



GNWT Infrastructure Plan

Industry Update – December 2020

Presentation Overview

- GNWT Infrastructure Planning and Acquisition
 - 2021/22 GNWT Infrastructure Plan
 - 2021/22 Department of Infrastructure Capital Plan
- Projects in Planning/Design
- Transportation Projects
- Infrastructure Corridor Projects
- Municipal and Community Affairs/Communities
- NWT Housing Corporation
- Capital Projects Anticipated Tenders

**Project budgets in this presentation include all costs to deliver the projects such as planning, design, construction and close-out costs.*



GNWT Infrastructure Planning and Acquisition

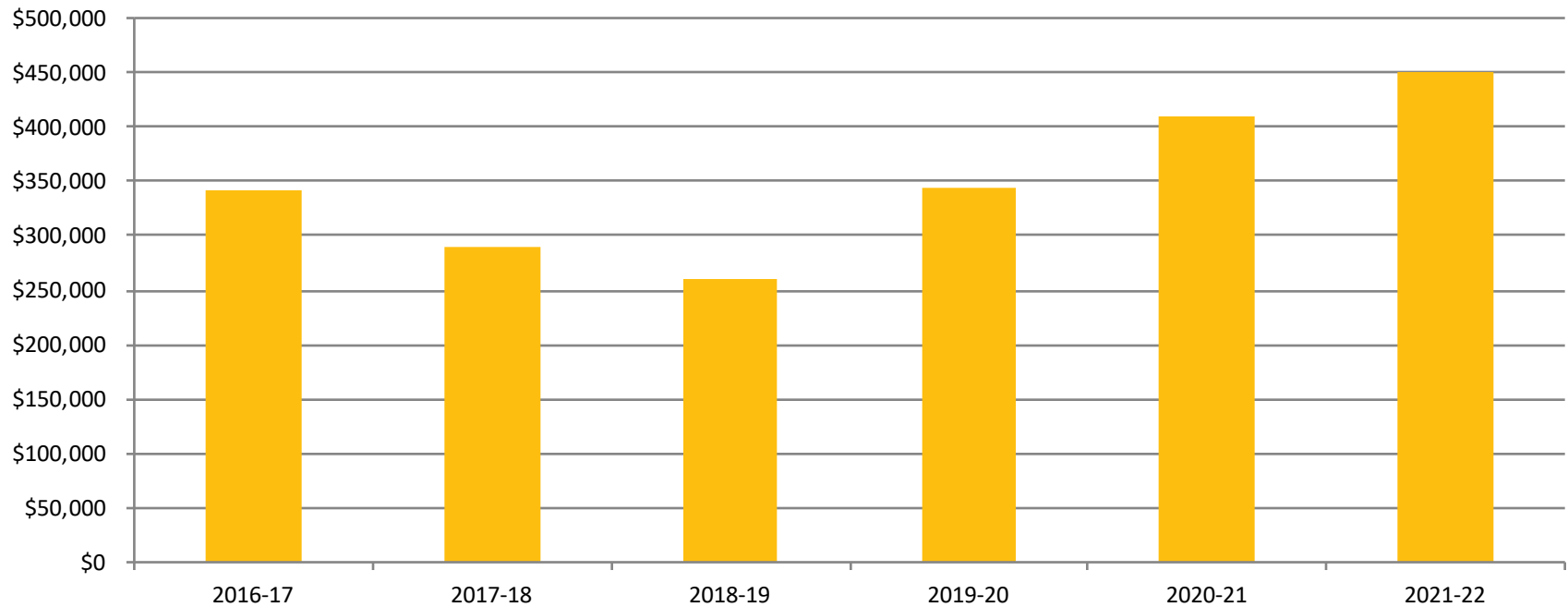
- The GNWT's 2021/22 Infrastructure Plan totals \$451.2M.
- The plan continues to leverage significant federal infrastructure dollars.
 - For copies of the 2021/22 Capital Estimates, reference the following GNWT website:
 - https://www.fin.gov.nt.ca/sites/fin/files/resources/2021-22_capital_estimates.pdf
 - For GNWT Tendering and Contracting information, reference the following GNWT website:
 - <https://www.fin.gov.nt.ca/en/services/contracting>



Infrastructure Acquisition Plan

Budget Trends \$M

Total Infrastructure Budgets by Fiscal Year



2021/22 GNWT Infrastructure Plan

SUMMARY	
LARGE CAPITAL	\$424.1M
SMALL CAPITAL	\$20.6M
IM/IT	\$6.5M
TOTAL	\$451.2M

Large Capital Projects – budget of \$600,000 and above.

Small Capital Projects - budget from \$50,000 to 600,000.

IM/IT – Information Management and Information Technology Projects.

2021/22 GNWT Infrastructure Plan

SUMMARY BY DEPARTMENT	
LEG	\$0.11M
ECE	\$30.15M
ENR	\$2.16M
FIN	\$9.25M
HSS	\$61.12M
ITI	\$14.25M
INF	\$292.77M
JUS	\$1.54M
LANDS	\$0.23M
MACA	\$29.00M
NWTHC	\$10.63M
TOTAL	\$451.21M



2021/22 Department of Infrastructure Capital Plan

- 2021/22 Capital Budget - \$292,766,000.
- Many large capital projects are a continuation of multi-year projects.
- New small capital and maintenance projects slated for 2021/22.
- This presentation does not include all of INF's capital projects for 2021/22.
- Project budgets presented in the following slides includes all costs to deliver the project such as planning, design, construction and close-out costs.



Projects in Planning/Design



Government of
Northwest Territories

Disaster Mitigation Adaptation Funding

- Increase to Bulk Fuel Storage Facilities
- Location: Paulatuk, Ulukhaktok, Sachs Harbour and Tuktoyaktuk
- Project Budget: \$29M
- Scope:
 - Increase fuel storage capacity in coastal communities, which will mitigate the impacts of natural occurrences on the resupply of fuel to remote NWT communities.
 - Modernize and improve fuel storage facilities
- Current Status: In Planning
- Construction: Complete in 2023/24 (anticipated)



Disaster Mitigation Adaptation Funding

- Airport Runway Improvements
- Location: Inuvik Mike Zubko Airport
- Project Budget: \$22M
- Scope:
 - These improvements will increase the resilience of surface structures at the Inuvik Airport from impacts of climate change and will address the following areas:
 - Widen Runway Safety Areas and Taxiway Embankments
 - Site Drainage
 - Select Paving and Repairs
- Current Status: In Design
- Construction: Complete Fall 2022 (anticipated)



Inuvik Runway Extension

- Airport Runway Extension
- Location: Inuvik Mike Zubko Airport
- Project Budget: up to \$150M (decision on federal funding is pending)
- Scope:
 - Extending and modernizing the runway will ensure the airport can meet changing operational demands and continue to provide for safe air operations.
 - 3000' Runway Extension with LED Lighting full length
 - Relocation/Reconstruction of Navigational Aids
 - Infrastructure Upgrades to TP312 5th Edition Standards
- Current Status: In Design
- Construction: Complete Fall 2025 (anticipated)



Transportation Projects



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2021/22 Planned Highway & Roadwork

HIGHWAY	WORK
Highway 1	Embankment and drainage improvements from Km 222 to Km 227.
Highway 3	• Rehabilitation, resurfacing, and drainage improvements from Km 240 to Km 243 (selected sections). • Repair of selected sections from Km 0 to Km 23. • Pavement repair of selected sections from Km 337.5 to Km 339
Highway 4	Embankment reconstruction and drainage improvements from Km 54.7 to Km 57.
Highway 7	Embankment and drainage improvements from Km 20 to Km 25- design complete, permitting under process.
Highway 8	Reconstruction - Embankment widening, Corrugated Steel Pipe culvert replacement from Km143.6 to Km 146.6: Multi-year contract, to be completed on June 30, 2021
Rae Access Road	Embankment reconstruction and drainage improvements: multi-year contract, to be completed by summer 2021
TASR	Construction of Tłıchq All Season Road. Scheduled for substantial completion by November 2021.
Mount Gaudet Access Road	Construction of Mount Gaudet Access Road (15Kms). Preliminary design complete, permitting under process and construction anticipated to commence in 2021
Prohibition Creek Access Road	Construction of Prohibition Creek Access Road (13 Kms). Construction anticipated to commence in 2021.



2021/22 Planned Highway & Roadwork

HIGHWAY	WORK
Inuvik Highpoint access Road	Construction of Inuvik Highpoint access Road (6 Kms). Plan and design is complete and permitting is under process.
Marine Bypass Road	Construction of Marine Bypass Road (3.5 Km). Design is complete.
Whati Access Road	Improvement of Whati Access Road (12.3 Km) - Design stage.

Location	O & M	Work
	Chipseal	Overlay for highways – 200 kms
KM 163– 332	Highway 3	Overlay
KM 70- 90	Highway 6	Overlay
KM 0 – 10.5	Rae Access Road	Overlay
KM 6-11.3	Dettah Access Road	Overlay
Various Pits	Crushing at various pits	Materials Production



2021/22 Planned Highway & Roadwork

Location	O & M	Work
Different Gravel Roads	Calcium Chloride Application	Various Gravel Road Sections
Different Highways	Line Painting	Selected NWT Highways

Bridge-Culverts	Work
GNWT Bridge-Culvert Program - Construction	• Mackenzie Valley Winter Road km 747.6 Strawberry Creek – arch bridge-culvert buckling repair in summer 2021. • Hwy 8 kms 40.1, 147 & 266.1 – trenchless culvert replacement. • Hwy 10 km 131.2 ITH Gunghi Creek – complete concrete arch bridge-culvert construction. • Hwy 10 all 19 bridge-culverts – Galvanization repairs by the Inuvik to Tuk Highway contractor.
Various Bridges Program – Design and Construction	• Mackenzie Valley Winter Road km 687.2 Smith Creek - bridge replacement. • Hwy 3 km 24.4 Deh Cho Bridge • Light fixtures to be replaced with lower energy LED lights which also meet migratory bird requirements.



2021/22 Planned Highway & Roadwork

Bridge-Culverts	Work
Various Bridges Program – Design and Construction	- Hwy 3 km 24.4 Deh Cho Bridge - Erosion protection along old North ferry access road, and site grading on old ferry landing sites. - Pier Bent welding repairs. - Hwy 7 various Erosion Control – rip-rap production for placement at 8 bridge sites. - Hwy 10 km 8.4 Bridge #8 – additional remediation to bridge headslopes due to continuous slumping.
Jean Marie River Bridge - Design	Hwy 1 km 411.2. Bridge Rehabilitation.
Hodgson Creek Bridge – Pre-Engineering	Mackenzie Valley Winter Road km 691.4. Geotech for new alignment and new bridge location to take place winter 2021 (awarded). RFP for bridge design to follow once results are in.
Oscar Creek Bridge - Construction	Mackenzie Valley Winter Road km 1054 Oscar Creek Bridge - move to new Mackenzie Valley Highway location & install old bridge on new bridge foundation.
Axe Handle Bridge-Culvert – Pre-Engineering	Hwy 1 km 260.9 Axe Handle Creek - Fish Passage Rehab – design.



2021/22 Planned Highway & Roadwork

Bridge-Culverts	Work
Bouvier River Bridge-Culverts – Pre-Engineering	Hwy 1 km 277.5 Bouvier Creek - Fish Passage Rehab – design.
Great Bear River Bridge – Design and Regulatory	Construction to start in 2022.

- 2021-22 Planned highway and roadwork projects are currently in various stages of design, cost estimating and tendering in preparation for the next construction season.



Infrastructure Corridor Projects



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Taltson Hydro Expansion

Taltson Hydro Expansion

- \$18M funded by Crown-Indigenous Relations and Northern Affairs Canada (2019/20 – 2022/23)

Phase 1 - Add 60MW of generation capacity, connect two NWT hydro systems

Phase 2 - Provide clean energy to the Slave Geological Province and resource sector

Phase 3 - Connect the NWT electrical grid to the rest of Canada



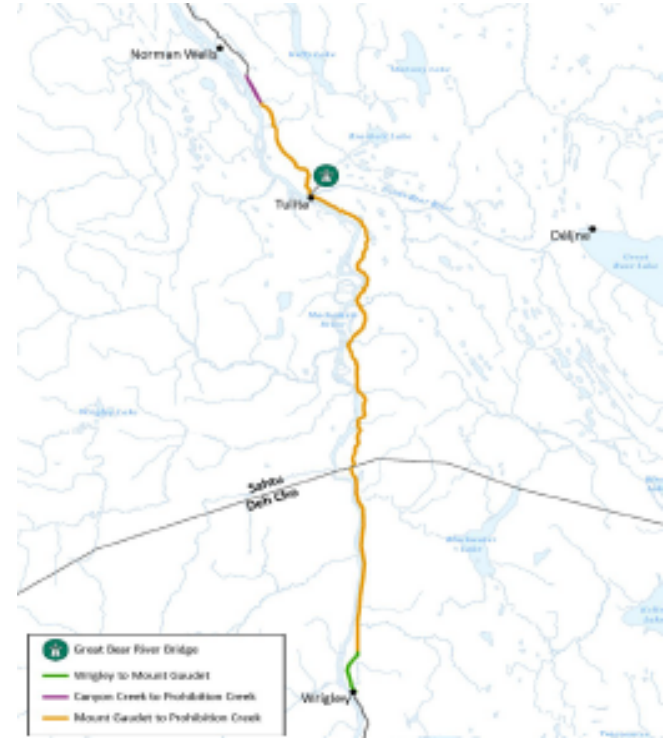
Taltson—Anticipated Timelines and Next Steps

- Completed a second bathymetry survey of Great Slave Lake in summer 2020 and we are currently reviewing the findings.
- Preparation of Request for Proposal to engage Technical Advisor (Engineering / Engagement / Environmental Assessment) planned for release in Q1 2021.
- Business case completion—Q1 2021.
- Technical investigations and tender document preparation— 2021-2023.
- Environmental and regulatory approvals—2022-2024 /25.
- Estimated four-year construction period.



Mackenzie Valley Highway

- Proposed two lane, 321 kilometre gravel highway from Wrigley to Norman Wells.
- \$20 million Canyon Creek Access Road completed November 2018.
- \$140 million funded under National Trade Corridors Fund for:
 - Construction of Great Bear River Bridge
 - Construction of the Mount Gaudet Access Road
 - Environmental Assessment and Planning for Wrigley to Norman Wells portion of MVH
- \$20 million funded under Investing in Canada Infrastructure Plan for construction of Prohibition Creek Access Road



MVH—Anticipated Timelines and Next Steps

- Regulatory approvals for Great Bear River Bridge (2021 - 2022)
- Construction of Great Bear River Bridge (2022 – 2025)
- Construction of Prohibition Creek Access Road (2021 – 2023)
- Regulatory approvals for Mount Gaudet Access Road (2020-2021)
- Construction of Mount Gaudet Access Road (2021 - 2023)
- Completion of Developers Assessment Report for MVH Environmental Assessment (2022)



Slave Geological Province Corridor

- 413 km infrastructure corridor (road, energy and communications) into Slave Geological Province north from Yellowknife.
- \$40 million funded under National Trade Corridors Fund
 - Lockhart All-Season Road (LASR)
 - Environmental and regulatory reviews leading to construction permits
 - Lockhart Lake to Nunavut Border
 - Planning, environmental, and technical studies



SGPC—Anticipated Timelines and Next Steps

- Engagement and consultation with Indigenous governments and organizations – (Ongoing)
- Completion of Project Description Report for LASR – (2021)
- Regulatory approvals for LASR – (2022 – 2024/25)
- Pursue construction funding opportunities for LASR - (Ongoing)



Municipal and Community Affairs/Communities



Government of
Northwest Territories

Community Infrastructure Funding

- Annual Funding:
 - Community Public Infrastructure (CPI) Funding - \$29M – Proposed for 2021/22.
 - Gas Tax (Federal) - \$16M.
- Funds are distributed to communities via a formula and communities manage their own priorities.



Application Based Infrastructure Funding

- Federal Funding:
 - Small Communities Fund (SCF) - \$38.4M.
 - Community Projects have already been approved.
 - Investing in Canada Infrastructure Program (ICIP) - \$120M.
 - Targeted categories are roads, solid waste and cultural spaces.
 - 2nd call for applications closed December 11th, 2020
- Approved projects are listed on Infrastructure Canada's website at:
<https://www.infrastructure.gc.ca/gmap-gcarte/index-eng.html>



NWT Housing Corporation



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Northwest Territories Housing Corporation Investments

Proposed 2021/22 Major Capital Plan (\$10.625 million):

- \$5.0M for 104 major retrofits to existing stock.
- \$5.5M million for 9 Market housing units.
- \$125,000 for vehicles.

Other Planned Investments:

- \$7.8M to support housing partnership projects (Community Housing Support Initiative and National Co-Investment Fund).
- \$7.0M for homeownership repair programs.
- \$5.6M for fuel tank replacements and minor repairs of owned assets.
- \$1.0M for demolitions and hazardous assessments.



Anticipated Tenders



Capital Projects Anticipated to be Tendered in the next 30-90 Days

Project	Dept	Community
School Gym Flooring Renovation	ECE	Tsiigehtchic
Moose Kerr School Windows Replacement	ECE	Aklavik
Aurora College Lighting and Direct Digital Control Upgrade	ECE	Inuvik
Education Complex Heating System Tie-In	ECE	Fort Simpson
Ecole JH Sissons School Commissioning	ECE	Yellowknife
YK1 - Biomass Project	ECE	Yellowknife
School Generator Replacement	ECE	Deline
ENR District Offices	ENR	Inuvik
ENR Ground Upgrade	ENR	Fort Good Hope
ENR District Office	ENR	Norman Wells
Arthur Laing Building Air Handling Unit and Lighting Construction	FIN	Yellowknife
Health Center Flooring Renovation	HSS	Sachs Harbour
Health Centre Lighting and Direct Digital Control Upgrade	HSS	Ulukhaktok
Tanks for Sachs Harbour Airport	INF	Sachs Harbour
Tank Level Remote Monitoring Projects	INF	Paulatuk, Sachs Harbour and Ulukhaktok
Berm Repairs	INF	Tsiigehtchic
Highway and Roadwork	INF	NWT Wide
Highway 8 – Replacement of Highway Maintenance Camp	INF	Fort McPherson
Yellowknife Airport Runway Lighting Upgrades	INF	Yellowknife
Tank Farm Dispenser Upgrade	INF	Wekweeti
Stuart Hodgson Flooring	INF	Yellowknife
Fort Providence Transmission Line	INF	Fort Providence



Capital Projects Anticipated to be Tendered in the next 30-90 Days

Project	Dept	Community
Inuvik Runway Improvements - DMAF	INF	Inuvik
Surface Water Management	INF	Hay River
Runway Sweeper	INF	Fort Simpson
Loader - Airport	INF	Fort Smith
Fuel Delivery Trucks	INF	Deline, Jean Marie River, Paulatuk
Pipeline Stand Replacement	INF	Tulita
Raven Fuel Management System	INF	16 Communities
Increase Fuel Storage Capacity - DMAF	INF	Paulatuk, Sachs Harbour and Ulukhaktok
Dispenser Cabinet upgrade	INF	Wekweeti
Happy Valley Park Shower Building Retrofit	ITI	Inuvik
Gwich'in Park Sports and Recreation Area	ITI	Inuvik
Concession Building - Hay River Park	ITI	Hay River
Reconstruct Trail to Falls - Lady Evelyn Falls Park	ITI	Kakisa
Mission Territorial Park -Mechanical Shop Restoration	ITI	Fort Smith
Mission Territorial Park Long Storage Building	ITI	Fort Smith
Concession Building - Hay River Park (combined with Beach Change Room)	ITI	Hay River
North Slave Correctional Facility Vent and AC Upgrade	JUS	Yellowknife



GNWT Contract Event Opportunities

- The GNWT [Contract Event Opportunities](#) website is an interactive system that allows vendors to download and bid on contracting opportunities online. Vendors can also sign up for notifications of new contracting event opportunities as they arise in specific areas of interest.
- Assistance and advice for using the Contract Event Opportunities website is available through the [GNWT Contract Event Opportunities Help](#) site.
- For assistance with the website, contact: samhelpdesk@gov.nt.ca
- For procurement questions about a specific event, contact: psstenders@gov.nt.ca



Questions?

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