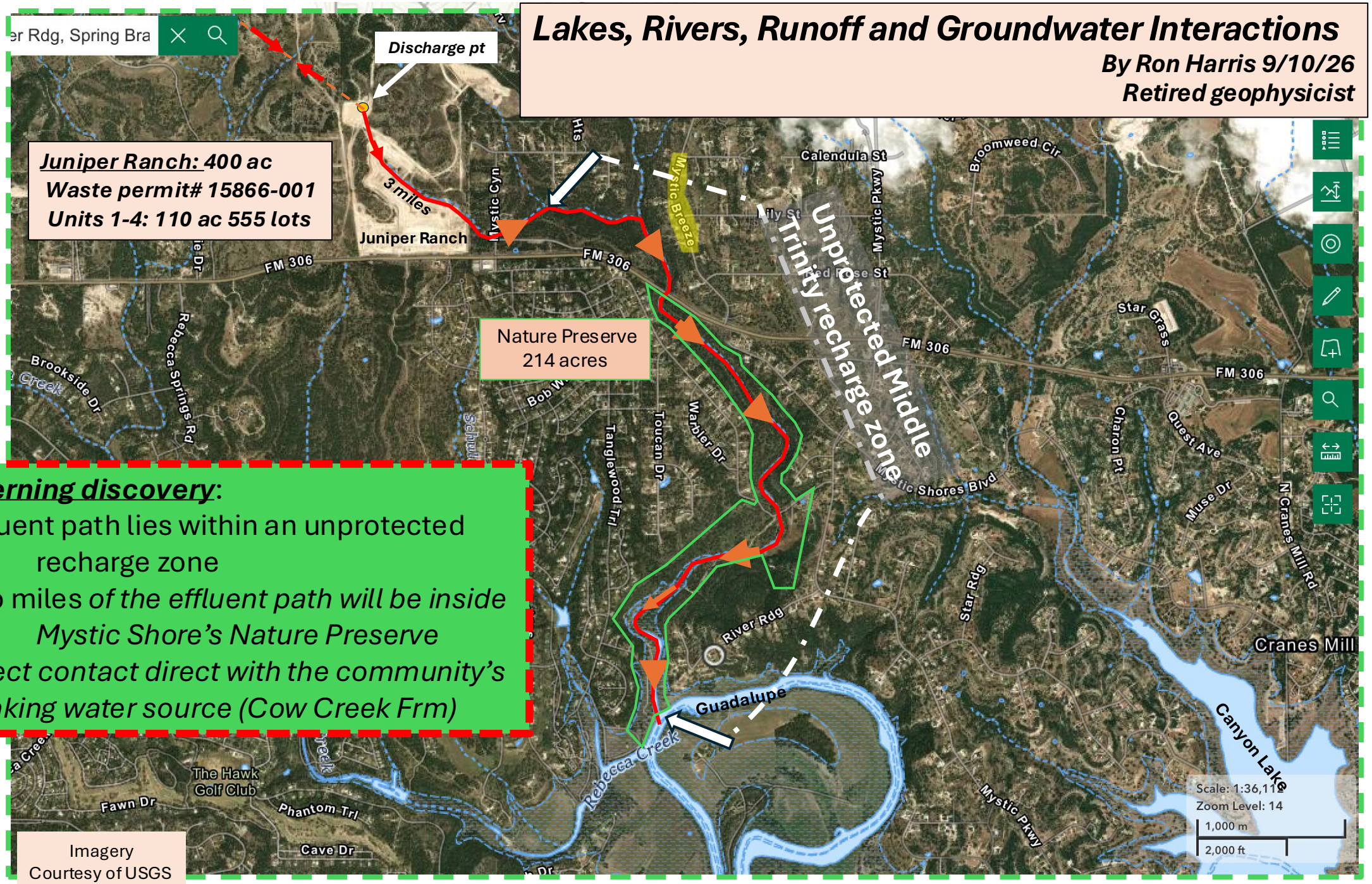
Lakes, Rivers, Runoff and Groundwater Interactions

By Ron Harris 9/10/26
Retired geophysicist



Concerning discovery:

- Effluent path lies within an unprotected recharge zone
- Two miles *of the effluent path will be inside Mystic Shore's Nature Preserve*
- *Direct contact direct with the community's drinking water source (Cow Creek Frm)*

Imagery Courtesy of USGS

Vertical Cross-Section along effluent discharge path

Northwest — SE

Juniper Ranch

Discharge Pt.

Water well

Over 60% of water wells in NW Comal county produce from the Cow Creek

Bulv

L Blanco

Twin Sister

Doepenschmidt

Run-off

Rust (confining bed)

Honey Creek

Fracture

Hensel

Fracture

Cow Creek

Hammett Shale (confining bed)

Unprotected Trinity Aquifer Recharge zone

306 Bridge

Fracture

Run-off

Fracture

Hammett Shale

Top of ground water

Wl: 872'asl5/19/26

30' throw

110' throw

170'throw

Cow Crk

Fracture

Guadalupe River

909

Hammett shale

Hensel

Fracture

Cow Crk

Hammett

1,300'

1,200'

1,100'

1,000'

900'

800'

700'

asl

Feet above sea level

X-1

X-2

X-3

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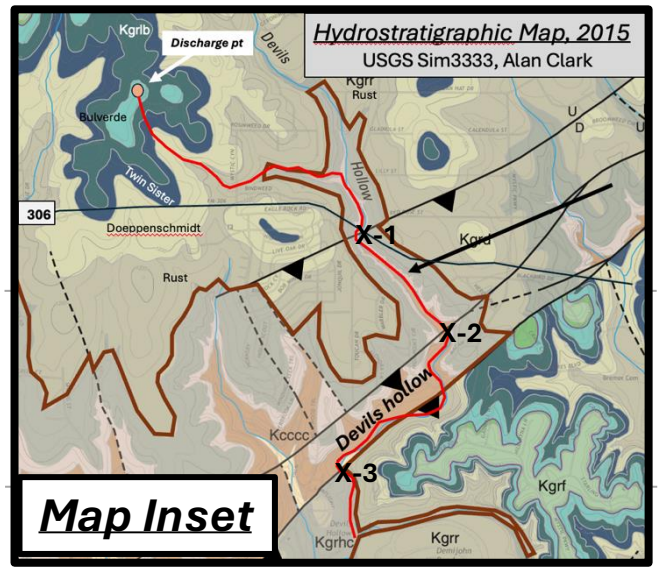

Map Inset