

Near-zero nitrate. Whole-home delivery.

Silver Standard + NIKOS Cabinet RO

A nitrate-focused package for the first two Morrow County homes, backed by onsite first-install support and a three-year treatment-equipment warranty.

2 homes

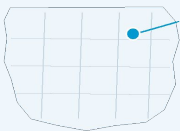
FIRST DEPLOYMENT

3 years

TOTAL WARRANTY

Onsite

FIRST INSTALLS



MORROW COUNTY, OREGON

First two household deployments

NITRATE-FIRST • WHOLE-HOME • LOCALLY
INSTALLED



Nitrate first. Verified at the home.

Other contaminant reduction is an added benefit; nitrate is the project priority.

THE PROJECT'S GUIDING PRIORITY

**“Nitrate is the
issue...
that is the mandate.”**

Jared Tesch
June 15 project discussion

01 **Treat the nitrate load**

Pretreat incoming well water, then polish through NIKOS RO.

02 **Deliver throughout the home**

Store treated water and supply household pressure through a separate booster.

03 **Verify the outcome**

Check treated-water nitrate after commissioning and during ongoing service.

For isolated domestic-well homes, alongside the Consortium's broader infrastructure work.

One treatment path—from well to home

The added TDS pre-filter is integrated inside NIKOS; no separate exterior treatment stage is added.

FROM
WELL



1 Silver Standard

Nitrate resin + salt tank



2 NIKOS Cabinet RO

Internal TDS pre-filter +
existing filtration and
RO



3 450-gallon tank

Treated-water storage



TO HOME



4 Pressure pump

Treated water to the
home

Added feed protection—without removing any NIKOS stage.

Silver Standard leads nitrate treatment; the added internal filter helps condition the NIKOS feedwater.

BEFORE THE CABINET

Silver Standard

Nitrate-selective resin lowers the nitrate load before RO.

Salt/brine restores resin capacity during regeneration.



INSIDE THE NIKOS CABINET

Added TDS pre-filter

Intended to help manage dissolved-solids / salt load before RO.

REPLACED ANNUALLY

Existing filtration and RO retained

All existing NIKOS stages remain in place for final purification.

EXISTING NIKOS STAGES RETAINED

Near-zero nitrate remains the treatment target, with output checked after commissioning.

Inside the Prefab: Installed Package

The treatment path translated into one compact, protected site enclosure.

Illustrative only - final site equipment and layout are selected by the Consortium / installer.



Protected equipment package

A protected utility enclosure with the Silver Standard nitrate resin system, NIKOS Cabinet RO, treated-water storage and house-pressure pump.

Treatment sequence

Well water -> Silver Standard -> NIKOS Cabinet with internal TDS pre-filter + RO -> 450-gal treated tank -> pump -> home.

Planning note

This is not a construction drawing. IPW provides treatment units and first-install support; the Consortium coordinates site infrastructure.

Board takeaway: compact, protected equipment—installed by the Consortium’s selected plumbers with IPW onsite for the first installs.

Clear roles for a smooth first deployment

IPW supplies the treatment package and first-install support; the Consortium coordinates local site infrastructure and installation.

IPW PROVIDES

Equipment + product support

Treatment equipment

Silver Standard resin vessel + salt tank; NIKOS with the added internal pre-filter.

Included support

First two years of NIKOS replacements; setup guidance; first-install onsite training.

Warranty

Two manufacturer years plus one additional IPW year.

CONSORTIUM COORDINATES

Site equipment + installation

Local installer team

Plumbers and contractors already selected through the Consortium's relationships.

Site equipment

Prefab, slab, treated-water tank, pressure pump and exterior reject/brine tanks.

Connections & approvals

Well/home piping, waste routing, electrical, site work and local coordination.

IPW pricing covers the treatment package. Site infrastructure—including reject/reuse tanks—is Consortium/installer supplied.

Recommended compact site package

A 6 × 10 ft insulated enclosure is the planning target; final site design remains with the Consortium's installer.



6 × 10 ft

INSULATED ENCLOSURE

Slab, wide access door, light, ventilation and basic freeze protection.

450 gallons

TREATED-WATER STORAGE

Potable tank on a load-rated base. Actual tank shape sets the space required.

Variable speed

HOUSE-PRESSURE PUMP

After the treated tank. Selected for household peak flow and pressure.

\$7,500 per household treatment package

One equipment price, two years of included NIKOS replacements, and a clear Year 3 service path.

IPW TREATMENT PACKAGE

\$7,500

per household

First two homes: \$15,000 total

Silver Standard nitrate resin pretreatment
+ NIKOS Cabinet RO
+ added internal TDS pre-filter

WHAT IS INCLUDED

Years 1–2 NIKOS replacement packs included

3 years Treatment-equipment warranty

First installs IPW onsite support + plumber training

SITE INFRASTRUCTURE

Consortium / installer supplied

- Prefab / slab
- 450-gallon treated-water tank
- Pressure pump
- Exterior reject / brine tanks
- Local plumbing, electrical and site work

Equipment price is not turnkey site cost

MONTHLY

Salt check / top-off

6 MONTHS

NIKOS main media

YEARLY

Added filter + RO

2 YEARS

Full nitrate resin swap

Three years of coverage. IPW onsite for the first installs.

The Consortium's plumbers install; IPW assists with setup, commissioning, and training.

TOTAL TREATMENT-EQUIPMENT WARRANTY

3 years

2 manufacturer years

+ 1 additional IPW year

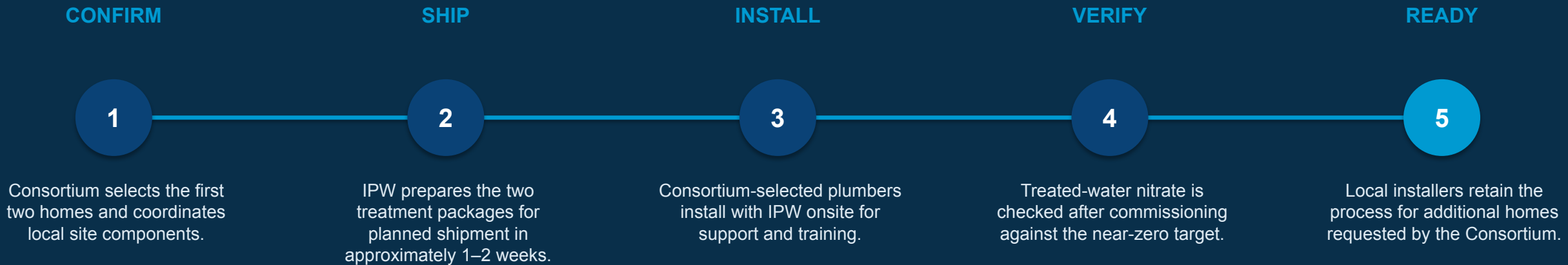
Onsite for the first installations

IPW assists and trains the Consortium's plumbers at the first installations.

- 1 Set up** Layout, connections and commissioning.
- 2 Train** Salt/resin care, NIKOS service and waste routing.
- 3 Support** Technical questions, replacements and future installs.

First two homes: from site selection to verified output

A simple first-install sequence designed to leave the Consortium's local plumbing team ready for subsequent homes.



FIRST 2 HOMES → VERIFY → TRAIN LOCAL INSTALLERS → READY FOR ADDITIONAL HOMES AS REQUESTED

An interim drinking-water option while homes wait

For households awaiting installation or funding—not a replacement for the whole-home system.



NO PLUMBING

NO ELECTRICITY

94.4%

Reported nitrate reduction
in IPW testing

\$219.99

Per-home interim package

Approximately one year for a family of five

IPW household-package estimate; actual duration depends on use and supplied replacement cassettes.

Confirm treated-water nitrate at deployment as part of the interim-use protocol.

READY FOR THE FIRST TWO HOMES

Ready now. Built to be repeatable.

The Consortium determines where the program goes next. IPW is ready to supply the treatment package, support the first installations, and stay available as additional homes are requested.

1–2 weeks

PLANNED SHIP READINESS

Near-zero

NITRATE TARGET

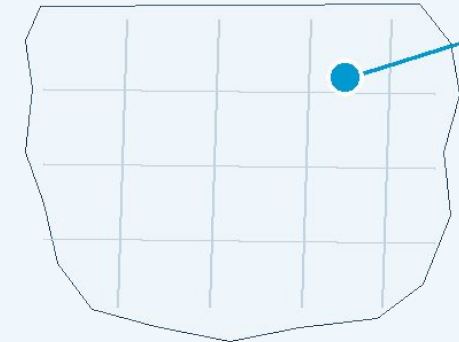
3 years

TOTAL WARRANTY

Onsite

FIRST-INSTALL TRAINING

Coordinate sites → ship → install together → verify treated nitrate



MORROW COUNTY, OREGON

First two household deployments

NITRATE-FIRST • WHOLE-HOME

NIKOS: component-level service schedule

Component service intervals and annual replacement-pack pricing are shown separately.

COMPONENT	INTERVAL	ACTION
Added internal TDS pre-filter	Yearly	Replace added internal filter; retain all other stages.
Reusable stainless mesh pre-filter	Every 3 months	Remove, clean, inspect and reinstall.
Main media / PAC / PFAS (if fitted)	Every 6 months	Replace media; shorten interval if feedwater requires.
RO membranes	Yearly	Replace and check production, pressure and treated output.
Long-life pre-filter	About every 2 years	Replace, or sooner if performance requires.
Drain / reject-line check	During service	Confirm RO reject and brine lines stay separate and clear.
System inspection	Monthly	Check leaks, pressures, waste lines, power and tank.
Nitrate / water-quality checks	At start + periodic	Verify treated output and record results.
Years 1–2: NIKOS replacement packs included. Year 3 onward: \$1,200/year. Service intervals above still apply.		

How resin regeneration and NIKOS feed protection work

Salt regenerates the nitrate resin; the added TDS pre-filter is integrated inside NIKOS.

Silver Standard nitrate resin

Chloride-form anion exchange retains nitrate from the incoming water.

Salt/brine regenerates the resin. The captured nitrate leaves in the regeneration waste stream.

Monthly: check/top off salt. Every 2 years: full nitrate-resin swap.

Inside the NIKOS cabinet

The added TDS pre-filter occupies an available first/feed-stage position.

Purpose: help manage TDS / salt load before RO. Existing NIKOS stages remain in place.

Annual filter change; a serviceable multi-year platform.

Site specifications and known equipment dimensions

Planning specifications only; final enclosure, tank, pump, and construction details remain with the Consortium’s installer.

ENCLOSURE

6 × 10 ft planning target

About 8 ft interior height; wide access sized to the selected tank. Insulation, basic freeze protection, summer ventilation and lighting. Slab/base and anchoring sized for the tank and site loads.

TREATED-WATER TANK

Approximately 450 gallons

Potable-water storage; vent, inlet/outlet, overflow and drain. Planning allowance only: 48–52 in diameter × 70–75 in high. Water alone weighs about 3,750 lb at 450 gallons.

PRESSURE PUMP

After the treated-water tank

115V variable-speed constant-pressure type; dry-run protection. Potable-water compatible; plumber selects the final model. Size for fixtures, elevation, pipe losses and target PSI.

Household demand basis: up to 145,000 gal/year; IPW planning allowance: 150,000 gal/year.

IPW EQUIPMENT DIMENSIONS

NIKOS cabinet

21 × 16 × 60 in

Resin machine

27 × 27 × 145 cm

Salt tank

40 × 40 × 90 cm

Wastewater reuse: contain first, qualify second

Planning framework for Consortium evaluation; any reuse or land application requires testing and applicable approval.

NIKOS OUTLET

RO concentrate / reject

Potential reuse candidate after water-quality testing and a use-specific review.

RESIN CONTROL-VALVE DRAIN

Regeneration brine

Contains regeneration salt and retained nitrate. Keep it in separate containment.

01 Characterize

Nitrate-N, TDS/EC, sodium, chloride, SAR, boron and pH.

03 Count nutrients

Credit nitrate toward crop nitrogen; avoid excess nitrogen and groundwater loading.

02 Match the use

Consider blending and suitable irrigation only if water, soil and crop needs align.

04 Confirm the route

Confirm applicable DEQ/local requirements before land application or discharge.

Clustered homes may share RO-concentrate collection. Keep resin brine separate; retain an approved fallback route.

Exterior reject-water collection options

Both approaches keep NIKOS RO concentrate and Silver Standard regeneration brine in separate, Consortium-supplied tanks.



ABOVE GROUND

Simpler inspection, sampling, pump-out and pilot modifications.



UNDERGROUND

Lower visibility and added site protection, with more excavation and access planning.

Consortium / installer supplies the tanks, containment base or excavation, local plumbing, and final reuse / disposal arrangement.