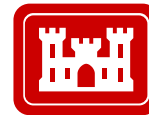




®

Regulatory Program



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INTERIM APPROVED JURISDICTIONAL DETERMINATION FORM

U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in the Interim Approved Jurisdictional Determination Form User Manual.

SECTION I: BACKGROUND INFORMATION

A. COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (AJD): 19 Feb 2019

B. ORM NUMBER IN APPROPRIATE FORMAT (e.g., HQ-2015-00001-SMJ): NWS-2018-1204-WRD

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: WA County/parish/borough: Pierce County City: Lakewood

Center coordinates of site (lat/long in degree decimal format): Lat. 47.149277°, Long. -122.498865°.

Map(s)/diagram(s) of review area (including map identifying single point of entry (SPOE) watershed and/or potential jurisdictional areas where applicable) is/are: ☒ attached ☒ in report/map titled Lakewood Pits Critical Area Findings JSJ Complete Oct 12 2016.

☐ Other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with this action and are recorded on a different jurisdictional determination (JD) form. List JD form ID numbers (e.g., HQ-2015-00001-SMJ-1): .

D. REVIEW PERFORMED FOR SITE EVALUATION:

☐ Office (Desk) Determination Only. Date: .

☒ Office (Desk) and Field Determination. Office/Desk Dates: 2/6/2018 Field Date(s): 12/12/2018.

SECTION II: DATA SOURCES

Check all that were used to aid in the determination and attach data/maps to this AJD form and/or references/citations in the administrative record, as appropriate.

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant. Title/Date: FINAL AJD request letter 11.27.18, Historic Analysis Set 1/11/2019, 47th Ave storm pond property 1/15/2019, Existing Conditions Map 1/17/2019.

☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.

☒ Data sheets/delineation report are sufficient for purposes of AJD form. Title/Date: Combined Forms 1/2/2019.

☒ Data sheets/delineation report are not sufficient for purposes of AJD form. Summarize rationale and include information on revised data sheets/delineation report that this AJD form has relied upon: The applicant provided a document titled "Lakewood Pits Critical Area Findings JSJ Complete Oct 12 2016" which contains incomplete data sheets and outdated information regarding Corps jurisdiction. This document was prepared by J.S. Jones and Associates, Inc., on 12 October 2016. The document provides a map of areas potentially regulated which was used to review the site during inspection. The applicant provided an updated analysis in their AJD Request letter and subsequent data sheets requested by the Corps.. Revised Title/Date: .

☐ Data sheets prepared by the Corps. Title/Date: .

☐ Corps navigable waters study. Title/Date: .

☐ CorpsMap ORM map layers. Title/Date: Error generating maps. No projects on subject property.

☐ USGS Hydrologic Atlas. Title/Date: .

☐ USGS, NHD, or WBD data/maps. Title/Date: .

☐ USGS 8, 10 and/or 12 digit HUC maps. HUC number: .

☐ USGS maps. Scale & quad name and date: .

☒ USDA NRCS Soil Survey. Citation: FINAL AJD request letter 11.27.18.

☒ USFWS National Wetlands Inventory maps. Citation: FINAL AJD request letter 11.27.18.

☒ State/Local wetland inventory maps. Citation: FINAL AJD request letter 11.27.18.

☒ FEMA/FIRM maps. Citation: FINAL AJD request letter 11.27.18.

- ☒ Photographs: ☒ Aerial. Citation: FINAL AJD request letter 11.27.18. or ☐ Other. Citation: .
- ☒ LiDAR data/maps. Citation: FINAL AJD request letter 11.27.18.
- ☐ Previous JDs. File no. and date of JD letter: .
- ☐ Applicable/supporting case law: .
- ☐ Applicable/supporting scientific literature: .
- ☒ Other information (please specify): 1500-foot buffer map, hydric soils map, national floodplain map, USDA Soils units map - generated using CWR tool.

SECTION III: SUMMARY OF FINDINGS

Complete ORM "Aquatic Resource Upload Sheet" or Export and Print the Aquatic Resource Screen from ORM for All Waters and Features, Regardless of Jurisdictional Status – Required

A. RIVERS AND HARBORS ACT (RHA) SECTION 10 DETERMINATION OF JURISDICTION:

- ☐ "navigable waters of the U.S." within RHA jurisdiction (as defined by 33 CFR part 329) in the review area.

• Complete Table 1 - Required

NOTE: If the navigable water is not subject to the ebb and flow of the tide or included on the District's list of Section 10 navigable waters list, DO NOT USE THIS FORM TO MAKE THE DETERMINATION. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Section 10 RHA navigability determination.

B. CLEAN WATER ACT (CWA) SECTION 404 DETERMINATION OF JURISDICTION: "waters of the U.S." within CWA jurisdiction (as defined by 33 CFR part 328.3) in the review area. **Check all that apply.**

- ☐ (a)(1): All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide. (Traditional Navigable Waters (TNWs))

• Complete Table 1 - Required

☐ This AJD includes a case-specific (a)(1) TNW (Section 404 navigable-in-fact) determination on a water that has not previously been designated as such. Documentation required for this case-specific (a)(1) TNW determination is attached.

- ☐ (a)(2): All interstate waters, including interstate wetlands.

• Complete Table 2 - Required

- ☐ (a)(3): The territorial seas.

• Complete Table 3 - Required

- ☐ (a)(4): All impoundments of waters otherwise identified as waters of the U.S. under 33 CFR part 328.3.

• Complete Table 4 - Required

- ☐ (a)(5): All tributaries, as defined in 33 CFR part 328.3, of waters identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• Complete Table 5 - Required

- ☒ (a)(6): All waters adjacent to a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3, including wetlands, ponds, lakes, oxbows, impoundments, and similar waters.

• Complete Table 6 - Required

☐ Bordering/Contiguous.

Neighboring:

☐ (c)(2)(i): All waters located within 100 feet of the ordinary high water mark (OHWM) of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3.

☒ (c)(2)(ii): All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3 and not more than 1,500 feet of the OHWM of such water.

☐ (c)(2)(iii): All waters located within 1,500 feet of the high tide line of a water identified in paragraphs (a)(1) or (a)(3) of 33 CFR part 328.3, and all waters within 1,500 feet of the OHWM of the Great Lakes.

- ☐ (a)(7): All waters identified in 33 CFR 328.3(a)(7)(i)-(v) where they are determined, on a case-specific basis, to have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• Complete Table 7 for the significant nexus determination. Attach a map delineating the SPOE watershed boundary with (a)(7) waters identified in the similarly situated analysis. - Required

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

- ☐ (a)(8): All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3 not covered by (c)(2)(ii) above and all waters located within 4,000 feet of the high tide line or OHWM of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3 where they are determined on a

case-specific basis to have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• **Complete Table 8 for the significant nexus determination. Attach a map delineating the SPOE watershed boundary with (a)(8) waters identified in the similarly situated analysis. - Required**

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

C. NON-WATERS OF THE U.S. FINDINGS:

Check all that apply.

☐ The review area is comprised entirely of dry land.

☐ Potential-(a)(7) Waters: Waters that DO NOT have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• **Complete Table 9 and attach a map delineating the SPOE watershed boundary with potential (a)(7) waters identified in the similarly situated analysis. - Required**

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

☐ Potential-(a)(8) Waters: Waters that DO NOT have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• **Complete Table 9 and attach a map delineating the SPOE watershed boundary with potential (a)(8) waters identified in the similarly situated analysis. - Required**

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

☒ Excluded Waters (Non-Waters of U.S.), even where they otherwise meet the terms of paragraphs (a)(4)-(a)(8):

• **Complete Table 10 - Required**

☐ (b)(1): Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the CWA.

☐ (b)(2): Prior converted cropland.

☐ (b)(3)(i): Ditches with ephemeral flow that are not a relocated tributary or excavated in a tributary.

☐ (b)(3)(ii): Ditches with intermittent flow that are not a relocated tributary, excavated in a tributary, or drain wetlands.

☐ (b)(3)(iii): Ditches that do not flow, either directly or through another water, into a water identified in paragraphs (a)(1)-(a)(3).

☐ (b)(4)(i): Artificially irrigated areas that would revert to dry land should application of water to that area cease.

☐ (b)(4)(ii): Artificial, constructed lakes and ponds created in dry land such as farm and stock watering ponds, irrigation ponds, settling basins, fields flooded for rice growing, log cleaning ponds, or cooling ponds.

☐ (b)(4)(iii): Artificial reflecting pools or swimming pools created in dry land.¹

☐ (b)(4)(iv): Small ornamental waters created in dry land.¹

☒ (b)(4)(v): Water-filled depressions created in dry land incidental to mining or construction activity, including pits excavated for obtaining fill, sand, or gravel that fill with water.

☐ (b)(4)(vi): Erosional features, including gullies, rills, and other ephemeral features that do not meet the definition of tributary, non-wetland swales, and lawfully constructed grassed waterways.¹

☐ (b)(4)(vii): Puddles.¹

☐ (b)(5): Groundwater, including groundwater drained through subsurface drainage systems.¹

☐ (b)(6): Stormwater control features constructed to convey, treat, or store stormwater that are created in dry land.¹

☐ (b)(7): Wastewater recycling structures created in dry land; detention and retention basins built for wastewater recycling; groundwater recharge basins; percolation ponds built for wastewater recycling; and water distributary structures built for wastewater recycling.

☐ Other non-jurisdictional waters/features within review area that do not meet the definitions in 33 CFR 328.3 of (a)(1)-(a)(8) waters and are not excluded waters identified in (b)(1)-(b)(7).

• **Complete Table 11 - Required.**

¹ In many cases these excluded features will not be specifically identified on the AJD form, unless specifically requested. Corps Districts may, in case-by-case instances, choose to identify some or all of these features within the review area.

D. ADDITIONAL COMMENTS TO SUPPORT AJD: The agent for the project, Soundview Consultants LCC, is acting for Pierce County, owner of the subject property. The subject property is approximately 29.08-acres located along 47th Avenue SW, across the street from 12020 47th Avenue SW in the City of Lakewood, Washington and consists of three parcels located in the Northeast ¼ of Section 48 and Northwest ¼ of Section 12, Township 19 North, Range 02 East, W.M. (Pierce County Tax Parcel Numbers 0219122156, 0219122160, and 0219123112)

The agent provided the following paraphrased description of the project in the FINAL AJD request letter dated 27 November 2018:

SITE HISTORY:

Pierce County has owned the subject property for the past 74 years, during which time it has been used for mining aggregates and for stockpiling gravels, soil, and related materials necessary for construction, maintenance, and servicing County roads throughout Pierce County. The sites' proximity immediately south of the planned Interstate 5 corridor and west of the McChord Air Field rendered it a convenient source of aggregate for construction of the highway and the airfield. Interviews with Pierce County Department of Public Works staff confirmed that the County has used this site since their acquisition of the subject property in early 1944. Gravel mining is indicated as early as 1949 according to GIS resources and historical orthophotographs reviewed as part of our assessment (Attachment C). Ongoing gravel mining is noted in orthophotographs dated 1969, 1970, 1974, 1985, 1995, 2005, and 2015.

RESULTS

The 29.08-acre subject property is located in an urban setting and has been used intermittently as a gravel mining site for at least 70 years. The site is bounded by 47th Avenue SW to the west with multi-family residences and undeveloped land beyond, Interstate-5 freeway to the north, railroad tracks to the east with Joint Base Lewis-McChord beyond, and a municipal power facility to the south. Prior to mining activities, the subject property appears to have been situated on an upland terrace, but topography on the site has been anthropogenically modified for decades due to gravel mining and processing activities, materials stockpiling, and wash water settlement. Excavated depressions and material stockpiles are now dispersed throughout the site. In addition, some depressions have been more recently modified to receive additional stormwater effluent associated with County site maintenance activities. Our research clearly indicates that these depressions were artificially created during gravel extraction. The depressions that remained after gravel extraction were subsequently used as settlement ponds to retain and infiltrate wash water associated with gravel processing, which had the effect of filling the surface voids between native soil/gravel particles, thus reducing soil permeability, causing water to pond temporarily, and allowing the artificial development of wetland conditions in areas that would otherwise infiltrate.

The agent has provided sufficient information both through their site research in the request for an AJD (containing mapped geospatial analysis as well as historic aerial photography), and thorough their site investigations completed with the Corps and the Washington State Department of Ecology. Additional information and data collection was requested by the Corps following a site visit on 12 December 2018. The applicant provided the information sufficient to complete this jurisdictional determination.

The Corps identified one (1) jurisdictional (a)(6) water of the U.S., and ten (10) areas excluded by rule. Analysis of each specific site in on the subject property is detailed in Table 6 and Table 10 below. .

Jurisdictional Waters of the U.S.

Default field entry is "N/A". Delete "N/A" and fill out all fields in the table where applicable for waters/features present in the review area.

Table 1. (a)(1) Traditional Navigable Waters

(a)(1) Waters Name	(a)(1) Criteria	Rationale to Support (a)(1) Designation Include High Tide Line or Ordinary High Water Mark indicators, when applicable.
N/A	Choose an item.	N/A

Table 2. (a)(2) Interstate Waters

(a)(2) Waters Name	Rationale to Support (a)(2) Designation
N/A	N/A

Table 3. (a)(3) Territorial Seas

(a)(3) Waters Name	Rationale to Support (a)(3) Designation
N/A	N/A

Table 4. (a)(4) Impoundments

(a)(4) Waters Name	Rationale to Support (a)(4) Designation
N/A	N/A
N/A	N/A

Table 5. (a)(5)Tributaries

(a)(5) Waters Name	Flow Regime	(a)(1)-(a)(3) Water Name to which this (a)(5) Tributary Flows	Tributary Breaks	Rationale for (a)(5) Designation and Additional Discussion. Identify flowpath to (a)(1)-(a)(3) water or attach map identifying the flowpath; explain any breaks or flow through excluded/non-jurisdictional features, etc.
N/A	Choose an item.	N/A	Choose an item.	N/A
N/A	Choose an item.	N/A	Choose an item.	N/A
N/A	Choose an item.	N/A	Choose an item.	N/A
N/A	Choose an item.	N/A	Choose an item.	N/A

Table 6. (a)(6) Adjacent Waters

(a)(6) Waters Name	(a)(1)-(a)(5) Water Name to which this Water is Adjacent	Rationale for (a)(6) Designation and Additional Discussion. Identify the type of water and how the limits of jurisdiction were established (e.g., wetland, 87 Manual/Regional Supplement); explain how the 100-year floodplain and/or the distance threshold was determined; whether this water extends beyond a threshold; explain if the water is part of a mosaic, etc.
Wetland P	Clover Creek (a)(5)	<p>The agent for this work, Soundview Consultants, LLC., at the request of the Corps following a site visit and review of the above material, performed a site inspection at the area identified as Wetland P and provided data forms dated 2 January 2019. This area was investigated in part based on a previous report which identified the area as Dupont Muck under the NRCS Web Soil Survey, however a delineation had not been performed in previous surveys. The area was delineated using the 87 Manual and Regional Supplement for WMVC. Per the attached Existing Conditions map and the attached wetland determination data forms, this area was identified as a Category IV wetland with an area of 1,013 square feet, and meets the Corps' definition of a wetland.</p> <p>Clover Creek is a creek in Pierce County, Washington. Clover Creek rises near Frederickson, flows through Spanaway and Parkland, is diverted under the main runway of Joint Base Lewis McChord and Interstate 5, and into Lakewood, where it spills into</p>

		<p>Lake Steilacoom. Lake Steilacoom is a reservoir approximately 2.5 miles southwest of Tacoma in Pierce County, Washington. Its boundaries lie entirely within the city of Lakewood, Washington. The reservoir covers approximately 306 acres, has a mean depth of 11 feet and a maximum depth of 20 feet. Lake Steilacoom is a freshwater lake and drains into Puget Sound via Chambers Creek, which begins at its northern tip.</p> <p>Most of the project site, including Wetland P lies within the 100-year floodplain. Additionally, Wetland P is a minimum 600-foot, and a maximum 750-foot distance from Clover Creek.</p> <p>Wetland P is jurisdictional as an (a)(6) water of the U.S.</p>
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Table 7. (a)(7) Waters

SPOE Name	(a)(7) Waters Name	(a)(1)-(a)(3) Water Name to which this Water has a Significant Nexus	Significant Nexus Determination Identify SPOE watershed; discuss whether any similarly situated waters were present and aggregated for SND; discuss data, provide analysis, and summarize how the waters have more than speculative or insubstantial effect on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water, etc.
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Table 8. (a)(8) Waters

SPOE Name	(a)(8) Waters Name	(a)(1)-(a)(3) Water Name to which this Water has a Significant Nexus	Significant Nexus Determination Identify SPOE watershed; explain how 100-yr floodplain and/or the distance threshold was determined; discuss whether waters were determined to be similarly situated to subject water and aggregated for SND; discuss data, provide analysis, and then summarize how the waters have more than speculative or insubstantial effect the on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water, etc.
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Non-Jurisdictional Waters

Default field entry is "N/A". Delete "N/A" and fill out all fields in the table where applicable for waters/features present in the review area.

Table 9. Non-Waters/No Significant Nexus

SPOE Name	Non-(a)(7)/(a)(8) Waters Name	(a)(1)-(a)(3) Water Name to which this Water DOES NOT have a Significant Nexus	Basis for Determination that the Functions DO NOT Contribute Significantly to the Chemical, Physical, or Biological Integrity of the (a)(1)-(a)(3) Water. Identify SPOE watershed; explain how 100-yr floodplain and/or the distance threshold was determined; discuss whether waters were determined to be similarly situated to the subject water; discuss data, provide analysis, and summarize how the waters did not have more than a speculative or insubstantial effect on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water.
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Table 10. Non-Waters/Excluded Waters and Features

Paragraph (b) Excluded Feature/Water Name	Rationale for Paragraph (b) Excluded Feature/Water and Additional Discussion.
Excavated Depression A	This area covers 24,600 square feet, and is located at 47.149249°, -122.498563° running parallel to 47 th Avenue Southwest on the northwestern area of the subject property. During the site inspection the area was ponded with water in depressed pools, but the surface was mostly dry after a period of normal rainfall. Angular stone and cobble with silt infiltration spanned the site, with some berms allowing growth of upland tree species. Historic aerial photography provided by the agent provides evidence this area was used as a source for obtaining fill. This area is not a water of the U.S. based on section b4v: "Water-filled depressions created in dryland incidental to mining or construction activity including pits excavated for obtaining fill, sand, or gravel that fill with water."
Excavated Depression B	This area covers 5,900 square feet, and is located at 47.150302°, -122.497843° running parallel to Interstate 5 on the northern area of the subject property. During the site inspection the area was dry soil with some muddy areas that had been recently disturbed from foot traffic, but the surface was mostly dry after a period of normal rainfall. A layer of at least six inches of soil covered angular rock and cobble, with upland and wetland shrub species intermixed. Historic aerial photography provided by the agent provides evidence this area was used as a source for obtaining fill. This area is not a water of the U.S. based on section b4v: "Water-filled depressions created in dryland incidental to mining or construction activity including pits excavated for obtaining fill, sand, or gravel that fill with water."
Excavated Depression C	This area covers 1,750 square feet, and is located at 47.150095°, -122.497479° to the southeast of Excavated Depression B on the subject property. During the site inspection the area was dry soil with some muddy areas that had been recently disturbed from foot traffic, but the surface was mostly dry after a period of normal rainfall. A layer of at least six inches of soil covered angular rock and cobble, with upland and wetland shrub species intermixed. Historic aerial photography provided by the agent provides evidence this area was used as a source for obtaining fill. This area is not a water of the U.S. based on section b4v: "Water-filled

	depressions created in dryland incidental to mining or construction activity including pits excavated for obtaining fill, sand, or gravel that fill with water.”
Excavated Depression D	This area covers 28,000 square feet, and is located at 47.150603°, -122.496992° running parallel to Interstate 5 on the Northern-most area of the subject property. During the site inspection the area was inaccessible on all sides from either fencing or extreme topography. Visual inspection from a distance of 50 feet indicated the area was entirely ponded with standing water. The area was thick with upland trees and wetland shrub species, and subsequent research from the agent indicates the area is currently used as a storwater discharge point from the interstate. Historic aerial photography provided by the agent provides evidence this area was used as a source for obtaining fill. This area is not a water of the U.S. based on section b4v: “Water-filled depressions created in dryland incidental to mining or construction activity including pits excavated for obtaining fill, sand, or gravel that fill with water.”
Excavated Depression E	This area covers 17,400 square feet, and is located at 47.148074°, -122.497097° on the central-eastern area of the subject property. During the site inspection the area was dry soil with some muddy areas, but the surface was mostly dry after a period of normal rainfall. The ground was soft soil, and it could not be determined during the site visit if the area had been historically used for mining, nor what type of soils were present. Vegetation was thick upland and wetland shrubs with large felled wood. The Corps requested the agent conduct a soil probe, which resulted in a determination the area was compacted gravel and cobble within the first 9 inches of depth. Historic aerial photography provided by the agent provides evidence this area was used as a source for obtaining fill. This area is not a water of the U.S. based on section b4v: “Water-filled depressions created in dryland incidental to mining or construction activity including pits excavated for obtaining fill, sand, or gravel that fill with water.”
Excavated Depression F	This area covers 24 square feet, and is located at 47.148206°, -122.497615° on the central-eastern area of the subject property, to the west of Excavated Depression E. This area was likely connected to Excavated Depression E as a part of the mining operation, but has been separated by normal topographic changes and/or grading over time as the operation expanded on the property. Historic aerial photography provided by the agent provides evidence this area was used as a source for obtaining fill. This area is not a water of the U.S. based on section b4v: “Water-filled depressions created in dryland incidental to mining or construction activity including pits excavated for obtaining fill, sand, or gravel that fill with water.”
Excavated Depression G	This area covers 5,800 square feet, and is located at 47.14752°, -122.497436° on the central-eastern area of the subject property, to the southwest of Excavated Depression E. This area was likely connected to Excavated Depression E as a part of the mining operation, but is elevated above the surrounding topography and did not show wetland plant indicators during the site inspection. The area was identified in a 2016 report by J. S. Jones and Associates, Inc., as having no hydric soils. This area may not qualify as a wetland based on lack of hydric soils and vegetation entirely, however the historic aerial photography provided by the agent provides evidence this area was used as a source for obtaining fill. Although surface water was not present at the time of site visit, this area would not be considered a water of the U.S. based on section b4v: “Water-filled depressions created in dryland incidental to mining or construction activity including pits excavated for obtaining fill, sand, or gravel that fill with water.”
Excavated Depression L	This area covers 46,700 square feet, and is located at 47.145822°, -122.497122° on the south-eastern area of the subject property running parallel to the railroad. During the site inspection the area mucky with pooled water and wetland plant indicator species intermixed with upland trees. This area showed similar characteristics to Excavated Depression E. Historic aerial photography provided by the agent provides evidence this area was used as a source for obtaining fill. This area is not a water of the U.S. based on section b4v: “Water-filled depressions created in dryland incidental to mining or construction activity including pits excavated for obtaining fill, sand, or gravel that fill with water.”

Excavated Depression M	This area covers 30,400 square feet, and is located at 47.146111°, -122.498654° running parallel to 47 th Avenue Southwest on the southwestern area of the subject property. During the site inspection the area was ponded with water in shallow depressed puddles, but the surface was mostly dry after a period of normal rainfall. Angular stone and cobble with silt infiltration spanned the site, with some berms allowing growth of upland tree species. Historic aerial photography provided by the agent provides evidence this area was used as a source for obtaining fill. This area is not a water of the U.S. based on section b4v: "Water-filled depressions created in dryland incidental to mining or construction activity including pits excavated for obtaining fill, sand, or gravel that fill with water."
Excavated Depression O	This area covers 725 square feet, and is located at 47.146482°, -122.498444° on the southwestern area of the subject property to the northeast of Excavated Depression M. This area could not be clearly identified as separate from Excavated Depression M during the site inspection, and due to its proximity was likely connected to that area as a part of normal mining operations. Historic aerial photography provided by the agent provides evidence this area was used as a source for obtaining fill. This area is not a water of the U.S. based on section b4v: "Water-filled depressions created in dryland incidental to mining or construction activity including pits excavated for obtaining fill, sand, or gravel that fill with water."

Table 11. Non-Waters/Other

Other Non-Waters of U.S. Feature/Water Name	Rationale for Non-Waters of U.S. Feature/Water and Additional Discussion.
N/A	N/A

LAKEVIEW PITS - HISTORIC IMAGERY ANALYSIS (1941)



Spatial Services

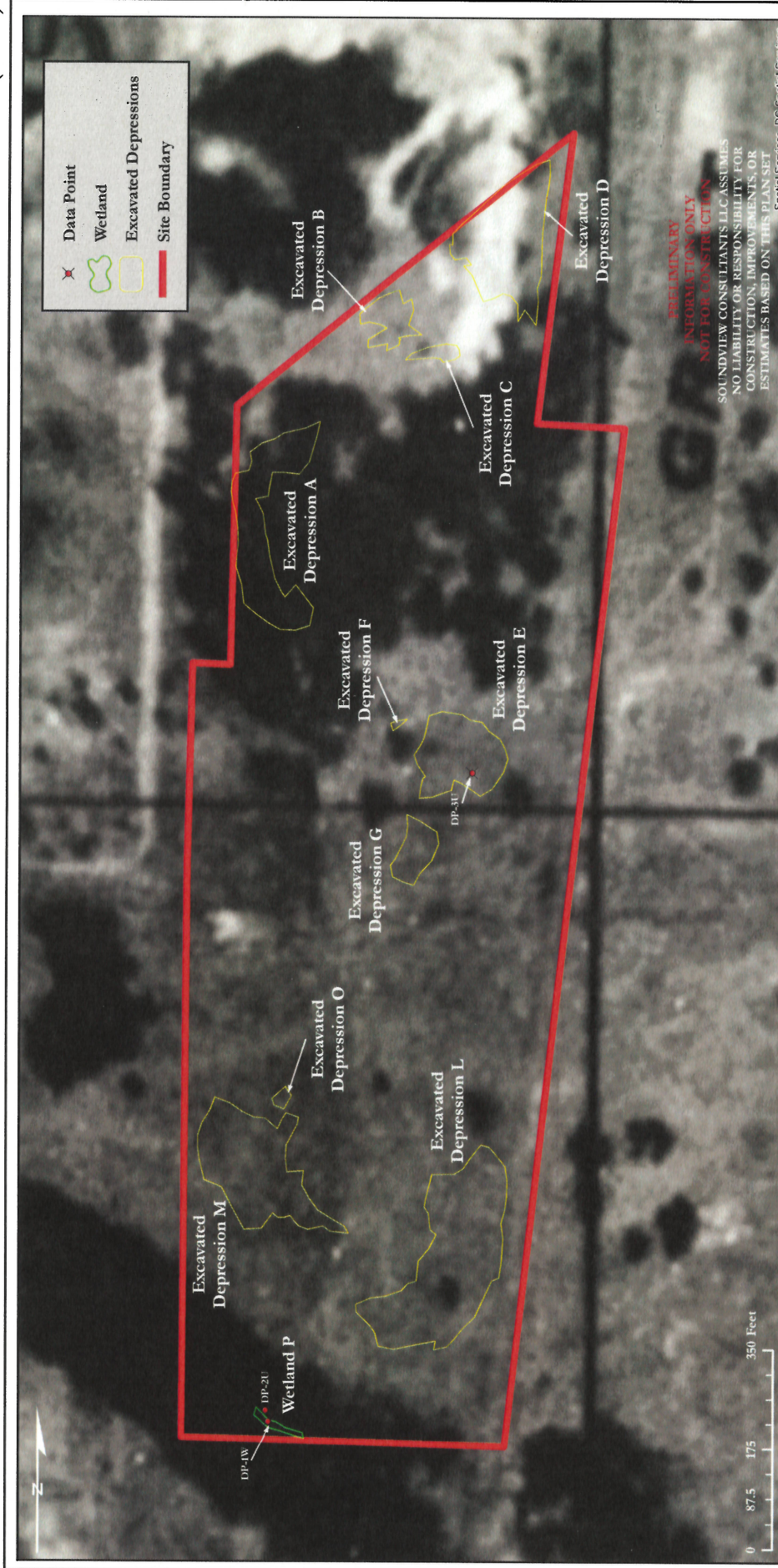
DATE:	1/11/2019
JOB:	1422.0003
BY:	DLS
SCALE:	1" = 175'
FIGURE NO.	1

LAKEVIEW PITS
 XXX 47TH AVE SW
 LAKEWOOD WA 98499
 PIERCE COUNTY PARCEL NUMBERS:
 0219122156, 0219122160, AND 0219123112



Soundview Consultants LLC
 Environmental Assessment • Planning • Land Use Solutions
 2907 Harborview Dr, Suite D, Gig Harbor, WA 98335
 Phone: (253) 514-8952 Fax: (253) 514-8954
www.soundviewconsultants.com

LAKEVIEW PITTS - HISTORIC IMAGERY ANALYSIS (1945)



DATE:	1/11/2019
JOB:	1422.0003
BY:	DLS
SCALE:	1" = 175'
FIGURE NO.	2

LAKEVIEW PITTS
 XXX 47TH AVE SW
 LAKEWOOD WA 98499
 PIERCE COUNTY PARCEL NUMBERS:
 0219122156, 0219122160, AND 0219123112

Soundview Consultants LLC
 Environmental Assessment • Planning • Land Use Solutions
 2907 Harborview Dr., Suite D, Gig Harbor, WA 98335
 Phone: (253) 514-8952 Fax: (253) 514-8954
www.soundviewconsultants.com

LAKEVIEW PITS - HISTORIC IMAGERY ANALYSIS (1957)



Spatial Services

DATE:	1/11/2019
JOB:	1422.0003
BY:	DLS
SCALE:	1" = 175'
FIGURE NO.	3

LAKEVIEW PITS

XXX 47TH AVE SW
LAKEWOOD WA 98499

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Approx. pond
location

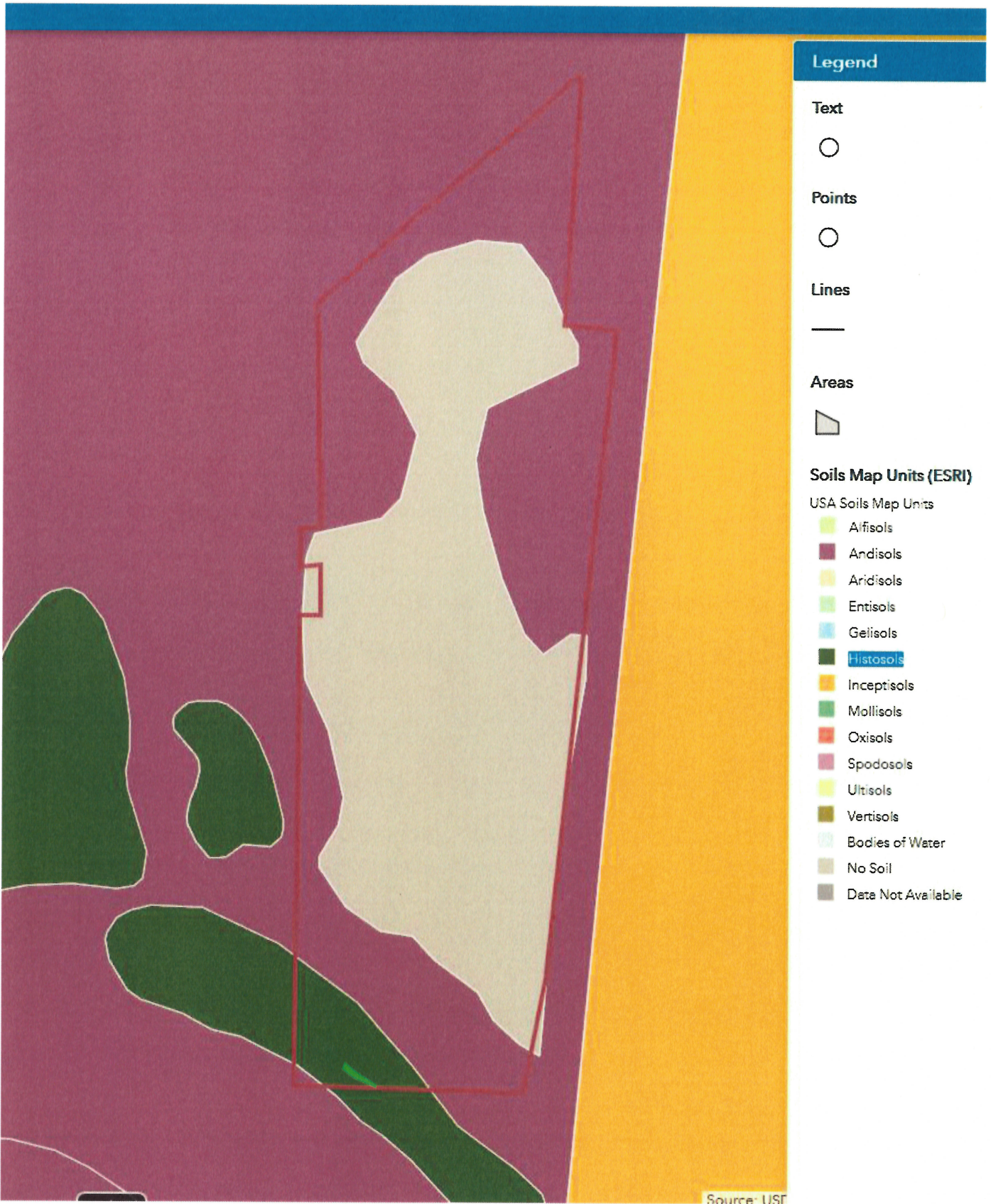
Discharge pipe from
Pac Hwy stormwater
pumpstation

15HWY S
15HWY N

1/15/2019
esri®

30m

CITY OF LAKEWOOD GIS, Pierce County GIS.
CITY OF LAKEWOOD GIS
CITY OF LAKEWOOD GIS, Pierce County Public Works and Utilities Survey Section.



1500-foot-buffer Clover Creek



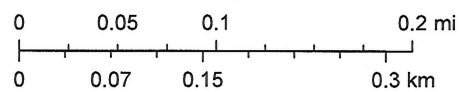
February 1, 2019

1:6,151

- Override 1
- Clover_Creek_1500_foot_buffer - Clover_Creek_1500_foot_buffer
- Playa
- Reservoir

Waterbody - Large Scale

- Estuary
- Ice Mass
- LakePond



USGS TNM – National Hydrography Dataset. Data Refreshed January, 2019., Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community. Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Clean Waters Rule

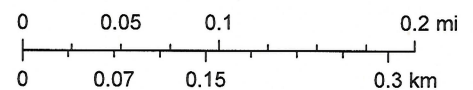
National Flood Plain Map



February 1, 2019

1:6,151

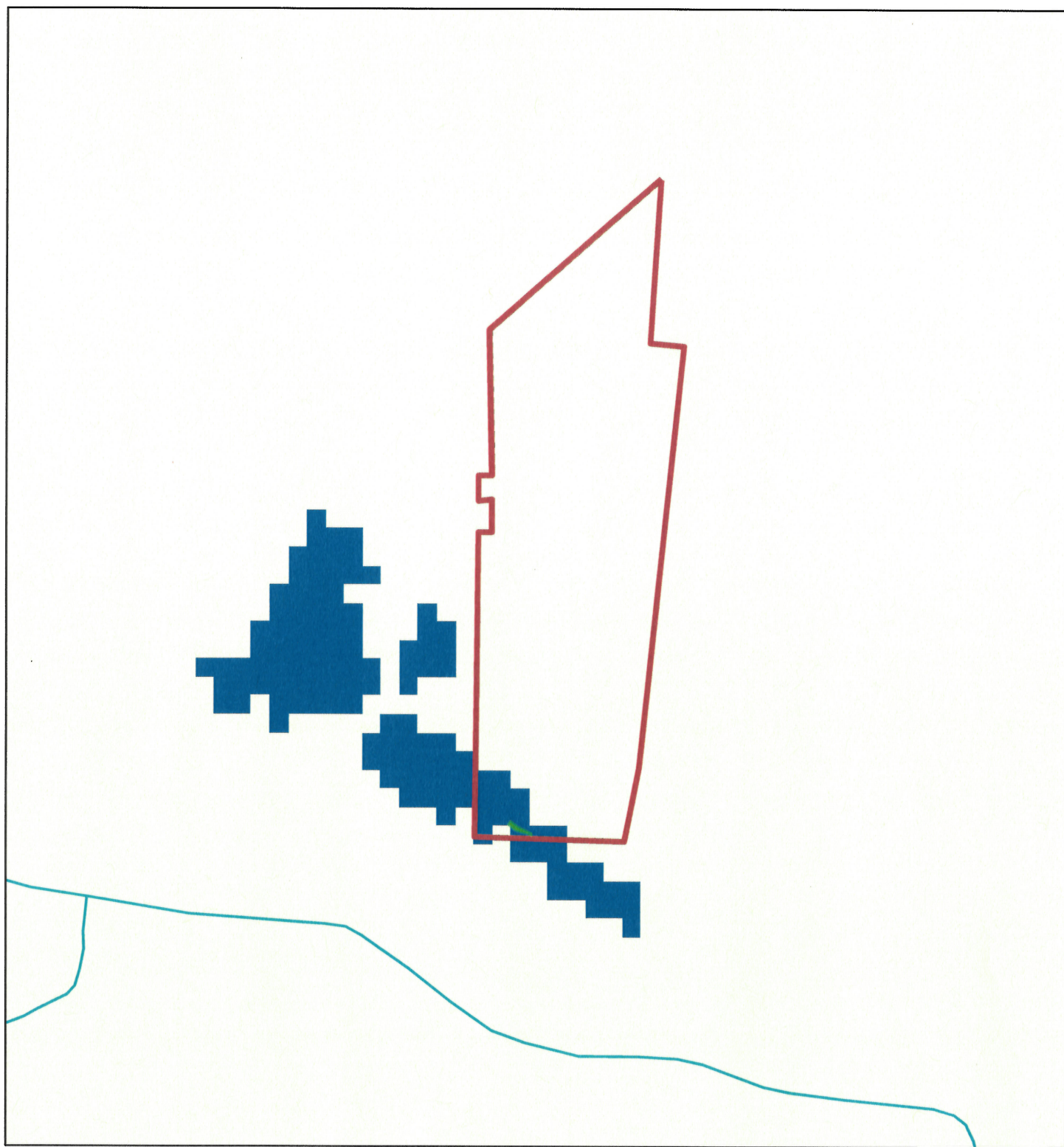
- Override 1
- Area of Undetermined Flood Hazard
- 1% Annual Chance Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway



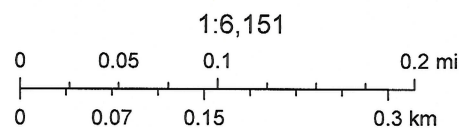
Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Clean Waters Rule

Hydric Soils Class (in blue)



February 1, 2019



Source: USDA NRCS, Esri, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Clean Waters Rule

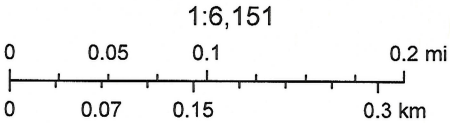
Source: USDA NRCS, Esri | USGS TNM – National Hydrography Dataset. Data Refreshed January, 2019. | Source: USGS, EPA | Source: USFWS | USACE | USDA FSA, DigitalGlobe, GeoEye, CNES/Airbus DS |

Review Area and Clover Creek



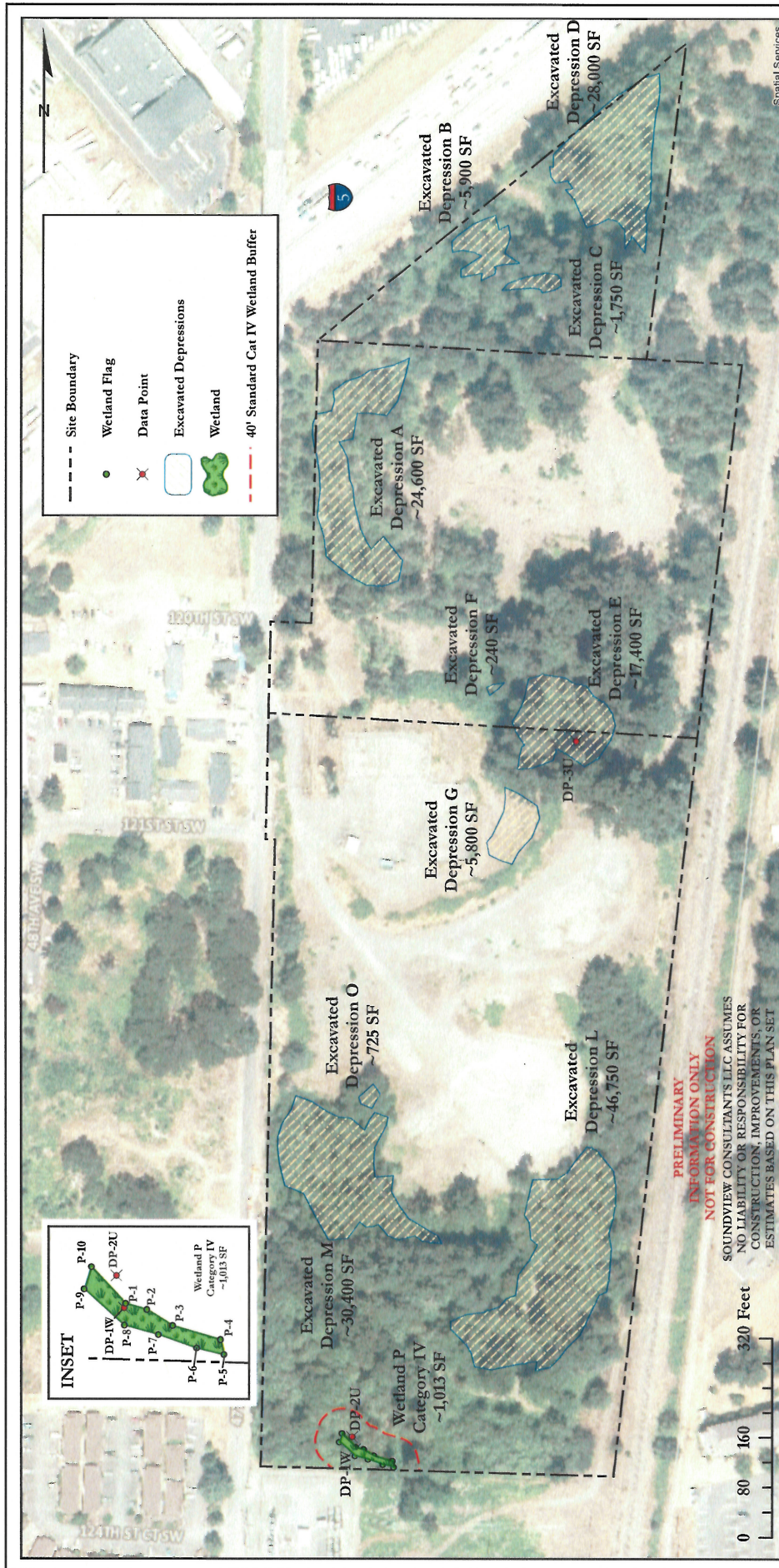
February 1, 2019

— Override 1



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LAKEVIEW PITS - EXISTING CONDITIONS MAP



DATE:	1/17/2019
JOB:	1422.0003
BY:	RJK
SCALE:	1" = 160'
FIGURE NO.	1

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