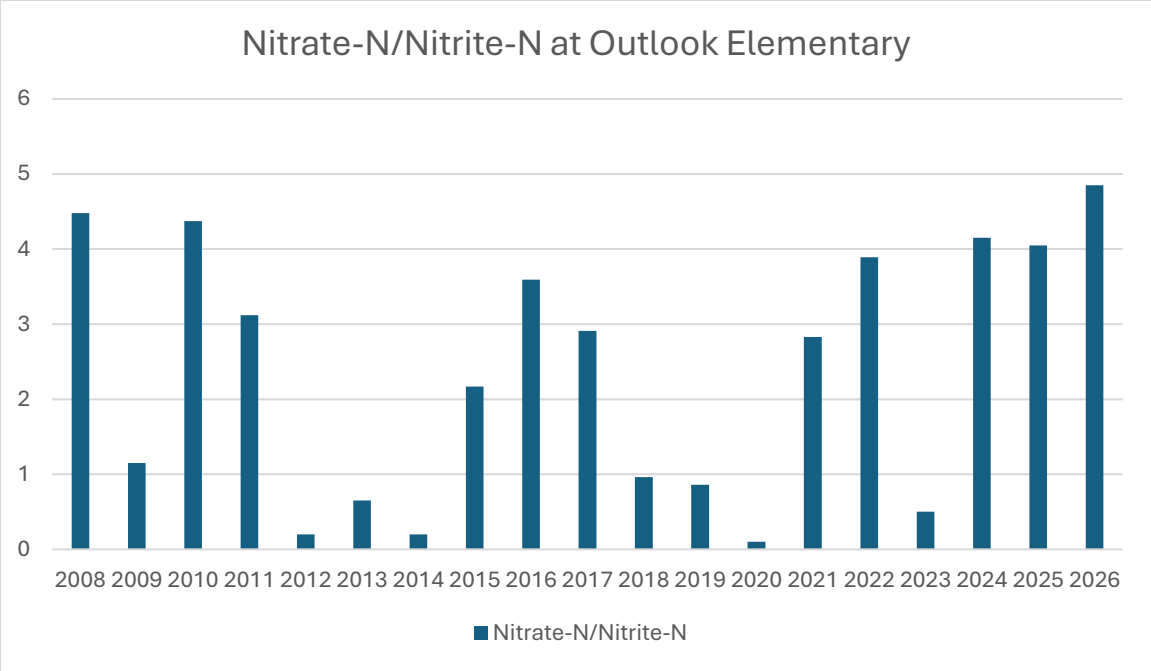
2026 Update on Nitrate-N/Nitrite-N Levels at Outlook Elementary School

Nitrate-n levels are markers for water quality. Currently water with Nitrate-N readings greater than 10 mg/L are considered unsafe for drinking. Outlook Elementary had to drill a new well in 2008 because nitrate-n readings in the old well exceeded 10 mg/L. The 2008 well is drilled to 234 ft and likely taps a lower aquifer with less contamination.

WA Ecology currently performs annual testing of 30 dedicated monitoring wells in the Lower Yakima Valley. That data is available on Ecology's Environmental Information Management database website at EIM Groundwater Search . The Study ID is mred0005.

Monitoring Well #011 is located just east of the school on Van Bell Road. It was drilled in 2020/2021 as part of a monitoring network installed by the Lower Yakima Vally Groundwater Monitoring Area (LYV GWMA). It is drilled to 34 ft, so it measures "first waters" the top of the surficial aquifer. Since 2021 nitrate-n levels in MW 011 have been in the 17 to 19 mg/L range. In 2025 those numbers increased dramatically. WA Ecology checked the sampling twice and obtained readings of 54.5 mg/L and 63.9 mg/L for an average of 59.2 mg/L.

FOTC has researched recent test results for the Outlook Elementary School. It appears that nitrate-n levels are increasing somewhat and are currently around 4.85 mg/L. Nitrate levels at the Outlook School are increasing. Recent research shows that Nitrate-N levels above 5 mg/L are harmful to human health. In the Netherlands the safe drinking water standard is 5 mg/L Nitrate-N. Denmark has plans to accept this standard as well.



	'03	'03	'04	'04	'04	'04	'05	'05	'05	'05	'06	'06	'06	'07	'07	'07	'07	'08
Nitrate/Nitrite	5.7	5.55	6.69	9.25	5.82	8.95	9.3	8.03	6.24	6.77	9.77	6.07	8.18	8.23	8.52	10.36	10.04	4.48

	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26
Nitrite/Nitrate	1.15	4.37	3.12	0.20	0.65	0.20	2.17	3.59	2.91	0.96	0.86	0.1	2.83	3.89	0.5	4.15	4.05	4.85

Outlook Elementary School, System ID 64940M

Nitrate/Nitrite Levels from the WA State Dept. of Health Office of Drinking Water at fortress.wa.gov/doh/eh/portal/odw/si/ListWaterQuality.aspx

Washington State Department of HEALTH

Division of Environmental Health
Office of Drinking Water

View Sample Detail - WSID 64940M - OUTLOOK ELEMENTARY SCHOOL

Collect Date	6/1/2026
Lab Number	230
Lab Name	LabTest
Sample Number	37279
Source	03
Analyte Group	IOC-INORGANIC CONTAMINANTS
Test Panel	NIT-NITRATE SUITE
Sample Location	s/t
Sample Type	Post-Treatment / Finished

Result Range, A/P, Units: Mouse over for full description

Analyte DOH Num	Analyte Name	Result Range	Result Quantity	Maximum Contaminant Level	State Reporting Limit	Units
0020	NITRATE-N	EQ	4.8500	10.0000	0.5000	mg/L
0114	NITRITE-N	LT	0.1000	1.0000	0.1000	mg/L

It is somewhat reassuring that Nitrite N levels are low. Nitrite-N is a more serious threat to health than Nitrate-N

On the other hand, some experts believe the safe drinking water standard should be lower than 10 mg/L for Nitrate-N. The safe drinking water standard in the European Union is 50 mg/L Nitrate ≅ 10 mg/L Nitrate-N. The safe drinking water standard in the Netherlands is 25 mg/L Nitrate ≅ 5 mg/L Nitrate-N.

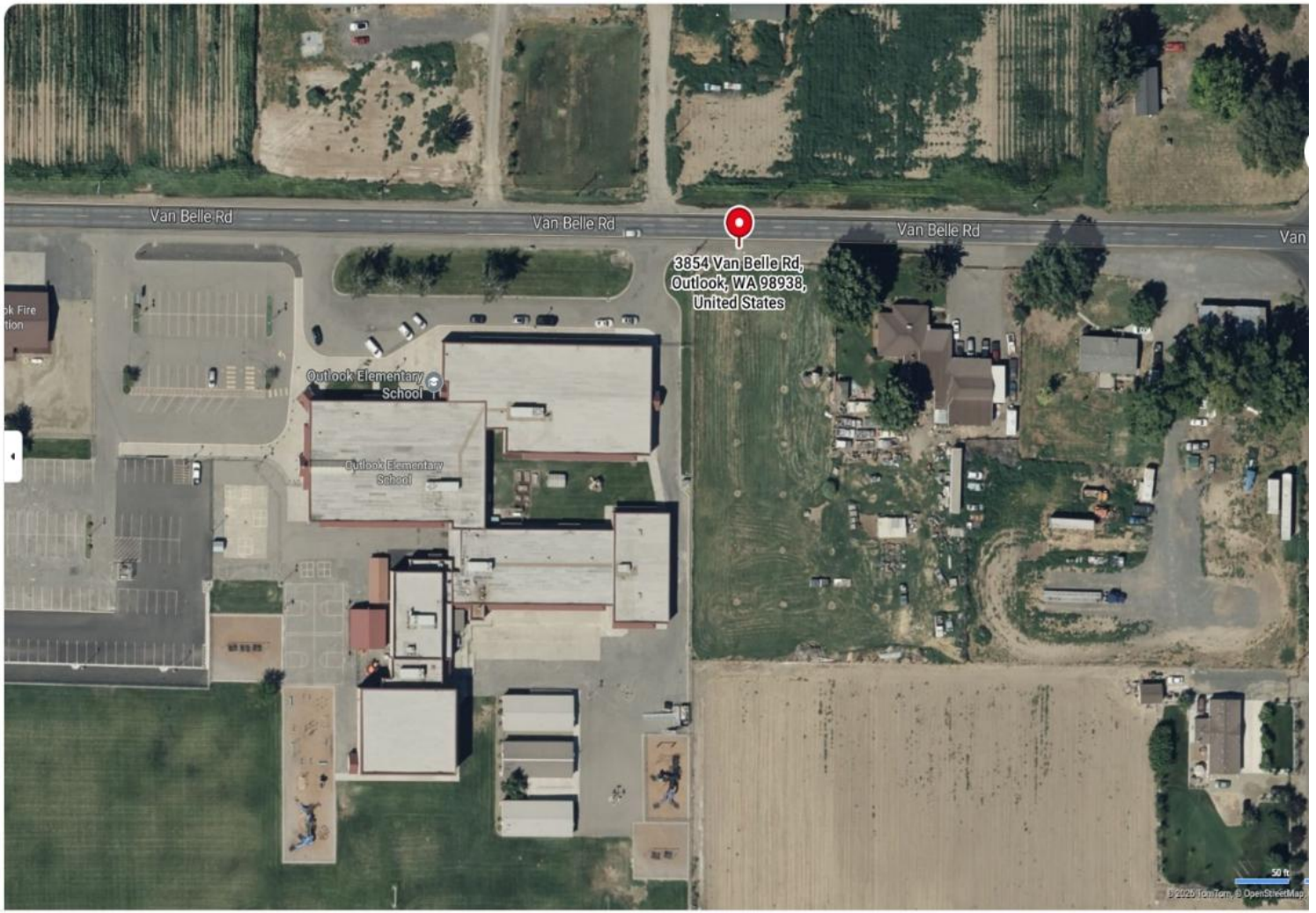
LYV GWMA test well #011 near Outlook Elementary School showed a sharp nitrate increase in 2025.

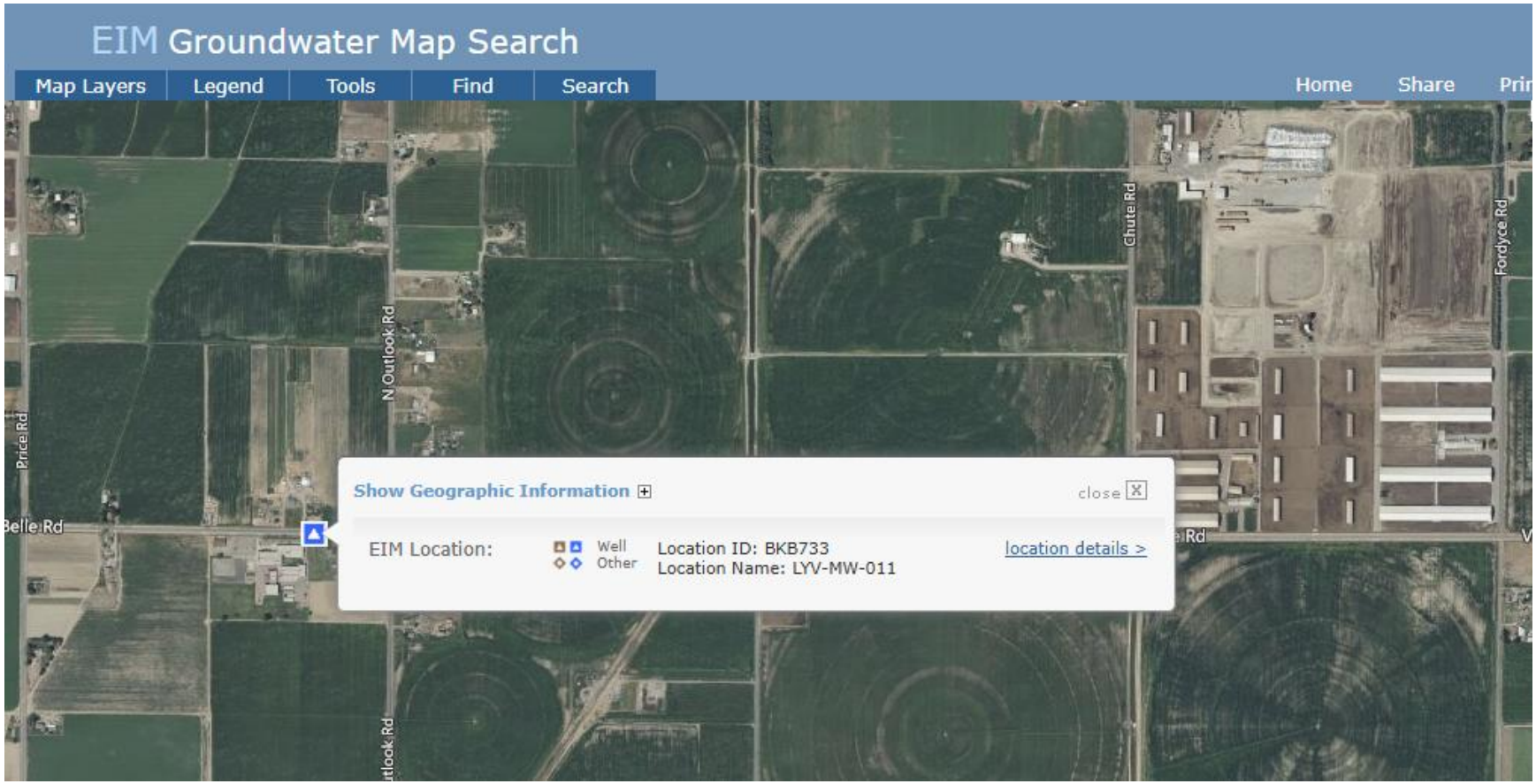
GWMA Dedicated Monitoring Wells in the Lower Yakima Valley

Well ID	Well depth (ft)	Latitude	Longitude	Date	Nitrate-N (ppm)
LYV-MW-011	36.2	46.345893	-120.095680	9/22/2021	18.5
LYV-MW-011	36.2	46.345893	-120.095680	12/21/2021	18.5
LYV-MW-011	36.2	46.345893	-120.095680	3/20/2022	17.8
LYV-MW-011	36.2	46.345893	-120.095680	6/20/2022	16.5
LYV-MW-011	36.2	46.345893	-120.095680	9/22/2022	17.0
LYV-MW-011	36.2	46.345893	-120.095680	12/21/2022	16.0
LYV-MW-011	36.2	46.345893	-120.095680	3/20/2023	19.7
LYV-MW-011	36.2	46.345893	-120.095680	6/20/2024	15.6
LYV-MW-011	36.2	46.345893	-120.095680	9/22/2025	**59.2**

From Groundwater Search Results

LYV MW 011 is 36 ft deep. The Outlook Elementary School Well is 243 ft deep.


Van Belle Rd
Van Belle Rd
Van Belle Rd
Van
3854 Van Belle Rd,
Outlook, WA 98938,
United States
Outlook Elementary
School
Outlook Elementary
School
50 ft
© 2026 TomTom, © OpenStreetMap



From Groundwater Search Results


EIM Groundwater Map Search
ap Layers
Legend
Tools
Find
Search
elle Rd
Van Belle Rd

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

File Original and First Copy with Department of Ecology
Second Copy - Owner's Copy
Third Copy - Driller's copy 300933

WATER WELL REPORT
STATE OF WASHINGTON

Notice of Intent W254627
UNIQUE WELL I.D. # APT871
Water Right Permit No.

(1) OWNER: Name SUNNYSIDE SCHOOL DISTRICT Address 1110 S 6TH STREET, SUNNYSIDE, WA 98944

(2) LOCATION OF WELL: County YAKIMA - NE 1/4 NW 1/4 Sec 20 T. 10 N.,R 22 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 3800 VAN BELLE RD SUNNYSIDE WA

TAX PARCEL NO. 221020-21006 C

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☒ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐ DeWater

(4) TYPE OF WORK: Owner's number of well (If more than one)
☒ New Well Method: ☐ Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☐ Jetted ☐ Decommission

(5) DIMENSIONS: Diameter of well 8 inches. Drilled 243 feet. Depth of completed well 243 ft.

(6) CONSTRUCTION DETAILS:
Casing Installed:
☒ Welded 8 " Diam. from +2 ft. to 242.6 ft.
☐ Liner installed " Diam. from ft. to ft.
☐ Threaded " Diam. from ft. to ft.

Perforations: ☐ Yes ☒ No
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: ☐ Yes ☒ No ☐ K-Pac Location
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel/Filter packed: ☐ Yes ☒ No ☐ Size of gravel/sand
Material placed from ft. to ft.

Surface seal: ☒ Yes ☐ No To what depth? 65 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 81 ft. below top of well Date 1/4/2008
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
Yield: gal./min. with ft. drawdown after hrs.
Yield: gal./min. with ft. drawdown after hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Airtest 300+ gal./min. with stem set at 210 ft. for 1 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analyses made? ☐ Yes ☒ No

(10) WELL LOG or DECOMMISSIONING PROCEDURE DESCRIPTION:
Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. Indicate all water encountered.

MATERIAL	FROM	TO
LOOM	0	55
CLAY	55	65
SAND	65	87
SAND & GRAVEL	87	93
CLAY	93	140
SAND	140	170
GRAVEL & SAND	170	243
300+ GPM @ 210		
300 GPM @ 120		
150 GPM @ 80		

DEPT OF ECOLOGY Received JAN 11 2008 CENTRAL REGION OFFICE

Work Started 1/2/2008 , 19. Completed 1/4/2008 , 19

WELL CONSTRUCTION CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Type or Print Name TOM MCGUIRE (Licensed Driller/Engineer) License No. 0357
Trainee Name License No.
Drilling Company RICK POULIN WELL DRILLING INC.
(Signed) Tom McGuire (Licensed Driller/Engineer) License No. 0357
Address 1301 LANCASTER RD SELAH, WA 98942
Contractor's Registration No. RICKPWD944PW Date 1/7/2008 , 19

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (360) 407-6600. The TDD number is (360) 407-6006.

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT
Notice of Intent No. RE16682

Construction/Decommission 18-7653WA

Type of Well

☒ Construction
☐ Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

☒ Resource Protection
☐ Geotechnical Soil Boring

Property Owner: Yakima County Public Services
Site Address: 128 N Second Street
Consulting Firm: PGG
City: Yakima County: Yakima

Unique Ecology Well ID
Tag No.: BKB-733

Location: 1/4 NE 1/4 NW Sec 20 Twn 10N R 22E ☐ EWM or ☐ WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

☒ Driller ☐ Trainee Name (Print): Casey Wallace
Driller/Trainee Signature: [signature]
Driller/Trainee License No.: 3182

Cased Diameter: 6" Static Level: 13'

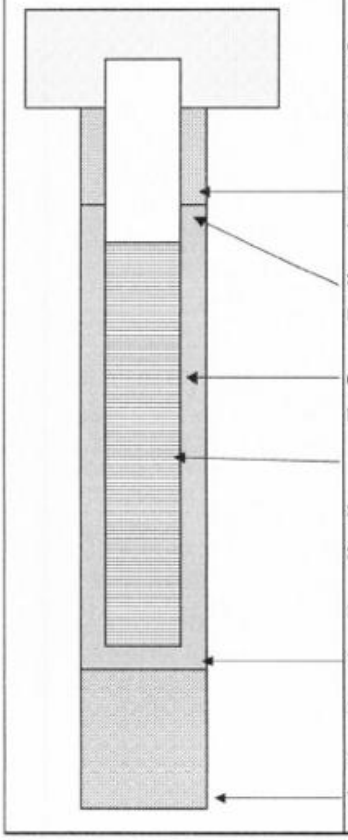
Work/Decommission Start Date: 11/09/2018

If trainee, licensed driller's Signature and License No. _____

Work/Decommission End Date: 11/09/2018

Well Name: MW-8

Construction/Design



Concrete Surface Seal Depth	0 - 1 FT
Blank Casing (dia x dep)	2 " 1 x 16 FT
Material	Sch40 PVC
Backfill	FT
Type	
Seal	1 - 14 FT
Material	bentonite chips
Gravel Pack	14 - 36 FT
Material	12/20 silica sand
Screen (dia x dep)	2 " 16 x 36 FT
Slot Size	0.010
Material	Sch40 PVC
Well Depth	36 FT
Backfill	
Material	
Total Hole Depth	36 FT

Formation Description

0 - 36	FT
SANDY SILT	
-	FT
-	FT
-	FT
-	FT
-	FT

RECEIVED
WELL CONSTRUCTION AND LICENSING OFFICE
AUG 26 2020

Scale 1" = _____ Page _____ of _____ ECY 050-12 (Rev 2/01)

The Department of Ecology does NOT warranty the Data and/or information on this well report.