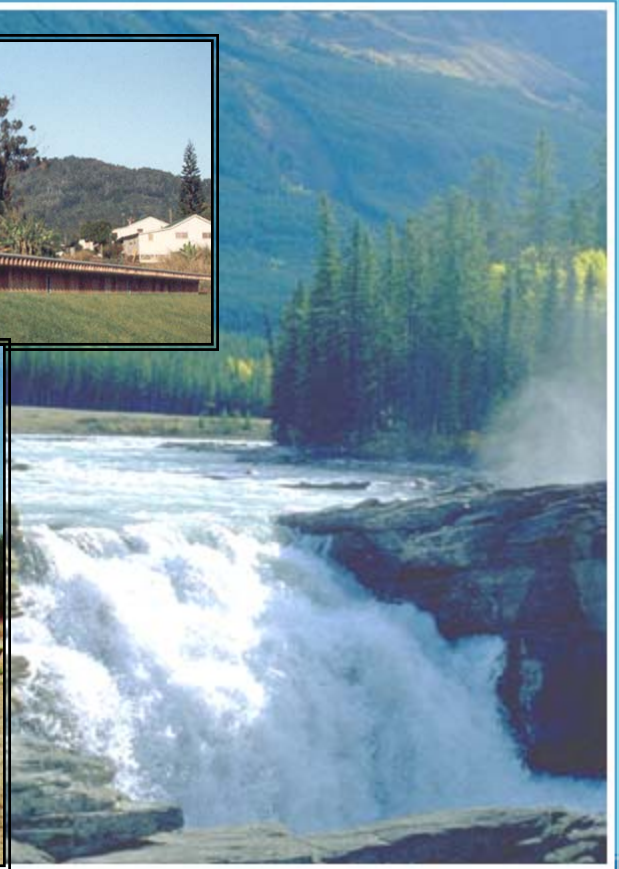


This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



**NOW YOU CAN HAVE
RECLAIMED
CLEAR WATER
FOR RECYCLING**



spec

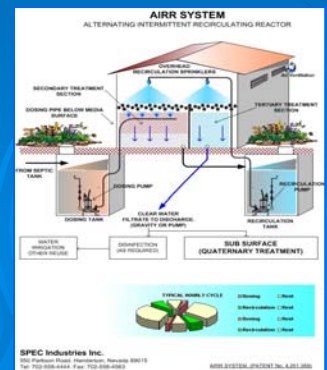
Industries Inc.

550 Parkson Road. Henderson, Nevada 89011

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Website: www.specind.biz

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WHAT IS THE EARTH
LACKING?

GOOD WATER

IS THERE A SOLUTION?

YES

RECLAMATION OF DOMESTIC
POLLUTED WATER

TECHNOLOGIES ARE AVAILABLE.

MAKE A CHOICE THAT FITS
YOUR REQUIREMENTS:

PRIMARY, SECONDARY OR
TERTIARY TREATMENT

AIRR TERTIARY WATER RECLAMATION

AIRR Water Reclamation provides Quality Water for People's Beneficial Uses.

REALITY! Start being Green in plumbing and re-use. If Reclamation Water meets EPA's safe standards to swim in it as rivers, streams and lakes, then we should be using the AIRR Clear Water (10 times better than EPA standards) discharge in toilets, laundry and showers.

AIRR Water Reclamation enhances the Environment.

AIRR Water Reclamation IS The Solution to the Domestic Wastewater Pollution Problem.

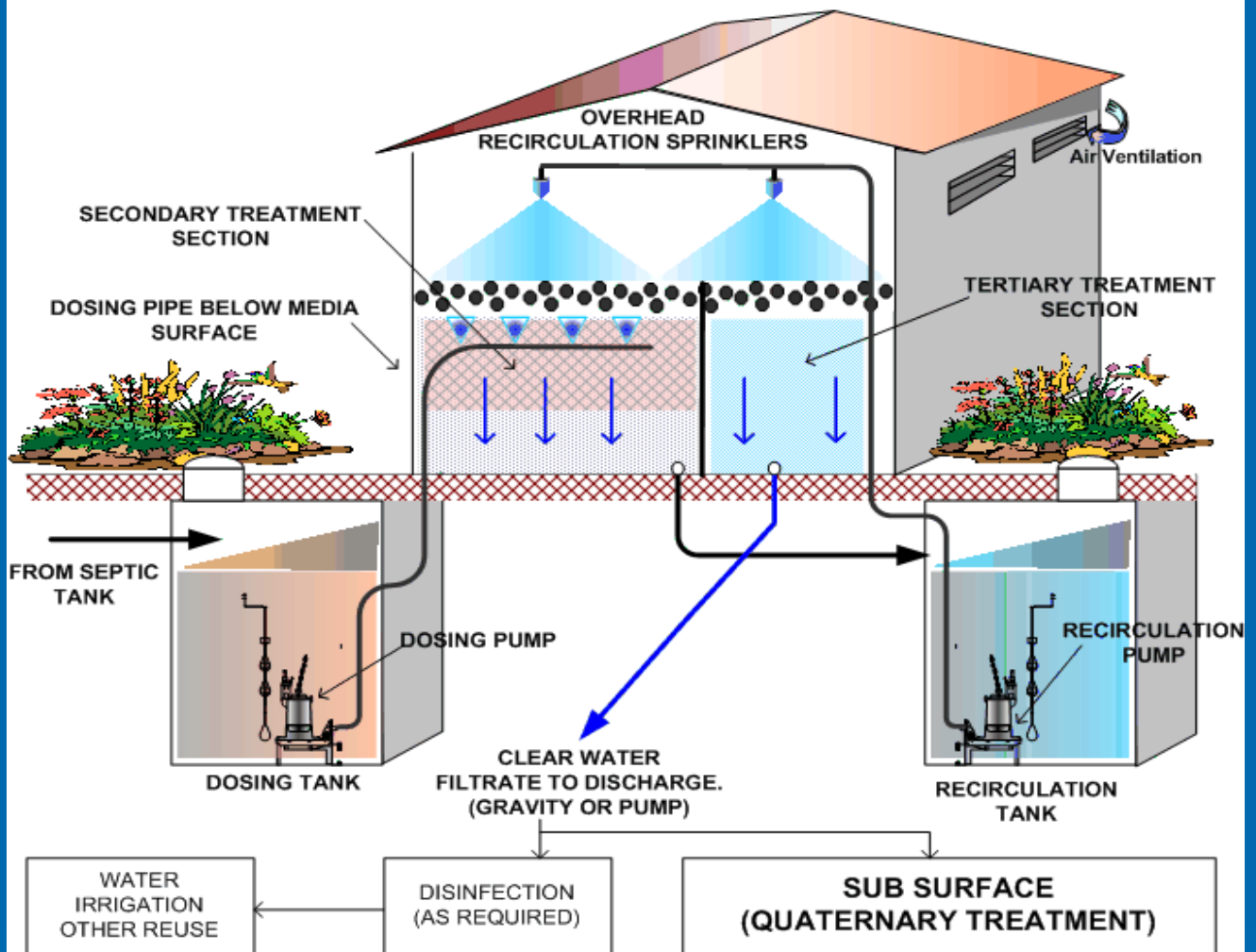
Domestic Waste Water Pollution Solutions

Quality Water Recovered
By Biological Action
Economically
With Long Lasting Facilities that
Require very little
Operation and Maintenance.
Ideal for Single Family Homes,
Villages and expanding Cities
with increasing populations in all
climatic conditions – desert, tropical
temperate and arctic.



AIRR SYSTEM

ALTERNATING INTERMITTENT RECIRCULATING REACTOR



TYPICAL HOURLY CYCLE



- Dosing □ Rest
- Recirculation □ Rest
- Dosing □ Rest
- Recirculation □ Rest

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AIRR SYSTEM. (PATENT No. 4,251,359)

AVERAGE WATER QUALITY OF AIRR RECLAIMED DISCHARGED WATER

- BOD 2.4* Biochemical Oxygen Demand 5 Day
- SS 2.0* Suspended Solids
- FCU 17.7 ~ 18** Fecal Coliform Units
- "N" < 10 Nitrate
- DO 8.3 ~ 9*** Dissolved Oxygen
- TURBIDITY 1.3* Turbidity Units

DISINFECTION OPTION IF REQUIRED BY:

* arithmetic mean mg/l

** geometric mean FCU

*** arithmetic average

***OZONE**

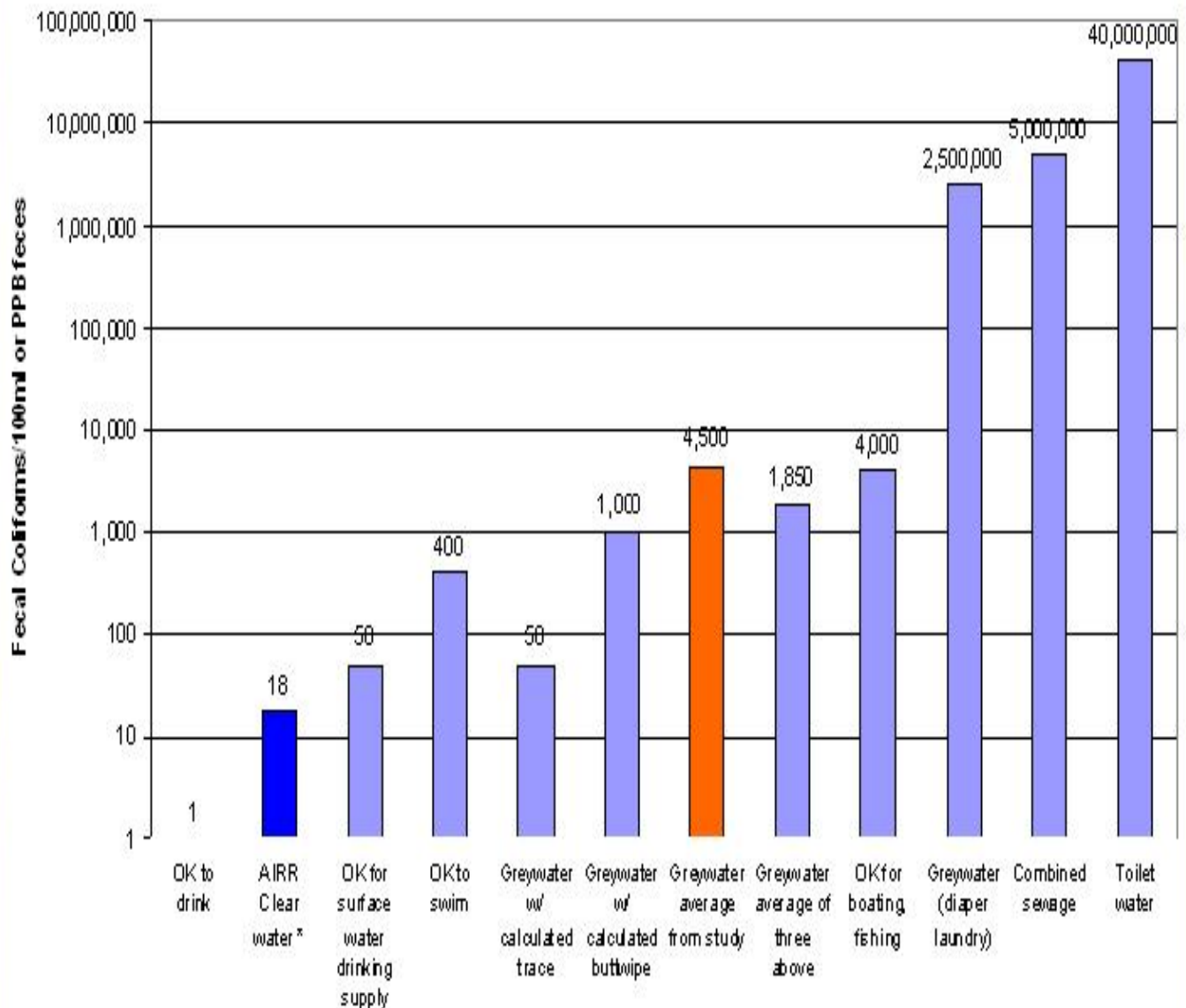
***UV (ULTRAVIOLET)**

***BLEACH (CHLORINE)**



Chart-Log Scale

STATE OF ARIZONA. HEALTH DEPARTMENT Fecal Levels Chart-Log Scale



* Added by SPEC Industries Inc. to the State of Arizona Fecal Levels Chart.

STANDARD FEATURES of a GOOD WATER RECLAMATION FACILITY

- ◆ No offensive odor.
- ◆ No chemicals.
- ◆ Low construction cost. Local materials and labor.
- ◆ Exterior of structure can blend with local architecture.
- ◆ Construction of facilities can be above ground, below ground or partly above and below ground. Some facilities have patios, parking lots and basketball courts on them.
- ◆ Re-cycling the discharge for re-use, in irrigation, green areas, ponds, rivers, wetlands, playgrounds, factories, double plumbing, etc.
- ◆ Re-cycling the discharge back to be processed by the potable water system as this water is generally better than water from lakes and streams.

PONDS USED FOR IRRIGATION SINCE 1983



IRRIGATION - Crops, Livestock, Green Belts, Playfields.

PONDS – Wetland Enhancement, Fish Farms & Fire Storage

GOLF COURSES - Irrigation, Landscaping

SKI-RESORTS - Snow Making

RE-USE - Double Plumbing in Houses, Factories, Processes, etc.

REJUVENATION of failed drain fields, seepage pits, etc.

NPDES DISCHARGE PERMITS

TRUE COSTS OF ANY SYSTEM

ITEMS TO EVALUATE

- RECOVERY OF WATER – for re-use to lower the cost of potable water
- COST OF ENGINEERING AND DESIGN
- COST OF CONSTRUCTION
 - Components and parts
 - Labor
 - Collection system
- LONG TERM OPERATION AND MAINTENANCE (O&M) COSTS
 - Electricity – As little as 1 Kwh processes 1,045 gallons of influent
 - Labor
 - Chemicals (if required)
 - Component replacements
- SYSTEM LIFE EXPECTANCY – (50 Years)
- QUALITY OF DISCHARGE - meeting today's and future requirements
- ANTICIPATED FUTURE EXPANSION – modular and expandable

AIRR SYSTEM

RECIRCULATION
TANK

AIRR FACILITIES

DISCHARGE
OPTIONS:

SUBSURFACE

IRRIGATION

DOSING TANK

LAGOON

FROM SEPTIC
TANK



CLARK COUNTY, NV.

INSTALLED OCT. 2004



COUNTY FACILITY

SPEC Industries, Inc.



National and International

2006 QUART AVERAGES (JUNE, JULY, AUGUST)

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HENDERSON, NEVADA 89015 USA
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WEBSITE: WWW.SPECIND.BIZ
EMAIL: SALES@SPECIND.BIZ

	<u>INFLUENT</u>	<u>EFFLUENT</u>
BOD	1008	9.4
T.S.S.	1127	ND
" N "		5.96

SPRING MOUNTAIN YOUTH CAMP

DESIGN FLOW: 12,000 GALLONS PER DAY
ELEVATION : 8,400 FEET

AVERAGE APPROXIMATE TEMPERATURES:
JULY= 70 DEGREES JANUARY= 10 DEGREES

TIME TO CONSTRUCT AND PLACE IN OPERATION: 30 DAYS

START OF OPERATION: OCTOBER 2004

INSPECTIONS: ONE (1) INSPECTION PER MONTH / INCLUDING SAMPLE TEST



WASTEWATER SPEC NRF SPEC CLEAR WATER TAP WATER



2006 QUART AVERAGES

<u>INFLUENT</u>			<u>EFFLUENT</u>		
	<u>BOD</u>	<u>TSS</u>	<u>BOD</u>	<u>TSS</u>	<u>" N "</u>
JUNE	915	60	N.D.	N.D.	8.28
JULY	1018	1252	10.00	N.D.	3.18
AUG	1090	2070	18.20	N.D.	6.43
INDEPENDENT TEST RESULTS: (SILVER STATE ANALYTICAL LABRATORIES)					
		<u>AVERAGE</u>			
	1008	1127	9.4	N.D.	5.96

INTERESTING NOTES:

A lightening strike during winter storm blew out the camps transformer and back up generators. When the electrical power was restored, the AIRR Wastewater Recovery Facility started operating As designed and processed the stored influent and went back to normal operation without maintenance personnel making any adjustments because of the overload from the electrical power outage.

1991 Installation - Hawaii



Clear Water
Discharge

PHILLIPINES

2001 Installation



Tanks
Underground

Parking on top of AIRR Facility



Installed 1984



PUERTO RICO

UNDERGROUND



**No1 AIRR Facility Under the
Shed's Concrete Floor**

CENTRAL, UTAH

INSTALLED AUG. 2002



SINGLE FAMILY UNIT

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National and International

RE-CAP OF AIRR BIOLOGICAL RECLAMATION TECHNOLOGY CLEAR WATER ADVANTAGES

- RECOVERS WATER FOR RE-USE
- ENVIRONMENTALLY SAFE
- STOPS WATER POLLUTION
- DESIGNED AND ADAPTED TO ALL ENVIRONMENTS
- ECONOMICAL AND FAST TO CONSTRUCT
- LOW MAINTENANCE AND OPERATING COSTS
- ELECTRICAL CONSUMPTION IS APPROXIMATELY 1,045 GALLONS PER KWH.
- MODULAR IN DESIGN FOR LARGE COMMUNITIES AND VILLAGES TO SINGLE FAMILY HOMES

CONCLUSION

AIRR WATER RECLAMATION TECHNOLOGY
can solve domestic wastewater pollution
problems economically and efficiently.

Because the AIRR process is very simple
(not high tech) highly trained personnel are not
required, local people are used for
inspections.

***The AIRR system is the solution to providing
low cost facilities with a high quality clear
water discharge for re-use.***

For Information contact:

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