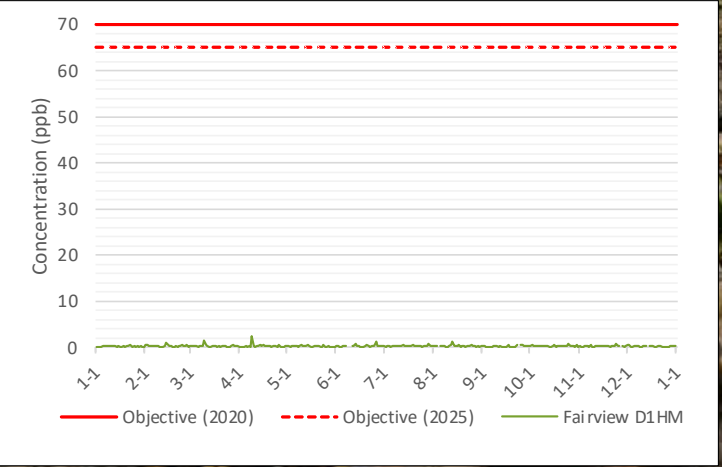
PM2.5 - YTD Daily Average



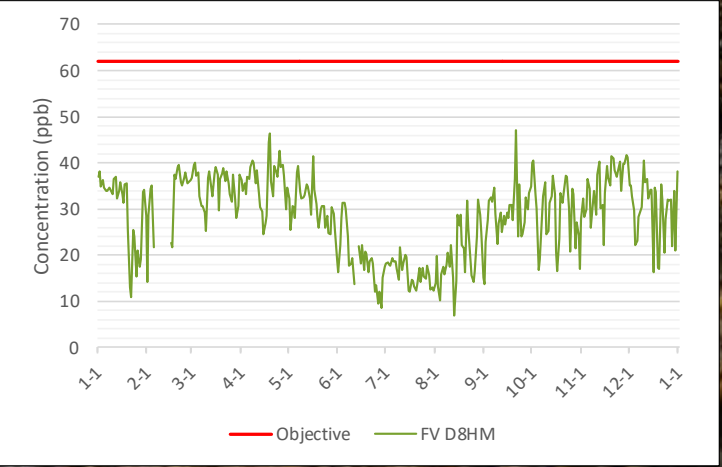
NO₂ - YTD Daily 1hr Maximum



SO₂ - YTD Daily 1hr Maximum



O₃ - YTD Daily 8hr Maximum



2021 SUSTAINABILITY

| EAT | PLAY | LEARN

PRPA is dedicated to supporting youth to eat, play, and learn in ways that enable them to grow healthily and reach their full potential.

Working together with the Breakfast Club of Canada, School District 52, and other local Port industry partners, PRPA helps provide nutritious meals to more than 280 children and teens in local schools each day.

Teaming up with KidSport, PRPA is helping provide grants to local families, so their kids can participate in organized sports. The local Prince Rupert chapter was launched at the beginning of 2022 after several months of organizing and fundraising in 2021.

Collaborating with North Coast Literacy Now, PRPA is providing direct support for Dolly Parton's Imagination Library. Initially brought to the Prince Rupert area in 2021, the free book-gifting program provides children aged 5 and under with a brand new book each month.



COMMUNITY INVESTMENT FUND

\$728,050 was contributed to **10** completed projects through the **Community Investment Fund** in 2021.

PRPA's community partners included:

- Prince Rupert Regional Hospital Cancer Care Unit Renovation
- Prince Rupert Ground Search and Rescue Mobile Command Centre
- Lester Centre of the Arts 'Future is Sound' Audio System Upgrade
- Lax Kxeen Elementary School Accessible Playground
- Friendship House of Prince Rupert Lobby and Entrance Renovation
- Museum of Northern BC/Chatham House Roof Revitalization
- Prince Rupert Garden Club Sunken Gardens Greenhouse
- Rainmakers Interact Club Seabin Installation
- Terrace Off Road Cycling Association Cycling Pump Track
- Mills Memorial Hospital Women's Wellness Centre and Colposcopy Clinic Equipment Upgrade



\$1.54 | **MILLION**
INVESTMENT

ALLOCATED TO **COMMUNITY INVESTMENT FUND**
based on PRPA's 2021 revenues.



| TAKING CARE OF OUR COMMUNITY



| THANK YOU



2021.rupertport.com

Please visit our full form report microsite
online to learn more about our operations.

   @rupertport

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