

30 September 2021

Ms. Sandy Lancaster
Dallas/Fort Worth International Airport
Environmental Affairs Department
3003 South Service Road, Annex Building A
DFW Airport, Texas 75261-9428

Re: CTA Development Project - Waters of the United States Delineation & Desktop Assessment

Approximately 69 acres across 13 different sites within the DFW International Airport CTA Terminals A and C Development Project located on the DFW International Airport complex, Dallas and Tarrant Counties,

Texas

Dear Ms. Lancaster,

Integrated Environmental Solutions, LLC (IES) performed a site survey and desktop review to identify any aquatic features that meet a definition of a water of the United States on approximately 69 acres across 13 different sites within the DFW Airport CTA Terminals A and C Development Project located on the DFW International Airport complex, Dallas and Tarrant Counties, Texas. A desktop evaluation was conducted on Sites 1 through 7 as they were not able to be accessed due to airport regulations. A site survey was conducted on Sites 8 through 13 as they were able to be accessed via public roadways (Attachment A, Figure 1). This report will ultimately assess and delineate potentially jurisdictional aquatic features to ensure compliance with Sections 401 and 404 of the Clean Water Act (CWA).

INTRODUCTION

Waters of the United States are protected under guidelines outlined in Sections 401 and 404 of the CWA, in Executive Order (EO) 11990 (Protection of Wetlands), and by the review process of the Texas Commission on Environmental Quality (TCEQ). Agencies that regulate impacts to the nation's water resources within Texas include the U.S. Army Corps of Engineers (USACE), the U.S. Environmental Protection Agency (USEPA), the U.S. Fish and Wildlife Service (USFWS), and the TCEQ. The USACE has the primary regulatory authority for enforcing Section 404 requirements for waters of the United States.

The decision for whether a Section 404 of the CWA permit is required on a property is determined if there are waters of the United States present and the extent of losses of those features. The USACE and EPA have gone through rulemaking to define what is a water of the United States, independently and jointly, several times since the initial CWA. The longest standing definitions of waters of the United States were those published in 1986; however, these definitions were challenged in 2001 and 2007 U.S. Supreme Court decisions. Since then, both the Obama and Trump administration completed rulemaking to modify the definitions of waters of the United States in the Clean Water Rule in 2016 and the Navigable Water Protection Rule (NWPR) in 2020. A recent federal district court decision in Arizona struck down the NWPR but was silent on which definitions of waters of the United States would replace it. As of the date of this letter report, the USACE Fort Worth District has provided verbal guidance that the USACE will be utilizing the pre-2015 definitions (i.e., 1986 definitions combined with the *Rapanos* and *Carabell* U.S. Supreme Court decisions) to define waters of the United States. Please note, at this time there is no written guidance from USACE on this decision and whether the federal district court ruling actually applies nationwide. Furthermore, it is uncertain as to whether there will be any appeal to the federal appellate court. Therefore, this report will analyze all aquatic features within the project site to determine their applicability under both NWPR and the 1986 Rule.

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Navigable Waters Protection Rule (Effective 22 June 2020)

The streamlined regulations have redefined waters of the United States as the following at 33 Code of Federal Regulations (CFR) 328.3 (a) as:

- 1. The territorial seas, and waters which are currently used or were used in the past, or may be susceptible to use in interstate or foreign commerce, including waters which are subject to the ebb and flow of the tide;
- 2. Tributaries;
- 3. Lakes and ponds, and impoundments of jurisdictional waters; and
- 4. Adjacent wetlands

The following features are excluded from jurisdiction at 33 CFR 328.3 (b) as:

- Lake/pond/impoundment or wetland that does not contribute surface water flow directly or indirectly to an
 (a)(1) water and is not inundated by flooding from an (a)(1)-(a)(3) water in a typical year, surface water
 channel that does not contribute surface water flow directly or indirectly to an (a)(1) water in a typical year,
 or Water or water feature that is not identified in (a)(1)-(a)(4) and does not meet the other (b)(1) subcategories;
- Groundwater, including groundwater drained through subsurface drainage systems;
- 3. Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool;
- 4. Diffuse stormwater run-off over upland or directional sheet flow over upland;
- 5. Ditch that is not an (a)(1) or (a)(2) water;
- 6. Prior converted cropland;
- 7. Artificially irrigated area, including fields flooded for agricultural production, that would revert to upland should application of irrigation water to that area cease;
- 8. Artificial lake/pond constructed or excavated in upland or a non-jurisdictional water, so long as the artificial lake or pond is not an impoundment of a jurisdictional water;
- 9. Water-filled depression constructed/excavated in upland/non-jurisdictional water incidental to mining/construction or pit excavated in upland/non-jurisdictional water to obtain fill/sand/gravel;
- 10. Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff;
- 11. Groundwater recharge, water reuse, or a wastewater recycling structure constructed or excavated in upland or in a non-jurisdictional water; and
- 12. Waste treatment system.

Further definitions located at 33 CFR 328.3 (c) include:

- (1) Adjacent wetlands. The term adjacent wetland means wetlands that:
 - Abut, meaning to touch at least one point or side of, a water identified in paragraph (a)(1), (2), or
 (3) of this section;
 - ii. Are inundated by flooding from a water identified in paragraph (a)(1), (2), or (3) of this section in a typical year;
 - iii. Are physically separated from a water identified in paragraph (a)(1), (2), or (3) of this section only by an artificial dike, barrier, or similar artificial structure so long as that structure allows for a direct hydrologic surface connection between the wetlands and the water identified in paragraph (a)(1), (2), or (3) of the section in atypical year, such as through a culvert, flood or tide gate, pump, or similar artificial feature. An adjacent wetland is jurisdictional in its entirety when a road or similar

artificial structure divides the wetland, as long as the structure allows for direct hydrologic connection through or over that structure in a typical year.

- (6) Lakes and ponds, and impoundments of jurisdictional waters. The term lakes and ponds, and impoundments of jurisdictional waters means standing bodies of open water that contribute surface water flow to a water identified in paragraph (a)(1) of this section in a typical year either directly or through one or more waters identified in paragraph (a)(2), (3), or (4) of this section. A lake, pond, or impoundment of a jurisdictional water does not lose its jurisdictional status if it contributes surface water flow to a downstream jurisdictional water in a typical year through a channelized nonjurisdictional surface water feature, through a culvert, dike, spillway, or similar artificial feature, or through a debris pile, boulder field, or similar natural feature. A lake or pond, or impoundment of a jurisdictional water is also jurisdictional if it is inundated by flooding from a water identified in paragraph (a)(1), (2), or (3) of this section in a typical year.
- (12) Tributary. The term tributary means a river, stream, or similar naturally occurring surface water channel that contributes surface water flow to a water identified in paragraph (a)(1) of this section in a typical year either directly or through one or more waters identified in paragraph (a)(2), (3), or (4) of this section. A tributary must be perennial or intermittent in a typical year. The alteration or relocation of a tributary does not modify its jurisdictional status as long as it continues to satisfy the flow conditions of this definition. A tributary does not lose its jurisdictional status if it contributes surface water flow to a downstream jurisdictional water in a typical year through a channelized nonjurisdictional surface water feature, through a subterranean river, through a culvert, dam, tunnel, or similar artificial feature, or through a debris pile, boulder field, or similar natural feature. The term tributary includes a ditch that either relocates a tributary, is constructed in a tributary, or is constructed in an adjacent wetland as long as the ditch satisfies the flow conditions of this definition.

1986 Waters of the United States Definitions and Rapanos Decision

The definition of waters of the United States, in 33 CFR 328.3, includes waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, wetlands, sloughs, wet meadows, or natural ponds and all impoundments of waters otherwise defined as waters of the United States. Also included are wetlands adjacent to waters (other than waters that are themselves wetlands). The term *adjacent* is defined as bordering, contiguous, or neighboring. Jurisdictional wetlands are a category of waters of the United States and have been defined by the USACE as areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

Waters of the United States are defined in 33 CFR 328.3 (a), 13 November 1986, as:

- 1. All waters which are currently used, or 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;
- 2. All interstate waters including interstate wetlands;
- 3. All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation, or destruction of which could affect interstate or foreign commerce including any such waters:
 - i. Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
 - ii. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
 - iii. Which are used or could be used for industrial purposes by industries in interstate commerce;
- 4. All impoundments of waters otherwise defined as waters of the United States under the definition;
- 5. Tributaries of waters identified in paragraphs (a)(1)-(4) of this section;
- 6. The territorial seas;

7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a)(1)-(6) of this section.

On 05 June 2007, the USACE and the USEPA issued joint guidance on delineation of waters on the United States based on the U.S. Supreme Court decisions in *Rapanos* and *Carabell*. Under this guidance, potential waters of the United States have been classified as traditional navigable waters (TNW), relatively permanent waters (RPW) (i.e., having flow most of the year or at least seasonally), or non-RPWs. This guidance states that TNWs and RPWs and contiguous or adjacent wetlands to these aquatic features are waters of the United States. Wetlands that are bordering, contiguous, or neighboring another water of the United States is considered adjacent. Additionally, wetlands that are within the 100-year floodplain of another water of the United States are also considered adjacent. Non-RPWs, wetlands contiguous or adjacent to non-RPWs, and isolated wetlands must undergo a "significant nexus" test on a case-by-case basis to determine the jurisdictional nature of these aquatic features. Under the "significant nexus" test a water feature must have substantial connection to a TNW by direct flow, or by indirect biological, hydrologic, or chemical connection. Under the "significant nexus" test the USACE District Engineer must submit the jurisdictional determination (JD) to the regional USEPA office, which makes the decision whether to move the JD to Headquarters USACE to make the final determination.

This guidance does not void the January 2001 decision of the U.S. Supreme Court in Solid Waste Agency of Northern Cook County (SWANCC) v. USACE which disallowed regulation of isolated wetlands under the CWA through the "Migratory Bird Rule." Previously, the USACE assumed jurisdiction over isolated waters of the United States based on its 1986 preamble stating that migratory birds used these habitats. The "Migratory Bird Rule" provided the nexus to interstate commerce and thus protection under the CWA. However, the new guidance does require that the "significant nexus" test be performed in addition to an analysis of other potential interstate commerce uses for isolated waters.

METHODOLOGY

Prior to conducting the desktop evaluation and fieldwork, the U.S. Geological Survey (USGS) topographic map (Attachment A, Figures 2A and 2B), the *Soil Survey of Dallas County* and *the Soil Survey of Tarrant County, Texas*, and the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) digital soil databases for Dallas and Tarrant Counties (Attachment A, Figure 3), the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) (Attachment A, Figure 4), and recent and historic aerial photographs of the proposed survey area were studied to identify possible aquatic features that could meet the definition of waters of the United States and areas prone to wetland development. Ms. Karisa Fenton and Ms. Claire Unruh of IES conducted the delineation in the field in accordance with the USACE procedures on 22 September 2021.

Wetland determinations and delineations were performed on location using the methodology outlined in the 1987 Corps of Engineers Wetland Delineation Manual and the Regional Supplement to the Corps of Engineer Wetland Delineation Manual: Great Plains Region (Version 2.0). The presence of a wetland is determined by the positive indication of three criteria (i.e., hydrophytic vegetation, hydrology, and hydric soils). Potential jurisdictional boundaries for other water features (i.e., non-wetland) were delineated in the field at the ordinary high-water mark (OHWM). The 33 CFR 328.3 (c)(7) defines OHWM as the line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

Water feature boundaries were recorded on a Trimble GeoExplorer XT Global Positioning System (GPS) unit capable of sub-meter accuracy. Photographs were also taken at representative points within the survey area (**Attachment B**). Routine wetland determination data forms are provided in **Attachment C**. Historic aerial photographs, from Environmental Data Resources, Inc. (EDR), were used in the jurisdictional determination of some aquatic features, are included in **Attachment D**.

RESULTS

Background Review

Topographic Setting

The USGS topographic maps (Grapevine 7.5' Quadrangle 1959, revised 1982; Euless 7.5' Quadrangle 1959; revised 1992) illustrate one blue line feature within the survey area. The blue line feature is depicted meandering through the southern region of Site 8 and continuing into the northwestern region of Site 9, oriented southwest-to-northeast (see Attachment A, Figure 2A). The 2019 version of the Grapevine and Euless 7.5' Quadrangle maps illustrates the blue line feature in similar alignment (see Attachment A, Figure 2B). The overall topography was illustrated with slopes oriented west-to-east in Sites 1 through 11 and north-to-south in Sites 12 and 13. The maximum elevation of the property was approximately 580 feet above mean sea level (amsl) and a minimum elevation of approximately 520 feet amsl.

<u>Soils</u>

The Soil Survey of Dallas County, Texas identified four soil map units within the survey area, Ferris-Heiden complex, 5 to 12 percent slopes; Heiden clay, 1 to 3 percent slopes; Heiden clay, 2 to 5 percent slopes, eroded; and Houston Black-Urban land complex, 0 to 4 percent slopes. The Soil Survey of Tarrant County, Texas identified four soil map units within the survey area, Heiden clay, 1 to 3 percent slopes; Houston Black clay, 1 to 3 percent slopes; Houston Black-Urban land complex, 1 to 4 percent slopes; and Urban land. None of these soil map units were listed as a hydric soil on the Hydric Soils of Texas list prepared by the National Technical Committee for Hydric Soils (accessed 29 September 2021, Dallas and Tarrant Counties, Texas) (see Attachment A, Figure 3). Hydric soils are described as those soils that are sufficiently wet in the upper part to develop anaerobic conditions during the growing season.

FEMA FIRM

The FEMA FIRM (Dallas and Tarrant Counties; Map Panel 4439C0120K; effective 25 September 2009; 48113C0145K; effective 07 July 2014 and Map Panels 48439C0235L, and 48113C0285L; effective 03 March 2019) shows the entire survey area to be within Zone X (Areas determined to be outside the 0.2 percent annual chance floodplain) (see Attachment A, Figure 4).

Historic Aerial Photographs

Historic aerial photographs from an aerial photograph decade package from EDR were also reviewed to understand the sequence of events that have occurred in Site 10 of the survey area (see Attachment D). Site 10 was evaluated due to the presence of a pond and wetland. The following paragraphs provide a description of the aerial photographs based on site conditions:

1942-1968 – Site 10 is characterized as an active agricultural property comprised of pastureland. A drainage is depicted outside of the western boundary. The surrounding area is comprised of pastureland, drainages, and scattered homesteads.

1972 – Dirt roads are visible across Site 10. The drainage to the west has been channelized and an impoundment has been excavated to the north.

1979 – The roads are no longer visible and the impoundment to the north has been filled. A commercial complex has been constructed south of Site 10.

1984 – Site 10 has been entirely cleared.

1990 – Dark color signatures are visible in the channel to the west, indicating potential inundation.

1995 — Airport runways and buildings have been constructed surrounding Site 10 and a road has been cleared along the northern boundary. The drainage to the north that was previously impounded has been channelized and routed through a concrete channel.

2005-2012 – The eastern region of Site 10 has been cleared. Canopy cover has increased along the drainage to the west, and the area to the south.

2016 – A lot has been partially cleared in the southern region.

Weather History

The weather history for Wunderground.com Edwards weather station (KTXEULES47) recorded no rainfall in the 7-day period prior to and during the evaluation, and a total of 0.20 inch during the 30-day period prior to the site visit. The Antecedent Precipitation Tool (APT) indicated that the conditions on-site at the time of the evaluation were considered hydrologically "normal" based on the 30-year climactic average (32.885619 °N, -97.040544 °W).

Field Investigation

The 13 sites within the survey area consisted of four distinct vegetation communities: **urban matrix**, **frequently maintained grassland**, **infrequently maintained grassland**, and **shrub-scrub upland**. The **urban matrix** was found throughout a majority of Sites 1 through 6, 8 through 10, and the eastern side of Site 12. The urban matrix was comprised of concrete lots, roads, buildings, and active construction areas. The entirety of Sites 7 and 11, and the western portions of Sites 5 and 8 contained the **frequently maintained grassland** vegetation community, dominated by mowed Bermudagrass (*Cynodon dactylon*). The **infrequently maintained grassland** was observed in the central region of Site 12 and was comprised of Maximilian sunflower (*Helianthus maximiliani*), meadow dropseed (*Sporobolus compositus*), Johnsongrass (*Sorghum halepense*), white heath aster (Symphyotrichum ericoides), King Ranch bluestem (*Bothriochloa ischaemum*), sumpweed (*Iva annua*), Canada goldenrod (*Solidago canadensis*), prairie broomweed (*Amphiachyris dracunculoides*), Bermudagrass, and annual sunflower (*Helianthus annuus*). The **shrubscrub** upland vegetation community was observed on the western side of Site 12 and throughout Site 13, dominated by honey mesquite (*Prosopis glandulosa*), sugarberry (*Celtis laevigata*), giant ragweed (*Ambrosia trifida*), Johnsongrass, Bermudagrass, and annual sunflower.

Water from Sites 1 through 10 flows east into Hackberry Creek, then into the Elm Fork Trinity River, and ultimately into the Trinity River, a TNW. Water from Sites 11 through 13 flows south into Big Bear Creek, then into the West Fork Trinity River, and ultimately into the Trinity River, a TNW.

Desktop Evaluation

Aquatic features within Sites 1 through 7 were identified and delineated using both the National Hydrography Dataset (NHD) and historic and recent aerial photography. Sites 8 through 13 were field verified after a review of the available secondary data. **Table 1** and the following paragraphs detail the aquatic features identified within the survey sites at the time of evaluation (**Attachment A, Figure 5** and **6**).

Table 1. Aquatic Features Identified within the Survey Area

	Hydrology	Area	Length
Water Identification	Characteristics	(Acre)	(Linear Feet)
Wetland 1	Seasonally Saturated	0.01	
Ditch 1	Ephemeral	0.03	267
Pond 1	Seasonally Inundated	0.03	

^{*}Actual acreage less than 0.01 acre

Wetland 1 was an emergent wetland observed along the western boundary of Site 10, adjacent to Pond 1. The wetland appeared to form when the construction site to the east was cleared, and construction activities resulted in the formation of a berm outside of the construction fenceline allowing water to pool in the space between the fence and berm after rainfall. Hydrologic vegetation was dominated by saltmarsh aster (*Symphyotrichum subulatum*), and sumpweed (*Iva annua*). Hydric soils were indicated by a Depleted Matrix with a matrix color of 10YR 4/2 with redoximorphic concentrations of 5YR 4/6 in the pore linings and matrix. Hydrologic indicators consisted of drainage patterns, surface soil cracks, and a positive FAC-Neutral test.

Ditch 1 was a shallow, concrete-lined, stormwater drainage ditch within Site 5. Based on historic and recent aerial photography, Ditch 1 appears to have been constructed prior to 1995 to convey excess stormwater from the surrounding roads, lots, and fields. The USGS topographic map does not illustrate a blue line feature in the location of Ditch 1 and the shallow nature of the concrete channel suggests that the man-made feature replaced a swale.

Ditch 1 appeared dry in all aerial photographs. As such, it is IES' professional opinion that Ditch 1 would be considered an ephemeral feature.

Pond 1 was a small, artificial pond located along the western boundary of Site 10 with no OHWMs entering or exiting the pond. A review of aerial photography indicates Pond 1 was excavated in 2020, along the edge of a construction site with a small berm constructed across the gradient to capture sheet flow. Pond 1 was inundated at the time of the evaluation. Given the relatively small size of the pond and its location high in the watershed, it is IES' professional opinion that Pond 1 be considered seasonally inundated.

POTENTIAL JURISDICTIONAL ASSESSMENT

Due to the uncertainty associated with the definitions of waters of the United States and thereby the jurisdiction of features, IES is providing an analysis of jurisdiction based on the current NWPR and the former definitions using the *Rapanos* and *Carabell* decisions.

Navigable Waters Protection Rule (Effective 22 June 2020)

Table 2 provides an overview of the jurisdictional assessment of the aquatic features located within the survey area under the NWPR. Under this rule, none of the aquatic features located within the survey area would be considered a water of the United States (*see* **Attachment A, Figure 5**). **Wetland 1** was adjacent to an isolated pond and **Ditch 1** was a man-made ephemeral ditch; therefore, these features do not meet the definition of an adjacent wetland, or a replacement of a jurisdictional water and would not be subject to regulation. **Pond 1** does not contribute water flow through a surface connection to any intermittent or perennial water; therefore, it would not meet a definition of a jurisdictional pond or impoundment under the NWPR.

Table 2. Jurisdictional Assessment of Aquatic Features under the NWPR

Water Identification	Hydrology Characteristics	NWPR Classification							
	Wetland (b)(1)								
Wetland 1	Seasonally Saturated	Wetland							
Ditch (b)(5)									
Ditch 1	Ephemeral	Ditch							
Artificial Pond (b)(8)									
Pond 1	Seasonally Inundated	Artificial Pond							

 $^{^{1}}$ (a)(1-4) definitions are regulated under Section 404 of the CWA, while (b)(1-12) are excluded from regulation

1986 Waters of the United States Definitions and Rapanos Decision

The 05 June 2007 USACE and USEPA jointly published instructional guidebook is intended to provide the USACE field staff a national standard operating procedure for conducting jurisdictional determinations. The guidebook was prepared by combining all prior applicable provisions, regulations, statutes, and case laws pertaining to the CWA. All terms, definitions, and conclusions regarding the jurisdictional nature of the aquatic features used within this report are derived directly, as they are practiced, from the guidance. The following outlines the applicable interpretations of the guidance appropriate for this situation. **Table 3** provides an overview of the jurisdictional assessment of the aquatic features under the 1986 Waters of the United States definitions and the *Rapanos* decision (**Attachment A, Figure 6**).

Table 3. Jurisdictional Assessment of Aquatic Features Under the 1986 Definitions

Water Identification	Post-Rapanos Water Classification	33 CFR 328.3 Definition							
Non-Jurisdictional Features									
Wetland 1	Seasonally Saturated								
Ditch 1	Ephemeral								
Pond 1	Artificial Pond								

Non-Jurisdictional Features

Wetland 1

Wetland 1 was identified along a short swale, upstream of a pond that ran along a construction fence. Wetland 1 was neither adjacent to or abutting any non-RPWs or RPWs and lacked a significant nexus to a TNW. As such, Wetland 1 does not meet a definition of a water of the United States and would not be regulated under Section 404 of the CWA.

Ditch 1

Based on the historic aerial photography, Ditch 1 was excavated in an upland area prior to 1995 to convey surface hydrology off the surrounding roads, concrete lots, and fields. The entire ditch was dry in all aerial photographs. The USGS topographic map does not illustrate a blue line feature in the location of Ditch 1 and the shallow, concrete-lined channel suggests that the stormwater ditch replaced a swale. Current site conditions indicate that the ditch is ephemeral and does not carry relatively permanent flow. Under the 2007 guidance:

Drainage ditches would not be subject to jurisdiction under Section 404 of the CWA by definition, as such features;

- are not tributaries of waters, impoundment of waters, or are waters as defined in paragraphs (a)(1) through (7) of the CWA 33 CFR 328.3;
- are not TNW's or wetlands adjacent to a TNW, nor are they non-navigable tributaries of a TNW with relatively permanent flow or wetlands that abut such tributaries; and
- in accordance with the Rapanos guidance, ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water, are generally not considered to be waters of the United States.

Generally, under the guidance, features that do not have the physical characteristics of a tributary or a wetland and only convey sporadic flow with a speculative connection to a TNW are not considered waters of the United States.

Pond 1

Based on evidence provided by recent aerial photographs, Pond 1 was an artificial pond constructed in 2020. Pond 1 was constructed along a fence line on the edge of a construction site by excavating and placing earthen fill across the natural gradient of the landscape in such a manner to collect and redirect upslope sheet flow. Under the 2007 guidance:

Pond 1 would not be subject to jurisdiction under Section 404 of the CWA, by definition, as it;

- is not a natural pond, impoundment of waters, or a water as defined in paragraphs (a)(1)-(7) of the CWA 33 CFR 328.3;
- is not a TNW or wetland adjacent to a TNW, nor is it a non-navigable tributary of a TNW with relatively permanent flow or wetlands that abut such tributaries; and
- as clarified under 33 CFR 323.2 (b), The term *lake* ... As used in this regulation, the term does not include artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water for such purposes as stock watering, irrigation, settling basins, cooling, and rice growing.

CONCLUSIONS

To summarize the delineation, a wetland, a ditch, and a pond were identified and delineated within the survey area. A summary of these features' characteristics is presented in **Table 1** and a summary of the jurisdictional assessment is presented in **Table 2** under the NWPR and in **Table 3** for the 1986 waters of the United States definitions and the *Rapanos* decision.

Under the *NWPR*, and the *1986 waters of the United States definitions* and the *Rapanos* decision, none of the identified aquatic features would be waters of the United States.

This delineation is based on professional experience in the approved methodology, photograph interpretation and assessing the desktop resources, and from experience with the USACE Fort Worth District regulators; however, this delineation does not constitute a jurisdictional determination of waters of the United States. This delineation has been based on the professional experience of IES staff and our interpretation of USACE regulations at 33 CFR 328.3, the joint USACE/USEPA guidance regarding the *Rapanos* and *Carabell* decisions, IES' interpretation of the NWPR, current judicial reviews, and the Regulatory Guidance Letter (RGL) 08-02. While, IES believes our delineation to be accurate, final authority to interpret the regulations lies solely with the USACE and USEPA. The USACE Headquarters in association with the USEPA often issue guidance that changes the interpretation of published regulations. USACE/USEPA guidance issued after the date of this report has the potential to invalidate the report conclusions and/or recommendations, which may create the need to reevaluate the report conclusions. IES has no regulatory authority, as such, proceeding based solely upon this report does not protect the Client from potential sanction or fines from the USACE/USEPA. The Client acknowledges that they have the opportunity to submit this report to the USACE for a preliminary jurisdictional determination for concurrence prior to proceeding with any work within aquatic features located on the survey area. If the Client elects not to do so, then the Client proceeds at their sole risk.

IES appreciates the opportunity to work with you and the Dallas Fort Worth International Airport Environmental Affairs Department on this project, and we hope we may be of assistance to you in the future. If you have any comments, questions, or concerns, please do not hesitate to contact us. We can be reached at 972-562-7672 or by email at skipp@intenvsol.com or reinecke@intenvsol.com.

Sincerely,

Integrated Environmental Solutions, LLC.

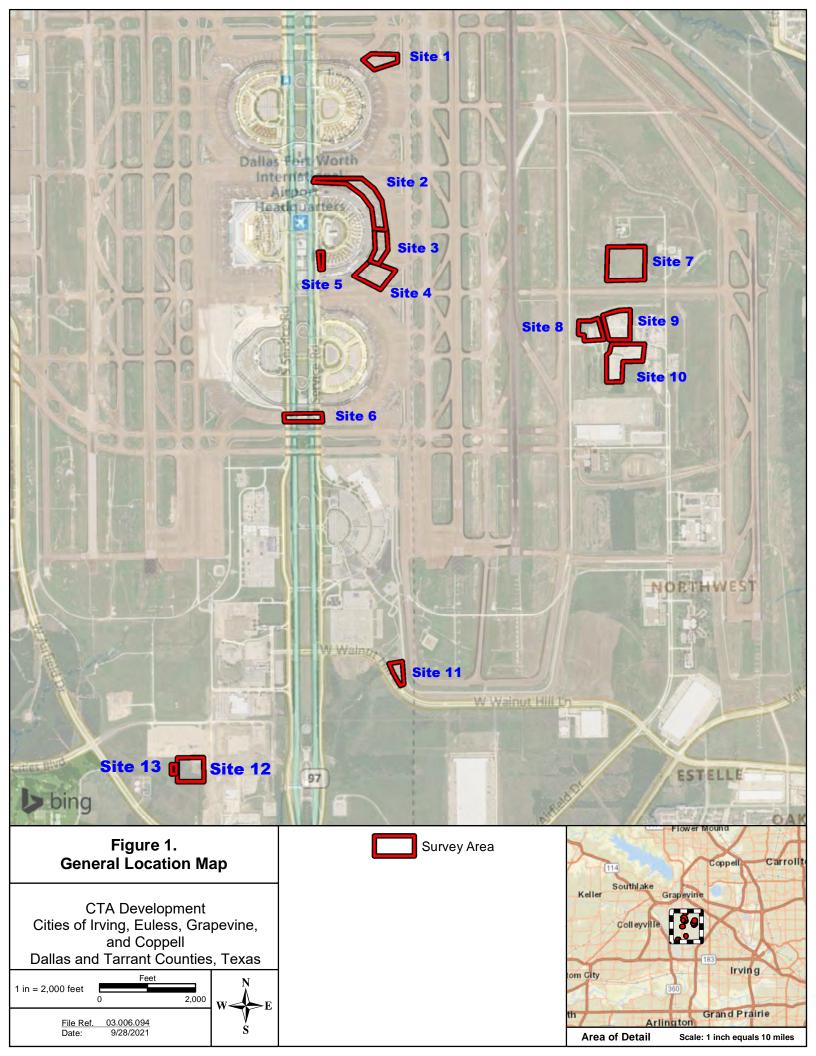
Mr. Shae Kipp Ecologist

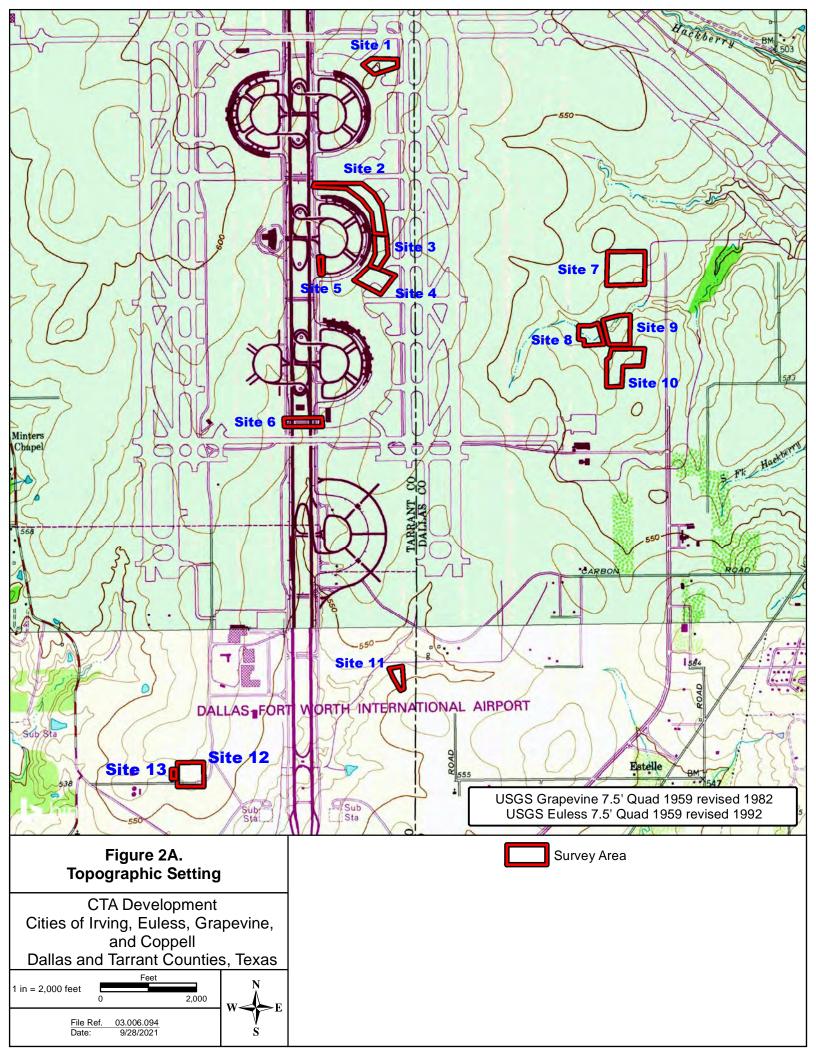
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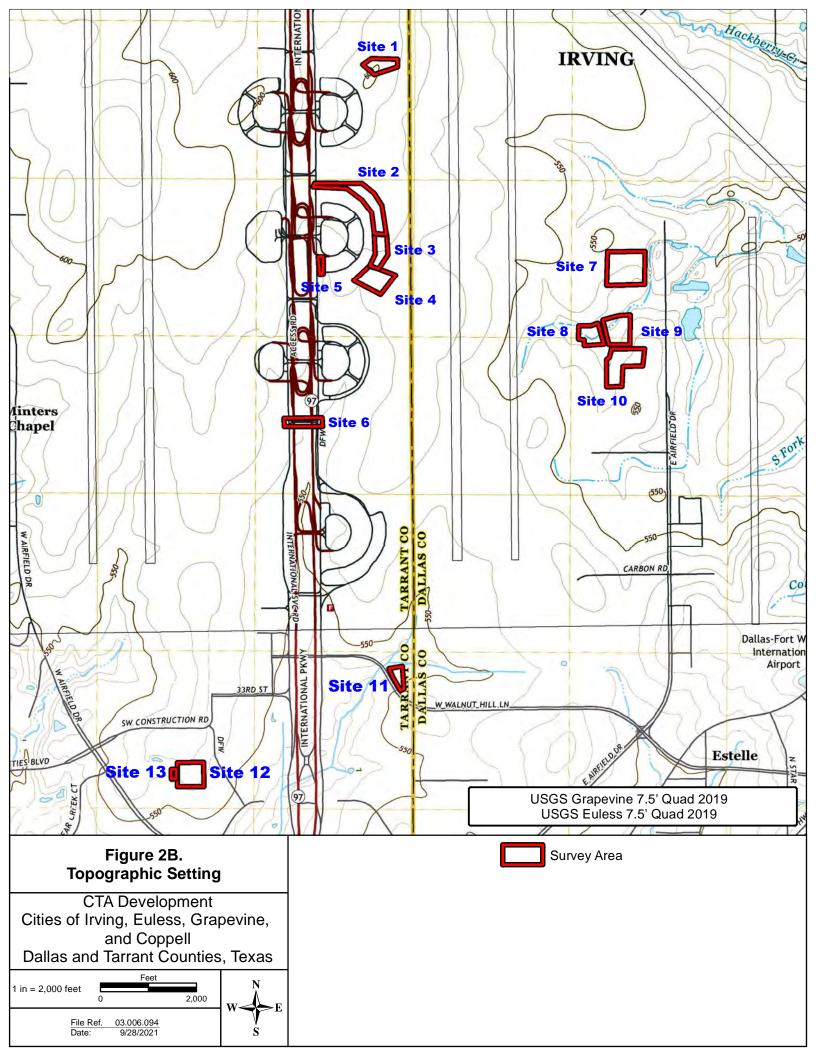
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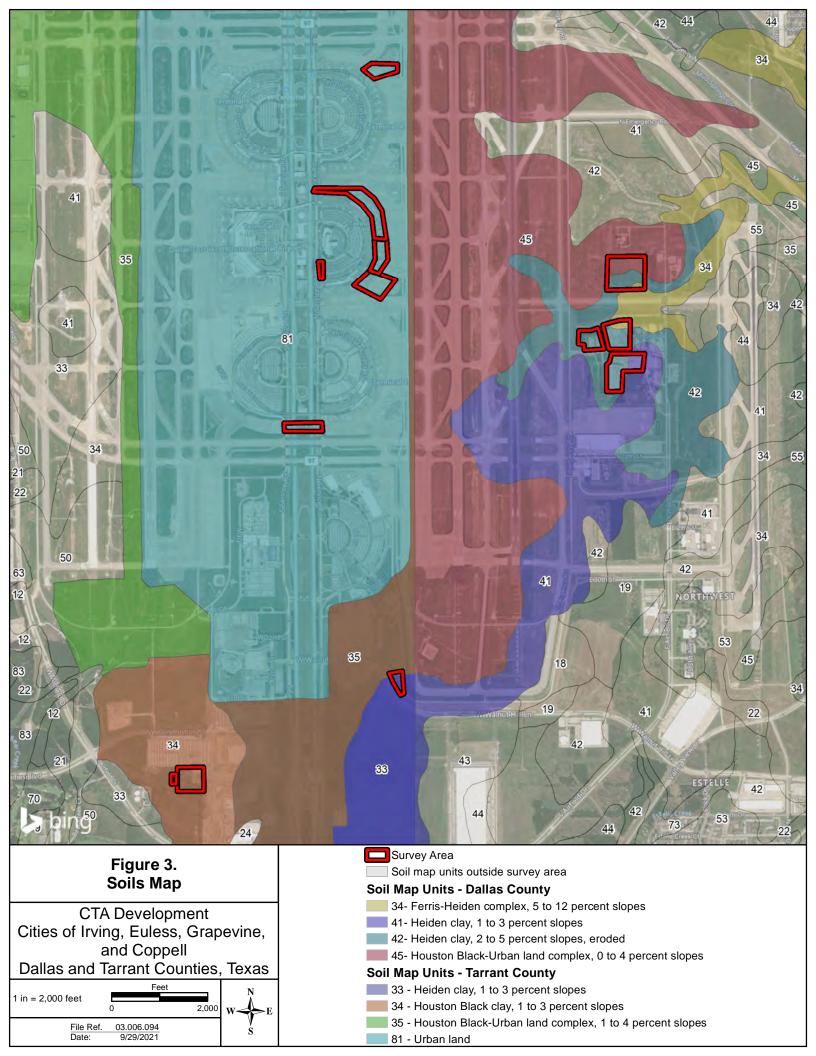
ATTACHMENT A

Figures









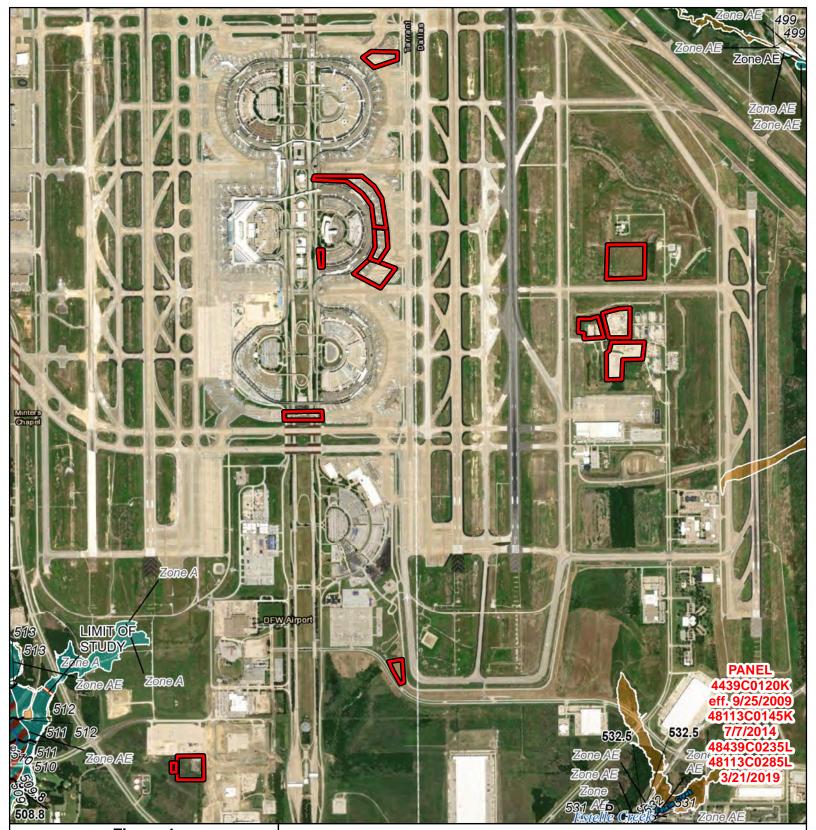
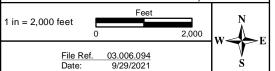


Figure 4. Federal Emergency Management Agency Flood Insurance Rate Map

CTA Development Cities of Irving, Euless, Grapevine, and Coppell

Dallas and Tarrant Counties, Texas



Survey Area

FEMA FIRM Zone Descriptions

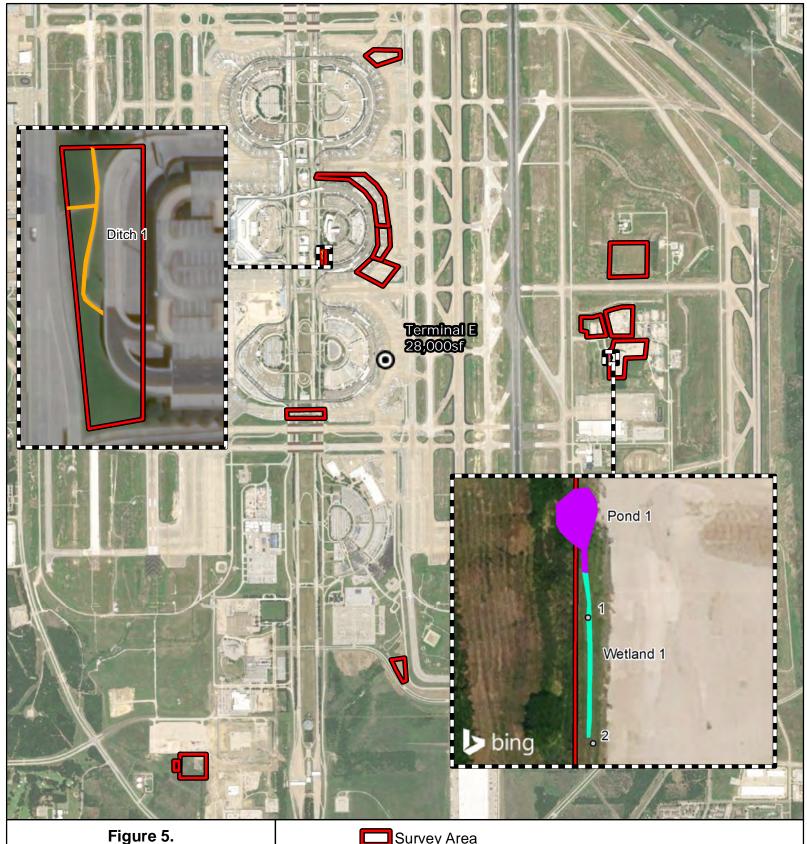
Zone X - Areas determined to be outside the 0.2% annual chance floodplain

Zone X - Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood

Zone A - Special Flood Hazard Areas subject to inundation by the 1% annual chance flood; No base flood elevations determined

Zone AE - Special Flood Hazard Areas subject to inundation by the 1% annual chance flood; Base flood elevations determined

Zone AE - Floodway areas in Zone AE



NWPR Aquatic Features Identified within the Survey Area

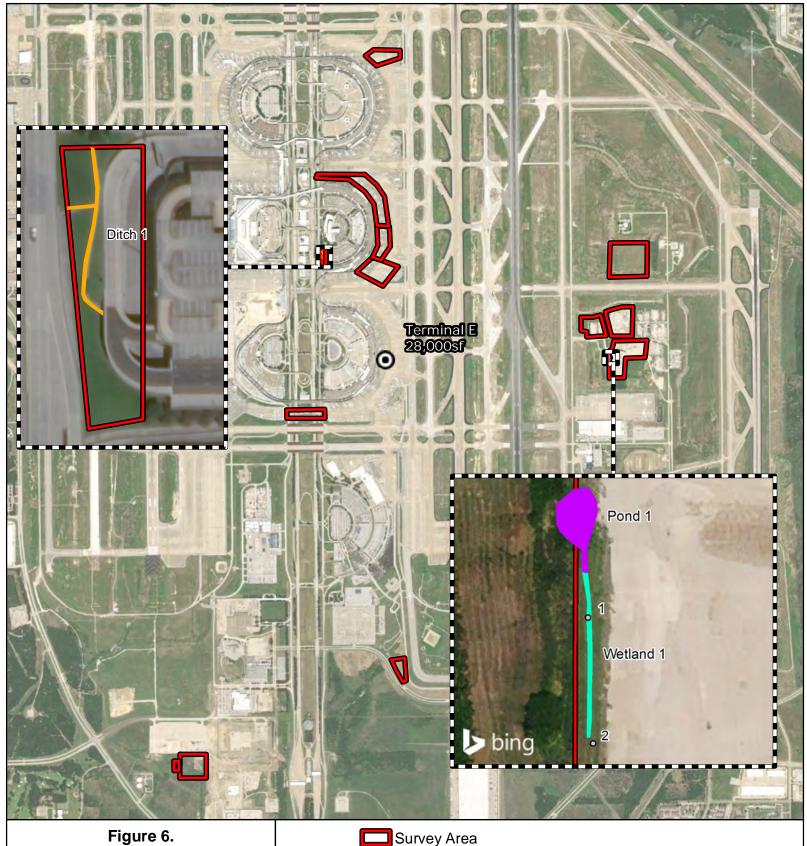
CTA Development Cities of Irving, Euless, Grapevine, and Coppell Dallas and Tarrant Counties, Texas

1 in = 2,000 feet 2,000 File Ref. Date: 03.006.094 9/29/2021

- Survey Area
 - Wetland Determination Data Form

Aquatic Features Excluded From Jurisdiction

- Wetland (b)(1)
- Ditch (b)(5)
- Artificial Pond (b)(8)



Pre-2015 Aquatic Features Identified within the Survey Area

CTA Development Cities of Irving, Euless, Grapevine, and Coppell Dallas and Tarrant Counties, Texas

1 in = 2,000 feet 2,000 File Ref. Date: 03.006.094 9/29/2021

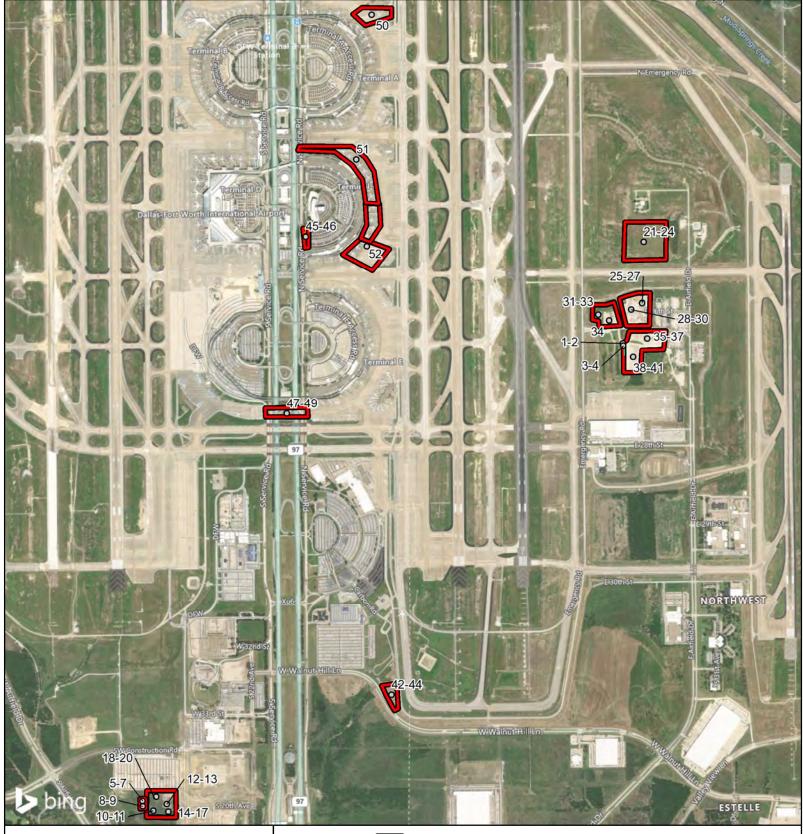
- - Wetland Determination Data Form

Aquatic Features Excluded From Jurisdiction

- Wetland, Isolated
- Ditch, Ephemeral
- **Artificial Pond**

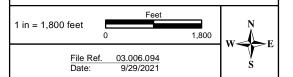
ATTACHMENT B

Site Photographs



Photograph Location Map

CTA Development DFW International Airport Dallas and Tarrant Counties, Texas



Survey Area

Photograph Location

Aquatic Features Excluded From Jurisdiction

Wetland, Isolated

Ditch, Ephemeral

Artificial Pond







Photograph 3



Photograph 5



Photograph 7



Photograph 2



Photograph 4



Photograph 6



Photograph 8





Photograph 23 Photograph 24





Photograph 25





Photograph 27



Photograph 28



Photograph 29



Photograph 30



Photograph 31

Photograph 32





Photograph 33





Photograph 35



Photograph 36



Photograph 37



Photograph 38



Photograph 39

Photograph 40



Photograph 41



Photograph 43



Photograph 45*

Photograph 47*







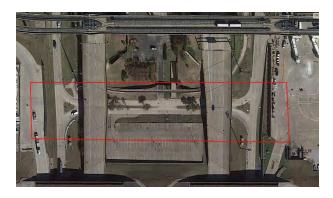
Photograph 44



Photograph 46*



Photograph 48*





Photograph 49*



Photograph 50*

Photograph 52*



Photograph 51*

*Aerial Images and Street View Images from Google Earth

ATTACHMENT C

Routine Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM — Great Plains Region

Project/Site:	CTA Development Pr	oject					City/County:	DFW Airp	ort/Tarran	ıt				Sampling Da	te:	9/22/2021	
Applicant/Owner:	Dallas/Fort Wor	th Internation	al Airport, E	nvironme	ntal Affairs D	epartment				State:	TX			Sampling Po	int:	1	
Investigator(s):	Karisa Fenton; (Claire Unruh					Section, Townsh	nip, Range:	N/A	A							
Landform (hillslope,	terrace, etc.):	Swale					Local relief ((concave, con	vex, none):	:	Concav	e		SI	ope %:	0-1	
Subregion (LRR):	J				Lat:	32.889	606 N L	ong: -	97.019763	W				Datum:	NAD 19	183	
Soil Map Unit Name:											NWI Cla	assificat	ion:	N/A			
Are climatic / hydrol	ogic conditions on th	e site typical f	for this time	of year?	Yes 🖂	No		(If no, ex	plain in Re	marks	s.)		_				
Are vegetation,	Soil,		Or hydrolog	у [☐ Sig	nificantly (Are "Nor	mal Circum	nstanc	es" present?	Ye	es 🛛	No 🔲			
Are vegetation,	Soil,		Or hydrolog	ју [☐ Na1	turally pro	blematic?	(If neede	d, explain	any a	nswers in Rer	marks.)					
SUMMARY OF	FINDINGS —	Attach s	ita mar	show	ina sam	nlina i	oint locations	transo	cts im	nor	tant foat	turas	atc				
Hydrophytic Vegetati		Alluciis	Yes		No	<u> 64</u>		, iiuiise	(13, 1111	poi	iuiii ieu	10163	, eic.				
Hydric Soil Present?	1011 1 1626111:		Yes		No		Is the Sampled Are	α		_	_		_				
Wetland Hydrology P	Procent?		Yes		No		within a wetland?		Yes	\boxtimes]	No					
	resent? lle adjacent to pond (alona construc			NO												
Komarks. Swa	no aujucom to pona i	arong construct	inon roncom														
VEGETATION -	– Use scienti	fic name	s of pla	ints.													
			o. p.u							Т	Dominance	Test w	orkshe	et:			
To a Chambana	/DL-+ C:	20' 01:	,		Absolut		Dominant Service 2	Indic			Number of Do						
Tree Stratum	(Plot Size:	30' Radius	_ '		Coverd	ige	Species?	Stat	ius		Are OBL, FAC		ıc.				(4)
1. <u>N/A</u>								-		- '	(excluding FA	(C-):					(A)
					-			-			Total Number		iinant Spe	ecies			(0)
										-	Across All Str	rata:					_ (B)
4.											Percent of Do			That			
					0		= Total Cover			- '	Are OBL, FAC	.W, or FA	AC:		10)	(A/B)
Sapling/Shrub Stratu	<u>m</u> (Plot Siz	re. 15' R	Radius)	١							Prevalence	Index	Worksh	eet·			
1. <i>N/A</i>	_ ,												Cover of:			ultiply By:	
					ī			-		H	OBL species	olul // C	COVET UI.		x 1 =	опіріу ву.	<u></u>
-					ī			-			FACW species	-			x 2 =		
											FAC species				x 2 —		
5.											FACU species	-			x 4 =		
J							= Total Cover				UPL species				x 4 — x 5 =		
Hank Chunhum	/Dlas Cina	C' Dadina	,				— Total Cover				ort species Column Totals	-					
Herb Stratum	(Plot Size:	5' Radius	′		40		Voc	F.A.	,		Colollili Toluis	-			(A)		(B)
1. /va annua	:-b				<u>40</u> 35		Yes	FA OE			D		. J D	/4-			
	ichum subulatum						Yes		<u>SL</u>		Preva	ilence in	idex = B	/A=		_	
					-			-		-							
· ·											Hydrophytic	c Vege	tation I	ndicators:			
																	
_					-									Rapid Test fo		-	
·											Yes			Dominance Te		-	
					-			-						Prevalence In	_		
														Morphologica in Remarks o		ns¹ (Provide sup trate sheet)	porting data
10.															•	,	
					75	:	= Total Cover							natic Hydrophy			
Woody Vine Stratum	(Plot Size	e: 15' R	Radius))									/dric soil roblemati		nydrology n	nust be present,	unless
1. <i>N/A</i>	(1.101.512	-															
2.								-									
-							= Total Cover				Hydrophytic	c Vege	tation	Yes 🛭	3	No 🗆	
% Bare Ground in He	erb Stratum 25						I OIUI COYEI				Present?				_	_	
% Bare Ground in He Remarks:	בא אווטווטווו באויכ עוים																

SOILS Sampling Point: 1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Loc2 (inches) Color (moist) % Type1 Texture Remarks PL/M 0-16 10 YR 4/2 5 YR 4/6 Clay 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix Hydric Soil indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Gleyed Matrix (S4) 1 CM Muck (A9) (LRR I, J) Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) (LRR F, G, H) Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) High Plains Depressions (F16) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR F) (LRR H outside of MLRA 72 & 73) 1 cm Muck (A9) (LRR F, G, H) Depleted Matrix (F3) Reduced Vertic (F18) Red Parent Material (TF2) Depleted below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) Redox Depressions (F8) $\overline{\Box}$ Other (Explain in Remarks) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16 ³Indicators of hydrophytic vegetation and wetland hydrology must 5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) be present, unless distributed or problematic. Restrictive Layer (if present): Type: N/A **Hydric Soil Present?** Yes 🖂 No 🗌 Depth (inches): N/A Remarks:

HYDROLOGY						
Wetland Hydrology Indicators	:					
Primary indicators (minimum of o	ne required; check all	l that apply)			Second	ary Indicators (minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)			Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Oc Dry-Season Water T Oxidized Rhizosphe (where not tille Presence of Reduced Thin Muck Surface Other (Explain in Re	lor (C1) able (C2) res on Living Roots (C3) ed) I Iron (C4)		Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) FAC-Neutral Test (D5)
Water Stained Leaves (B9)					Frost-Heave Hummocks (D7) (LRR F)
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes? Yes?	No? ⊠ No? ⊠ No? ⊠	Depth (inches): Depth (inches): Depth (inches):	N/A N/A	Wetland Hydrolog	gy Present? Yes 🖾 No 🗀
Describe Recorded Data (stream go	iuge, monitoring wel	ll, aerial photos, prev	rious inspections), if ava	ilable:		
Remarks:						

WETLAND DETERMINATION DATA FORM — Great Plains Region

Project/Site:	CTA Development Pro	oject					City/County:	DFW Airpo	rt/Tarrant	t		Samp	ling Date	: <u>9</u>	/22/2021	
Applicant/Owner:	Dallas/Fort Wort	th Internationa	l Airport, En	ıvironmental	Affairs Depart	tment			S	tate: TX		Samp	ling Point	t: <u>2</u>	!	
Investigator(s):	Karisa Fenton; C	laire Unruh					Section, Townsh	ip, Range:	N/A	l						
Landform (hillslope,	terrace, etc.):	Hillslope					Local relief (concave, conv	ex, none):	Non	е		Slop	ie %: _	0-1	
Subregion (LRR):	J				Lat: 3	2.889606 N	Lo	ong:9	7.019763	W		D	atum:	NAD 19	83	
Soil Map Unit Name:	Heiden clay, 2	to 5 percent s	lopes, erode	ed						NWI	Classification	n: N/A				
Are climatic / hydrol	ogic conditions on the	e site typical fo	or this time (of year? Ye	s 🖂	No 🔲		(If no, exp	ain in Rei	marks.)						
Are vegetation,	Soil,)r hydrology	/ 🗆	Significa	antly disturl	bed?	Are "Norm	al Circum	stances" prese	nt? Yes	⊠ N	lo 🔲			
Are vegetation,	Soil,		r hydrology	<i>,</i> \Box	Naturall	ly problema	ıtic?	(If needed	explain a	any answers in	Remarks.)					
SUMMARY OF	FINDINGS —	Attach si	te map	showin	g samplii	ng poin	t locations	, transec	ts, im _l	portant fe	eatures,	etc.				
Hydrophytic Vegetat	ion Present?		Yes		No 🗵	3										
Hydric Soil Present?			Yes		No 🗵		the Sampled Area thin a wetland?	ı	Yes		No 🛭	ব				
Wetland Hydrology F	resent?		Yes		No 🗵		illili u wellullu:			_	_	_				
Remarks: Hills	slope upslope of wetl	land swale, alo	ng construct	tion fencelin	e. Upland bern	n evident b	etween wetland a	nd downslope	area.							
VEGETATION	– Use scienti	fic names	of plai	nts.						_						
					Absolute %		Dominant	Indicat	or		ice Test woi					
<u>Tree Stratum</u>	(Plot Size:	30' Radius	_)	_	Coverage		Species?	Statu	s		f Dominant Sp FACW, or FAC	ecies Ihat				
1. <i>N/A</i>										(excluding	FAC-):			0		(A)
2.										Total Num	ber of Domin	ant Species				
3.								-		Across All		•		0		(B)
4.										Percent of	f Dominant Sp	ecies That				
				_	0	= Tot	al Cover				FACW, or FAC:			0		(A/B)
6 1: (61 1.6: .	(D) - C:	1510														
Sapling/Shrub Stratu	<u>m</u> (Plot Siz	e: <u>15 Ka</u>	idius)							Prevalen	ice Index W				Let L. B.	
1. <u>N/A</u>										0.01	Total % Co	ver of:			ıltiply By:	_
2.										OBL specie				x 1 =		
3.										FACW spe	_			x 2 =		
4.										FAC specie				x 3 =		
5.					•		16			FACU spec	_			x 4 =		
	(D) . C'	elo i	,	_	0	= 101	al Cover			UPL specie				x 5 =		(0)
Herb Stratum	` —	5' Radius	_ '		40		v	F161	ı	Column To	otals:			(A)		(B)
1. Helianthus					40		Yes	FACI				- P/4-				
2. Sorghum he	перепѕе				40		Yes	FACL	<u> </u>	rr	evalence Inde	x = B/A=	_		_	
3.																
4.										Hyaropn	ytic Vegeta	TION INGICAT	ors:			
5.											,	B . I.	. . ()			
6.											1	-			ic Vegetation	
7.														is > 50%		
8.										_				ex is <u><</u> 3.		
9.										_	4				ıs¹ (Provide sup rate sheet)	porting data
10.							16								. 100 1 . 1	
				-	80	= 101	al Cover			1 Indi		roblematic Hy		-	on' (Explain) ust be present,	unlace
Woody Vine Stratum	(Plot Size	e: <u>15' Ra</u>	dius)								urbed or prob		siiuiiu iiyt	ii ology iii	usi ne hieseili,	nille22
1. <i>N/A</i>																
2.						_										
-					0	= Tot	al Cover			Hydroph Present?	ytic Vegeta	tion Y	es 🗌		No 🖂	
% Bare Ground in He	erb Stratum 20															
Remarks:																

SOILS Sampling Point: 2

Profile Description: (Des	cribe to the depth n	eeded to docur	nent the indicat	or or con	firm the absence	of indicators.)					Sumpling Forms	<u></u>
Depth	Matrix					Features						
·	Color (moist)	0/0	Color (m	oist)	%	Type ¹		Loc2	Text	ure	Remarks	
0-16 10 Y	/R 4/2	100							Cla	у		
	·									<u>. </u>		
						-						 ,
									-			
						-						
	_		<u> </u>							·		
¹Type: C=Concentration, D	======================================	rced Matrix (S=	Covered or Conte	d Sand Gra	ins 21 ocution-	PL=Pore Lining, M	— — — =Matrix		-			
Hydric Soil indicators: (A								Indicators	for Problema	tic Hydric So	ils³:	
☐ Histosol	(A1)				Sandy Gleyed Matri	x (S4)			1 CM Muck (A			
	pipedon (A2)				Sandy Redox (S5)					Redox (A16) (I	LRR F, G, H)	
☐ Black Hi ☐ Hydroge	stic (A3) en Sulfide (A4)				Stripped Matrix (S6) Loamy Mucky Miner				Dark Surface	(S7) (LRR G) Depressions (F1	4)	
_ , ,	ed Layers (A5) (LRR F)				Loamy Gleyed Matr						ulra 72 & 73)	
1 cm Mu	ıck (A9) (LRR F, G, H)				Depleted Matrix (F3				Reduced Vert			
	d below Dark Surface (A	11)			Redox Dark Surface				Red Parent M		TE10)	
	ırk Surface (A12) Nucky Mineral (S1)				Depleted Dark Surfa Redox Depressions					Dark Surface (' n in Remarks)	11-12)	
	Aucky Peat or Peat (S2)	(LRR G, H)			High Plains Depress			_			n and wetland hydrolog	y must
	icky Peat or Peat (S3) (L	.RR F)			(MLRA 72 & 7	73 of LRR H)		be p	resent, unless d	listributed or p	roblematic.	
Restrictive Layer (if pres	sent):											
Type: N/A	N/A			_				Hydric Soil	Present?	Yes 🗌	No 🖂	
Depth (inches):	N/A			_								
Remarks:							•					
HADDOLOGA												
HYDROLOGY Wetland Hydrology India	entore.											
Primary indicators (minimum		(all that apply)						Cocondary	Indicators (min	imum of two r	omirod)	
Surface Water (A1)	ii or one requireu; cireci	(un mui uppry)	Salt Cru	rst (R11)					irface Soil Crack		equireuj	
High Water Table (A	A2)			Invertebro	ates (B13)			☐ Sp	arsely Vegetat	ed Concave Sur	rface (B8)	
Saturation (A3)			= ' "	en Sulfide (ainage pattern			
☐ Water Marks (B1) ☐ Sediment Deposits	/D2\			ıson Water	Table (C2) ieres on Living Root:	c (C3)		_	xidized Rhizosp (where tilled		g Roots (C3)	
Drift Deposits (B3)	(02)		_	ere not til	•	3 (63)			ayfish Burrows	•		
Algal Mat or Crust ((B4)		Present	ce of Reduc	ed Iron (C4)			□ Sc	Ituration Visible	on Aerial Ima	gery (C9)	
Iron Deposits (B5)			_	ick Surface					eomorphic Posi			
Inundation Visible (Water Stained Leav	on Aerial Imagery (B7)		Other (E	Explain in R	(emarks)				C-Neutral Test ost-Heave Hum		DD E/	
Field Observations:	(5)								OSI HOUVE HOIH	illiotics (D7) (E	.KK 1)	
Surface Water Present?	Yes?	No?⊠	Dep	th (inches):	: N/A							
Water Table Present?	Yes?	No? 🖂	Dep	th (inches):	. N/A		Wetland	Hydrology F	resent?	Yes 🗌	No 🖂	
Saturation Present?	Yes?	No?⊠	•	th (inches):						_	_	
(includes capillary fringe)					-							
Describe Recorded Data (stre	eam gauge, monitoring	well, aerial photo	s, previous inspec	tions), if a	railable:							
Remarks:												

ATTACHMENT D

Historic Aerial Photographs

CTA Development Project

2682 E Airfield Dr Dallas, TX 75261

Inquiry Number: 6681807.1

September 28, 2021

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

09/28/21

Site Name: Client Name:

CTA Development Project Integrated Env. Solutions, Inc.

2682 E Airfield Dr610 Elm St Suite 300Dallas, TX 75261McKinney, TX 75069EDR Inquiry # 6681807.1Contact: Claire Unruh



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1995	1"=500'	Acquisition Date: January 31, 1995	USGS/DOQQ
1990	1"=500'	Flight Date: January 29, 1990	NAPP
1984	1"=500'	Flight Date: May 10, 1984	TXDOT
1979	1"=500'	Flight Date: November 11, 1979	USDA
1972	1"=500'	Flight Date: February 13, 1972	USDA
1968	1"=500'	Flight Date: September 18, 1968	USGS
1958	1"=500'	Flight Date: January 07, 1958	ASCS
1950	1"=500'	Flight Date: December 17, 1950	USDA
1942	1"=500'	Flight Date: January 27, 1942	USDA

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