

INNOVATION IN RESTORATION

James Proudfoot

IRRIGATION PROBLEMS & SOLUTIONS



NINJA TOOL #133: WATER





Hope for rain

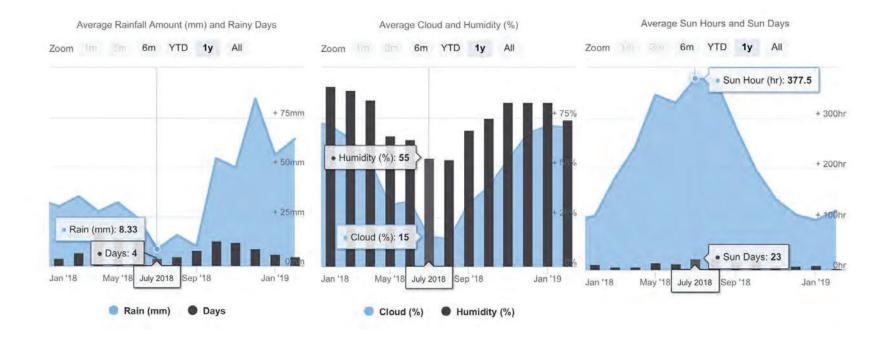
IRRIGATION OPTIONS



Hire a water truck



Install a gas pump and irrigation system



USING NATURE





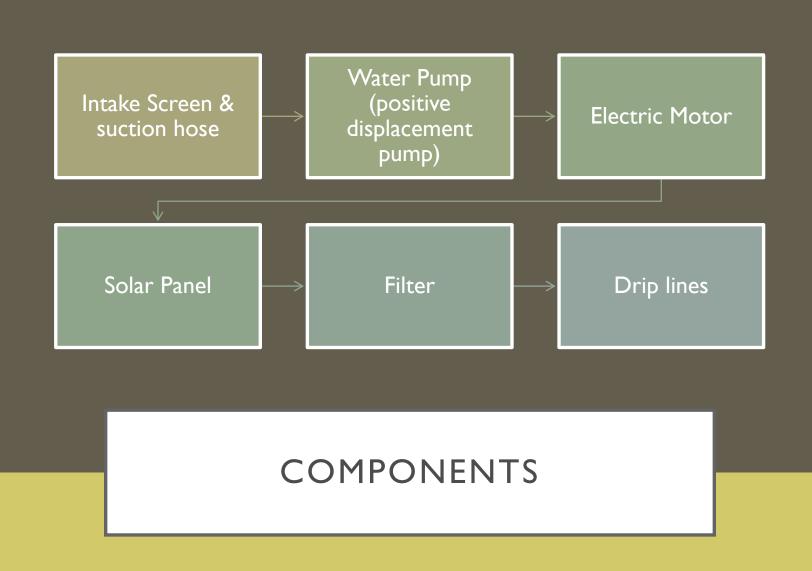
GAS PUMP

OUR IRRIGATION SOLUTION

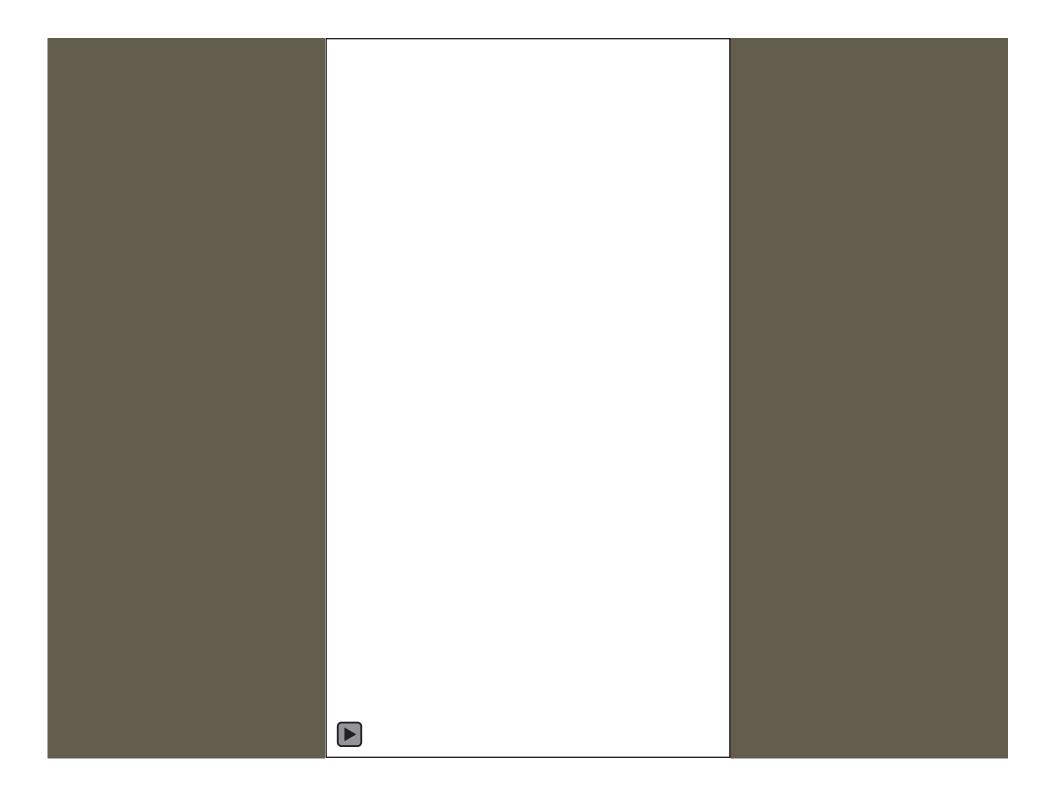




SOLAR IRRIGATION

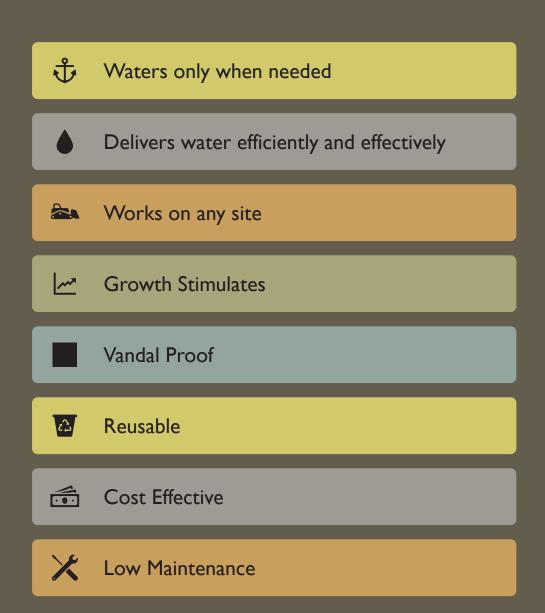


A QUICK LOOK AT OUR SOLAR PUMP IN THE FIELD



WHAT ARE THE BENEFITS OF OUR SYSTEM?

LEAF NINJA'S SOLAR IRRIGATION SYSTEM

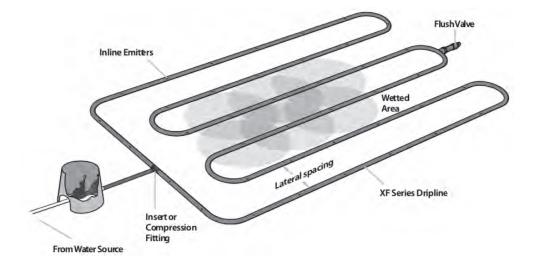




EFFICIENT DELIVERY



EFFECTIVE DELIVERY







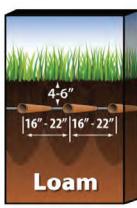
WATER REPELLENCE

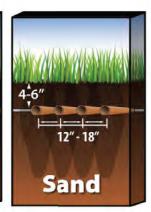
EFFECTIVE DELIVERY

DETERMINE SOIL TYPE

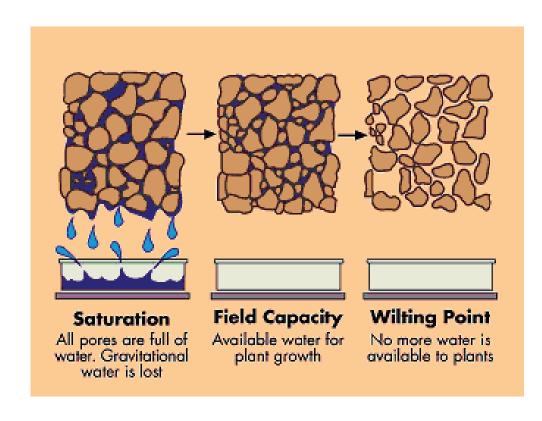
WHAT IS YOUR SOIL TYPE?







EFFECTIVE DELIVERY



ADAPTABLE TO MOST SITES

One acre with low elevation is ideal site

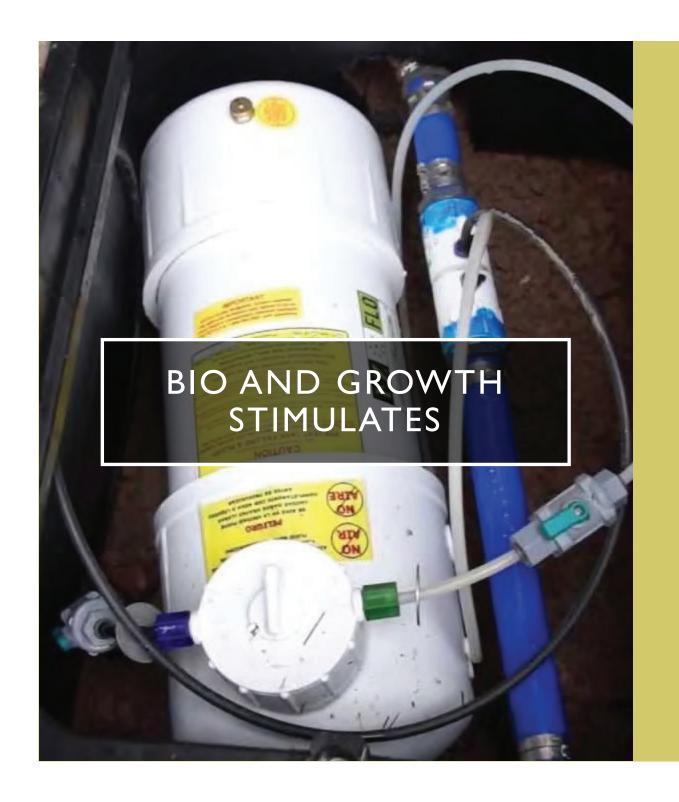
Large site – add zones or multiple pumps

High elevation site – pumps in series

No water source site – pump from tanks

Remote sites – lightweight

Shaded sites – split solar from pump



Fertilizers
Mycorrhizae
Root Hormones

VANDAL RESISTANT

GPS Tracked

Steel Enclosed

Locked

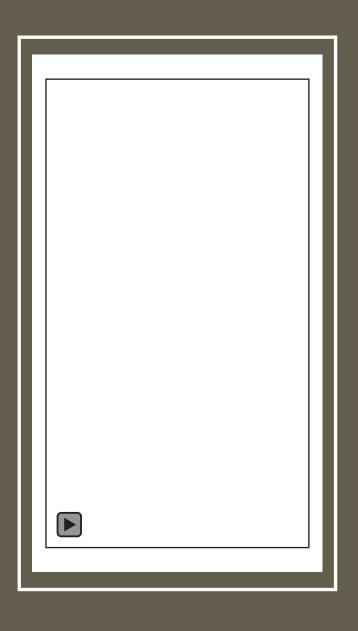
Anchored

Fenced

Tempered Solar Panel

Internal Bolts





REUSABLE

- ✓ Easy to clean
- ✓ Modular design
- ✓ Simple to service
- ✓ Roll up drip line



No expenses for labour

COST EFFECTIVE



No fuel or electricity required



No transportation costs if drawing from natural water source

WHAT ARE THE MAINTENANCE REQUIREMENTS?

MAINTENANCE



INTAKE SCREEN CAN CLOG



SUCTION HOSE CAN LOOSE PRIME



FILTER CAN CLOG



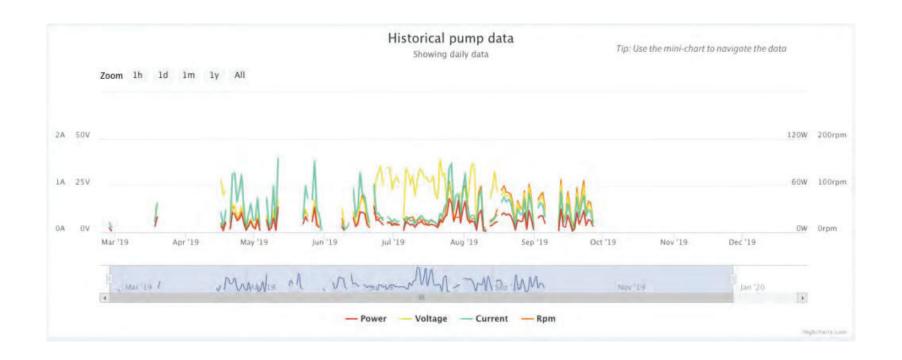
PANELS CAN GET DIRTY



LINES CAN GET DAMAGED







REAL TIME PUMP DATA

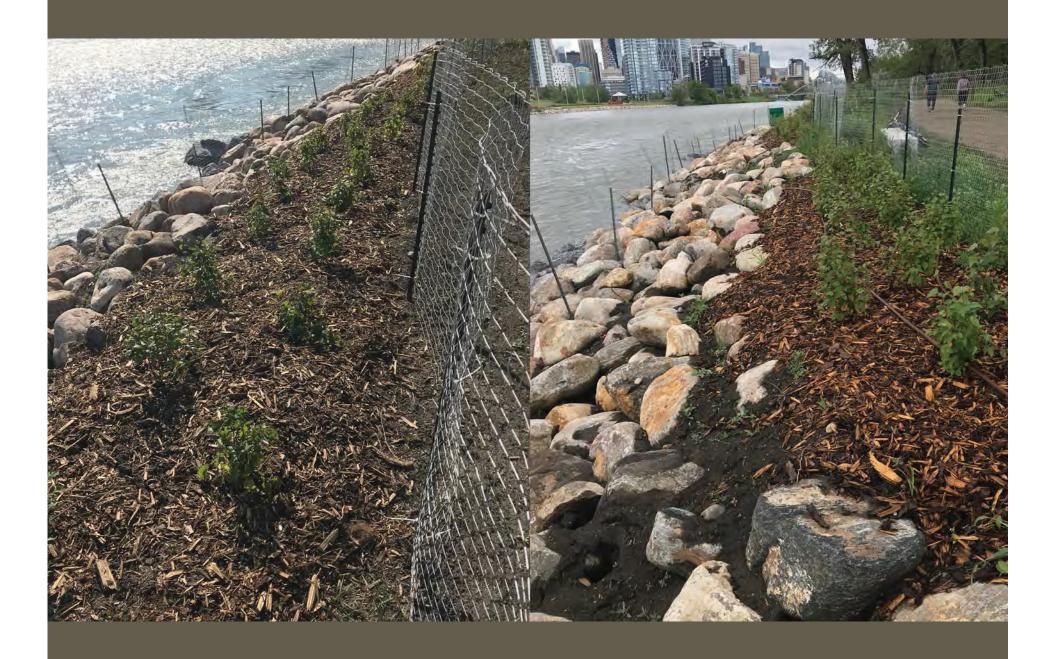
INFORMATION WE CAN LEARN ABOUT THE SYSTEM



PUMP STATISTICS

SUCCESSFUL PROJECTS









CONTINUAL IMPROVEMENTS

WITH CONTINUOUS CHALLENGES COMES CONTINUOUS INGENUITY



THANK YOU



QUESTIONS

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