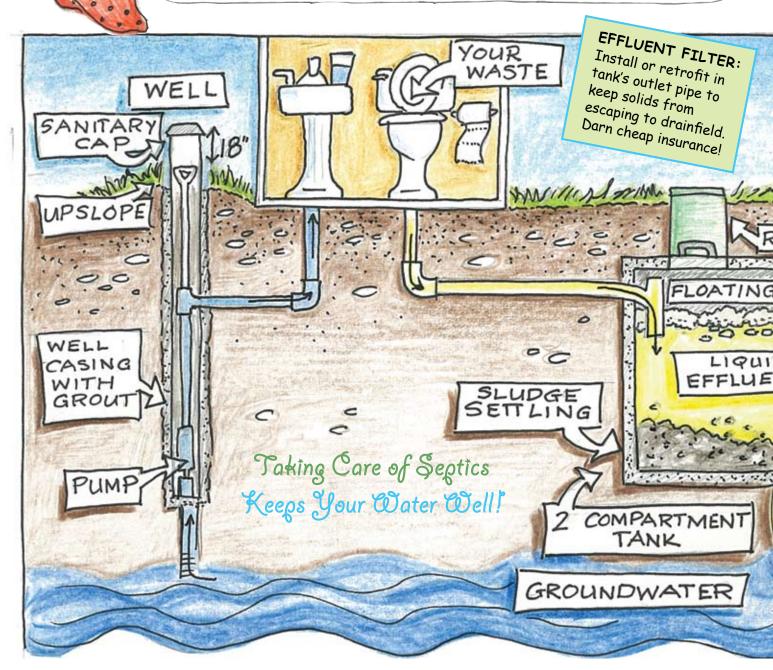


SEPTICS ANATOMY:

HOWDY, PARDNER! IF YOU LIVE IN RURAL MONTANA YER PROB'LY THE PROUD OWNER/OPERATOR OF YOUR VERY OWN UNDERGROUND SEWAGE TREATMENT PLANT & WATER SUPPLY. IT'S YOUR SEPTIC SYSTEM & WELL!! BURIED OUT THERE IN THE BACKYARD.... SOMEWHERE.... AND, BY GOLLY, YOU ARE THE UTILITY COMPANY. SO TREAT YOUR SEPTIC RIGHT & YOUR WATER WELL, BECAUSE YER DRINKIN' IT!



After sludge settles down, liquid effluent (your wastewater) flows out to the drainfield and seeps through drainpipe holes into the soil "filter" where it's purified by microbial critters in soil pores. Percolating down to recharge groundwater, your treated wastewater feeds your well, your neighbors' wells—plus gardens, irrigation, and our lakes & streams! You want it to be good soil, and clean water.

Bacteria in the tank work to break down the sludge layer, but eventually ... ALL TANKS NEED TO BE PUMPED! All tanks. All.

DO YOU KNOW...

WHERE YOUR TANK IS?

HOW BIG IT IS?

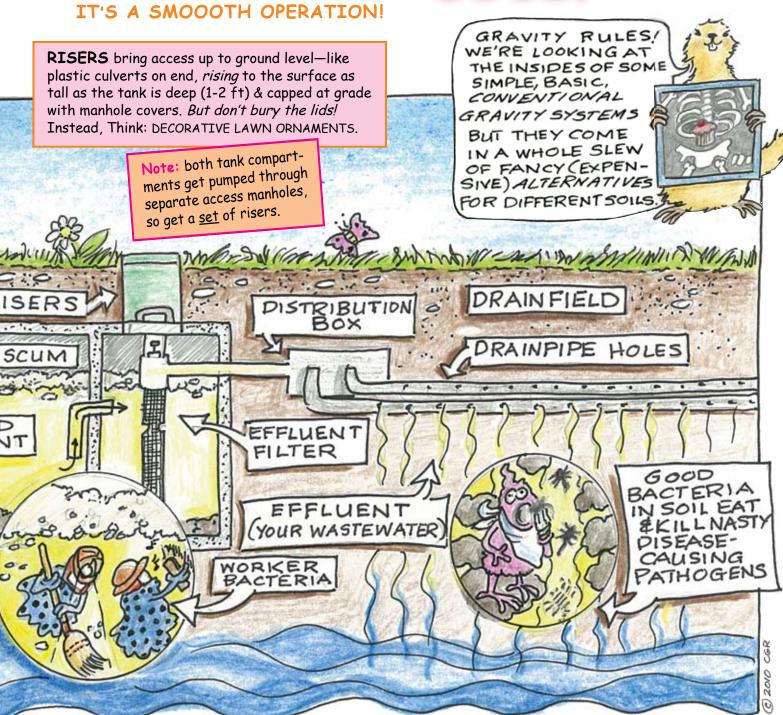
WHEN IT WAS LAST PUMPED?

WHERE YOUR DRAINFIELD IS?

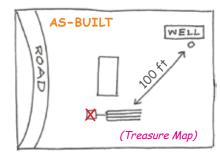
Once you find it, map it!

HOW THEY WORK & WHY THEY FAIL

When Things Are GOOD,



Most counties now keep records of new systems with an AS-BUILT, a drawing of the house footprint & property lines in relation to the septic and well—as it was built! Ask the county for yours, or draw one yourself!



or the Downright UGLY is all about:

How you take care of it, &

How you live with it.

Follow us in the Pore of Discovery to explore how to protect your well & septic—& how to discover signs of trouble!

Doesn't matter where you live, in what

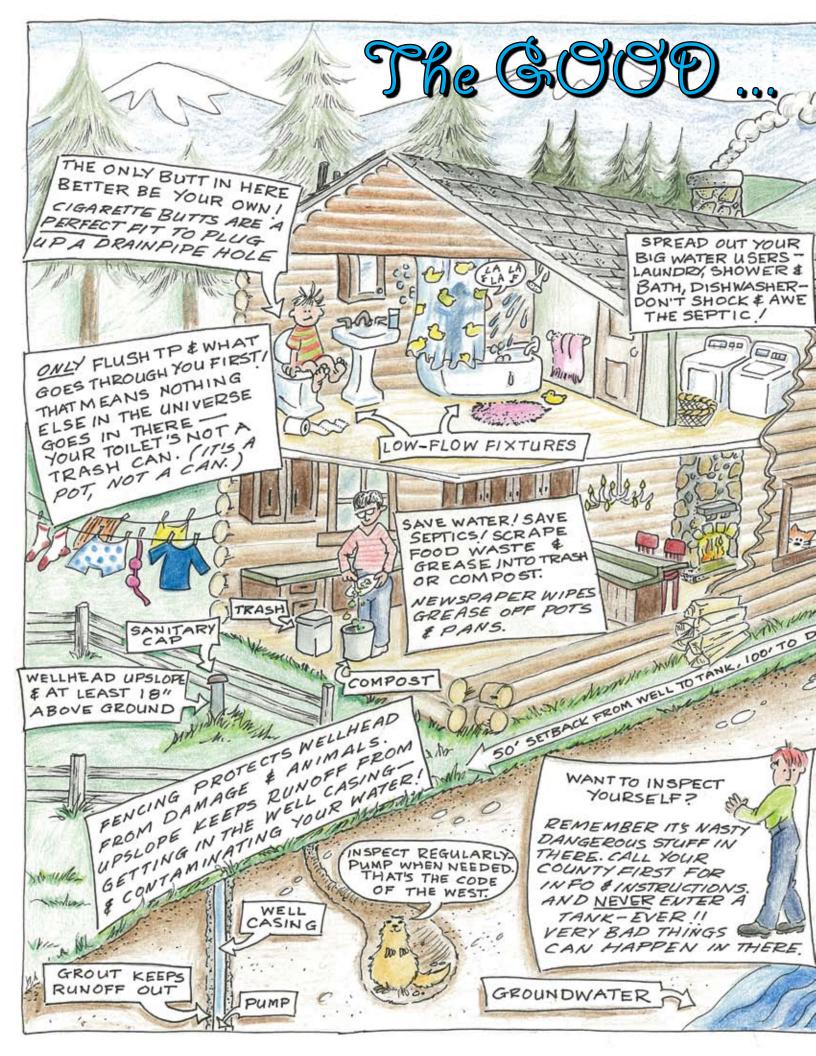
kind of house, how big it is—or if your

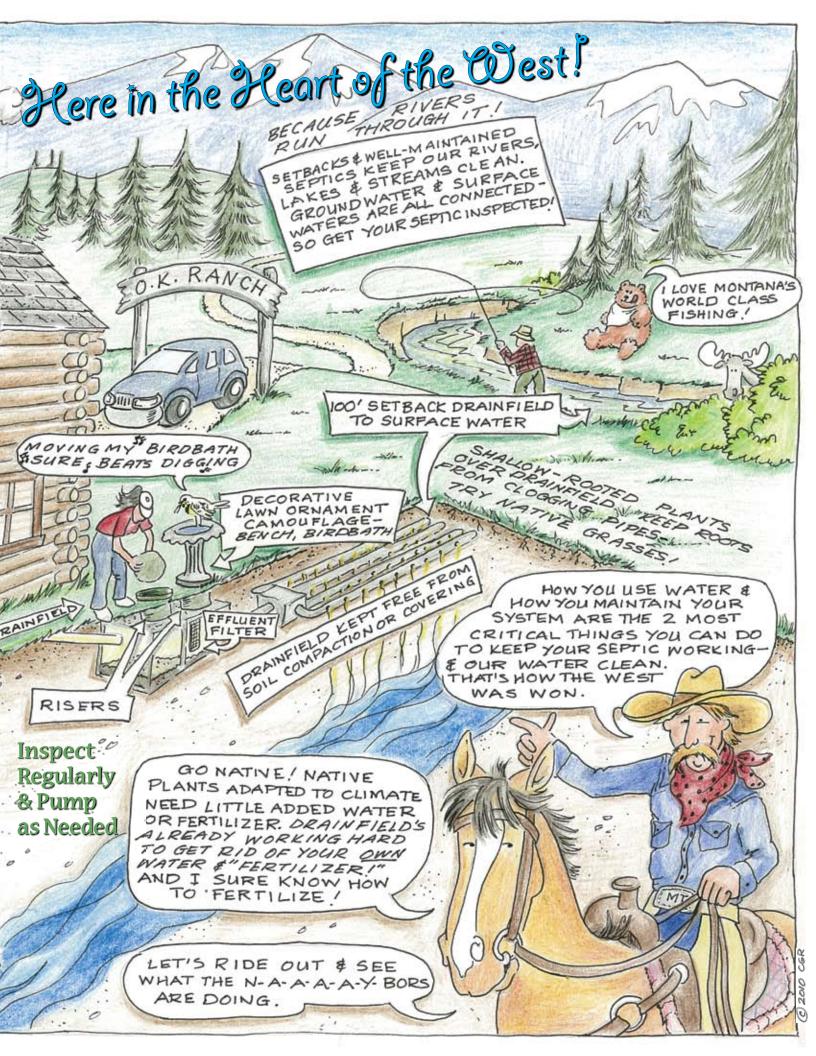
granddaddy homesteaded the place or

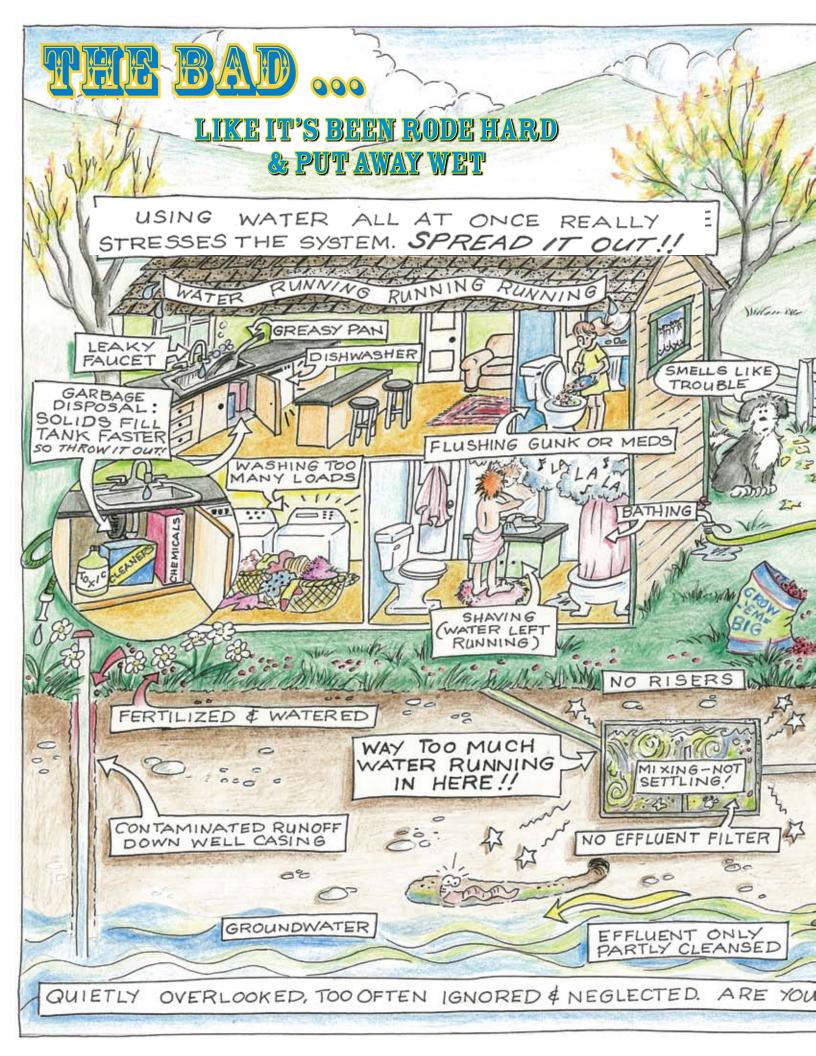
you're a shiny new city slicker. What'll

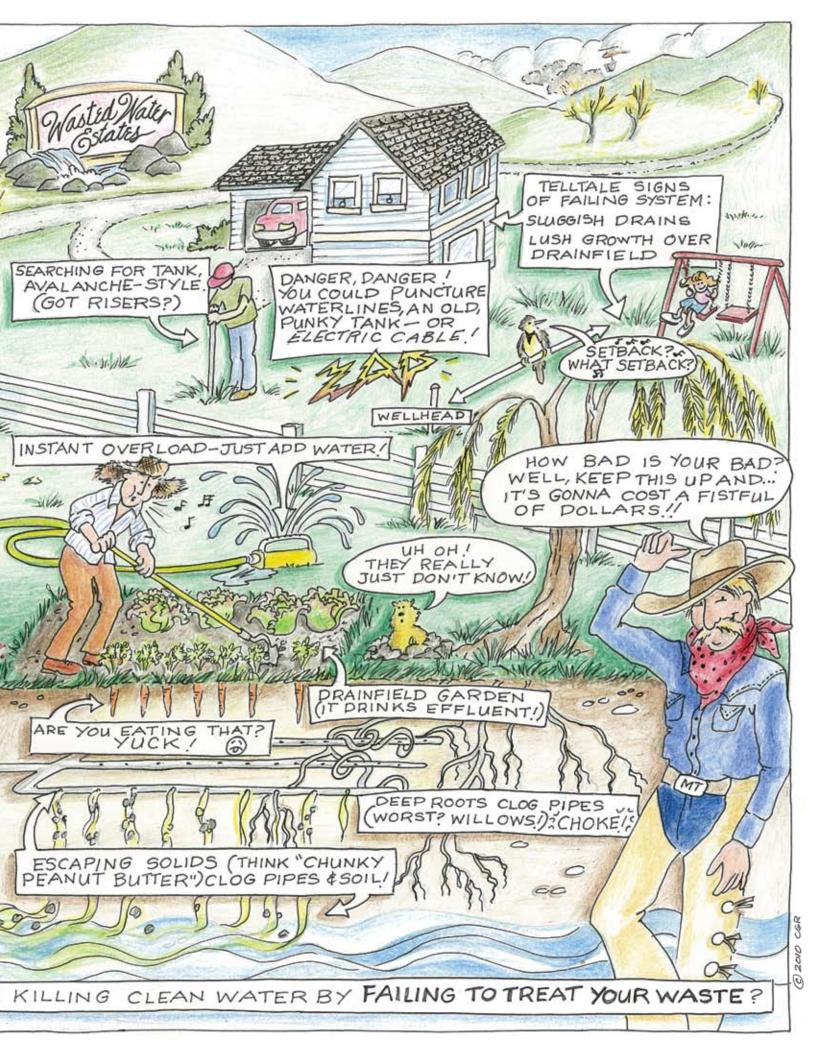
make YOUR septic the GOOD, the BAD,

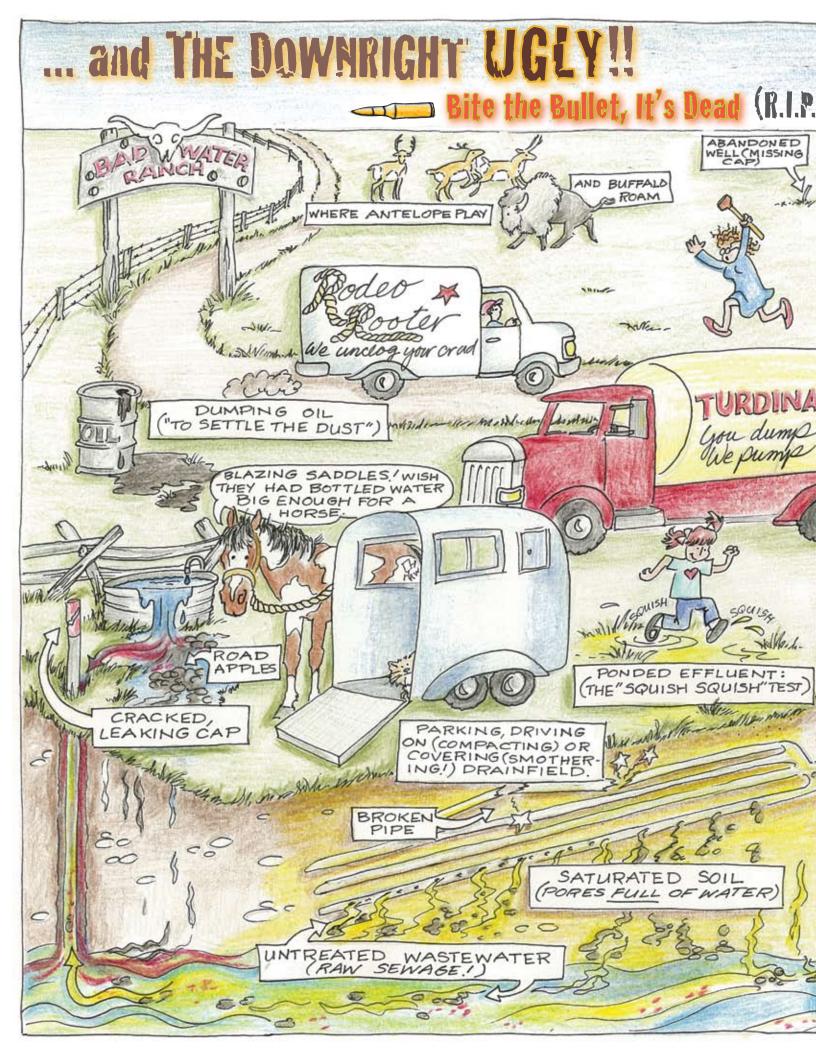
What's buried out in your backyard?

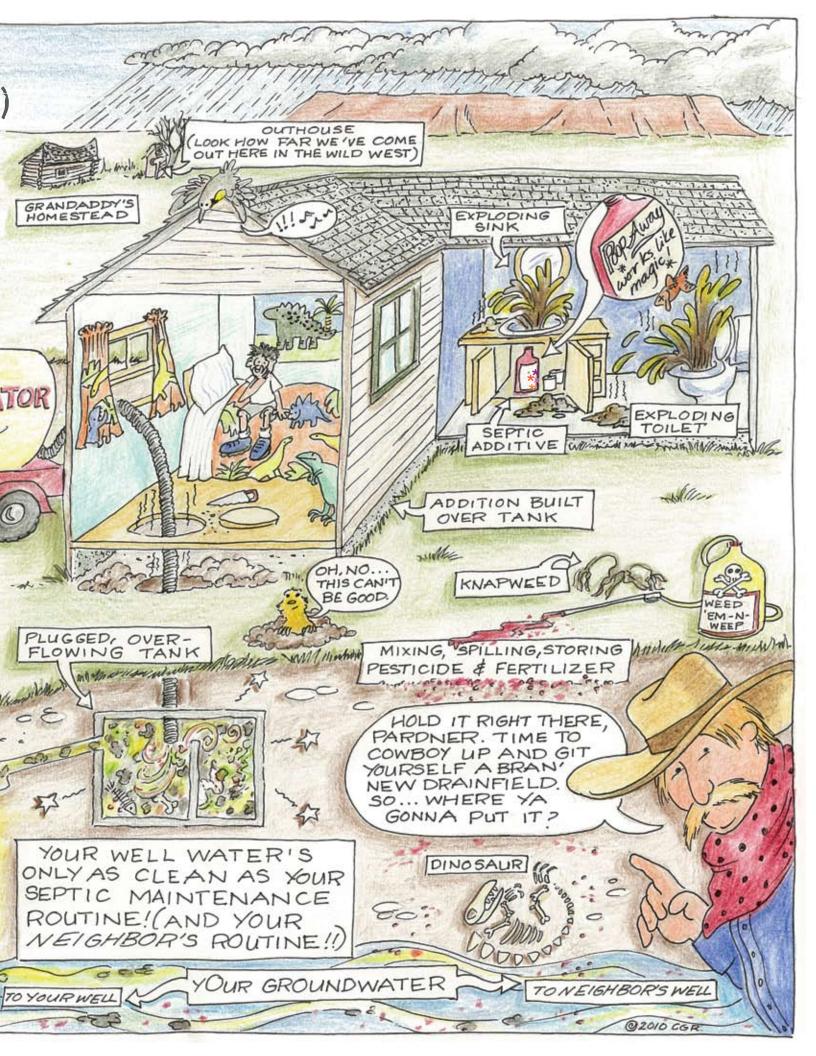






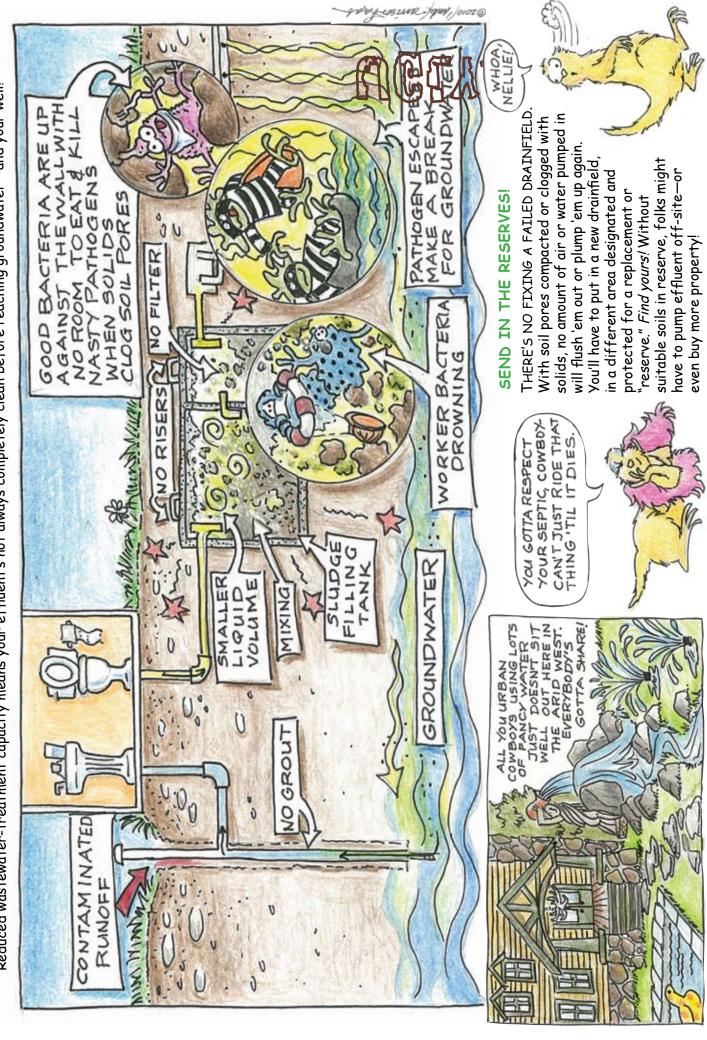






A FAILURE WAITING TO HAPPEN When Good Systems Go RA

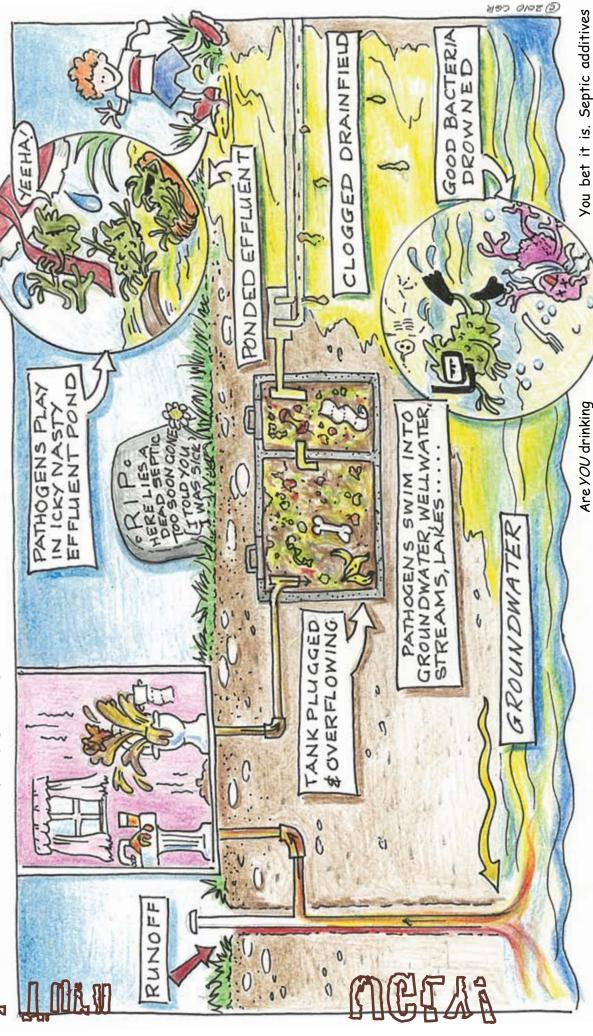
Reduced wastewater-treatment capacity means your effluent's not always completely clean before reaching groundwater—and your well! A tank full of solids leaves less room for liquid so it shortens settling time, flowing out to drainfield with solids mixed in.



Downright aaa

YUP, IT'S DEAD, ALRIGHT

🚌 lugged full of solids overflows to clog pipes, soil pores—& plumbing! Clogged, sluggish, & backed-up, this is your sewage coming back to haunt you. and your drinking water! You will be visited by seepage, leakage, & FAILURE—contaminating groundwater, well water



Wells & septic systems may be too close

SEPARATION **SYSTEMS** SEPTIC & WELL

well's 100' setback Safety Circle could overlap with communities, where a in some of our older neighboring septics.

from nearby

new meaning to Gives a whole septic failures? your Neighborhood Circle.

QUESTION?

OR NOT TO ADD, ADDITIVES: IS THAT THE TO ADD,

don't help. Look at it this way: Caustic chemicals or biological agents designed to BREAK DOWN SOLIDS can BREAK SOLIDS DOWN to float out the tank & clog the drainfield. Be careful what you wish for! harm—and pretty could

Ride Herd on Your Septic!

LOCATE (find it!)

INSPECT regularly

PUMP as needed

& PROTECT!

WANTED: SEPTIC KILLERS!

TANK NEEDS PUMPING - HIGH WATER USE

ARMED & EXTREMELY DANGEROUS

FLUSHING TRASH LACK OF MAINTENANCE

TOO MUCH GARBAGE DISPOSAL

OVERLOADED WITH SOLIDS KITCHEN GREASE & TOXIC CHEMICALS

(+ water-softener salts)

DRIVING OVER DRAINFIELD TREE ROOTS; POOR DRAINAGE POOR INSTALLATION, DESIGN, SITING

(unfit soils, steep slopes, small lot) DON'T KNOW WHERE SEPTIC IS

DON'T KNOW THERE IS A SEPTIC!

REWARD: CLEAN WATER!

+ PROTECTED PROPERTY/INVESTMENT/HEALTH

GIPDYUP, ELLY-C'MON PRAIRIE DOG PETE, & BRING YOUR GA WE'RE BACK IN THE SADDLE AGAIN

Retrofit Risers & Effluent Filters

Think Compost & Trash vs. Garbage Disposal

 Use Least Amount of Toxic Chemicals & Cleaners (USE RECOMMENDED DOSE, HANDLE & STORE CAREFULLY)

Landscape Drainfield with Shallow-Rooted Plants, Not Deep

Keep Sprinklers, Runoff, & Contaminants Away from Drainfield

Protect Well—3 best ways: MONITOR WATER QUALITY (NITRATES, BACTERIA), SEPTIC MAINTENANCE, & CURB RUNOFF POLLUTION

Watch Water Use & "Shock" Loads

Keep Good Records—SEPTIC/WELL LOG (FIND IT, START IT, KEEP IT)

Check Graywater Potential for Your County!

And Remember, No Matter How Fancy or Expensive—ALL TANKS NEED TO BE PUMPED!

YEEHAW

Contacts

BE SURE TO CHECK WITH YOUR LOCAL HEALTH DEPT. IN YOUR AREA

LET'S HIT THE TRAIL TO NELLIE. OUR WORK HERE IS DONE!



STARRING: BIG SKY SLIM & **ELLY THE HORSE** PETE THE PRAIRIE DOG & HIS LADY, NELLIE

Jana M. Suchy Wrangler/Writer/Producer WAY OUT WEST CREATIVE

Candy Garrison Raab Ranch Hand & Brilliant Illustrator

HAPPY TRAILS

Joe Meek Crew Boss

ALL YOUR HELF

BIG SKY SLIM

NOW, GIT ALONG

ITTLE DOGIES

DEQ SOURCE WATER PROTECTION

Helena, Montana 59620-0901 406.444.6697 www.deq.mt.gov/wqinfo/swp

P.O. Box 200901

5,500 copies of this public document were published at an estimated cost of 33¢ per copy, for a total cost of \$1,822, which includes \$1,822 for printing.