Bluestone Coke, Birmingham, Ala.

10/17/2022

11:45 EST onsite

Alden Rakgerad, Tenaco

Emo Reardon Tenaco, Geologist

Don Wiggins, BSC

Dem Rippstein Tenaco, Geologist

Patrick Singer, Regens

Christopher Jiminez Regens.

Regens will inject amendments from both ends of the horizontal well. They are taking water level measurements before injection.

Simple temporary wells
Took a sample between injection points. Horizontal pipe is perforated 3 on inside, 3 on outside

will take a soil sample to do confirmatory effectiveness sampling.

HW approx 6-8 feet.

cond, Temp, ORP, DO, pH & Turbidity

No notable change parameter
But water levels were increasing
in wells. Since adding DO

TW1 TW2/2D MW-55

Tomorrow will switch other oxidant

2,086 gallons
979 pounds ?

End of Day 5:30 PM

at 6:43PM Sent Tony Rippstein email
with Maps of Quincy Tower A & B
Maps.

Charlie Franks took over for Don Wiggins
when he had to leave the site in
the afternoon.

Delete SWMU 10 SS03
remove SMA 3 07 2 photos

N 33 33 53.8 693
W 86 48 4.5

125 south 06

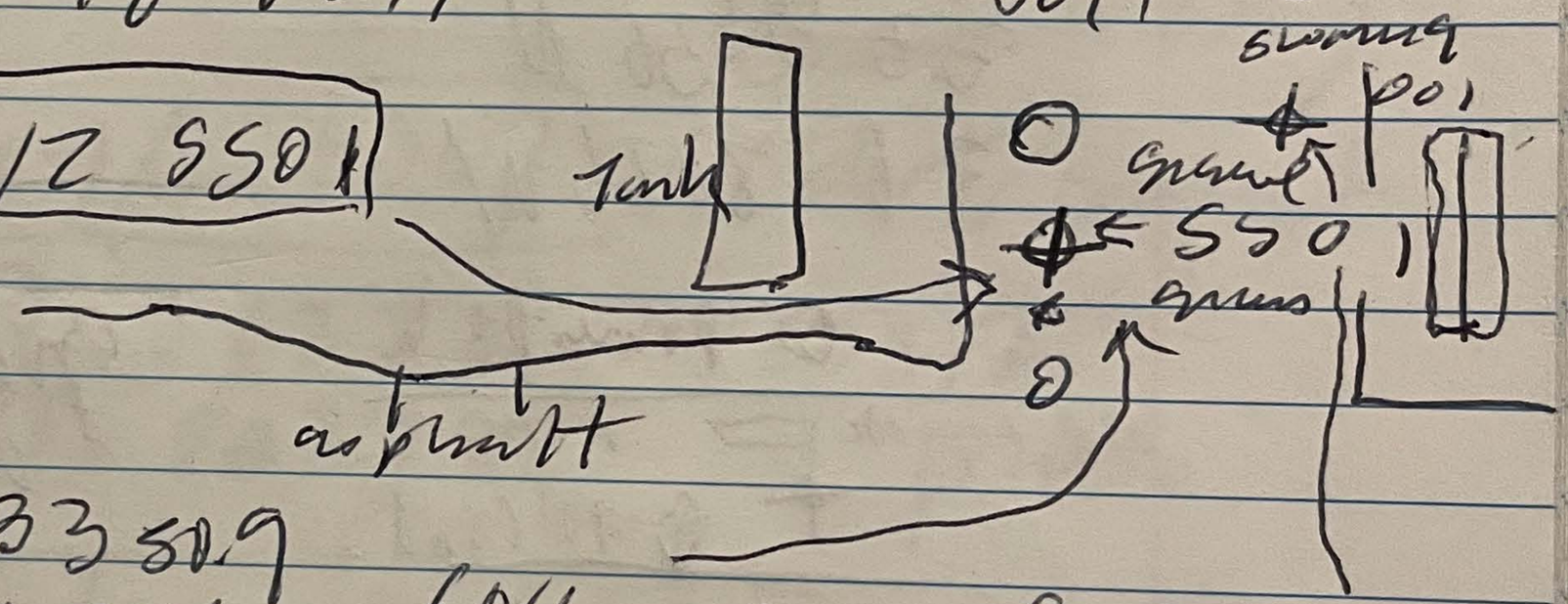
SWMU 10 SS-01

2 pipes connect ditch

SMA 3 SS02 photo 2-SMA 3 SS02 locations

N 33 33 52.9 616 cone brea
86 48 05.9 soil

SWMU 12 SS01




33 33 50.9
86 48 06.8 604 SWMU 9 SS01

SWMU 9

SWMU 9

grass SS01

SWMU 9 SS01
33.5541 N
86.8019 W

Pre injection soil sampling. Sampled every 2 feet.

Following sampling of soil will also be in 2 ft increments.

10/18/2022 4/4.5gpm Total

2-2.5 gpm/connection

injection well
injection well

HIW1B 292 gallons yesterday
HIW2A 305 gallons yesterday

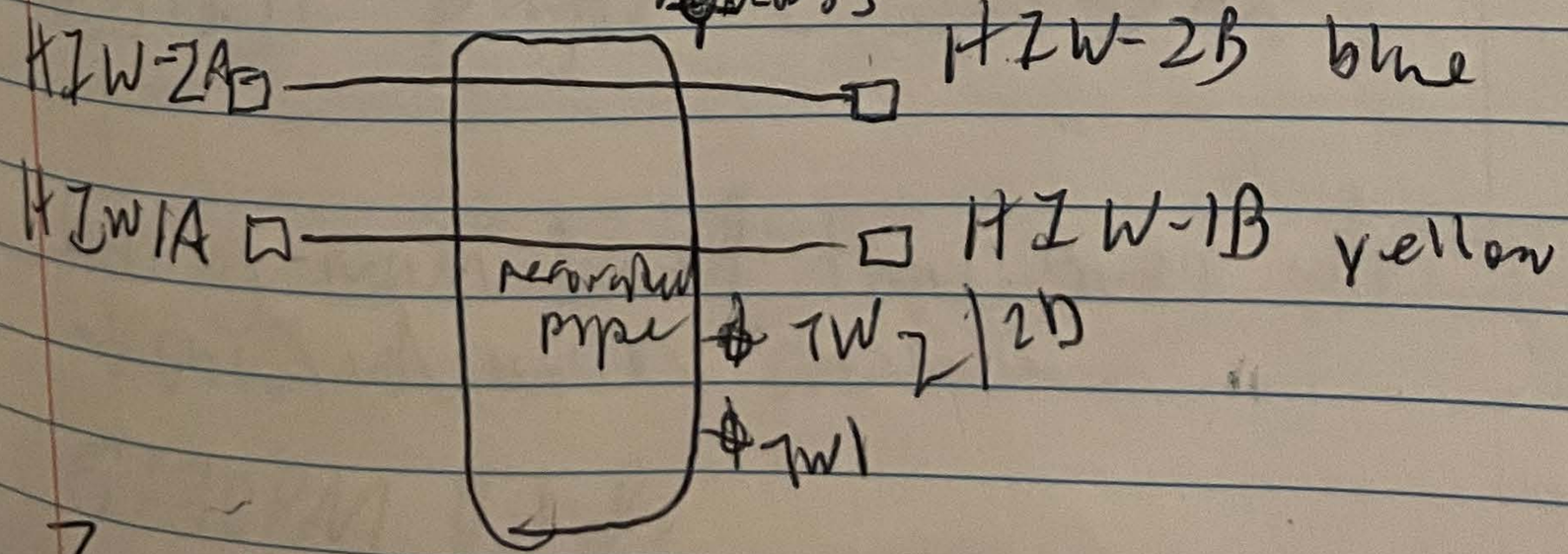
~~6393~~ gallons put B total mix volume
3000lb. pounds.

PART A 14,328 gallons pellet
9,000 pond

Oxidant

Setting up injection in parallel horizontal wells

HIW1A ~~blue~~ yellow hose
HIW2A ~~yellow~~ blue
PRWSS




photos

Injected HIW-2B & HIW-1A

SWMU 11

Pad
2nd containment

Pump pad

SWMU 55-02

Tank

rocky

SMA 3 SS03

grass photo

33 33 56 615
86 48 00.3

SWMU 10
55-02

photo

concrete ditch

2 pipes

pipes

SWMU 10
SS02

33 33 55.4 650
86 48 03.2

corner of concrete curb

SSMU 10
SS01

SWMU 10
0-SS03

SWMU 10
55-01

Photo small / dirt

33 33 54.8
086 48 3.7 6.43

2 pipes + covered ditch

google map correct

SWMU 2A SS03 33.5630N
-86.8037W

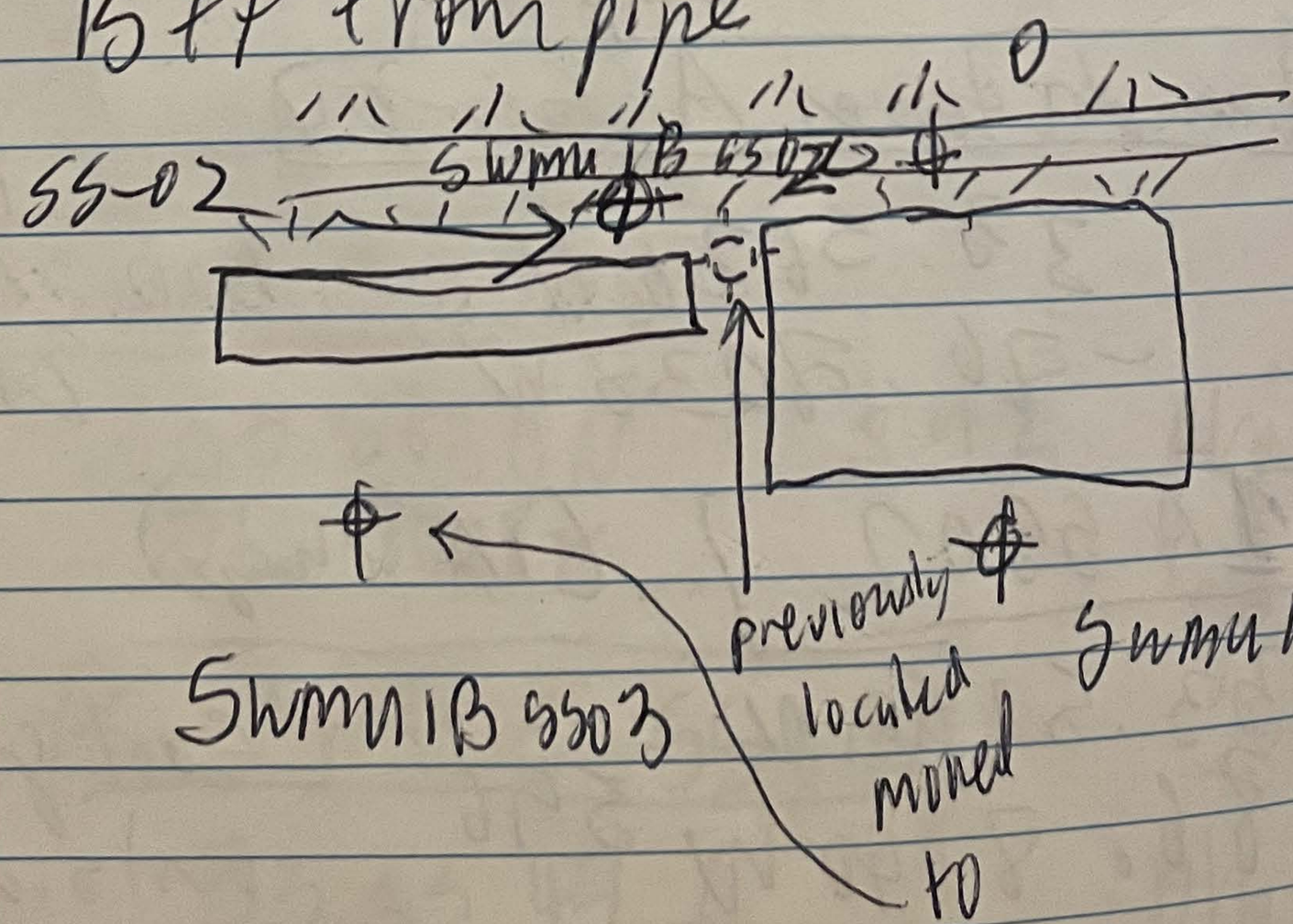
620' elev

2-photos

gravel soil cobble

Have 2 SWMU 1B SS02 so the unpinned label will be

* SWMU 1B SS02 -
photo
33.5665 N 593ft
-86.8001 W
black soil cobble breeze
15 ft from pipe




Reporting pump problems on day 1.

End of Day 5:30 PM

injection well
injection well

SWMH 7/8 001 photo grass

grass soil 33.5637 N 621
-86.8021 W

Building

2nd cont ⊕ SS01

✓ SMA 3 SS04 photo

33.5636 N
86.8026 W

⊕ power pole grass soil

old truck pipe

10' cond

SWMH 5 550

33.5630 N 592 photo
- 86.8028 W

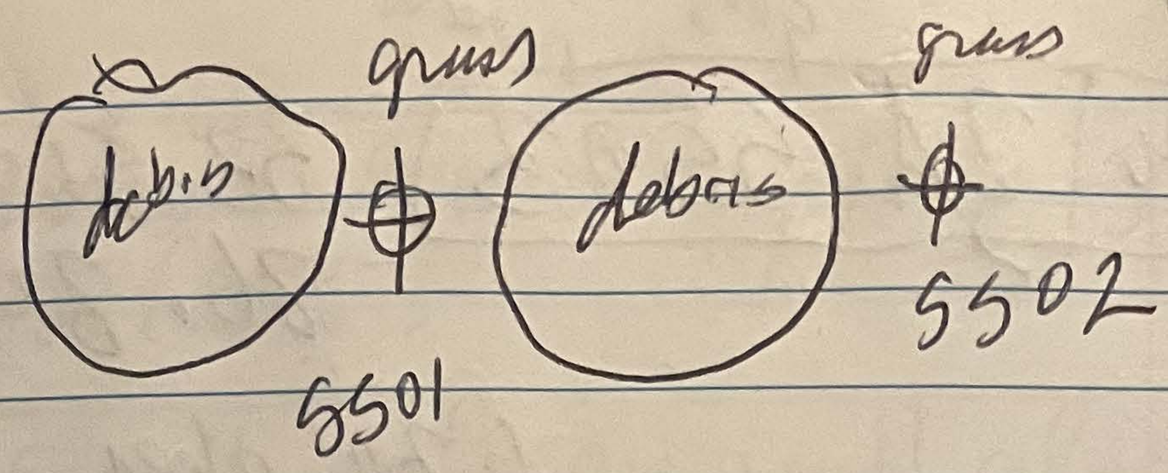
grass soil

SWMH 5 550 2

33 33 47.1 photo
86 48 9.4 606

grass soil

SWMU 5




SMA 3 5505 photo

33.5631 603ft
-86.8833

grass soil/gravel

(Change to 2A google map)
dirt/gravel

SWMU 2A 5507

33.5627N 603ft
-86.8037W photo
pump house

Quench tower A 55-04 photo

33.5626N 610 wood
-86.8038W cribbing

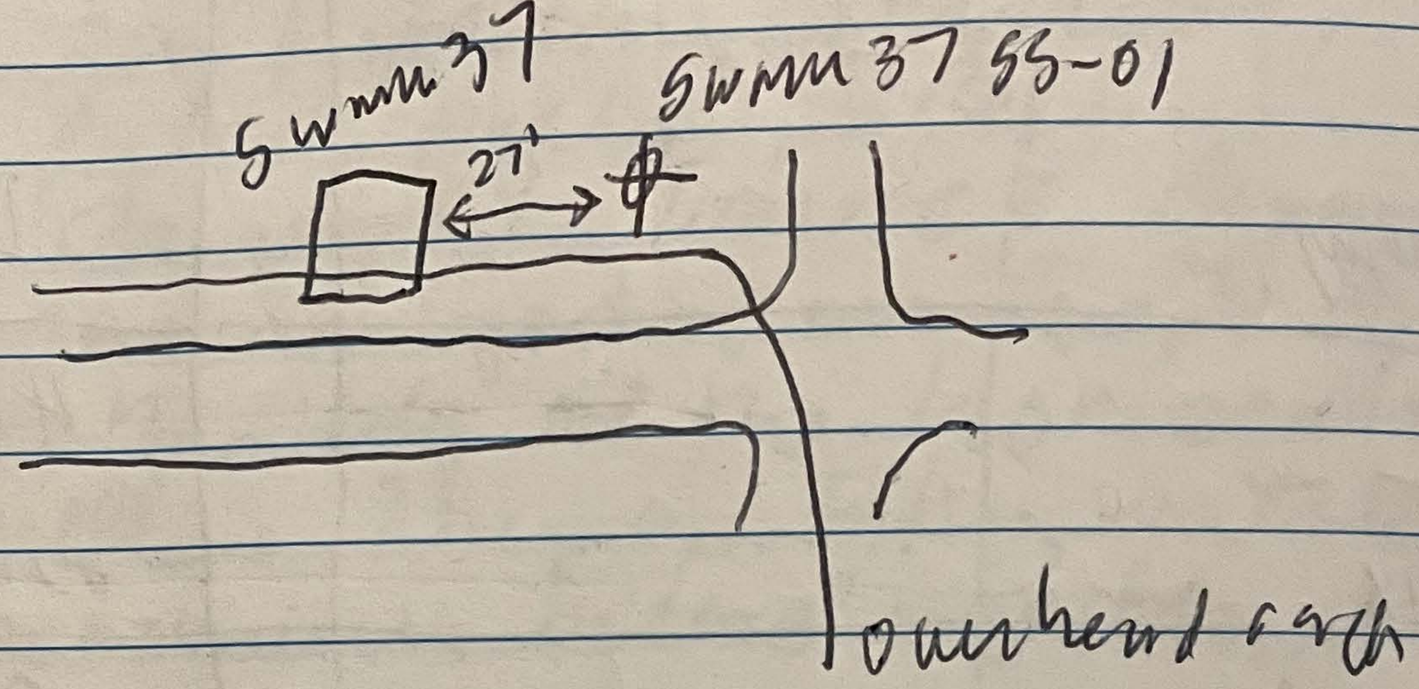
1A 5502 (1A change)

33.5629N
-86.8040W 596, soil/gravel outside railroad tracks

Photo

SWMU37 SS-01 N 33 34 01.4
W 086 47 58.1
598

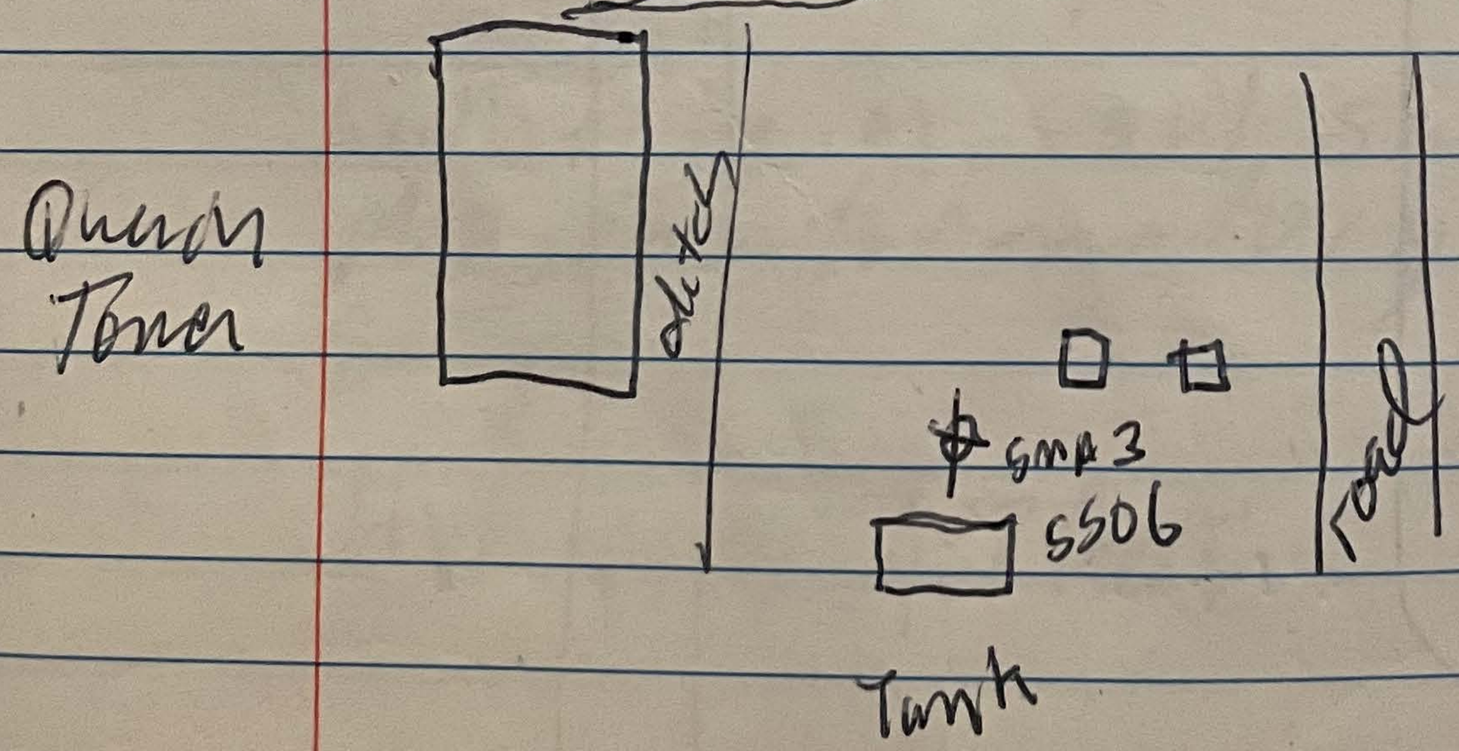
Soil - for Simply



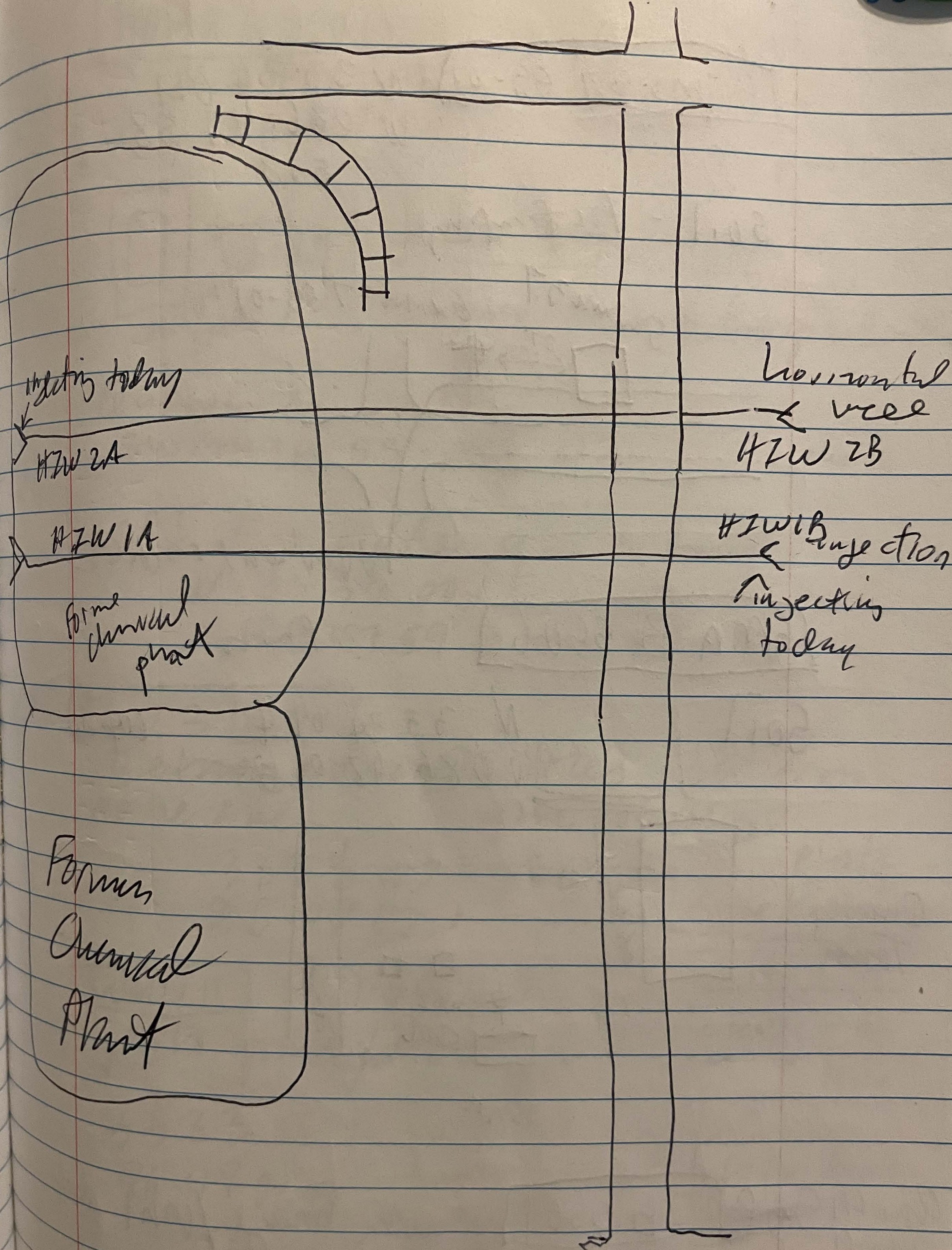

SMA 3 SS06

Photo

Soil N 33 34 01.4 604 elev
W 086 48 00.5




Quench Tower B SS 2B SS01 water breaze/coal pile
Soil
N 33 34 01.7
W 86 48 00.8
actual sample location
25 feet from GPS location


injecting today
HZW 2A
HZW 1A
Former chemical plant
Former Chemical Plant
horizontal well
HZW 2B
HZW 1B
injection
injecting today

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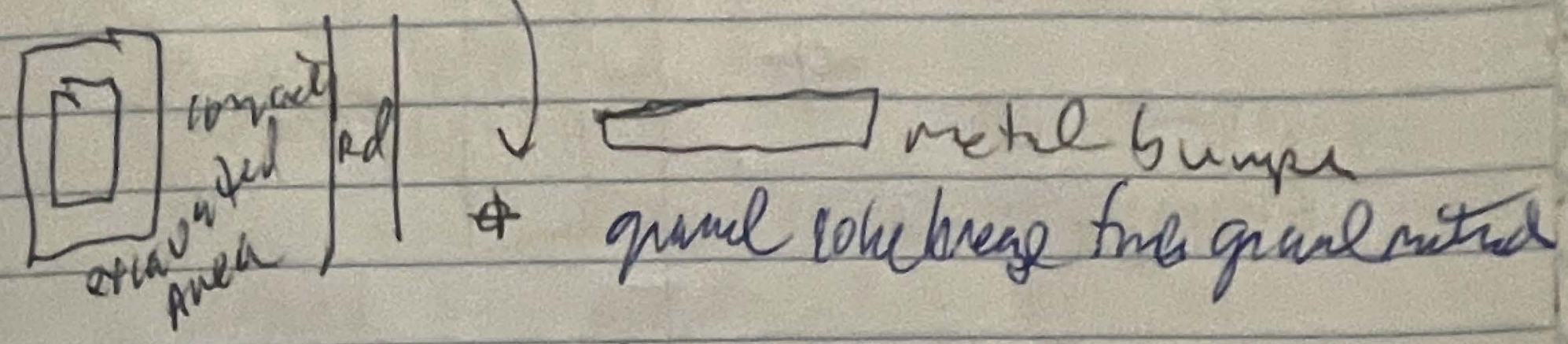
SWMU 6 SS01

N 33 33 55.6 602' elev

86 48 09.6 photo




Quench Tower B

SWMU 1B SS-[redacted] 02 photo

154 ft from middle quench tower

N 33 34 00.1

86 47 59.8 595

SMA 3 SS01

Between concrete ties 20' from coke oven, spare coke breeze

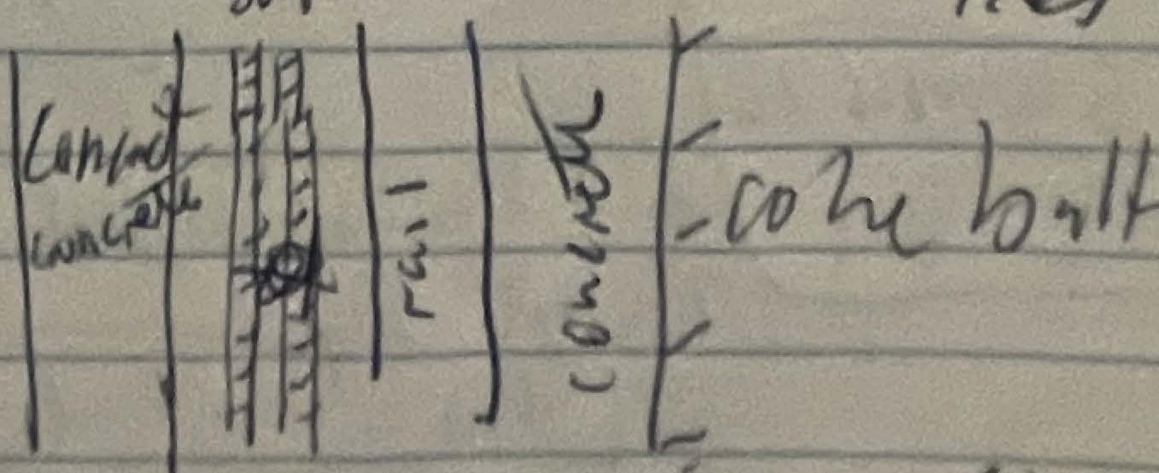
3333.57 613 photo

86 48 02.1

coke battery

SWMU 11 11-55-02

photo quard/dirt




3333 56.1

86 48 02.5

627

pipes are well below 1 ft depth sample

SWMU 11 11-55-[redacted] photo

33 33 55.9

86 48 02.2 634 Soil

next page

diagram

ground