

REID & HARRISON™

# YARDMASTER® COMPANY PROFILE



**PROVEN  
EFFLUENT  
PRODUCTS**



**AN EFFLUENT  
SYSTEM  
THAT'S RIGHT  
FOR YOU**



**EFFLUENT  
SYSTEM  
MANAGEMENT**



**A STRONG  
DEALER  
NETWORK**

REID &  
HARRISON™

**Yardmaster®**

Pumps & Systems





# OUR HISTORY

Reid & Harrison (1980) Ltd have been in the business of successfully pumping liquid / solid slurries for over 60 years.

Bob Dalley took over directorship of Reid & Harrison (1980) Ltd after 20 years working for the company, including a large input into the development of the original Yardmaster pump, and still maintains an active role in the company. He was joined by his son, Seaton Dalley as co-director in 1993.

Along with 35 staff, many of whom have in excess of 10 years experience with Reid & Harrison, they have pushed the Yardmaster product to the leading position in the New Zealand market. As requirements have altered in the industry, Reid & Harrison (1980) Ltd have continued to develop the Yardmaster range to stay at the top.

In 2013 the business had outgrown the Peria road site. A large modern industrial complex was sought and acquired at 1 Waihou Street which has good road access and continues the high Matamata profile previously enjoyed.



Reid and Harrison moved onto site in February 2014 and now has much improved physical space and materials handling capability to increase the service offering to their customers. The

site is situated on a 1.66 hectare of land. This is covered by around 7,700 square meters of building and includes: Full stainless manufacturing capability including brake press and guillotine; State of the art test pool with full automation to plot pump flow curves accurately; Drive through stores with a 8 tonne gantry; Fabrication and repairs area with three 5 tonne overhead gantries. Welding and metal forming

equipment; Machine shop with 3 CNC lathes and 1CNC mill; Modern offices with conference and meeting rooms.

As part of the strategy to grow the service and capabilities, R&H have set up a nationwide Certified Dealer Network. With access to Yardmaster product training, technical support and product information, The Certified Dealers have the might of the full Yardmaster organisation supporting them.

R&H also in 2014 acquired a stainless steel business (formerly ISD) that included intellectual property for Separation products. These separators have complemented the existing product range enabling full system design and supply. This business has been rebranded Reid & Harrison Stainless and mainly supplies both food grade as well as Dairy Effluent Separation products.

In 2016, R&H acquired the local Certified Dealer business of Environmental Technologies Ltd. which included a pond, herd home pumping capability as well as trenching. The business is also Dairy NZ certified for Farm Dairy Effluent design. This business has been rebranded Reid & Harrison Services and now focuses on the wider Matamata/Walton area servicing all the local customer needs from effluent system maintenance , to full installations.

Also in 2016, a strategic supply agreement was entered with TAG I.T. for a combined development and launch of a Supersmart effluent monitoring and control system under the Yardmaster HALO brand. This cloud based system enables full control of pump speed and thus flow and pressures to match the varying requirements in a farm situation.

In March 2019, Reid & Harrison bought the Morrinsville based Pond Pumping business from Hitech. With two complete pond pumping systems and a further 4 staff to operate these, they combined with existing Matamata Pond pumping System and two tanking units R&H already had.

The Yardmaster products are exported with main markets being Australia, Uruguay, Ireland, UK and Chile.

## The Benefits of Reid & Harrison Yardmaster

- Yardmaster pumps have for over 60 years proven their reliability.
- Yardmaster manufacture 99% of their products in New Zealand in their Matamata factory.
- Yardmaster has a comprehensive range of products that we can combine to meet FDE system design accreditation.
- Yardmaster provides local support via our nationwide Certified Dealer Network which in-turn is supported from the product experts at our Matamata factory.
- Yardmaster has a controlled Test facility to ensure our products work.
- Yardmaster products are designed in NZ for NZ conditions.

## Reid & Harrison Group Businesses

REID & HARRISON | **Yardmaster®**  
Pumps & Systems

REID & HARRISON | **Services**  
& Effluent Solutions

REID & HARRISON | **Stainless**  
Stainless Engineering

**RHP**  
REID & HARRISON PERFORMANCE



Keith Cooke -  
Chief Executive

## SYSTEM DESIGN

# A SYSTEM THAT'S RIGHT FOR YOU



Every farm is unique. Reliable effluent systems that work every day in the real world need experience, expertise and an integrated design approach.

We are one of only a few companies accredited to design dairy effluent systems that meet industry FDES standards and codes of practice. We supply and install systems and equipment, and provide full after sales service and support.

## WHAT DOES THE GREEN TICK MEAN FOR YOU?

The green tick means your system design can be completed to best industry practises. Companies with the Green tick have been assessed for their competency and skills in:

- Regulation and legislation
- Effluent block allocation
- Integrated management systems
- Soils and climate considerations
- Calculating pond storage volume
- Hydraulic design of irrigation systems.

Ensure systems achieve dairy industry and wider communities expectations for the land application of dairy effluent. On completion you will have documentation to show system design calculations to show compliance. You have our organisations ongoing support to give you peace of mind.

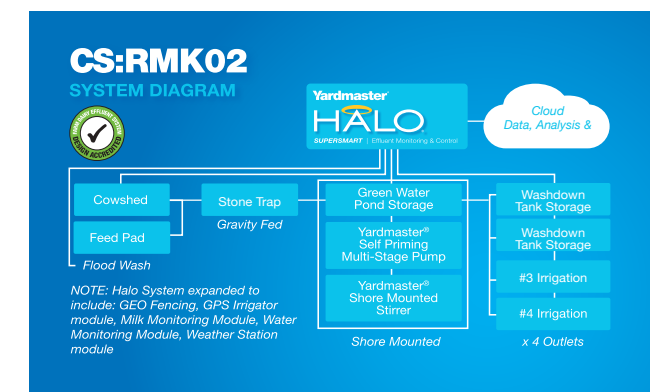
## FOR 'PEACE OF MIND' GET YOUR EFFLUENT SYSTEM W.O.F



We arrange a W.O.F Assessor, certified by Dairy NZ, to assess the health of your effluent system.

A 3-4 hour assessment covers the farm's effluent consents and permitted rules, the storage capacity, nutrient loadings, soil risk, irrigator performance, off-pasture infrastructure and general health and safety requirements.

Flow Diagram of a Shore Mounted Effluent System



## CASE STUDIES

Visit our website to view case studies with various system configurations designed to suit specific land type and demand.





EFFLUENT PUMPS,  
STIRRERS & SEPARATORS

# TRUSTED & PROVEN PRODUCTS

Trusted by generations of New Zealand farmers, our equipment is purpose designed for effluent, and performs reliably where others can't.

## EFFLUENT PUMPS

### FOR 'PROCESSED' IRRIGATION



#### Multi-stage Vertical

##### IDEAL FOR

- Floating Frames
- High efficiency /pressure
- Green water /Small solids

#### Multi-stage Horizontal

##### IDEAL FOR

- Flood feed applications
- High efficiency /pressure
- Green water /Small solids

#### Self-Priming Multi-stage

##### IDEAL FOR

- Shore Mounting
- High efficiency /pressure
- Green water /Small solids

#### Progressive Cavity (PC)

##### IDEAL FOR

- Constant flow
- High efficiency
- Green water /small solids

### FOR IRRIGATION & TRANSFER



#### Horizontal Pump

##### IDEAL FOR

- Flood feed applications
- High speed irrigation or transfer pump
- Green water with solids

#### Vertical Pump

##### IDEAL FOR

- Floating Frames
- High speed irrigation or transfer pump
- Green water with solids

#### Extender Pump

##### IDEAL FOR

- Deep Sumps
- High speed irrigation or transfer pump
- Green water with solids

### FOR TRANSFER / VOLUME TRANSFER



#### Trough Pump

##### IDEAL FOR

- Emptying of troughs
- Water with solids

#### PTO Pump

##### IDEAL FOR

- Volume transfer
- Green water with solids

#### High Volume Pump

##### IDEAL FOR

- Volume transfer
- Green water with solids

#### Heavy Duty Pump

##### IDEAL FOR

- Volume transfer
- Liquid with solids
- Industrial applications

### SUBMERSIBLE

Imported.  
Trialled & Tested in NZ



#### Submersible Pump

##### IDEAL FOR

- Feeding mechanical separators
- Transfer pump
- Green water with solids

## STIRRERS

### FOR TANKS, SUMPS, PONDS



#### Vertical Stirrer

##### IDEAL FOR

- Floating Frame mounting
- Smaller ponds or round tanks

#### Right Angle Stirrer

##### IDEAL FOR

- Floating Frame mounting
- Large ponds
- Strong agitation

#### Shore Mounted Stirrer

##### IDEAL FOR

- Shore Mounting
- Large ponds
- Safe access

### SUBMERSIBLE

Imported.  
Trialled & Tested in NZ



#### Submersible Stirrer

##### IDEAL FOR

- Small sumps or tanks
- Easy access when fitted with a Yardmaster

## SEPARATORS



#### Inclined Screw Separator (YS)

##### IDEAL FOR

- Entry level separator
- Easiest installation in existing effluent systems
- Handles most duties
- May be used as primary separator

#### Rotary Drum Separator (RDS)

##### IDEAL FOR

- Low power requirements
- Moderate dry solids
- Low wear & maintenance

#### Static Screen Separator (SS)

##### IDEAL FOR

- No power
- No moving parts
- Can be used as primary separator

#### Centrifler (C)

##### IDEAL FOR

- Fine particles
- Secondary separator
- Minimises pond settlement

## EFFLUENT MANAGEMENT



#### Yardmaster HALO SUPERSMART Monitoring & Control

##### IDEAL FOR

- Flow control for varying applications
- Control of irrigation rates
- Control by cell

## ACCESSORIES



### INCLUDING

- Floating Frames, Lifting Frames & Platforms
- Trough Pump
- Inline Cutter & Blades
- Automatic Greaser
- Float Control Switch
- Headworks
- Wash Down System
- & MORE

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Pumps & Systems

[www.yardmaster.co.nz](http://www.yardmaster.co.nz)



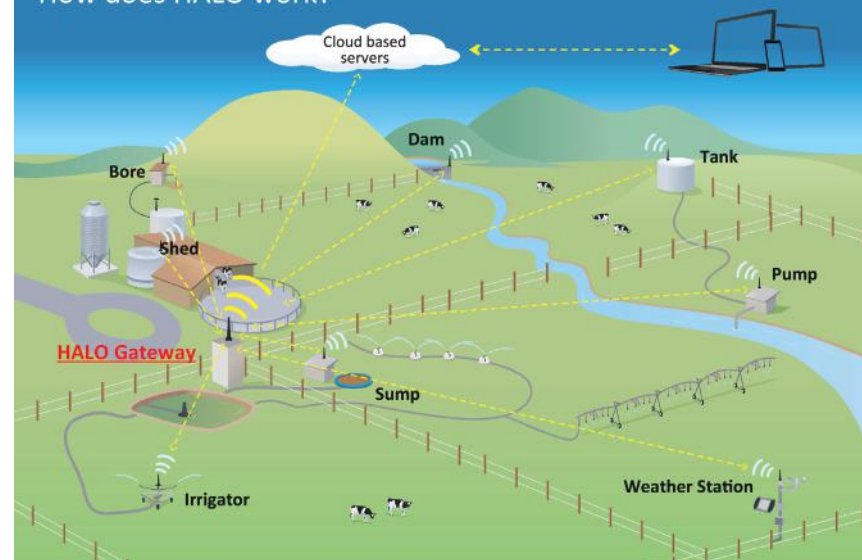
EFFLUENT  
MANAGEMENT

# EFFLUENT SYSTEM MANAGEMENT



YARDMASTER® HALO® provides next generation monitoring and control of your Dairy Effluent system. The SUPERSMART Monitoring & Control platform can be tailored to match the requirements of your farm and you can choose from a range of additional options.

How does HALO work?



## THE HALO® DASHBOARD

The HALO system comes with a dashboard, accessed by web connection. This therefore can be viewed from any smart device.



**Compliance:** With unlimited cloud-based storage, all your effluent data is ready to be shared directly with regional council if needed.

## EXPAND SYSTEM TO INCLUDE OTHER HALO® MODULES

HALO® can be expanded to other modules. With your existing Effluent system gateway, you can also link Water, Milk, Weather, Silos and other sensors by a radio link so all information needed is gathered and stored.

## HOW THE HALO SYSTEM WORKS

Each HALO system starts with a Gateway base station, incorporating a GSM data connection. This GSM connection communicates all on-farm data directly to our cloud based servers. Software and system updates are taken care of via this link also.

To include multiple data points across the farm we have created a low cost, high performance radio platform. HALO transmits via a mesh of repeating radio nodes each of which have the ability to record and transmit data as required.



CERTIFIED  
DEALER NETWORK

# A STRONG DEALER NETWORK



## NORTHLAND

Advance Dairy & Pumps Ltd  
Arnold Franks Ltd  
McQuinn Pumps  
Northland Farm Water Solutions Ltd

## AUCKLAND

Advance Dairy & Pump Ltd  
Rural Supplies Pukekohe (2000)

## BAY OF PLENTY

ABC Milking Solutions Ltd  
King Farm Services Ltd  
Milking & Water Systems Ltd

## WAIKATO

Ecostream  
Hutchies  
Ngatea Milking Machines  
Paeroa Farm Services  
Professional Farm Services  
Pump & Electrical Services Ltd  
Pumpn  
Qubik  
Reid & Harrison Services  
Ross Pumps & Filtration  
Specialists Ltd  
South Waikato Water Solutions  
Tanner Industries Ltd  
Waikato Pump Services Ltd  
Williams Irrigation

## GISBORNE & HAWKES BAY

Harris Pumps & Filtration  
Irrigation Services Ltd  
Isaac's Pumping & Electrical

## TARANAKI

Coastal Agri Services  
Dairymaster Milking Systems NZ Ltd  
Dairypro 2010  
Elite Farm Solutions

Hawera Rewinds Ltd  
Hooper Engineering  
Hunts Farm Services  
Moa Milking & Pumping  
Vickers Farm & Dairy Limited

## MANAWATU-WANGANUI & WELLINGTON

Cotter & Stevens  
Dannervirke Dairy Supplies  
Davidson Engineering  
Farm Supplies Central Ltd  
Irrigation Services  
(Wairarapa) Ltd  
Lifestyle & Dairy  
Pumps  
MacDougalls  
Agri Services  
S&J Bromley  
Engineering Ltd

## TASMAN, NELSON & MARLBOROUGH

Dairy & Pumps Ltd  
Dairy Tech South  
Nind Dairy Services  
Progressive Engineering Southland  
Southland Farm Services  
Waterforce

## WEST COAST

Jeff Evans  
Pump Services West Coast Ltd

## CANTERBURY

Hall Machinery Ltd  
Kirk Irrigation  
Leo Dunne  
PGG Wrightson  
Plucks Engineering Ltd  
Pump Services 2010 Ltd  
Rainer Irrigation Ltd  
Think Water Leeston  
Water Force

## OTAGO

Brown Brothers Engineers  
Clutha Chain Mesh Products  
Laser Electrical Balclutha  
PGG Wrightson  
Water Force Ltd

## SOUTHLAND

Dairy & Pumps Ltd  
Dairy Tech South  
Nind Dairy Services  
Progressive Engineering Southland  
Southland Farm Services  
Waterforce

## INTERNATIONAL

AUSTRALIA  
IRELAND  
URUGUAY  
CHILE

Local support  
wherever you are,  
backed up with  
strong design and  
manufacturing  
expertise.

[www.yardmaster.co.nz](http://www.yardmaster.co.nz)



