



# TECHNICAL SERVICES AND HOUSING

## PROGRAM SUMMARY

The 2013/14 year has been very busy for all of the twenty PAGC Housing & Technical Services staff members. This office has seven departments and each department is responsible for delivery of services to the First Nations and Communities. There have been continued projects, services, and inspections completed this past year.

## CAPITAL PLANNING

### COMMUNITY DEVELOPMENT STUDIES

Updates are provided for each Community on a five year rotational basis. Annual updates for the capital plans are to be conducted with each community. In the 2015/16 FY it is planned to meet with each Band in early summer to update the five year capital plan in preparation for the fall meetings held with AANDC to prioritize the next fiscal year capital projects.

Community Plan Updates have been completed for Shoal Lake, Hatchet Lake, Sandy Bay, Southend, James Smith, Montreal Lake 106 and 106B, and Fond du Lac. Updates are in progress for Sturgeon Lake, and Red Earth. New requests for updates are planned for this fiscal year in Wahpeton, Black Lake, Deschambault Lake, Pelican Narrows, Sturgeon Weir and Kinoosao. We are awaiting new Terms of Reference from AANDC

### ASSET CONDITION REPORTS

Asset Condition Reports are updated on a 3 year rotational schedule for each Community. Compliance reports are now being conducted as part of the Building Maintenance and Water/Wastewater Trainers and will be submitted September 30th, of each fiscal year.

ACRS updates were completed for the communities of Southend, Sandy Bay, Pelican Narrows, Deschambault Lake, Sturgeon Weir, Kinoosao, Wahpeton and James Smith. In the 2015/16 FY PAGC is participating with AANDC in a pilot project to complete ACRS updates using our own forces. It is expected to update the reports for Wahpeton, Deschambault, Pelican Narrows, Sandy Bay, Sturgeon Weir and Kinoosao.

## ADVISORY SERVICES

Advisory services are provided for each Band or Community for major capital projects and for Band projects by Brian Phaneuf, A.Sc.T. Services in the 2014/15 FY provided include:

### WATER AND SEWER, INFRASTRUCTURE PROJECTS FOR 2014 - 2015

- Design Phase for the Fond Du Lac Water Treatment Plant Expansion and upgrade. Construction phase for the new lagoon is complete and the subdivision expansion is also complete. Construction Phase for First Nations Infrastructure Funding (FNIF) Roads Project. Fuel spill remediation project on-going with interim work in progress and full remediation in the future. Construction phase for new landfill has begun and decommissioning of existing landfill will be completed when the new landfill is on line
- James Smith Water Treatment Plant Upgrade Design was completed in March 2015.
- PBCN Deschambault Lake has Water Treatment Plant study has been completed.
- The Pelican Narrows Landfill is being reviewed for costs and options.
- The Southend Landfill is being reviewed for cost and options.
- Red Earth Natacam Raw Water intake upgrade has been completed. A new intake and raw water storage pond was completed in 2014.

- Carrot River Flood Task Force – the continuous issues of flooding from the Carrot River & a high ground water table continues to be problematic. The Band has been successful in obtaining funding for a comprehensive study for short, intermediate and long term mitigation and is in the process developing the plan
- Water Plant Upgrade designs are in progress for Sturgeon Lake, Hatchet Lake and Montreal Lake.
- Shoal Lake WTP Upgrades are in construction with completion in 2015.

### SCHOOLS PROJECTS 2014 - 2015

- The new Red Earth Elementary School has been completed.
- The Pelican Narrows High School design is in construction and near completion.
- Pelican Narrows Teacherage relocation project is in progress.
- The new school at Deschambault Lake had boilers installed for supplementary heating.
- Hatchet Lake School High School heating system upgrading which is expected to be completed in this fiscal year.
- Black Lake Portable Classrooms are nearing completion.
- Southend School roofing Repairs are presently under review by Region.
- Southend Teacherage Project is in progress.
- Cumberland House School Renovation project is in progress.

### FIRE PROTECTION PROJECTS 2014 - 2015

- Hatchet Lake Fire Protection Project has been completed

### OTHER PROJECTS 2014 - 2015

- ADCFS Group Home located in Black Lake was completed in the spring of 2014
- The Hatchet Lake Propane Farm has received upgrading with work continuing in this fiscal year.

### PROJECT OR CONSTRUCTION MANAGEMENT SERVICES PROVIDED IN THE 2014 -2015

- Athabasca Child and Family Services Group Home.

### CAPITAL PROJECTS 2015-2016

- Black Lake WTP Upgrade and Expansion
- FDL SPS 2 & 4 Upgrades
- Hatchet Lake WTP Upgrades
- James Smith Lagoon Expansion; Road Recoery & Bridge Repairs
- Cumberland House Lagoon; WTP & Wells; School Renovations
- Lac La Ronge –Air Ronge SPS Upgrades
- Stanley Mission WTP Upgrades
- LRR 106A – Well Upgrades & WTP Upgrades
- Montreal Lake WTP Upgrades
- Deschambault Lake WTP Upgrades
- Pelican Narrows SPS & Repairs; Firewall Renovations
- Red Earth Water Supply Study; WTP & SPS Upgrades; Bridge
- Shoal Lake WTP Upgrade
- Sturgeon Lake WTP Upgrade
- Pelican Narrows Teacherages
- Southend Teacherages
- Sucker River Bridge Replacement
- LLR – LRR Bridge & Fire Hall

## EMERGENCY & PROTECTIVE SERVICES

Population growth on First Nation communities continues to see growth in housing and populations. We must ensure First Nations communities are prepared to deal with the Fires and other Emergencies that their fire fighters must deal with. This means the Fire Fighters must be properly trained to ensure the safety of not only the First Nations and Community, but the Fire Fighters themselves. Currently AANDC funding is inadequate to cover the cost of training for Fire Fighters and the PAGC Engineering & Technical Services Department has to obtain the funding for this training from other sources.

Fire inspections must continue to ensure that safety of the buildings and occupants. Inspection requirements for buildings such as the Daycare and Head start buildings are required to release federal funding to First Nation communities. Federal budget cuts have offloaded the larger commercial building fire safety inspections to our branch with

no change in funding. Failure to complete inspections in commercial buildings creates a huge liability issue for host Communities

The number of emergencies First Nations and Communities are enduring continues to rise both in number and severity. Flooding, Forest Fires, Spills and other Emergencies threaten our First Nations and Communities every year and this department must ensure that the First Nations and Communities have the training to mitigate the damages to their Community. AANDC does not fund PAGC for this training and response in these types of Emergencies. We must put pressure on AANDC to fund these services to the Bands

The Fire & Safety Services department has been mandated by the PAGC Chiefs to set up Search and Rescue teams throughout our PAGC area and this process has already started. The Search and Rescue Training has been completed in Red Earth, Shoal Lake, Montreal Lake, Lac La Ronge, Fond du Lac, Wahpeton, Stanley Mission, Hall Lake, Sandy Bay, Pelican Narrows, Sturgeon Lake, James Smith

## HOUSING ADVISORY SERVICES 2014 - 2015

FIRST NATION	SECTION 95 & NEW	RRAP 2014/15	INVENTORY DATABASE	CMHC PCR	BAND UNITS
Black Lake	10	0	0	0	
Cumberland House	6	9	0	29	
Fond du Lac	0	0	0	0	
Hatchet Lake	3	7	0	0	
James Smith	0	9	0	0	
Lac La Ronge	15	17	1463	0	
Montreal Lake	4	4	0	0	
Peter Ballantyne	3	17	0	0	
Red Earth	0	0	0	0	
Shoal Lake	6	0	0	14	
Sturgeon Lake	0	6	0	0	
Wahpeton	0	1	0	10	
Out of Region	28	12	0	2	
Northern Spruce	0	0	0	28	
<b>TOTAL</b>	<b>*75</b>	<b>**82</b>	<b>1463</b>	<b>83</b>	<b>***1000+</b>

\*Total housing units listed but important to note that new units receive up to 6 inspections and renovations average 3 inspections per unit.

\*\*127 units inspected for RRAP with 82 approvals.

\*\*\*Band units column estimated due to too numerous ongoing inspections.

and Little Red. We want to train them to a level where they will eventually become trainers themselves.

PAGC fire and protective services:

- Has collaborated with Saskatoon Fire to develop a training program for home safety surveyors.
- Have been contracted by AANDC to install 10,000 smoke detectors in First Nation Homes throughout the province
- Continue to work with AANDC to sponsor and host the provincial Emergency management forum
- Are working with PAGC Health communication personnel to create home fire safety videos to be posted on You tube
- Have just completed support for the evacuation and repatriation of approximately 15000 people in northern Sask. Due to forest fire threat
- Are working as part of the lead team to develop Emergency Action Plan for PAGC as well as develop the necessary structure for an Emergency Operation Center.

## INFORMATION SYSTEMS

This office can now provide the PAGC First Nations and Communities and their membership with an array of map products suitable for Resources Applications and Community Development, these maps are continually updated throughout the year.

Community Infrastructure & Housing Annual Report has replaced and combined the Capital Asset Inventory System (CAIS), and the Capital Management Database (CMDB) annual reports. As in previous years, our department visits each community to update each report and submit our results by mid-October to AANDC. This information is used to assist the PAGC First Nations in their Operation and Maintenance of Capital Assets. The housing portion gives the community a snapshot of current housing stock and there conditions.

As a member, The Saskatchewan Geospatial Imagery Collaborative (SGIC) is made up of Provincial, Federal, Municipal Governments, Industry, First Nations, Academic and Scientific organizations. This collaborative share the same technology and uses for satellite imagery and aerial photography.

The satellite images are currently available and the air-photos that have been captured to date cover approximately 85% of the Province. Beginning in 2008, this project has been extended until 2016. For more information visit [www.flysask2.ca](http://www.flysask2.ca).

Housing and preliminary building design. A number of communities have been requesting architectural blueprints for new housing and building construction. This service is on a fee for service basis and is completed as time allows.

GPS Surveying and Training continues to be available for our communities when time and personnel allow.

## HOUSING SERVICES

CMHC Inspections: PAGC Housing Services Department signs a yearly fee-for-service contract with CMHC - Canada Mortgage and Housing Corporation on the RRAP - Residential Rehabilitation Assistance Program, Section 95 Subsidized Housing Projects and other existing programs as needed.

AANDC Inspections: For units identified as needing \$5,000 or more repairs as identified through Band Based Capital Work-plans, AANDC requires pre-inspections, progress and final inspections be performed on those housing units. PAGC performs these inspections throughout the year and make recommendations as needed (example: related to health and safety)

Housing Inventory: There are 4462 active units recorded in PAGC's Housing Inventory database. Housing Services visits each unit once every 3 years to provide AANDC and First Nations an update of overall housing conditions, fire safety and demographics such as overcrowding.

## HOUSING TRAINING AND DEVELOPMENT

through CMHC's Aboriginal Capacity Development – Saskatchewan Housing Liaison Committee. First Nations with PTIO – "Plans to Improve Operations" agreements with CMHC are given priority on available training. PTIO agreements are targeted to First Nations on a cyclical basis of close to a third a year.

## HOUSING ADVISORY SERVICES

Provide advice, orientation and training on housing programs and issues, to Chiefs, Councilors, Housing Committees and New Housing Coordinators.

- Provide assistance and advice in housing capital – new & renovations
- Provide assistance and advice on housing policy development
- Provide technical advice on engineering and building design issues
- Provide technical advice in contracting, construction & estimating issues.
- Provide training and advice to First Nation home maintenance staff
- Organize New Home Owner's Workshops
- Provide Building as a System Maintenance Training
- Participate on pre-construction meetings as requested
- Provide advice with Youth Internship Initiative applications
- Ensure inspectors certifications are up to date through required courses
- Organize annual Housing Conferences (as and when feasible).

## CIRCUIT RIDER TRAINING PROGRAM

### FACILITIES MAINTENANCE OPERATIONS

Maintenance plans have been prepared and distributed for each of the nineteen schools: James Smith, Wahpeton, Sturgeon Lake, Little Red River, Montreal Lake, Hatchet Lake, Black Lake, Fond du Lac, Pelican Narrows, Deschambault Lake, South-end, Cumberland House, Shoal Lake and Red Earth.

The Maintenance Training Program is continuing with scheduled site visit training. The Maintenance Workers have done a good job of maintaining the capital asset value of the facilities in the PAGC First Nations Communities.

## WATER & WASTEWATER TRAINERS

The Circuit Rider Training Program has continued with site visit training. Our trainers; Calvin Bird, Stan Merasty and Mervyn Keleman continue to visit the communities on a rotational basis. Maintenance Management Plans have been updated for each of our communities and will be continued to be reviewed with the local operators.

This program will continue to offer CEU training opportunities to help the operators get their CEU credits. CEU training is required in order to re-certify the operators every two years. We are again planning to offer a fall and spring CEU training session.

The Circuit Rider Training Program is continuing with scheduled site visit training. The Water Operators have done a good job of operating the Water and Wastewater Facilities in the PAGC First Nations Communities. Our goal is to have a certified operator at the level of the water plant at every community



LAC LA RONGE BETTER BUILDER TRAINING

## SUMMARY OF PROGRAM ACTIVITIES

- This department offered a Janitorial Training Workshop for the PAGC Communities building maintenance personnel in 2014 and 2015
- Developed maintenance schedules for the schools of the PAGC district
- Provide direct assistance in shut-down and annual maintenance of Boiler heating systems for the schools
- The Circuit Rider Training Program is continuing with scheduled site visits and is always available to assist with operation problems and emergencies
- The Circuit Rider training program is a valuable training tool for maintenance personnel and provides a place to call for help with their facilities
- Training is provided to 12 Bands and 21 communities in the PAGC District as listed in the table below.

## CIRCUIT RIDER TRAINING

FIRST NATION	COMMUNITY
Black Lake Denesuline Nation	Black Lake I.R. 224 & 225
Cumberland House Cree Nation	Cumberland House I.R. 20
Fond du Lac Denesuline Nation	Fond du Lac I.R. 227
Hatchet Lake Denesuline Nation	Hatchet Lake I.R.
James Smith Cree Nation	James Smith I.R. 100
Montreal Lake Cree Nation	Montreal Lake I.R. 106 Paskwawaskihk I.R. 106B
Lac La Ronge Indian Band	LaRonge Stanley Mission Grandmother's Bay Morin lake Sucker River Little Red C & D Kitsakie
Peter Ballantyne Cree Nation	Deschambeault Lake Pelican Narrows I.R. 184B Sandy Bay I.R. Southend I.R. 200 Kinoosao (Thomas Clark) Kiskaciwan Sturgeon Weir I.R. 184F Denare Beach
Red Earth Cree Nation	Red Earth I.R. 29 & 29A
Sturgeon Lake First Nation	Sturgeon Lake I.R. 101
Shoal Lake Cree Nation	Shoal Lake I.R. 28A
Wahpeton Dakota Nation	Wahpeton I.R. 94A

## MAINTENANCE MANAGEMENT PLANS

Maintenance Management Plans have been updated for each of our communities and will be continued to be reviewed with the local Water Waste Water operators and Building Maintenance personnel. At the present time most of the management plans which are in place are part of the Operation and Maintenance Manuals which were provided to the operators at the completion of the Capital Project and subsequently added to as further assets were completed.

We have also provided the operators with a generic Maintenance plan which outlines required activities on a daily, weekly, monthly and annual basis. Recent requests by AANDC for a more proactive maintenance plan have caused us to begin working on a maintenance plan in compliance for these requests. It is our plan to develop a plan more specific to the community infrastructure outlining a more detailed operational chart on which completion dates may be recorded. It is our plan to implement these in our smaller communities first as per the schedule noted below.

### 2012 / 2013

Wahpeton, Sandy Bay, Shoal Lake, James Smith, Hall Lake, Sturgeon Landing, Sturgeon Lake, Montreal Lake, Deschambault Lake, Grandmother's Bay, Cumberland House, Little Red, Sucker River.

### 2013 / 2014

Pelican Narrows, South End, Hatchet Lake, Fond Du Lac, Black Lake, Stanley Mission, Lac La Ronge.

It is also our intention to work with the Band personnel to implement a strategy for completing ACRS deficiencies as part of the maintenance plans.

At the present time copies of all the O & M Manuals and copies of the record drawings for PAGC community capital projects are maintained at the offices of PAGC Engineering and Technical Services. They are referenced on an on-going basis during the course of assisting Band maintenance and water waste water personnel in completing repairs to their respective systems. Copies are also provided to the First Nation communities at the completion of the capital projects.