

# RESILIENCY THROUGH INNOVATION

Piers Island Volunteer Fire Dept.

## ABOUT US

PIVFD is a small volunteer fire department on a Gulf Island. We have no BC Ferry service and vehicles can only come to the island via a barge. Mutual Aid is not a luxury we have. We are however, surrounded by the sea and have several fresh water sources. Our goal is to utilize those water sources in the best ways possible and share what we learn.



## PROBLEMS

### WATER

Traditional firefighting involves hydrants and fire engines.

We have a 50,000 gallon water tower and 22 standpipes, but we also have other fresh water sources and unlimited seawater.

### FIREFIGHTERS

As a small island we have a limited volunteer pool. Much of our population comes to Piers to vacation or retire. That means older volunteers. Our population in the winter months is about 125 including the children.

In the summer our population can increase to 400, but it's difficult to train weekenders and holidayers as firefighters so we focus on FireSmart and fire prevention.



# SOLUTIONS

increase resiliency

UTILIZE  
SEA WATER

Find equipment that allows you to use sea water safely without damaging pumps.

PORTABLE

Find equipment that is lightweight, easy to use and versatile. Our firefighter average age is close to 60.

STAND  
ALONE  
EQUIPMENT

As you increase the number of ways you can fight a fire and reduce the number of people you need to do it, you increase your resiliency.



# PRODUCT SOLUTIONS



## UNIQUE

We contacted Bears paw ProtectaPump for their drafting Separators which separates damaging gravel, sand & seaweed.



## FIRST TO MARKET

Bears paw were just introducing their Water Canons to the market. We trial tested and purchased two.



## TESTED

We purchased an AKRON ground monitor – a big stream monitor that can be set and left.

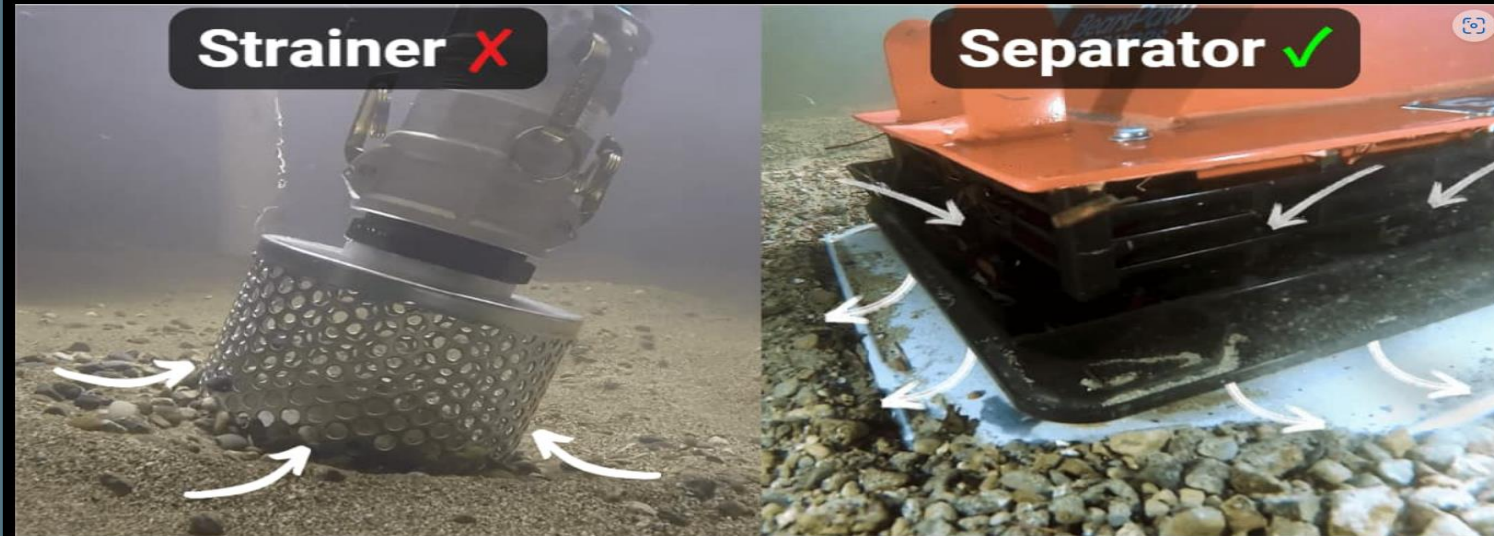


## VERSATILITY

We tested this equipment with all our portable pumps with great results.

## Safe Pumping from All Sources

Note: In process of renaming "Fire Ceptor" to "Separators".



### Safe Shallow Drafting in Natural Water Sources

BEARSPAW  
PROTECTAPUMP

The Separators prevent damaging debris from entering the pump. Before using these we constantly had seaweed coming through to the nozzle. The nozzle would block completely. This protects the pump while drafting in both fresh water areas and seawater.





# WATER CANNONS



## VERSATILITY

We ran the water cannons with every portable pump we had. Even with the smallest pump, we could still get a good stream.

The big advantage on the cannons is the flexibility for the area of coverage. There is the long stream and then an intermittent fine spray for added fireline protection. The spray oscillates back and forth between your desired area of coverage.

Purchased from BearsPaw  
Protectapump –a BC Company







## AKRON GROUND MONITOR

The ground monitor is able to supply a big stream and can be run off a large portable pump or an engine with perhaps drafting ability.

## LESS STAFFING

Once set up, you don't need to have two firefighters attending the hose line. It is a fixed but adjustable stream direction.

## DESIGN

Easy to use.



## THE COST OF RESILIENCY

\$9967

Ground monitor &  
2 water cannons

\$10442

Mark 3 Fire pump  
& forestry connections

\$7910

Protectapump Separators  
incl. modifications for  
SuperChief pump



We are grateful for the grant funding  
received from UBCM





## SHARING

BEARSPAW PROTECTAPUMP LTD.

[www.protectapump.com](http://www.protectapump.com)

Email: [info@ProtectaPump.com](mailto:info@ProtectaPump.com)

778-404-7385

Water Cannons & Separators

CANADIAN SAFETY EQUIPMENT

[www.cdnsafety.com](http://www.cdnsafety.com)

1-800-265-0182

WASP WILDFIRE

[www.waspwildfire.com](http://www.waspwildfire.com)

1-855-889-4697

Mark-3 Watson Pump

BROGAN FIRE AND SAFETY

[www.brogansafety.com](http://www.brogansafety.com)

250-287-2186

Akron monitor & Akron nozzle



WE HOPE OUR PROJECTS WORKING TOWARDS RESILIENCY  
WILL HELP YOUR COMMUNITY AS WELL.





THANK YOU

Piers Island Volunteer Fire Dept

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