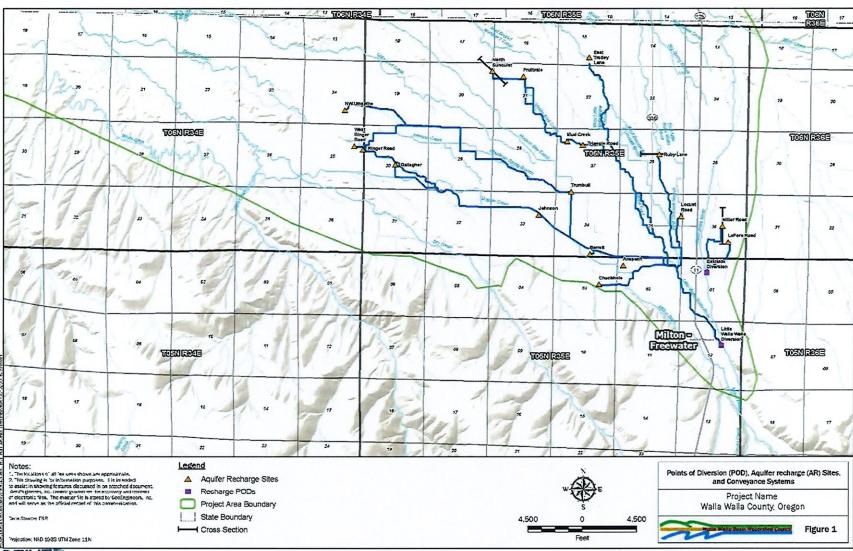
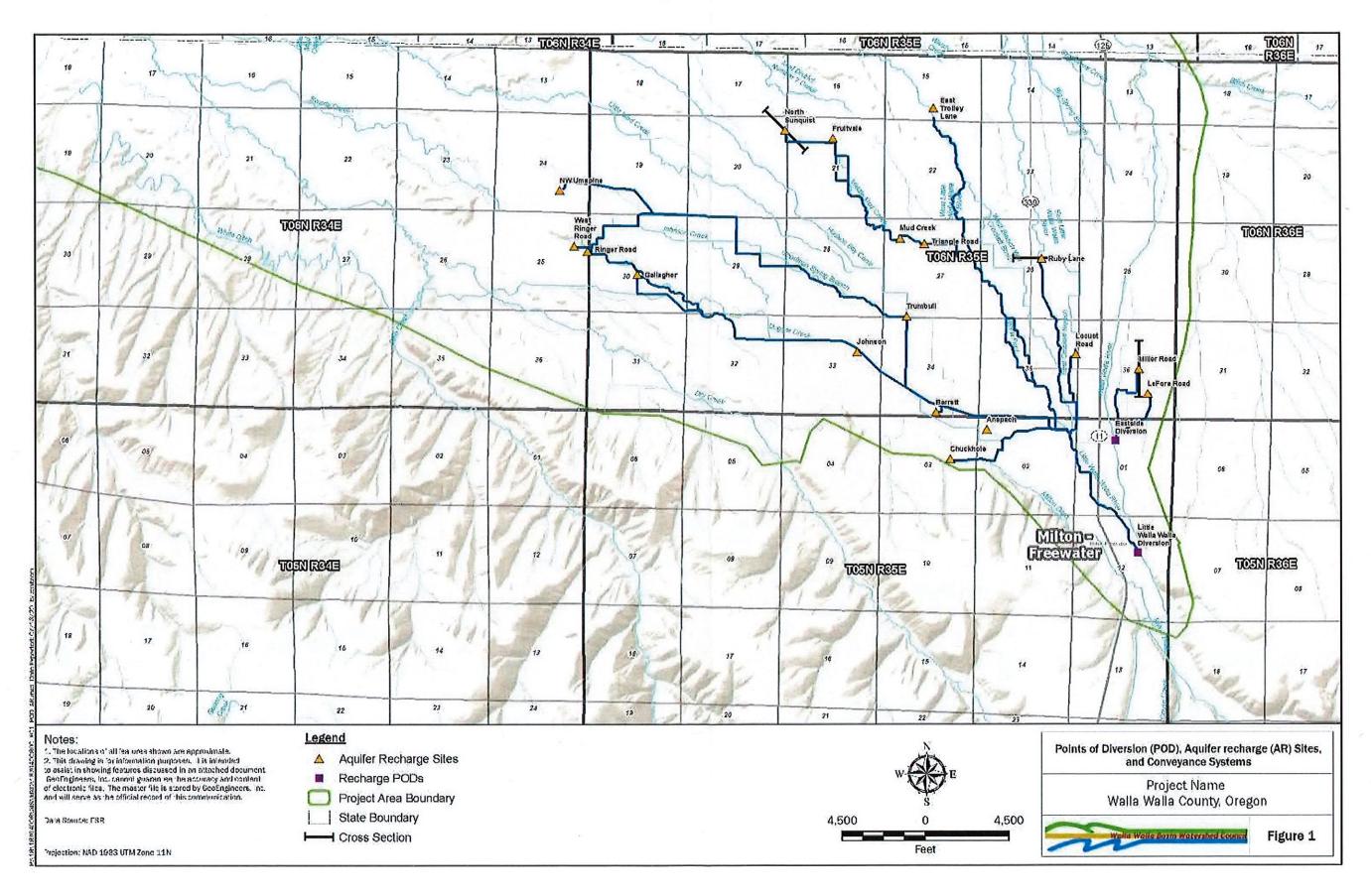
FIGURES

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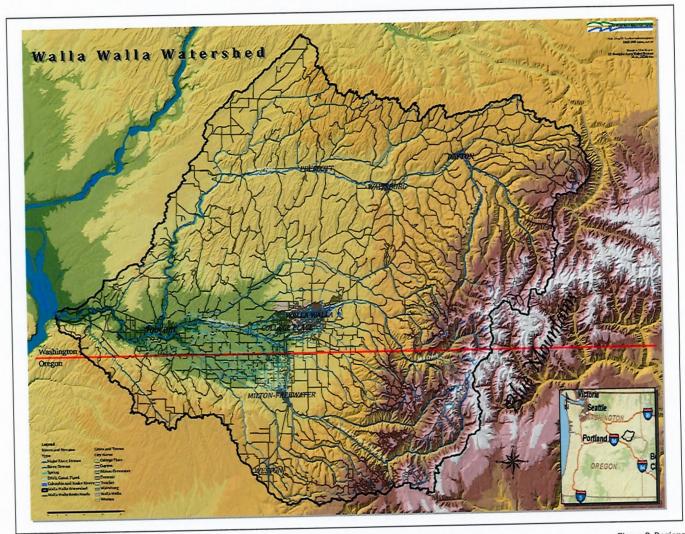


Figure 2. Regional setting of the Walla Walla Basin.

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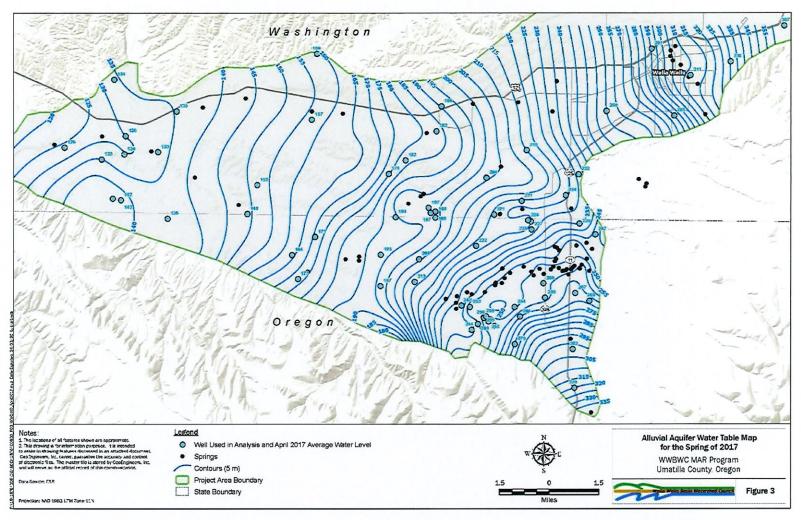
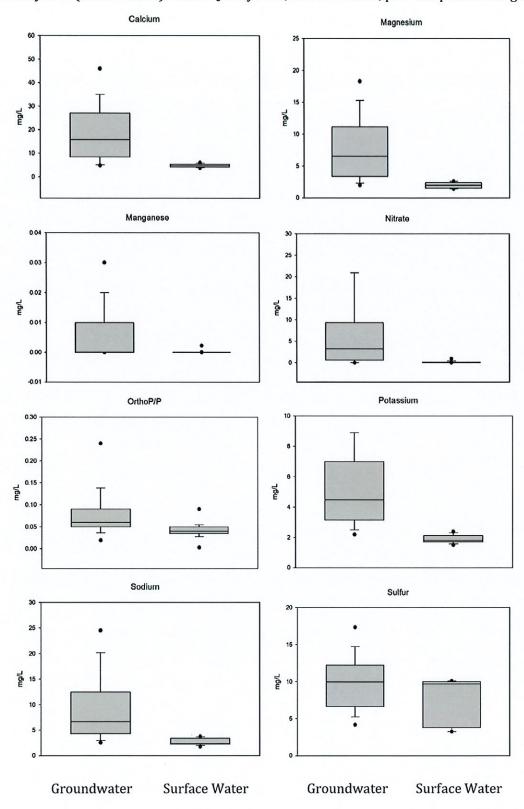


Figure 3. Alluvial aquifer water table map for the Spring of 2017.

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Figure 4. Box plots of water quality constituent concentrations collected in monitoring wells and in the conveyance system (source water). Water Quality Data, WY2013-2019, pre- and post-recharge, all sites.



150 300 600 900 Feet GW_141 Legend --- Pipeline //// Infiltration Galleries **Monitoring Locations Existing Water Level Well** Purpose Built Water Level Well Purpose Built Water Quality & Water Level Well Proposed Water Quality & Water Level Well **Surface Water Quality Site Anspach Site Map**

Figure 5. Layout of the Anspach AR Site.

Legend ---- Pipeline //// Infiltration Gallery **Monitoring Locations Existing Water Level Well** GW_62 Purpose Built Water Level Well Purpose Built Water Quality & Water Level Well Proposed Water Quality & Water Level Well Surface Water Quality Site **Barrett Site Map**

Figure 6. Layout of the Barrett SR Site.

1,200 800 0 200 400 GW_62 Legend ---- Pipeline Sediment Catch Basin //// Infiltration Basin GW_169 **Monitoring Locations Existing Water Level Well** Purpose Built Water Level Well Purpose Built Water Quality & Water Level Well Proposed Water Quality & Water Level Well Surface Water Quality Site **Chuckhole Site Map**

Figure 7. Layout of the Chuckhole AR Site.

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750 GW_151 Legend --- Pipeline //// Infiltration Gallery **Monitoring Locations Existing Water Level Well** Purpose Built Water Level Well Purpose Built Water Quality & Water Level Well

Figure 8. Layout of the East Trolley Lane AR Site.

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East Trolley Lane Site Map

Proposed Water Quality & Water Level Well

Surface Water Quality Site





0 170 340 680 1,020 GW_33 Legend Monitoring Wells Fruitvale Site **Streams** ■ Major River Or Stream Stream Or Creek Small Stream Or Spring Ditch Or Canal - Piped Fruitvale Site Map

Figure 9. Layout of the Fruitvale AR Site.

250 500 1,000 1,500 GW_119 ⊗GW_36 Legend --- Pipeline Infiltration Basins Infiltration Galleries **Monitoring Locations Existing Water Level Well** Purpose Built Water Level Well Purpose Built Water Quality & Water Level Well Proposed Water Quality & Water Level Well Surface Water Quality Site **Gallagher Site Map** GeoSystems Analysis, Inc.

Figure 10. Layout of the Gallagher AR Site.

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500 750 GW_48 Legend Pipeline Infiltration Basin Infiltration Gallery **Monitoring Locations Existing Water Level Well** Purpose Built Water Level Well Purpose Built Water Quality & Water Level Well GW_40 Proposed Water Quality & Water Level Well **Surface Water Quality Site Johnson Site Map**

Figure 11. Layout of the Johnson AR Site.

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GW_160 Legend Pipeline **GW_152** Infiltration Gallery **Monitoring Locations Existing Water Level Well** Purpose Built Water Level Well Purpose Built Water Quality & Water Level Well Proposed Water Quality & Water Level Well **Surface Water Quality Site LeFore Road Site Map**

Figure 12. Layout of the LeFore AR Site.

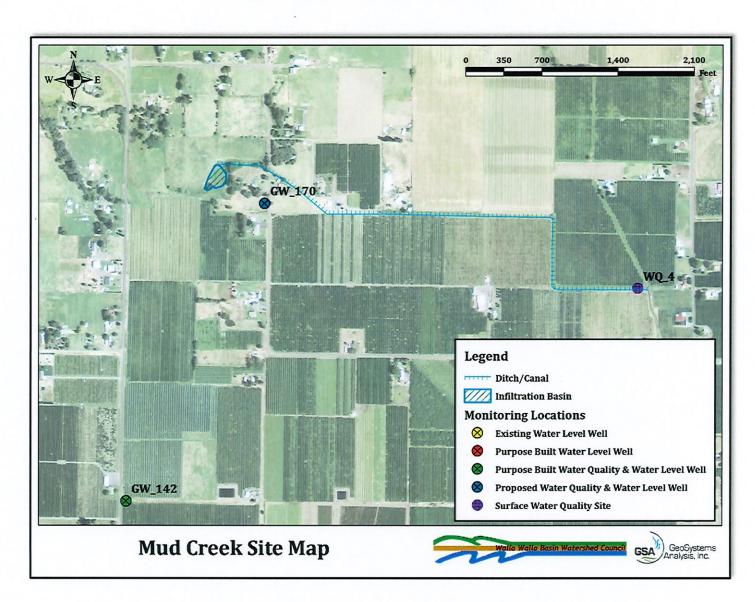
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Legend --- Pipeline Infiltration Gallery **Monitoring Locations Existing Water Level Well** Purpose Built Water Level Well Purpose Built Water Quality & Water Level Well GW_14 Proposed Water Quality & Water Level Well **Surface Water Quality Site Locust Road Site Map**

Figure 13. Layout of the Locust Road AR Site.

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Figure 14. Layout of the Mud Creek AR Site.



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1,200 1,800 600 **GW_34** GW_144 Legend ---- Pipeline Infiltration Basin **Monitoring Locations Existing Water Level Well** Purpose Built Water Level Well Purpose Built Water Quality & Water Level Well Proposed Water Quality & Water Level Well **Surface Water Quality Site NW Umapine Site Map**

Figure 15. Layout of the NW Umapine AR Site.

Legend - Pipeline Infiltration Gallery **Monitoring Locations** Existing Water Level Well Purpose Built Water Level Well Purpose Built Water Quality & Water Level Well Proposed Water Quality & Water Level Well Surface Water Quality Site

Figure 16. Layout of the Ringer Road AR Site.

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Ringer Road Site Map





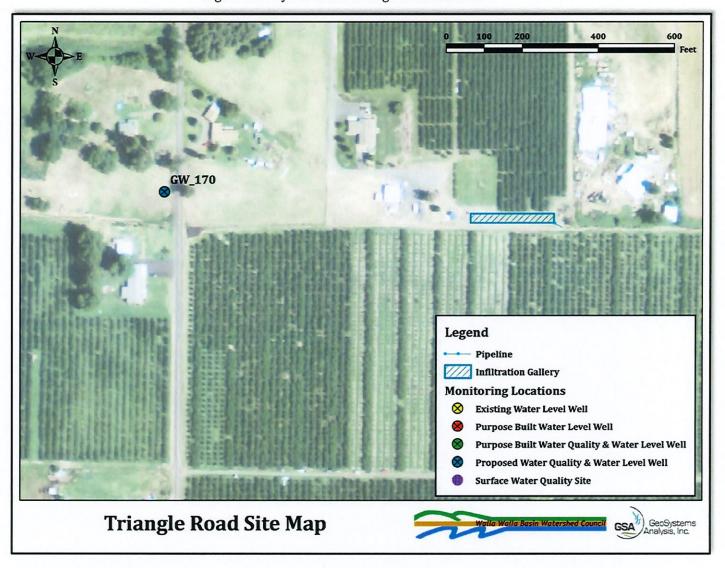


Figure 17. Layout of the Triangle Road AR Site.

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1,200 GW_142 ⊗ Legend GW_117 Pipeline Infiltration Gallery **Monitoring Locations Existing Water Level Well** Purpose Built Water Level Well Purpose Built Water Quality & Water Level Well Proposed Water Quality & Water Level Well **Surface Water Quality Site Trumbull Site Map**

Figure 18. Layout of the Trumbull AR Site.

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Figure 19. Layout of the Miller Road Site.



Figure 20. Photograph of the Miller Road AR Site during Construction.

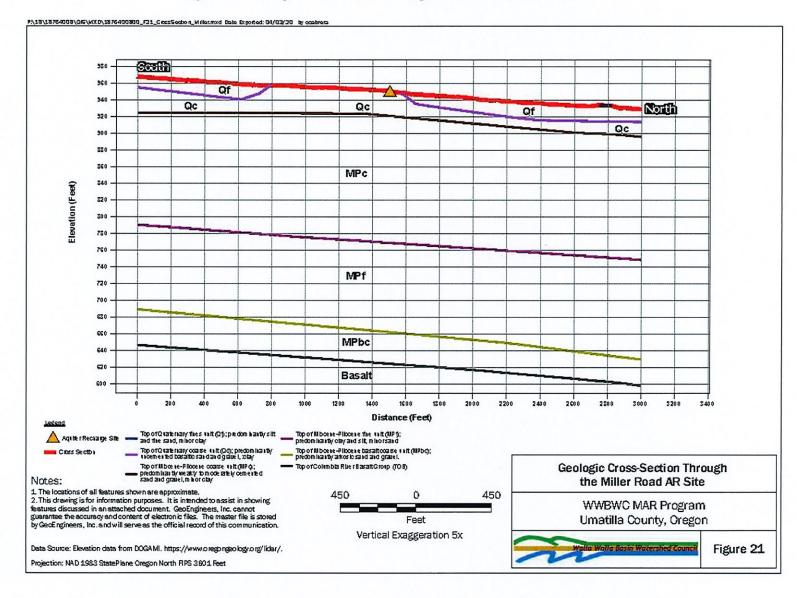


Figure 21. Geologic cross-section through the Miller Road AR Site.

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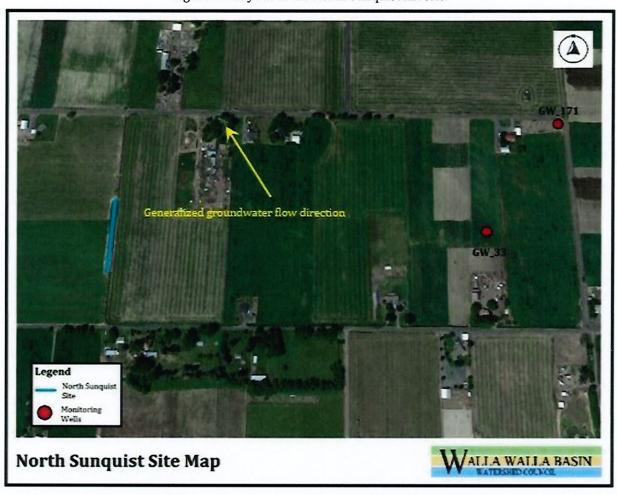


Figure 22. Layout of the North Sunquist AR Site.



Figure 23. Photograph of the North Sunquist AR Site during Construction.

P1\13\13764003\03\MXD\1376400300_F24_GrossSeekon_NorthSunquist.mxd Date Exported:04/03/20 by occabing in NE Aquifer Recharge Site Cross Section Qc 620 Top of Quaternary fines unit (Qf); predominantly silt and fine sand, minor clay 620 Top of Quaternary coarse unit (Qc); predominantly uncemented MPc basaltic sand and gravel, :clay 560 Top of Miocene-Pliocene coarse unit (MPc); predominantly weakly to moderately cemented sand and gravel, minor clay 500 -Top of Miocene-Pliocene fine unit (MP1); predominantly day and silt, minor sand 440 . Top of Columbia River Basalt Group (TOB) 320 -320. MPf 260 . 200 20 Basalt 1200 1500 1200 2100 2400 2700 3000 3300 3500 3500 4200 4500 4200 Distance (Feet) Geologic Cross-Section Through the North Sunquist Road AR Site Notes: 1. The locations of all features shown are approximate.

2. This drawing is for information purposes. It is intended to assist in showing 1,000 1,000 WWBWC MAR Program features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored Umatilla County, Oregon Feet by GeoEngineers, Inc. and will serve as the official record of this communication. Vertical Exaggeration 5x Figure 24 Data Source: Elevation data from DOGAMI. https://www.oregongeology.org/lidar/. la Bosin Wotershed Counc Projection: NAD 1983 StatePlane Oregon North FIPS 3801 Feet

Figure 24. Geologic cross-section through the North Sunquist AR Site.

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F11811876400810/S1MX 011876400800_F27_CrossSection_RuityLaine.mxd Date Disjorted:04/03/20 by occabing West Best Legend Aquiter Recharge Site Qc Cross Section Top of Quaternary fines unit (Qf); predominantly silt and fine sand. minor clay Top of Quaternary coarse unit (Qc); predominantly uncemented MPc basaltic sand and gravel, :clay 720 Top of Miocene-Pliocene coarse unit (MPc); predominantly weakly to moderately cemented sand and gravel, minor clay Top of Miocene-Pliocene fine unit (MPf); predominantly day and Elevation (Feet) silt, minor sand Top of Miocene-Pliocene basalt coarse unit (MPbc); predominantly arkosic sand and gravel. Top of Columbia River Basalt Group (TOB) MPf 520 440 400 MPbc Basalt 1400 1600 1200 2000 2200 2400 2600 2200 3000 3200 3400 Distance (Feet) Geologic Cross-Section Through the Ruby Lane AR Site The locations of all features shown are approximate.
 This drawing is for information purposes. It is intended to assist in showing. 750 750 WWBWC MAR Program features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored Umatilla County, Oregon Feet by GeoEngineers, Inc. and will serve as the official record of this communication. Vertical Exaggeration 5x Data Source: Elevation data from DOGAMI. https://www.oregoingeology.org/lidar/. lla Basin Watershed Counci Figure 25 Projection: NAD 1983 StatePlane Oregon North FIPS 3601 Feet

Figure 25. Geologic cross-section through the Ruby Lane AR Site.

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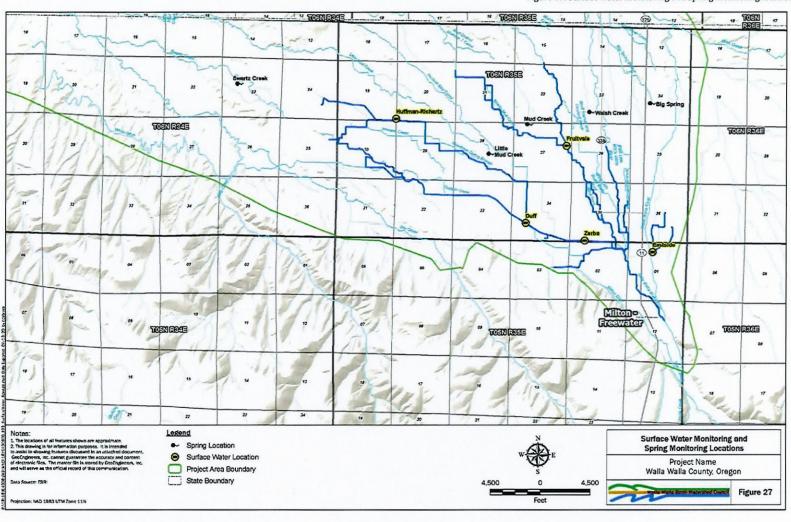
Figure 26. Water level and water quality monitoring locations. 24 O CW_34 20 TOONRESE TOON REGE 1 TOENERESE TOENREEE 22 23 Legend Water Level and Monitoring Locations with AR Program **Water Quality Monitoring Locations** Monitoring Locations with Other Program Project Name Walla Walla County, Oregon △ Aquifer Recharge Sites Project Area Boundary
State Boundary 4,500 Figure 26

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Notes:

Projection: NAD 1983 UTM Zone 11N

Figure 27. Surface water monitoring and spring monitoring locations.



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