

SCI ENGINEERING, INC.

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Wetland and Waterbody Delineation Report

WVPA SALEM BULK – VALLEY VIEW 69kV TRANSMISSION LINE – SALEM TO TOWER ROAD STE. GENEVIEVE COUNTY, MISSOURI

November 29, 2023

Prepared for:

COMMONWEALTH ASSOCIATES, INC

SCI No. 2023-0860.30

SCI ENGINEERING, INC.



GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES



November 29, 2023

Mark E. Walker Manager, Environmental Services and Licensing Commonwealth Associates, Inc. 245 W. Michigan Avenue Jackson, Michigan 49201

RE: Wetland and Waterbody Delineation Report
WVPA Salem Bulk – Valley View 69kV Transmission Line (Salem to Tower Road)
Ste. Genevieve County, Missouri
SCI No. 2023-0860.30

Dear Mark Walker:

SCI Engineering, Inc. (SCI) is pleased to submit the attached *Wetland and Waterbody Delineation Report*, dated November 29, 2023. SCI understands that the approximately 21 miles of transmission line construction is being proposed to complete a loop between Farmington and Bloomsdale, Missouri. The overall project will include the construction of a new transmission line, including the clearing and construction of new poles and guy wires. The western-most segment of the proposed transmission line, approximately 8.8 miles, located between the Salem Bulk Substation and Tower Road was recently surveyed by SCI to identify wetland waterbody features within the project corridor. An executive summary of the report is provided below.

- SCI conducted a wetland and waterbody delineation of the approximately 8.8-mile survey corridor and 3 proposed access roads on August 29, August 30, September 1, September 6, and October 17, 2023.
- The project corridor was found to contain 17 relatively permanent waterways (RPW) and 19 non-relatively permanent waterways (NRPW) within the project corridor. We anticipate that all the RPWs would likely be considered jurisdictional waters of the U.S. (WOTUS) as identified under the definitions described in Section 328.3 of the *Code of Federal Regulations* and the May 25, 2023, *Sackett V. the U.S. Environmental Protection Agency* supreme court case decision.
- The remaining features *do not* display characteristics which would classify them as WOTUS, which includes the 19 NRPWs.
- Any impact to a WOTUS, including filling, crossing, piping, relocating, or discharging into, will
 require a Section 404 Permit from the U.S. Army Corps of Engineers (USACE) and a Section 401
 Water Quality Certification from Missouri Department of Natural Resources (MDNR).

The attached report should be read in its entirety.

November 29, 2023 SCI No. 2023-0860.30

We appreciate the opportunity to provide you with our natural resource services. If you have any questions or comments, please do not hesitate to contact us.

Respectfully,

SCI ENGINEERING, INC.

Michael S. Holm, CESSWI

Staff Scientist

Scott E. Billings

Senior Project Scientist

MSH/JEL/SEB/rah

Enclosure

Wetland and Waterbody Delineation Report

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Wetland and Waterbody Delineation Report

WVPA SALEM BULK – VALLEY VIEW 69kV TRANSMISSION LINE – SALEM TO TOWER ROAD STE. GENEVIEVE COUNTY, MISSOURI

1.0 INTRODUCTION

SCI Engineering, Inc. (SCI) was retained by Commonwealth Associates, Inc. to conduct a wetland and waterbody delineation along an approximately 8.8-mile proposed transmission corridor and access roads located within the western section of Ste. Genevieve County, Missouri. The project is part of an overall 21-mile transmission line project. It is our understanding that the project will include the construction of a new transmission line and will include clearing and construction of new poles and guy wires. SCI's scope of services included performing site reconnaissance to characterize the soils, vegetation, and hydrology for the delineation of wetlands and waterbodies within the project corridor. Our services were provided in general accordance with our proposal dated June 19, 2023.

The August 29, August 30, September 1, September 6, and October 17, 2023, field explorations resulted in the identification of 17 Relatively Permanent Waterways (RPW) and 19 Non-Relatively Permanent Waterways (NRPW). Traditional navigable waterways (TNW), RPWs, and some wetlands and impoundments of Waters of the United States (WOTUS) are considered regulated resources as identified under the definitions described in Section 328.3 of the *Code of Federal Regulations (33 CFR)* and the May 25, 2023 *Sackett V. U.S. Environmental Protection Agency (USEPA)* supreme court case decision. We anticipate that the 17 RPWs would likely be regulated by the U.S. Army of Engineers (USACE). Any impact to a WOTUS, including filling, crossing, piping, relocating, or discharging into, will require a Section 404 Permit from the USACE and a Section 401 Water Quality Certification from the Missouri Department of Natural Resources (MDNR).

2.0 SITE LOCATION

The subject site is located between the existing Salem Bulk substation to Tower Road in Ste. Genevieve County, Missouri near Desloge. The surrounding land use consists mainly of forested tracts and agricultural fields with some residential developments. The *Vicinity and Topographic Map* depicting the site location is enclosed as Figure 1.

3.0 DESKTOP REVIEW

3.1 United States Geological Survey (USGS)

The United States Geological Survey (USGS) topographic map depicts the project corridor crossing seven blue line tributaries. The geography of the site ranges from flat plains to steep ridges and valleys. The USGS topographic map is enclosed as Figure 1 - *Vicinity and Topographic Map*.

3.2 National Wetlands Inventory (NWI)

The NWI map depicts the transmission line corridor crossing or paralleling ten riverine habitats (R4SBC, R3UBG), with many overlapping the USGS blue-line features mentioned previously. Several freshwater ponds (PUBFh, PUBGh) are located adjacent to the project corridor. The *National Wetlands Inventory (NWI)* map is enclosed as Figures 2.1 through 2.6.

3.3 Web Soil Survey

The Natural Resources Conservation Service (NRCS) Web Soil Survey (http://websoilsurvey.nrcs.usda.gov) was utilized to determine the mapped soil types and hydric rating of the soils located within the project corridor. Hydric soils are described as those soils that are sufficiently wet in the upper part to develop anaerobic conditions during the growing season. The soils mapped within the project corridor are summarized in Table 3.1 below and shown on Figures 2.1 through 2.6 - NWI & USDA Soil Survey Map. Please note that no hydric soils were mapped within the project corridor.

Table 3.1 – Soil Map = Units and Hydric Rating

Soil Map Unit Name	Hydric rating
Caneyville silt loam, 3to 8 percent slopes	Non-hydric
Fourche silt loam, 1 to 3 percent slopes	Non-hydric
Fourche silt loam, 3 to 8 percent slopes	Non-hydric
Gerald silt loam, 1 to 4 percent slopes	Non-hydric
Lamotte silt loam, 3 to 8 percent slopes	Non-hydric
Lily loam, 8 to 15 percent slopes	Non-hydric
Jonca silt loam, 3 to 8 percent slopes	Non-hydric
Ransey-Rock outcrop complex, 8 to 50 percent slopes	Non-hydric
Lamotte silt loam, 8 to 15 percent slopes	Non-hydric
Caneyville silt loam, 8 to 15 percent slopes	Non-hydric

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3.4 Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM)

Review of the FIRM panel maps 29186C0275E (Effective date: February 15, 2019), 29186C0150E (Effective date: February 15, 2019), and 29186C0175E (Effective date: February 15, 2019) indicates 2 separate locations along the survey corridor that are in a Special Flood Hazard Area Zone A, designated as an area Without Base Flood Elevation. One floodway includes the area along Salem Creek and the second is the floodway along a portion of Terre Bleue Creek. The *FIRM Map* is enclosed as Figures 3.1 through 3.6 - *FEMA Flood Map*.

3.5 Antecedent Precipitation Evaluation

The USACE Antecedent Precipitation Tool (APT) was utilized to calculate the normal range of precipitation for the project area, including whether the area was experiencing a drought at the time of the delineation. Five separate site visits occurred and the APT was utilized for each visit.

For the first site visit on Tuesday August 29, 2023, the APT calculation indicates that the area was experiencing "Wetter than Normal" conditions within the 3 months prior to the survey compared against 30 years of climate data, and that the area was also within the "Dry Season" at the time of the wetland and waterbody delineation. According to the drought index for August 2023, there was no data available.

For the second site visit on Wednesday August 30, 2023, the APT calculation indicates that the area was experiencing "Normal Conditions" within the 3 months prior to the survey compared against 30 years of climate data, and that the area was also within the "Dry Season" at the time of the wetland and waterbody delineation. According to the drought index for August 2023, there was no data available.

For the third site visit on Friday September 1, 2023, the APT calculation indicates that the area was experiencing "Wetter than Normal" conditions within the 3 months prior to the survey compared against 30 years of climate data, and that the area was also within the "Dry Season" at the time of the wetland and waterbody delineation. According to the drought index for August 2023, there was no data available.

For the fourth site visit on Wednesday September 6, 2023, the APT calculation indicates that the area was experiencing "Normal Conditions" within the 3 months prior to the survey compared against 30 years of climate data, and that the area was also within the "Dry Season" at the time of the wetland and waterbody delineation. According to the drought index for September 2023, there was no data available.

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For the fifth site visit on Tuesday October 17, 2023, the APT calculation indicates that the area was experiencing "Drier than Normal" conditions within the 3 months prior to the survey compared against 30 years of climate data, and that the area was also within the "Wet Season" at the time of the wetland and waterbody delineation. According to the drought index for October 2023, there was no data available.

The APT data is included as Appendix A.

4.0 SITE RECONNAISSANCE

On August 29, August 30, September 1, September 6, and October 17, 2023, a team of SCI Natural Resource Scientists conducted a field exploration to delineate the extent of wetlands and waterbodies that may exist within the project corridor, 50 feet on either side of the proposed transmission line. Suspect areas that were identified during the desktop review were explored for wetland and waterbody characteristics utilizing methods as described in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region* (Version 2.0). Additionally, both banks of each RPW and NRPW features were mapped while in the field using sub-meter accuracy GPS units.

Dominant trees and shrubs within the forested portions of the project site included white oak (*Quercus alba*), pin oak (*Q. palustris*) shagbark hickory (*Carya ovata*), eastern red cedar (*Juniperus virginiana*), loblolly pine (*Pinus taeda*), sugar maple (*Acer saccharum*) and bush honeysuckle (*Lonicera maackii*).

5.0 CONDITION SUMMARY

Our site visits confirmed the presence of 17 RPWs and 19 NRPWs within the project corridor. SCI anticipates that the 17 RPWs would be considered jurisdictional WOTUS by the USACE. The following discussion provides a narrative description of these features. All tributaries are summarized below in Table 5.1 – Waterbody Summary (RPWs). A photographic summary of the representative site conditions and identified features is included as Appendix B. The *Wetland Determination Data Forms* are enclosed as Appendix C. In addition, the features identified are illustrated on the *Wetland Delineation & Aerial Photograph Plan*, Figures 4.1 through 4.22.

5.1 Waterbodies

A total of 36 tributaries were identified within the project corridor and proposed access routes. Of the waterbody features identified, 17 were considered to be RPWs and 19 were considered NRPWs. All RPWs are anticipated to be considered WOTUS and were found to possess characteristics of jurisdictional features, including a defined bed and bank and ordinary high-water mark (OHWM). The NRPWs lacked

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the characteristics of a WOTUS including evidence of relatively permanent water flow and an established surface connection to a jurisidictional waterbody. Table 5.1 below includes the characteristics of each RPW.

Table 5.1 – Waterbody Summary (RPWs)

					Torref		
Feature ID	Flow Type	RPW/ Non- RPW	Photos	OHWM Width (feet)	Top of Bank (Average feet)	Substrate	Comments
Tributary B	Intermittent	RPW	5, 6, 7	3	8	Silt, clay, gravel	wide shallow channel, pools of water observed
Tributary C	Perennial	RPW	8	2	10	Vegetation, silt, clay, sand, gravel, cobble	wide channel, low flow of water observed
Tributary F	Perennial	RPW	37, 38	6	8	Silt, clay, sand, gravel, cobble, bedrock	wide shallow channel, low water flow observed, fish and crayfish observed
Tributary I	Perennial	RPW	13	6	8	Silt, clay, loam, sand, gravel, cobble, bedrock	wide channel, low water flow observed, macroinvertebrates observed
Tributary J	Perennial	RPW	14	10	12	Silt, clay, loam, sand, gravel, cobble, bedrock	wide channel, water present up to 1 foot deep, fish observed
Terre Bleue Creek	Perennial	RPW	16	20	30	Silt, loam, clay, gravel, cobble, sand, bedrock	large wide channel, rock cliff 40-50 feet tall at northeast bank, water up to 2 feet observed, fish present
Tributary L	Intermittent	RPW	28	3	8	Silt, clay, sand, gravel, cobble, bedrock	Deep channel, streambed damaged by cattle, pools of water observed
Tributary M	Perennial	RPW	30	6	8	Silt, loam, clay, sand, gravel, cobble, bedrock	small shallow channel, low water flow observed, macroinvertebrates observed
Tributary Q	Perennial	RPW	32	6	10	Silt, clay, loam, sand, gravel, cobble, bedrock	wide shallow channel, low water flow observed, macroinvertebrates observed

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Table 5.1 – Waterbody Summary (continued)

Feature ID	Flow Type	RPW/ Non- RPW	Photos	OHWM Width (feet)	Top of Bank (Average feet)	Substrate	Comments
Tributary S	Perennial	RPW	33	8	10	Silt, loam, clay, sand, gravel, cobble, bedrock	wide shallow channel, low water flow observed, macroinvertebrates observed
Tributary T	Intermittent	RPW	34	5	6	Silt, clay, loam, sand, gravel, cobble, bedrock	medium channel, pools of water observed, macroinvertebrates observed
Tributary U	Perennial	RPW	35	12	15	Silt, clay, loam, sand, gravel, cobble, bedrock	wide shallow channel, low water flow observed, macroinvertebrates observed
Tributary W	Intermittent	RPW	18	2	3	Silt, clay, loam, sand, gravel, cobble, bedrock	small narrow channel, pools of water observed
Tributary X	Perennial	RPW	20	5	8	Silt, clay, loam, sand, gravel, cobble, bedrock	medium shallow channel, low water flow observed
Tributary Z	Intermittent	RPW	25	1	8	Silt, clay, loam, sand, gravel, cobble, bedrock	wide shallow channel with bedrock present in parts of the streambed, low water flow observed
Tributary AA	Intermittent	RPW	N/A	1	2	Silt, loam, clay, sand, gravel, cobble	small narrow channel, low water flow observed
Tributary AB	Intermittent	RPW	26	2	10	Bedrock	wide shallow channel with bedrock streambed

Nineteen Non-RPWs were also identified on site. All identified features were determined to be ephemeral tributaries or erosional drainages that drained across the transmission line and proposed access road corridors. These NRPWs were identified at various locations throughout the project survey corridor. None of the observed features possess the characteristics of a WOTUS including evidence of a relatively permanent water flow and therefore will likely not be regulated by the USACE.

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6.0 CONCLUSION

SCI performed a wetland and waterbody delineation of the project corridor on August 29, August 30, September 1, September 6, and October 17, 2023, in an effort to identify wetland and waterbody features within the defined project corridor. The proposed 8.8-mile transmission line project will include the installation of a new transmission line and is the western-most portion of an overall 21-mile transmission line project. Three proposed access roads were also included in the project survey.

A total of 36 waterbody features were identified during the survey, including 17 RPWs and 19 NRPWs. The 17 RPWs will likely be considered WOTUS by the USACE. Impacts below the stream OHWM would likely require a Section 404/401 permit. However, we understand that work is planned to avoid tributaries so that impacts will be eliminated.

If it appears that the identified waterbodies will be avoided during project construction, SCI is available to submit the wetland delineation report and site plan and request a "No Permit Required" determination from the USACE in lieu of the Section 404 Permit. However, if wetland and waterbody impacts cannot be avoided, SCI can submit the report and the Section 404/401 Permit Application to the regulatory agencies to initiate the permitting process. Appropriate best management practices should be taken during construction to reduce the potential for unintentional sedimentation and sediment runoff into adjacent regulated waters.

7.0 LIMITATIONS

This report has been prepared for the exclusive use of Commonwealth Associates, Inc. SCI is not responsible for independent conclusions or recommendations made by others. The size and location of all identified wetland and waterbody features have been delineated and quantified using a sub-meter accurate GPS unit. Furthermore, written consent must be provided by SCI should anyone other than our client wish to excerpt or rely on the contents of this report. The findings of this report are valid as of the present date of the delineation. SCI is not responsible for surveys, calculations, or plans that were prepared by others.

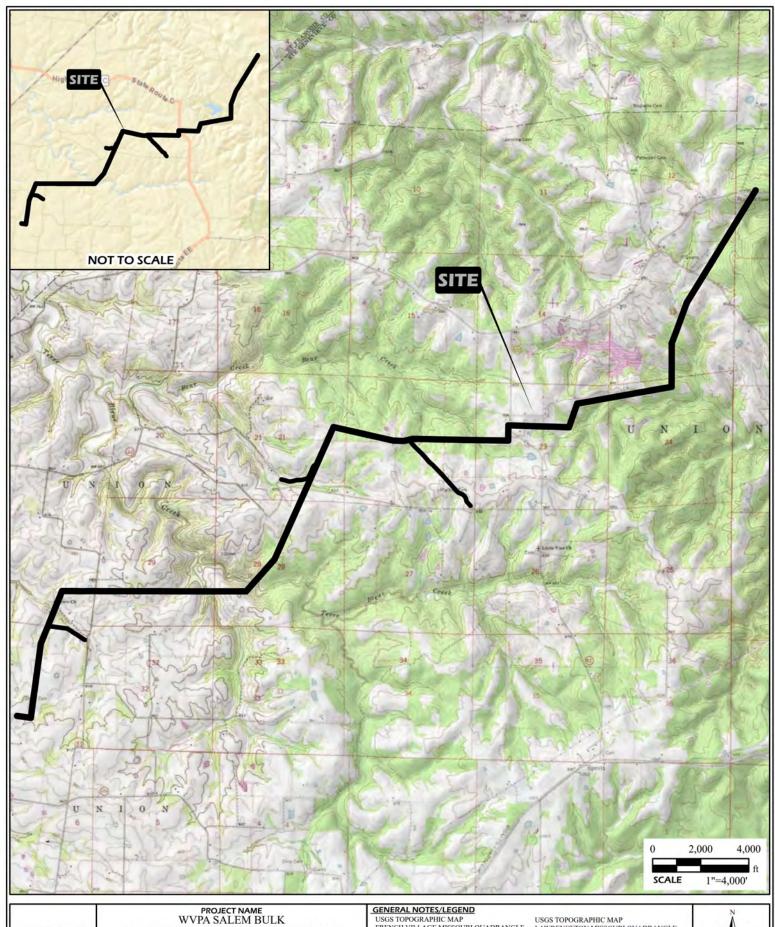
This delineation is based on professional experience in the approved methodology and from experience with the USACE; however, this delineation does not constitute a jurisdictional determination of waters of the United States. This delineation has been based on the professional experience of SCI staff and our interpretation of USACE regulations at 33 CFR 328.3 and joint USACE/EPA guidance documents. The USACE has the sole authority to determine if any of the features identified would be under their jurisdiction.

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WVPA Salem Bulk – Valley View 69kV Transmission Line SCI No. 2023-0860.30

Changes in surface and subsurface conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, the broadening of knowledge, or other reasons. Accordingly, the findings of this report may be invalidated in whole or in part by changes outside our control.

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WVPA SALEM BULK
VALLEY VIEW 69KV TRANSMISSION LINE
STE. GENEVIEVE COUNTY, MISSOURI

VICINITY AND TOPOGRAPHIC MAP

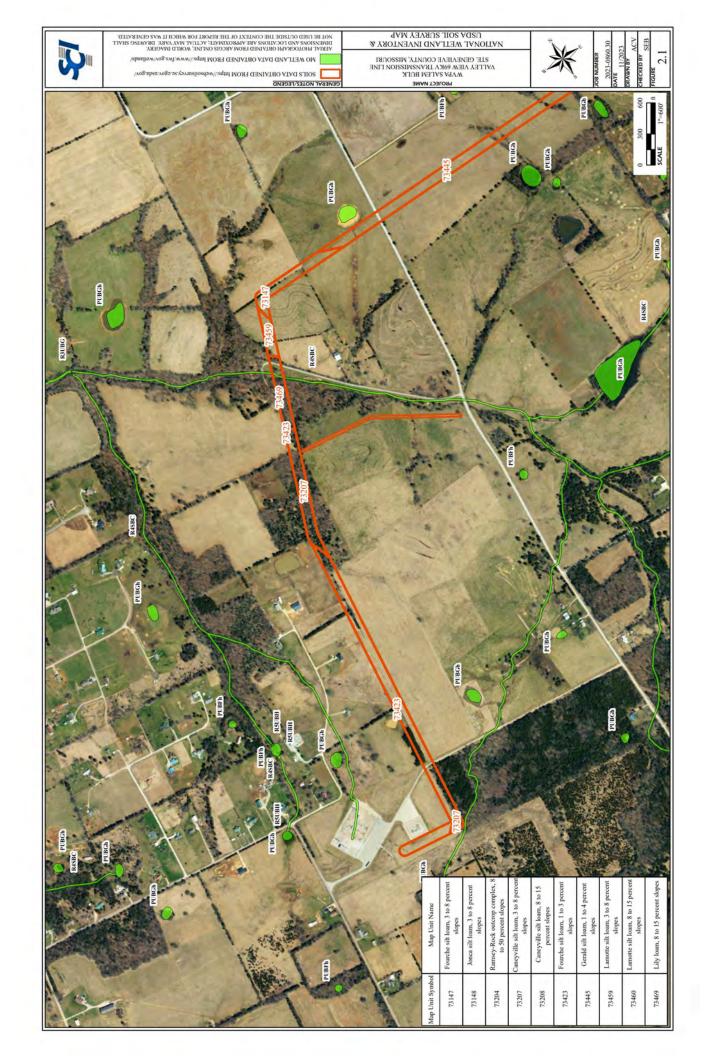
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GENERAL NOTES/LEGEND
USGS TOPOGRAPHIC MAP
FRENCH VILLAGE MISSOURI QUADRANGLE
DATED 1964
10' CONTOURS
FARMINGTON MISSOURI QUADRANGLE
DATED 1982
20' CONTOURS

USGS TOPOGRAPHIC MAP LAWRENCETON MISSOURI QUADRANGLE DATED 1964 10' CONTOURS SPROTT MISSOURI QUADRANGLE DATED 1964 20' CONTOURS



STREET MAP HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_STREET_MAP



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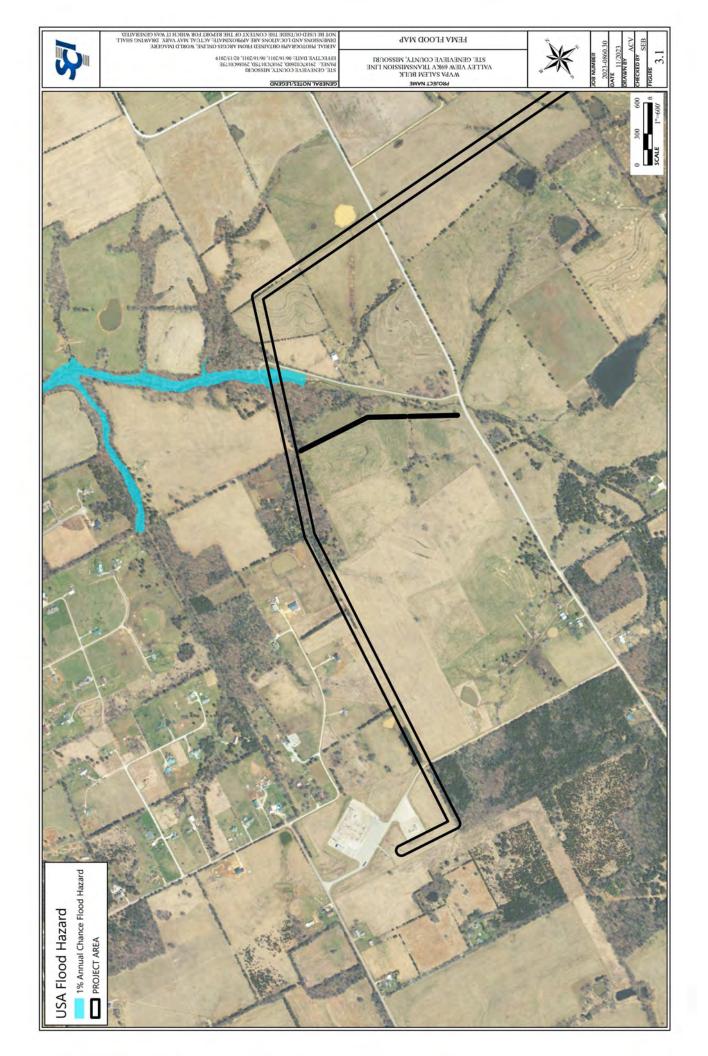
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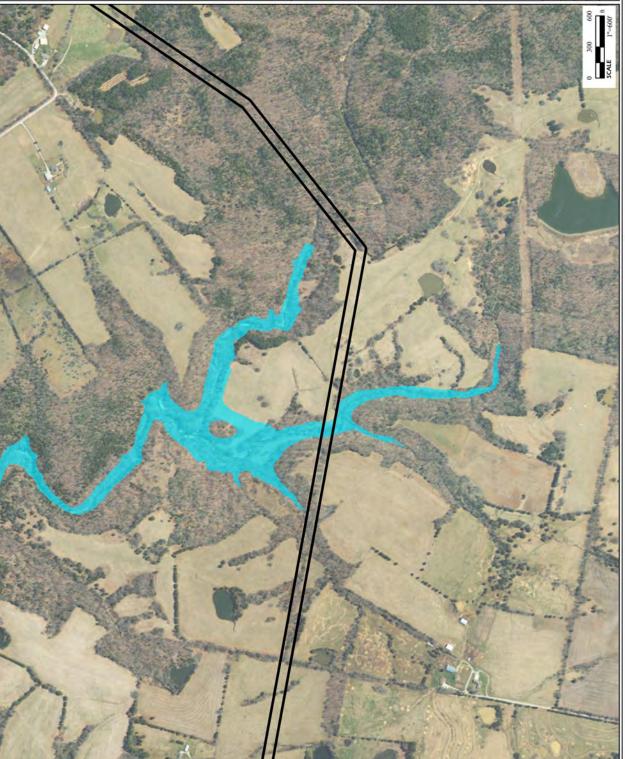
1% Annual Chance Flood Hazard

PROJECT AREA

USA Flood Hazard

FEMA FLOOD MAP

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FEMA FLOOD MAP

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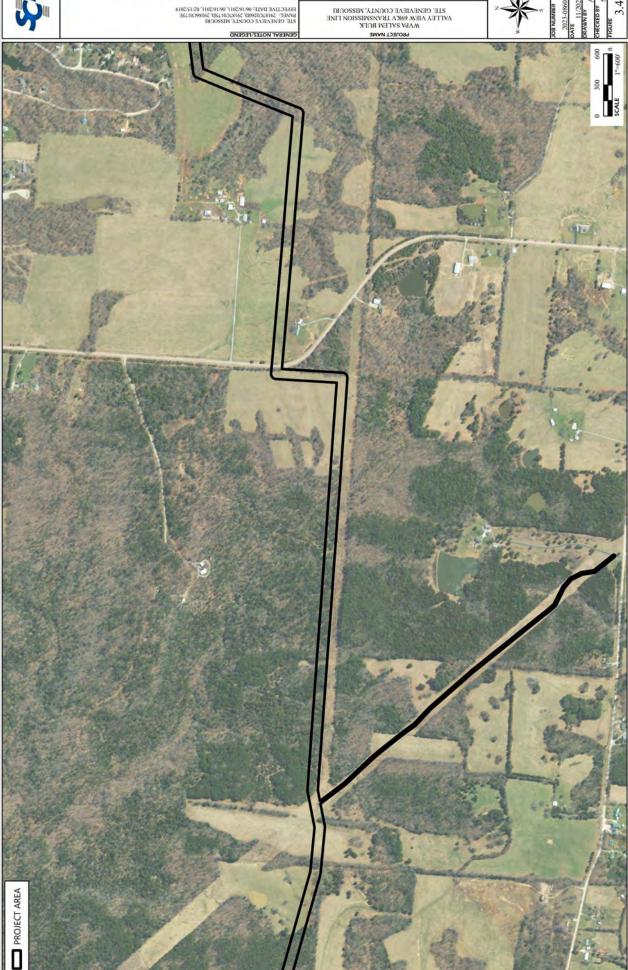




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FEMA FLOOD MAP



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VERTIC HOLOCORYPH OBTAINED FROM ARCCEIS ONLINE, WAY VARY. DRAWING SHALT

VERTIC PROCESSING BRAINED FROM ARCCEIS ONLINE, WORLD IMAGERY.

EŁECLIAE DVLE: 00/10/2011' 00/10/2011' 05/13/2016 byreet: 5018/205005' 5018/2012' 5018/0013/8 2LE' CEREAIEAE COUNLA' WISSONISI

FEMA FLOOD MAP ZLE' GENEAIEAE CONALA' WISSONKI AVITEA AIEM GƏKA LIKVARMISSION FINE MADV SVTEM BNITK BROTECL NAVME





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NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED. DIMENSIONS AND LOCATIONS ARE APPROXIMATE, ACTUAL MAY VARY. DRAWING SHALL VERIVE PHOTOGRAPH OBTAINED FROM ARCGIS OULINE, WORLD IMAGERY.

WETLAND DELINEATION & AERIAL PHOTOGRAPH

ZLE' GENEAIEAE CONALA' WISSONKI AVITEA AIEM GƏKA JEVARMISSION FINE MADY SVTEM BOLFK BOSTECL NOWE

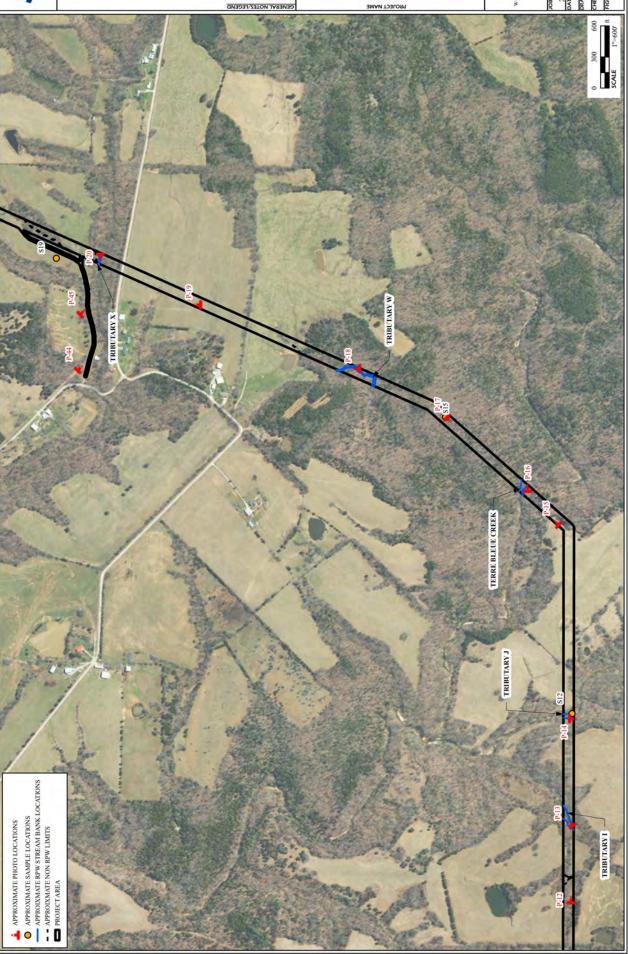
TRIBUTARY B TRIBUTARY B - ▲ APPROXIMATE PHOTO LOCATIONS
 ● APPROXIMATE SAMPLE LOCATIONS
 — APPROXIMATE RAW STREAM BANK LOCATIONS
 — APPROXIMATE NOW RPW LIMITS
 ■ PROJECT AREA APPROXIMATE PHOTO LOCATIONS

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NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED. DIMENSIONS AND LOCATIONS ARE APPROXIMATE, ACTUAL MAY VARY. DRAWING SHALL VERIVE PHOTOGRAPH OBTAINED FROM ARCGIS OULINE, WORLD IMAGERY.

WETLAND DELINEATION & AERIAL PHOTOGRAPH

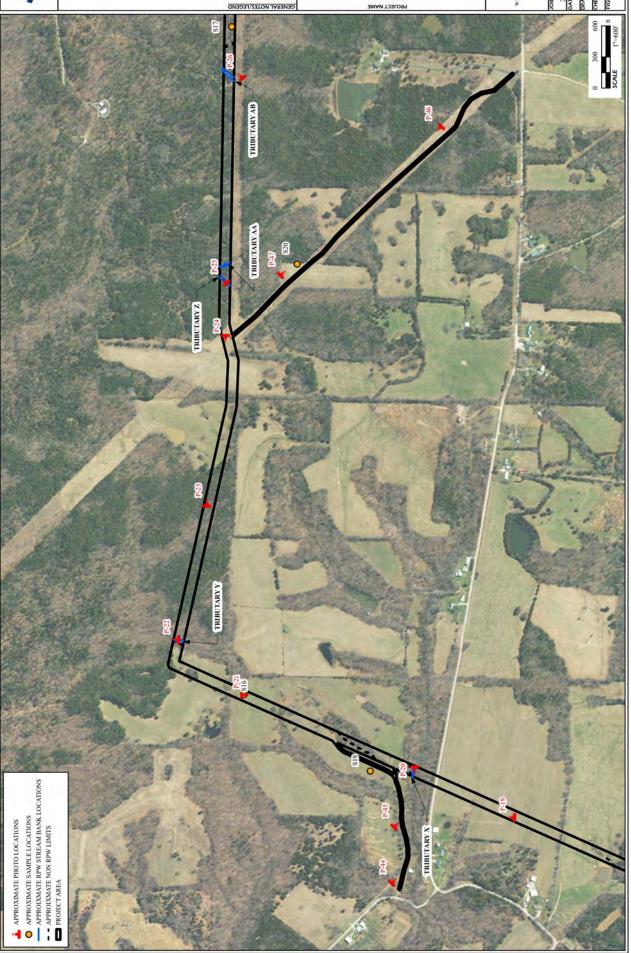
ZLE' GENEAIEAE CONALA' WISSONKI AVITEA AIEM GƏKA LIKVARMISSION FINE MADV SVTEM BNITK BROTECL NAVME



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NOL BE CRED OCLZIDE LHE CONLEXL OF THE BEFORL FOR WHICH IL MYS GENERVLED DIVIENZIONS VND FOCYLIONS VIE VI-BROXLWYLE' YCLLOYF WYA AYRK. DRYMING SHYFT VERIVE PHOTOGRAPH OBTAINED FROM ARCGIS OULINE, WORLD IMAGERY. WETLAND DELINEATION & AERIAL PHOTOGRAPH

ZLE' GENEAIEAE CONALA' WISSONKI AVITEA AIEM GƏKA LIKVARMISSION FINE MADV SVTEM BNITK BROTECL NAVME

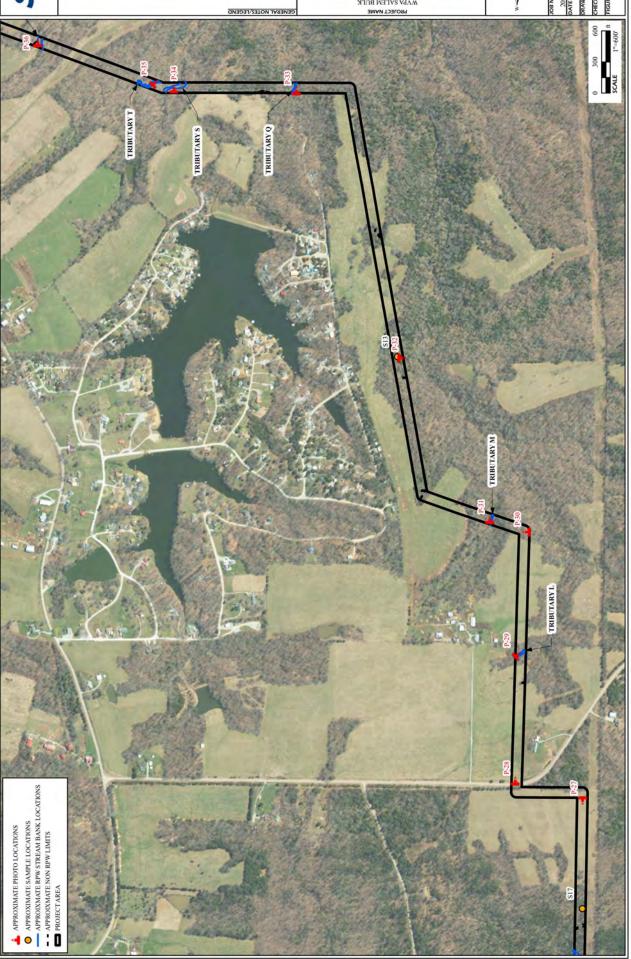


NOL BE CRED OCLZIDE LHE CONLEXL OF THE BEFORL FOR WHICH IL MYZ GENERVLED DIVIENZIONZ VND FOCYLIONZ VBE VI-BROXIMVLE' VCLIOYT MYA AYKY. DRYMING RHYFT

VERIVE PHOTOGRAPH OBTAINED FROM ARCGIS OULIVE, WORLD IMAGERY.

WETLAND DELINEATION & AERIAL PHOTOGRAPH

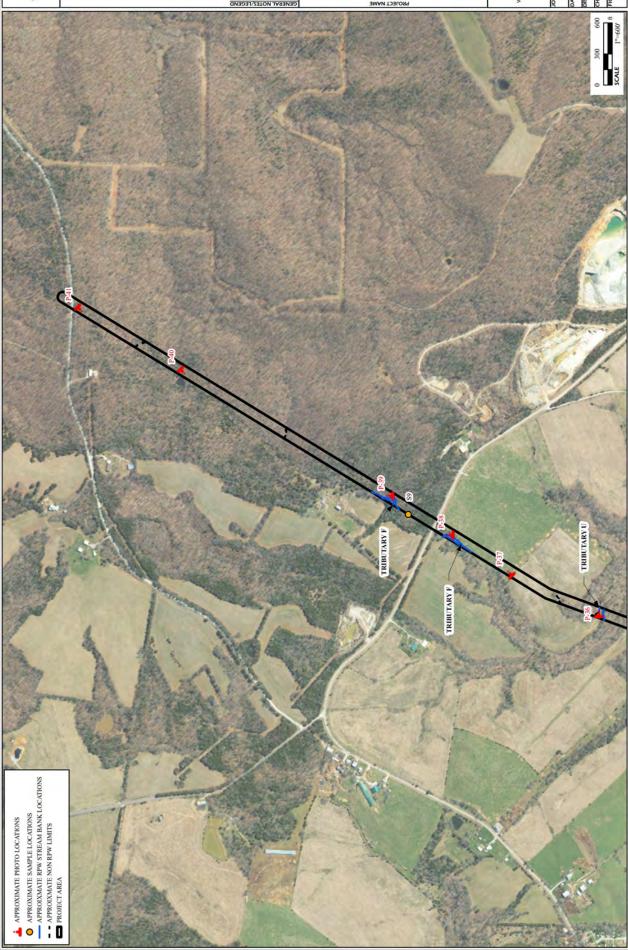
ZLE' GENEAIEAE CONALA' WISSONKI AVITEA AIEM GƏKA LIKVARMISSION FINE MADV SVTEM BNITK BROTKI



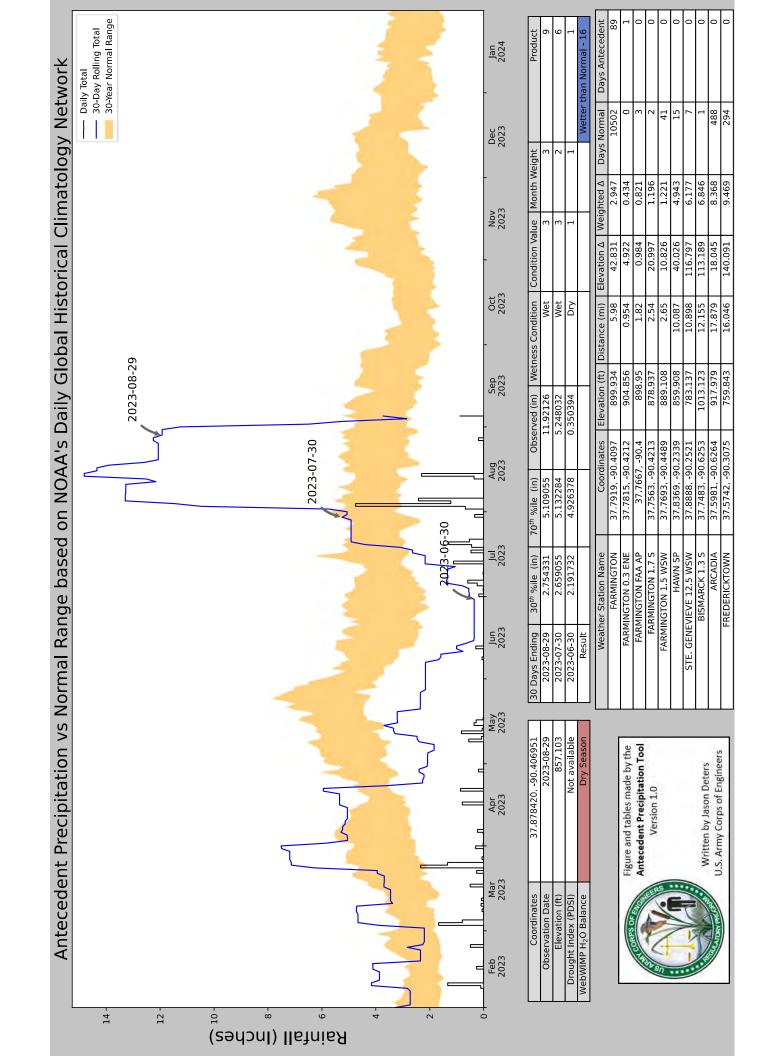
NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED. DIMENSIONS AND LOCATIONS ARE APPROXIMATE, ACTUAL MAY VARY. DRAWING SHALL VERIVE PHOTOGRAPH OBTAINED FROM ARCGIS OULINE, WORLD IMAGERY.

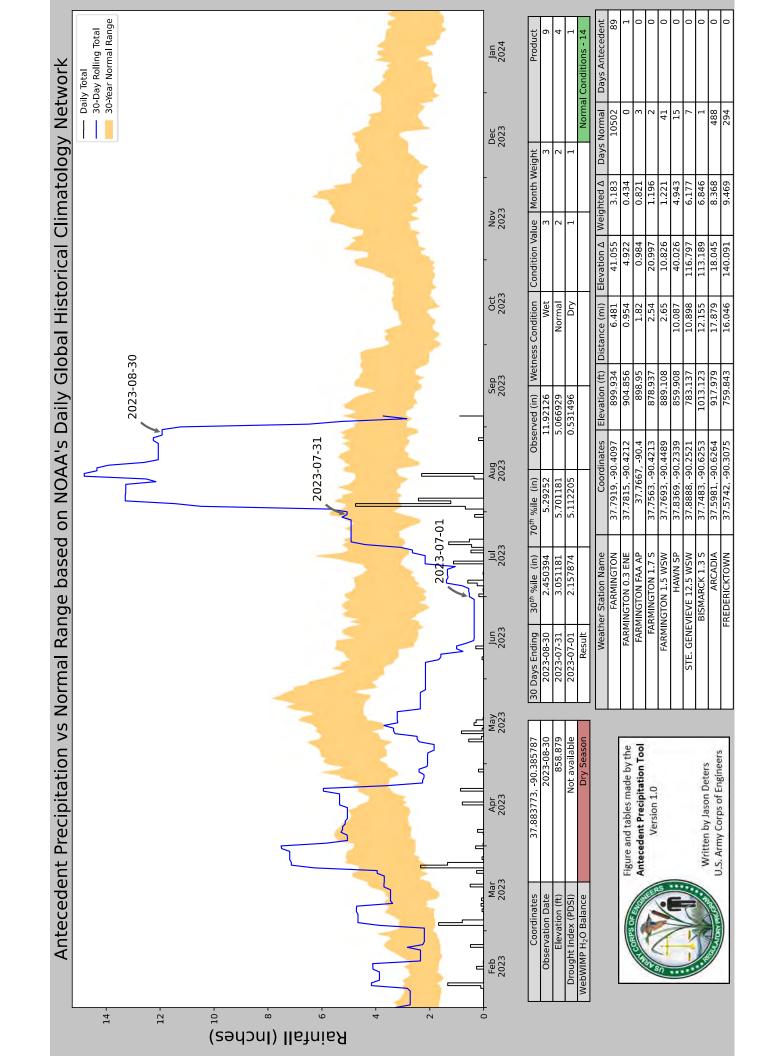
WETLAND DELINEATION & AERIAL PHOTOGRAPH

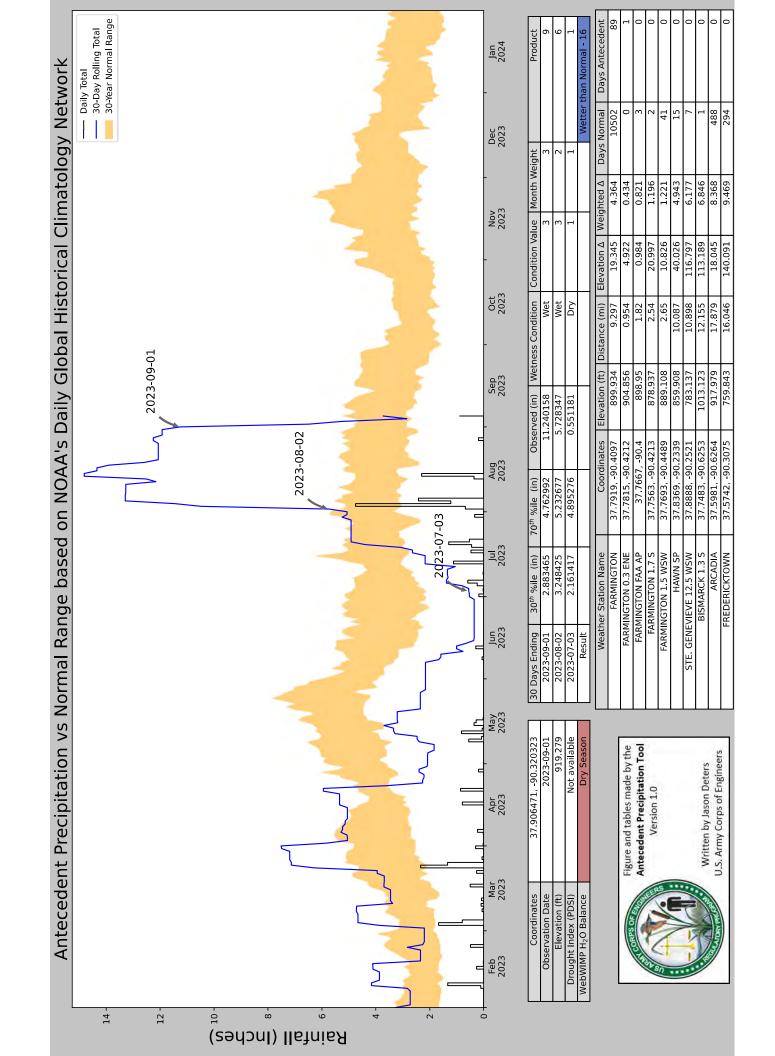
ZLE' GENEAIEAE CONALA' WISSONKI AVITEA AIEM GƏKA LIKVARMISSION FINE MADV SVTEM BNITK BROTECL NAVME

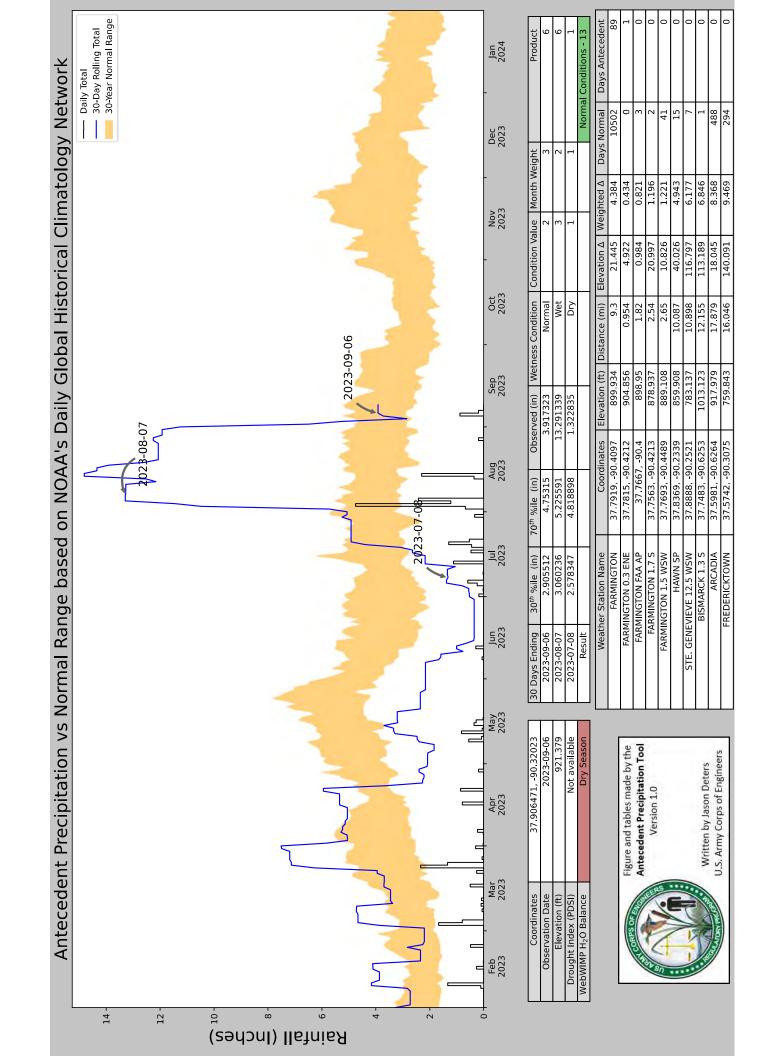


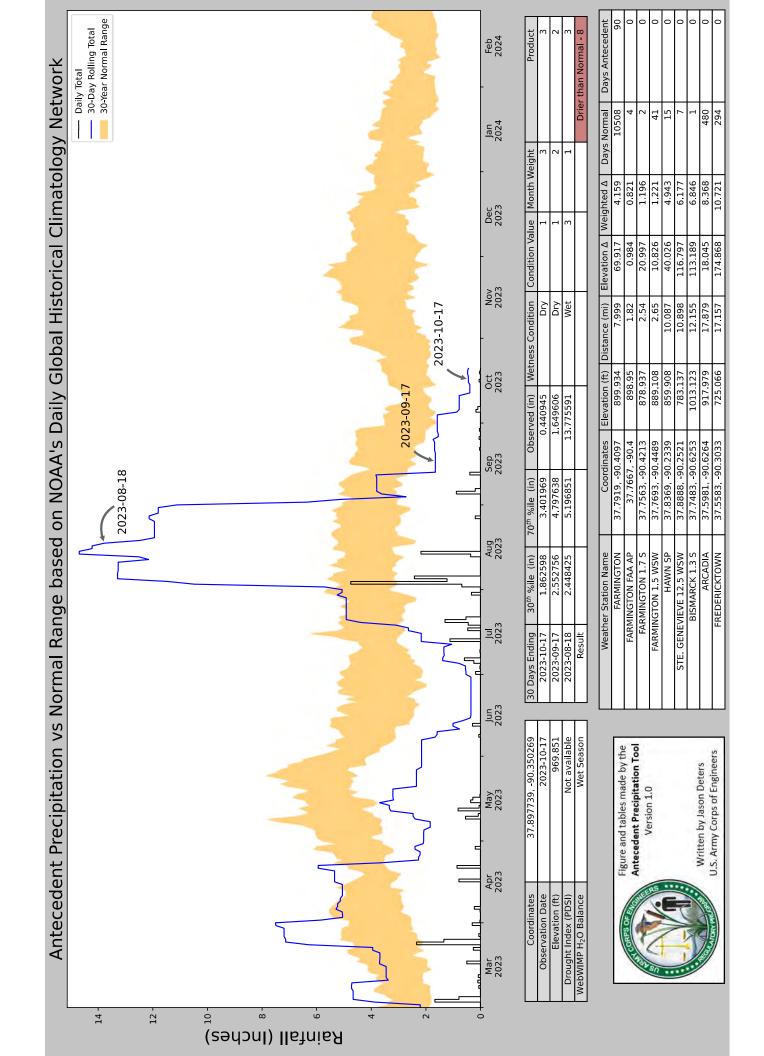












Appendix B





Photo 5. Upstream view of Tributary B, facing south.

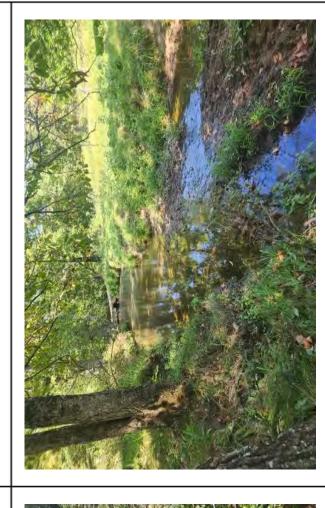
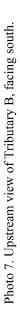


Photo 8. Upstream view of Tributary C, facing west.





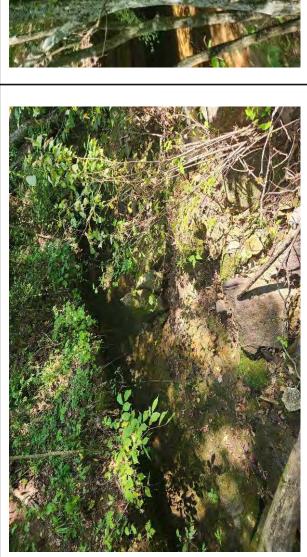


Photo 13. Downstream view of Tributary I, facing northeast...



Photo 14. Downstream view of Tributary J, facing south.



Photo 15. View of tree line corner, facing northeast.

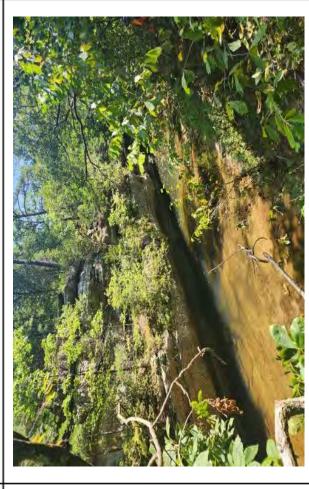


Photo 16. Upstream view of Terre Bleue Creek, facing east.

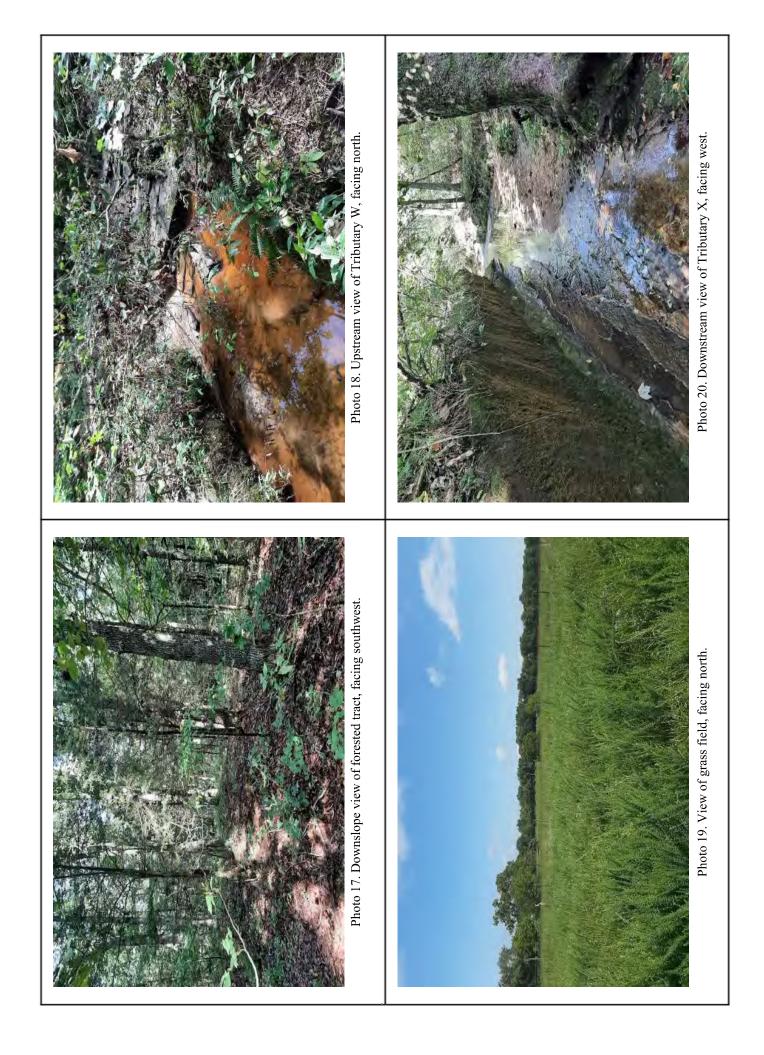




Photo 21. Overview of grass field, facing south.



Photo 22. Downstream view of Tributary Y, facing north.



Photo 23. View of forested tract, facing east.

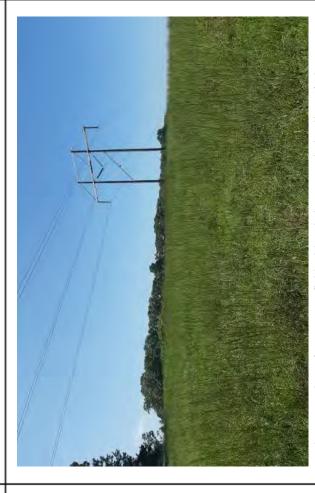


Photo 24. View of open grass field with existing transmission lines, facing west.

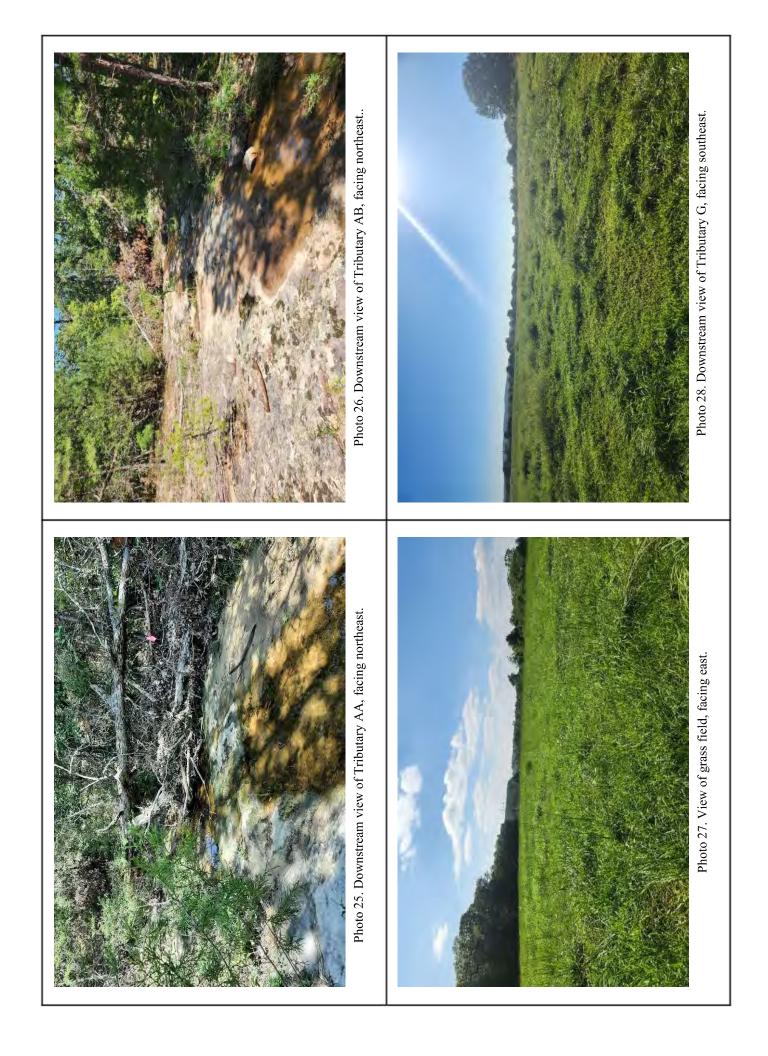




Photo 29. Downstream view of Tributary L, facing southeast.

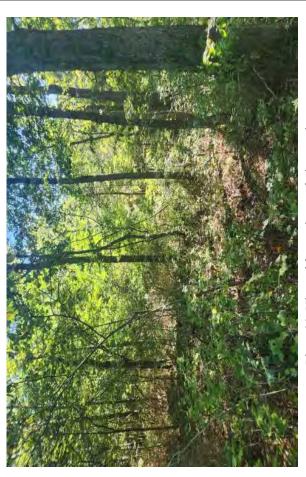


Photo 30. View of forested tract, facing north.



Photo 31. Downstream view of Tributary M, facing east.



Photo 32. Overview of forested area with sand, facing south.



Photo 33. Downstream view of Tributary Q, facing east.

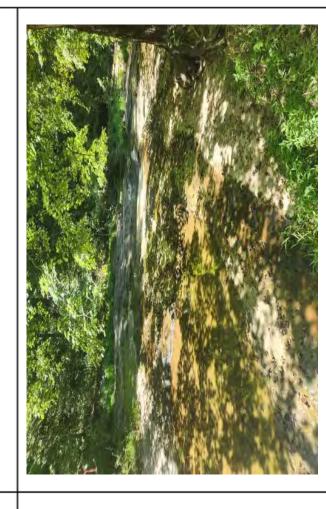


Photo 36. Upstream view of Tributary U, facing east.





Photo 37. Overview of grass field, facing northeast.



Photo 38. Upstream view of Tributary F, facing north.



Photo 39. Upstream view of Tributary F, facing north.



Photo 40. View of forested area in the northern section of the site, facing southwest.



Photo 41. View of forested area with logs, facing southwest.



Photo 42. View of grass field at the beginning of an access road, facing northwest.



Photo 43. Overview of grass field at the end of an access road, facing east.



Photo 44. View of beginning of an access road, facing east.



Photo 45. View of path for an access road, facing east.



Photo 47. Overview of grass field for an access road, facing southeast.



Appendix C

Project/Site: WVPA Salem Bulk-Valley View Transmi	ission Line	City/Cou	nty: St. Gen	evieve	Sar	npiing Da	ite: <u>08/2</u>	29/23
Applicant/Owner: Commonwealth Associates, Inc) .			State:M	O San	npling Po	int:	S1
Investigator(s): SCI - Michael Holm, Jacob Travelstea	nd	Section, T	Township, Rai	nge: S23, T37N,	R6E			
Landform (hillside, terrace, etc.): Hillslope			Local relief (c	oncave, convex, n	one): Conve	=x		
Slope (%): 2-5 Lat: 37.869434			90.409975	, ,		n: WGS8	4	
Soil Map Unit Name: Fourche silt loam, 1 to 3 precen	nt slones		00.100070	NWI	classification		<u> </u>	
		of voor?	Voc. V	No (If r				
Are climatic / hydrologic conditions on the site typical		-	Yes <u>X</u>					
Are Vegetation, Soil, or Hydrology				circumstances" pre			NO	_
Are Vegetation, Soil, or Hydrology	_naturally prob	olematic? (If needed, exp	plain any answers	in Remarks	.)		
SUMMARY OF FINDINGS – Attach site n	nap showir	ng samplin	g point lo	cations, trans	ects, imp	ortant f	features	, etc.
Hydrophytic Vegetation Present? Veg	No V	lo the	Sompled Ar					
	No X No X		e Sampled Ar n a Wetland?		N	o X		
	No X	Wittin	ii a welland:	163		<u> </u>		
Remarks:	<u> </u>							
Sample point 1 is located in a grass field in the sout	hern most sec	tion of the pro	ject site.					
		•	•					
VEGETATION – Use scientific names of pl	lants.							
<u> </u>	Absolute	Dominant	Indicator					
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Te	st workshe	et:		
1.				Number of Dom	•	∍s That		
2.				Are OBL, FACV		-	1	_ ^(A)
3.				Total Number o Across All Strat		3pecies	2	(D)
4 5.								— ^(B)
		=Total Cover		Percent of Dom Are OBL, FACV	•	es That	50.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15		rotal Gover		7 (10 OBE, 17 (OV	v, or 1710.	-	00.070	_(',',')
1.	-′			Prevalence Ind	ex workshe	et:		
2.				Total % Co	over of:	Mu	ltiply by:	
3.				OBL species	0	x 1 = _	0	_
4				FACW species	15	x 2 = _	30	_
5				FAC species	35	x 3 = _	105	_
		=Total Cover		FACU species	10	x 4 = _	40	_
Herb Stratum (Plot size: 5)	00	V	LIDI	UPL species	60	x = -	300	— _(D)
Tridens flavus Vernonia gigantea	<u>60</u> 25	Yes Yes	— UPL FAC	Column Totals: - Prevalence I	120	(A) –	475 3.96	— ^(B)
Vernonia gigantea Panicum anceps	15	No	FACW	i levalence i	idex - b/A		3.30	_
4. Setaria pumila	10	No	FAC	Hydrophytic Ve	egetation In	dicators		
5. Trifolium pratense	10	No	FACU		est for Hydro			
6.					nce Test is >		-9	
7.				3 - Prevaler	nce Index is	≤3.0 ¹		
8.				4 - Morphol				
9.				data in R	emarks or o	n a sepa	rate sheet)
10				Problemation	Hydrophyti	c Vegeta	tion ¹ (Expl	₁ain)
	120	=Total Cover		¹ Indicators of hy				/ must
Woody Vine Stratum (Plot size: 15	_)			be present, unle	ess disturbed	or probl	ematic.	
1.				Hydrophytic				
2		-Total Carra		Vegetation	Voc	NI.a	v	
		=Total Cover		Present?	Yes	No_	<u>^</u>	
Remarks: (Include photo numbers here or on a sep	arate sheet.)							

Depth	Matrix			x Featur			onfirm the absence o	•	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-12	10YR 4/3	100					Loamy/Clayey		
12-20	10YR 4/4	95	10YR 5/6	5		<u>M</u>	Loamy/Clayey	Distinct redox conc	entrations
				<u> </u>	<u> </u>	<u>_</u>			
¹ Type: C=Co	oncentration, D=Dep	letion. RM	=Reduced Matrix. N	 //S=Mas	ked Sand	Grains	2Location:	PL=Pore Lining, M=Mat	trix.
Hydric Soil I			,					for Problematic Hydri	
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coast	Prairie Redox (A16)	
Histic Ep	ipedon (A2)		Sandy Red	dox (S5)			Iron-M	langanese Masses (F12))
Black His	stic (A3)		Stripped M	latrix (S6	3)		Red P	arent Material (F21)	
Hydroger	n Sulfide (A4)		Dark Surfa	ce (S7)			Very S	Shallow Dark Surface (F2	22)
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Other	(Explain in Remarks)	
2 cm Mu	ck (A10)		Loamy Gle	yed Mat	trix (F2)				
Depleted	Below Dark Surface	e (A11)	Depleted N	/latrix (F	3)				
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	e (F6)		³ Indicators	of hydrophytic vegetation	n and
Sandy M	ucky Mineral (S1)		Depleted [oark Sur	face (F7))	wetlar	id hydrology must be pre	esent,
5 cm Mu	cky Peat or Peat (S	3)	Redox Dep	oression	s (F8)		unless	disturbed or problemati	c.
Restrictive L	_ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Present	? Yes	NoX
HYDROLO									
-	drology Indicators:			1 \			0	To Produce Victoria and	
	ators (minimum of o	one is requ						/ Indicators (minimum of	two required
	Water (A1) ter Table (A2)		Water-Sta					ce Soil Cracks (B6)	
Saturatio	, ,		Aquatic Fa True Aqua					age Patterns (B10) eason Water Table (C2)	
Water Ma			Hydrogen			`		sh Burrows (C8)	
	t Deposits (B2)		Oxidized F					ation Visible on Aerial Im	agery (C9)
	osits (B3)		Presence			_	· · · · · · · · · · · · · · · · · · ·	ed or Stressed Plants (D	
	t or Crust (B4)		Recent Iro			,		orphic Position (D2)	- /
Iron Depo			Thin Muck				• •	leutral Test (D5)	
Inundatio	on Visible on Aerial I	magery (B	7) Gauge or \	Nell Dat	a (D9)			, ,	
Sparsely	Vegetated Concave	Surface (B8) Other (Exp	lain in F	Remarks)				
Field Observ	vations:								
Surface Water	er Present? Ye	es	No X	Depth (i	nches):				
Water Table	Present? Ye	es		Depth (i					
Saturation Pr	resent? Ye	es	No X	Depth (i	nches): _		Wetland Hydrolog	y Present? Yes	NoX
(includes cap									
Describe Red	corded Data (stream	gauge, m	onitoring well, aeria	I photos	, previou	s inspec	tions), if available:		
Remarks:									

Project/Site: WVPA Salem Bulk-Valley View Transmi	ssion Line	City/Cou	unty: St. Gene	evieve	Sar	npling Dat	e: <u>08/2</u>	9/23
Applicant/Owner: Commonwealth Associates, Inc.	•		•	State: N	1O San	npling Poi	nt:	S2
Investigator(s): SCI - Michael Holm, Jacob Travelstea	d	Section,	Township, Rar	nge: S23, T37N,	R6E		· ·	
Landform (hillside, terrace, etc.): Flatland			Local relief (co	oncave, convex, r	none): None			
Slope (%): 0-2 Lat: 37.87028		Long: -	-90.408494		Datun	n: WGS84		
Soil Map Unit Name: Fourche silt loam, 1 to 3 precen	t slopes			NWI	classificatio			
Are climatic / hydrologic conditions on the site typical		of year?	Yes X		no, explain ir		:)	
Are Vegetation, Soil, or Hydrology		-		ircumstances" pre			No	
	='							_
Are Vegetation, Soil, or Hydrology	_			olain any answers				
SUMMARY OF FINDINGS – Attach site m	nap snowir	ng samplir	ng point loc	cations, trans	ects, imp	ortant to	eatures	s, etc.
Hydrophytic Vegetation Present? Yes N	lo <u>X</u>	Is the	e Sampled Ar	ea				
Hydric Soil Present? Yes N	lo <u>X</u>	withi	in a Wetland?	Yes	N	o <u>X</u>		
Wetland Hydrology Present? Yes	10 <u>X</u>							
Remarks:								
Sample point 2 is located in a small forested tract in	the southern	section of the	project site.					
VEGETATION – Use scientific names of pl	ants.							
T 0/ / (D) / / (D)	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Te				
1. Juniperus virginiana	50	Yes	FACU	Number of Dom	•	es That	0	(4)
2. Ulmus americana 3.	10	<u>No</u>	<u>FACW</u>	Are OBL, FACV			2	_ ^(A)
4.	· ——			Total Number of Across All Strat		Species	5	(B)
5.								— (D)
·	60	=Total Cover		Percent of Dom Are OBL, FACV		es mai	40.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15)	70101 00701		, 0 0 0 2 , . ,	, , , , , ,	_	101070	_('"')
Fraxinus pennsylvanica	.′ 30	Yes	FACW	Prevalence Inc	dex workshe	eet:		
2. Lonicera tatarica	10	Yes	FACU	Total % Co			iply by:	
3.				OBL species	0	x 1 =	0	_
4.				FACW species	40	x 2 =	80	_
5.				FAC species	25	x 3 =	75	
	40	=Total Cover		FACU species	70	x 4 =	280	_
Herb Stratum (Plot size: 5)				UPL species	60	x 5 = _	300	_
1. Tridens flavus	60	Yes	UPL	Column Totals:	195	(A) _	735	_ (B)
2. Lonicera japonica	10	No	FACU	Prevalence I	ndex = B/A	=3	3.77	_
3. Geum canadense	10	<u>No</u>	<u>FAC</u>					
4				Hydrophytic V	_			
5					est for Hydro		getation	
6.					nce Test is >			
7. 8.					nce Index is logical Adapt		rovido ou	nnartina
0					Remarks or o			
9. 10.					c Hydrophyti	-	•	-
101	80	=Total Cover		¹ Indicators of hy		-		
Woody Vine Stratum (Plot size: 15)	. 5.6., 50101		be present, unle				muSt
1. Toxicodendron radicans	., 15	Yes	FAC	Hydrophytic		- p		
2.				vegetation				
2	15	=Total Cover		Vegetation Present?	Yes	No	X	

Depth	Matrix			x Featur			confirm the absence o	•
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 3/2	100					Loamy/Clayey	
8-10	10YR 4/2	_90_	10YR 4/1	5	_ D_	M	Loamy/Clayey	
			10YR 5/8	5	С	M		Prominent redox concentrations
1 _{Type:} C=C	naontration D-Dar	lotion BM				Crains	2l coation	PL=Pore Lining, M=Matrix.
Hydric Soil I	oncentration, D=Dep Indicators:	detion, Kivi	-Reduced Matrix, I	vio-ivias	keu Sanc	Grains		s for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	ved Mat	rix (S4)			t Prairie Redox (A16)
	ipedon (A2)		Sandy Re	•	(0 .)			Manganese Masses (F12)
Black His			Stripped N		3)			Parent Material (F21)
	n Sulfide (A4)		Dark Surfa	•	,			Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu		eral (F1)			· (Explain in Remarks)
2 cm Mu			Loamy Gle					,
	Below Dark Surfac	e (A11)	Depleted I					
	rk Surface (A12)	, ,	Redox Da		•		³ Indicator	s of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Depleted [Dark Sur	face (F7))	wetla	nd hydrology must be present,
5 cm Mu	cky Peat or Peat (S	3)	Redox De	pression	s (F8)		unles	s disturbed or problematic.
Restrictive L	_ayer (if observed)	:						
Type: _								
Depth (in	iches):		<u> </u>				Hydric Soil Present	? Yes No_:
Remarks:								
HYDROLO Wetland Hyd	GY drology Indicators:							
_	cators (minimum of		ired: check all that	apply)			Secondar	y Indicators (minimum of two require
	Water (A1)		Water-Sta		ves (B9)			ce Soil Cracks (B6)
	ter Table (A2)		Aquatic Fa					age Patterns (B10)
Saturatio	n (A3)		True Aqua					Season Water Table (C2)
Water Ma	arks (B1)		Hydrogen)		ish Burrows (C8)
Sedimen	t Deposits (B2)		Oxidized F	Rhizosph	eres on l	iving R	oots (C3)Satur	ation Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)		Presence	of Reduc	ed Iron ((C4)	Stunt	ed or Stressed Plants (D1)
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soil	• •	norphic Position (D2)
	osits (B5)		Thin Muck		` '		FAC-	Neutral Test (D5)
	on Visible on Aerial I	0, 1	<i>_</i>		,			
Sparsely	Vegetated Concave	e Surface (B8) Other (Exp	olain in F	emarks)			
Field Observ								
Surface Water		es		Depth (i	· -			
Water Table		es		Depth (i				5 40 W
Saturation Pr		es	No <u>X</u>	Depth (i	ncnes):_		Wetland Hydrolog	gy Present? Yes No
	oillary fringe)		and the state of the state of the				tions) if availables	
	corded Data (street-	2 001100						
	corded Data (stream	n gauge, m	onitoring well, aeria	ıı pnotos	, previous	s inspec	cions), ii avaijabje.	
	corded Data (stream	n gauge, m	onitoring well, aeria	ıı pnotos	, previous	s inspec	alloris), ii avallable.	
Describe Red	corded Data (strean	n gauge, m	onitoring well, aeria	ii pnotos	, previous	s inspec	nions), ii avaliable.	
Describe Red	corded Data (strean	n gauge, m	onitoring weil, aeria	II pnotos	, previous	s inspec	nions), ii avaliable.	

Project/Site: WVPA Salem Bulk-Valley View Transm	ission Line	City/Cou	inty: St. Gene	evieve	Sam	ipling Dat	e: <u>08/2</u>	9/23
Applicant/Owner: Commonwealth Associates, Inc) .			State:N	ИО Sam	pling Poir	nt:	S3
Investigator(s): SCI - Michael Holm, Jacob Travelstea	ad	Section, 1	Гownship, Rar	ige: S23, T37N	, R6E			
Landform (hillside, terrace, etc.): Hillslope			Local relief (co	oncave, convex,	none): Conve	×		
· · · · · · · · · · · · · · · · · · ·			90.408263	, care, camera,		n: WGS84		
Slope (%): <u>2</u> Lat: <u>37.872275</u> Soil Map Unit Name: Fourche silt loam, 1 to 3 precer	t alanaa	Long. <u>-</u>	90.400203	NIA/I			•	
					classification			
Are climatic / hydrologic conditions on the site typical		-	Yes X	No (I f				
Are Vegetation, Soil, or Hydrology	_significantly	disturbed? A	Are "Normal C	ircumstances" pr	esent? Yes	s <u>X</u>	No	_
Are Vegetation, Soil, or Hydrology	_naturally pro	blematic? (If needed, exp	olain any answers	s in Remarks.)		
SUMMARY OF FINDINGS – Attach site n	nap showi	na samplin	a point loc	ations. trans	ects. impo	ortant fe	eatures	. etc.
	No <u>X</u>		Sampled Are					
	No X	withi	n a Wetland?	Yes	No	> <u>X</u>		
Wetland Hydrology Present? Yes	No <u>X</u>							
Remarks:								
Sample point 3 is located in a grass field in the sout	hern section o	of the project s	ite.					
VEGETATION – Use scientific names of p								
Tree Stratum (Plot size: 30)	Absolute	Dominant Species?	Indicator	Dominance Te	os warkabaa	.4.		
Tree Stratum (Plot size: 30)	% Cover	Species?	Status					
2.	-			Number of Dor Are OBL, FAC	•	es That	1	(A)
	_					 `nasiss		- (^)
4				Total Number of Across All Stra		species	2	(B)
5.	-			Percent of Don		e That		_(
	_	=Total Cover		Are OBL, FAC	•	5 Illat	50.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15		i		•	•	_		- ` ′
1.	- ′		ľ	Prevalence In	dex workshe	et:		
2.				Total % C	over of:	Mult	iply by:	
3.				OBL species	0	x 1 =	0	_
4.				FACW species	40	x 2 =	80	
5.				FAC species	0	x 3 =	0	_
		=Total Cover		FACU species	30	x 4 =	120	_
Herb Stratum (Plot size: 5)				UPL species	35	x 5 = _	175	_
1. Panicum anceps	40	Yes	<u>FACW</u>	Column Totals		^(A) _	375	_ (B)
2. Tridens flavus	30	Yes	UPL	Prevalence	Index = B/A =	=3	5.57	_
3. Ambrosia artemisiifolia		No No	FACU					
4. Daucus carota	5	No	UPL_	Hydrophytic V	_			
5. Cichorium intybus	5	No	FACU_		est for Hydro		getation	
6. Trifolium pratense	5	No	FACU		nce Test is >			
7					ence Index is			
8.	_				logical Adapt Remarks or or			
9.	_				ic Hydrophytic	-		
10	105	=Total Cover				•	` .	,
Woody Vine Stratum (Plot size: 15	100	- Total Cover		¹ Indicators of h be present, unl				must
	,		-	ne hieseiit, uiii	caa diatui bed	or bronie	matic.	
	_		ı					
1.				Hydrophytic Vegetation				
	- -	=Total Cover		Hydrophytic Vegetation Present?	Yes	No	X	

Profile Desc Depth	cription: (Describe Matrix	to the deptr		u ment ti x Featur		ator or o	confirm the absence of	of indicators.)	
(inches)	Color (moist)	 _	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks
0-11	10YR 4/3	100	Color (molecy		1,700		Loamy/Clayey		o
11-20	10YR 4/2	100					Loamy/Clayey		
¹ Type: C=C	oncentration, D=Dep	etion, RM=F	Reduced Matrix, N	//S=Mas	ked Sand	d Grains	Location	: PL=Pore Lining, M=	Matrix.
Hydric Soil	Indicators:						Indicator	rs for Problematic Hy	/dric Soils³:
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coas	t Prairie Redox (A16)	
	pipedon (A2)		Sandy Red					Manganese Masses (F	F12)
Black Hi			Stripped M	-	6)			Parent Material (F21)	
	n Sulfide (A4)		Dark Surfa					Shallow Dark Surface	
	l Layers (A5)		Loamy Mu				Other	r (Explain in Remarks))
	ick (A10)		Loamy Gle						
	d Below Dark Surface	(A11)	Depleted I	•	•		2		
	ark Surface (A12)		Redox Da		` '			rs of hydrophytic veget	
	lucky Mineral (S1)		Depleted [` ')		ind hydrology must be	
5 cm Mu	icky Peat or Peat (S3	·)	Redox De	oression	s (F8)		unles	ss disturbed or problen	natic.
	Layer (if observed):								
Type:			_						
Depth (ir	nches):		_				Hydric Soil Present	t? Yes_	No <u>X</u>
Remarks:									
HYDROLC)GY								
Wetland Hy	drology Indicators:								
Primary India	cators (minimum of o	ne is require	ed; check all that	apply)			Secondar	ry Indicators (minimun	n of two required)
Surface	Water (A1)		Water-Sta	ined Lea	ves (B9)		Surfa	ace Soil Cracks (B6)	
High Wa	iter Table (A2)		Aquatic Fa	auna (B1	3)		Drain	nage Patterns (B10)	
Saturation	on (A3)		True Aqua	tic Plant	s (B14)		Dry-S	Season Water Table (0	C2)
	arks (B1)		Hydrogen	Sulfide (Odor (C1))	Crayf	fish Burrows (C8)	
	nt Deposits (B2)		Oxidized F			-		ration Visible on Aeria	
	oosits (B3)		Presence			. ,		ted or Stressed Plants	(D1)
`	it or Crust (B4)		Recent Iro			lled Soi	` ' —	morphic Position (D2)	
	osits (B5)		Thin Muck		` '		FAC-	Neutral Test (D5)	
	on Visible on Aerial Ir	. , ,	Gauge or		` '				
<u> </u>	Vegetated Concave	Surface (B8	3)Other (Exp	olain in R	(emarks				
Field Obser									
Surface Wat		s			nches): _				
Water Table		s	No X	Depth (i	nches): _		West	mu Dwa a circlo	NI- V
Saturation P		s	NoX	eptn (וו	nches):		Wetland Hydrolog	gy Present? Yes _	No <u>X</u>
(includes cap			itorina uselli essis	l nhata:		o locaci	otions) if overlighter		
Describe Re	corded Data (stream	yauge, mon	moning well, aeria	ıı pnotos	, previou:	s mspec	suoris), ii available:		
Remarks:									

Project/Site: WVPA Salem Bulk-Valley View Transmis	sion Line	City/Cou	inty: St. Gen	evieve	Saı	mpling Date	08/29	9/23
Applicant/Owner: Commonwealth Associates, Inc.				State: N	ИО Sar	mpling Point	:	S4
Investigator(s): SCI - Michael Holm, Jacob Travelstead	i	Section, 7	Γownship, Raι	nge: <u>S23, T37N</u>	I, R6E			
Landform (hillside, terrace, etc.): Slope			Local relief (c	oncave, convex, i	none): Conc	ave		
Slope (%): 5 Lat: 37.877189		Long: -	90.407322		Datur	m: WGS84		
Soil Map Unit Name: Fourche silt loam, 1 to 3 precent	slopes			NWI	 l classificatio	n:		
Are climatic / hydrologic conditions on the site typical f	or this time o	f year?	Yes X	No (If	no, explain i	n Remarks.)	1	
Are Vegetation, Soil, or Hydrology	significantly of	disturbed? A	Are "Normal C	ircumstances" pr			No	
Are Vegetation, Soil, or Hydrology				plain any answers				_
SUMMARY OF FINDINGS – Attach site m							atures	, etc.
Hydrophytic Vegetation Present? Yes N	o X	Is the	Sampled Ar	rea				
	0		n a Wetland?		N	lo X		
	o <u>X</u>							
Remarks:								
Sample point 4 is located in a small forested tract in t	he southern	section of the	project site.					
VEGETATION – Use scientific names of pla								
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Te	et worksho	ot·		
1. Juniperus virginiana	40	Yes	FACU	Number of Dor				
2. Fraxinus pennsylvanica	5	No	FACW	Are OBL, FAC	•	C3 IIIat	1	(A)
3. Quercus stellata	5	No	FACU	Total Number o		Species		- ` ′
4.				Across All Stra		-	4	(B)
5.				Percent of Don	ninant Speci	es That		_
	50	=Total Cover		Are OBL, FAC	W, or FAC:		25.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15)							
Lonicera tatarica	25	Yes	FACU_	Prevalence Inc				
2.				Total % C		Multip	-	_
3				OBL species	40	. x1=	40	_
4				FACW species		. x2=	10	_
5	25	Total Cover		FACIL appeirs	<u>15</u> 95	x 3 =	45	_
 <u>Herb Stratum</u> (Plot size: 5)		- rotal Cover		FACU species UPL species	15	· ×4= ×5=	380 75	-
1. Leersia oryzoides	40	Yes	OBL	Column Totals		- ^ 3 ⁻ —	550	– (B)
Trifolium pratense	25	Yes	FACU		Index = B/A			_(_)
3. Convolvulus arvensis	15	No	UPL	, , , , , , , , , , , , , , , , , , , ,				-
4. Ambrosia trifida	15	No	FAC	Hydrophytic V	egetation Ir	ndicators:		
5.				1 - Rapid T	Test for Hydr	ophytic Veg	etation	
6.				2 - Domina	ance Test is	>50%		
7.				3 - Prevale	ence Index is	≤3.0 ¹		
8					logical Adap			
9					Remarks or o			
10				Problemati	ic Hydrophyt	ic Vegetatio	n¹ (Expla	ain)
	95	=Total Cover		¹ Indicators of h	•	•		must
Woody Vine Stratum (Plot size: 15)			be present, unl	ess disturbe	d or problen	natic.	
1				Hydrophytic				
2		=Total Cover		Vegetation Present?	Voc	Na \	,	
		- rotal Cover		rieselli	Yes	No>	<u>` </u>	
Remarks: (Include photo numbers here or on a sepa	rate sheet.)							

	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 3/2	100					Loamy/Clayey	
2-6	10YR 4/3	100					Loamy/Clayey	
6-20	10YR 4/2	95	10YR 6/4	5	С	М	Loamy/Clayey	Distinct redox concentrations
¹ Type: C=Co	ncentration, D=Deplet	tion, RM=I	Reduced Matrix, N	√S=Mas	ked Sand	d Grains.	. ² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil In								s for Problematic Hydric Soils ³ :
Histosol (Sandy Gle	•	, ,			t Prairie Redox (A16)
	pedon (A2)		Sandy Red					Manganese Masses (F12)
Black His	• ,		Stripped M	•	6)			Parent Material (F21)
	Sulfide (A4)		Dark Surfa					Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu	•	. ,		Other	(Explain in Remarks)
2 cm Muc	` '		Loamy Gle					
<u> </u>	Below Dark Surface (A11)	X Depleted I				2	
	k Surface (A12)		Redox Da					s of hydrophytic vegetation and
<u> </u>	ucky Mineral (S1)		Depleted [` ')		nd hydrology must be present,
5 cm Muc	cky Peat or Peat (S3)		Redox De	pression	s (F8)		unles	s disturbed or problematic.
	ayer (if observed):							
Type: _								
Depth (inc	ches):		_				Hydric Soil Present	? Yes <u>X</u> No
UVDDOL O	OV							
HYDROLO(
Wetland Hyd	rology Indicators:		ada aha ah all dhad	- mak A			0	
Wetland Hyd Primary Indica	rology Indicators: ators (minimum of one	e is require			(DO)			y Indicators (minimum of two require
Wetland Hyd Primary Indica Surface V	rology Indicators: ators (minimum of one Vater (A1)	e is require	Water-Sta	ined Lea	, ,		Surfa	ce Soil Cracks (B6)
Wetland Hyd Primary Indica Surface V High Wate	rology Indicators: ators (minimum of one Vater (A1) er Table (A2)	e is require	Water-Sta Aquatic Fa	ined Lea auna (B1	3)		Surfa Surfa Drain.	ce Soil Cracks (B6) age Patterns (B10)
Wetland Hyd Primary Indica Surface V High Wate Saturation	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3)	e is require	Water-Sta Aquatic Fa True Aqua	ined Lea auna (B1 itic Plant	3) s (B14)		Surfa Drain	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma	trology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1)	e is require	Water-Sta Aquatic Fa True Aqua Hydrogen	ined Lea auna (B1 itic Plant Sulfide (3) s (B14) Odor (C1)	Surfa Drain Dry-S Crayf	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) : Deposits (B2)	e is require	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 itic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1 eres on l) _iving Ro	Surfa Drain. Dry-S Crayf pots (C3) Satur	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) c Deposits (B2) osits (B3)	e is require	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1 eres on l ced Iron) _iving Ro (C4)	Surfa Drain. Dry-S Crayf pots (C3)Satur. Stunt	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) c Deposits (B2) osits (B3) or Crust (B4)	e is require	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	ined Lea auna (B1 itic Plant Sulfide (Rhizosph of Reduc n Reduc	3) s (B14) Odor (C1 eres on led Iron (ction in Ti) _iving Ro (C4)	Surfa Drain. Dry-S Crayf pots (C3)Satur Stunt. s (C6)Geom	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) horphic Position (D2)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) r Deposits (B2) osits (B3) or Crust (B4) osits (B5)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Lea auna (B1 sulfide (Rhizosph of Reduc n Reduc Surface	3) s (B14) Odor (C1 eres on lead Iron of tion in Tiele (C7)) _iving Ro (C4)	Surfa Drain. Dry-S Crayf pots (C3)Satur Stunt. s (C6)Geom	ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) c Deposits (B2) osits (B3) or Crust (B4)	agery (B7)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Lea auna (B1 sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	3) s (B14) Odor (C1 eres on lead from the cell from the ce) _iving Ro (C4) Iled Soil:	Surfa Drain. Dry-S Crayf pots (C3)Satur Stunt. s (C6)Geom	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) horphic Position (D2)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) c Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Ima Vegetated Concave S	agery (B7)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Lea auna (B1 sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	3) s (B14) Odor (C1 eres on lead from the cell from the ce) _iving Ro (C4) Iled Soil:	Surfa Drain. Dry-S Crayf pots (C3)Satur Stunt. s (C6)Geom	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) horphic Position (D2)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) c Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Ima Vegetated Concave S rations:	agery (B7) surface (Ba	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or 18 Other (Exp	ined Lea auna (B1 sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	3) s (B14) Ddor (C1 eres on led Iron of tion in Tiel (C7) a (D9) demarks)) _iving Ro (C4) Iled Soil:	Surfa Drain. Dry-S Crayf pots (C3)Satur Stunt. s (C6)Geom	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) horphic Position (D2)
Wetland Hyd Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observ	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) c Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Ima Vegetated Concave S rations: er Present? Yes	agery (B7) Surface (B	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or V B) Other (Exp	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc in Reduc Surface Well Dat blain in F	3) s (B14) Ddor (C1 eres on led Iron of tion in Tiel (C7) a (D9) demarks)) Living Ro (C4) Iled Soil:	Surfa Drain. Dry-S Crayf pots (C3)Satur Stunt. s (C6)Geom	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) horphic Position (D2)
Wetland Hyd Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observ Surface Water	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) r Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aerial Ima Vegetated Concave S rations: ar Present? Yes Present? Yes	agery (B7) Surface (B	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V B) Other (Exp No X No X	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc in Reduc Surface Well Dat blain in F	3) s (B14) Ddor (C1 eres on lead Iron (C7) a (D9) emarks) nches): _nches):) Living Ro (C4) Iled Soil:	Surfa Drain. Dry-S Crayf pots (C3)Satur Stunt. s (C6)Geom	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) led or Position (D2) Neutral Test (D5)
Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observ Surface Water Table 6	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) r Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aerial Ima Vegetated Concave S rations: er Present? Yes pesent? Yes esent? Yes	agery (B7) Surface (B	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V B) Other (Exp No X No X	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc surface Well Dat blain in F	3) s (B14) Ddor (C1 eres on lead Iron (C7) a (D9) emarks) nches): _nches):) Living Ro (C4) Iled Soil:	Surfa Drain. Dry-S Crayf oots (C3) Saturt Stunt. S (C6) FAC-	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) learn Position (D2) Neutral Test (D5)
Wetland Hyd Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observ Surface Water Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) r Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aerial Ima Vegetated Concave S rations: er Present? Yes pesent? Yes esent? Yes	agery (B7) surface (Ba	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or B) Other (Exp No X No X No X	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Ddor (C1 eres on led Iron et (C7) a (D9) demarks) nches): _ nches): _) Living Ro (C4) Illed Soil:	Surfa Drain. Dry-S Crayf oots (C3) Saturt Stunt s (C6) FAC-I Wetland Hydrolog	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) led or Position (D2) Neutral Test (D5)
Wetland Hyd Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observ Surface Water Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) Dosits (B3) Or Crust (B4) Dosits (B5) n Visible on Aerial Ima Vegetated Concave S rations: er Present? Yes Desent? Yes esent? Yes eillary fringe)	agery (B7) surface (Ba	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or B) Other (Exp No X No X No X	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Ddor (C1 eres on led Iron et (C7) a (D9) demarks) nches): _ nches): _) Living Ro (C4) Illed Soil:	Surfa Drain. Dry-S Crayf oots (C3) Saturt Stunt s (C6) FAC-I Wetland Hydrolog	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) led or Position (D2) Neutral Test (D5)
Wetland Hyd Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observ Surface Water Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) Dosits (B3) Or Crust (B4) Dosits (B5) n Visible on Aerial Ima Vegetated Concave S rations: er Present? Yes Desent? Yes esent? Yes eillary fringe)	agery (B7) surface (Ba	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or B) Other (Exp No X No X No X	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Ddor (C1 eres on led Iron et (C7) a (D9) demarks) nches): _ nches): _) Living Ro (C4) Illed Soil:	Surfa Drain. Dry-S Crayf oots (C3) Saturt Stunt s (C6) FAC-I Wetland Hydrolog	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) led or Position (D2) Neutral Test (D5)
Wetland Hyd Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observ Surface Water Water Table F Saturation Pro (includes capi	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) Dosits (B3) Or Crust (B4) Dosits (B5) n Visible on Aerial Ima Vegetated Concave S rations: er Present? Yes Desent? Yes esent? Yes eillary fringe)	agery (B7) surface (Ba	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck Gauge or B) Other (Exp No X No X No X	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Ddor (C1 eres on led Iron et (C7) a (D9) demarks) nches): _ nches): _) Living Ro (C4) Illed Soil:	Surfa Drain. Dry-S Crayf oots (C3) Saturt Stunt s (C6) FAC-I Wetland Hydrolog	ce Soil Cracks (B6) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) led or Stressed Plants (D1) led or Position (D2) Neutral Test (D5)

Project/Site: WVPA Salem Bulk-Valley View Transmi	ission Line	City/Cou	nty: St. Gene	evieve	Sa	mpling Date	e: <u>08/2</u>	9/23
Applicant/Owner: Commonwealth Associates, Inc	i.			State:N	1O Sai	mpling Poin	t:	S5
Investigator(s): SCI - Michael Holm, Jacob Travelstea	ıd	Section, T	ownship, Ran	ge: S23, T37N,	R6E			
Landform (hillside, terrace, etc.): Hillslope			Local relief (co	oncave, convex, r	ione): Conc	ave		
Slope (%): 2-5 Lat: 37.879451		Long: -	90.406626		Datu	m: WGS84		
Soil Map Unit Name: Caneyville silt loam, 3 to 8 perc	ent slopes			NWI	classification			
Are climatic / hydrologic conditions on the site typical	for this time o	f vear?	Yes X	No (lf r	no, explain i	n Remarks.	.)	
Are Vegetation, Soil, or Hydrology		•		ircumstances" pre			No	
Are Vegetation, Soil, or Hydrology	-			olain any answers				_
SUMMARY OF FINDINGS – Attach site n							atures	. etc.
		- 						,
· · · · · · · · · · · · · · · · · · ·	No X		Sampled Arenal A			ua V		
	10 X	Within	i a vveuaiiu r	res _.		No <u>X</u>		
Remarks:	<u> </u>							
Sample point 5 is located in a small forested tract in	the southern	section of the	project site.					
VEGETATION – Use scientific names of pl		Daminant	Indicator					
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Te	st workshe	et:		
1. Carya ovata	40	Yes	FACU	Number of Dom				
2. Quercus muehlenbergii	10	No	FACU	Are OBL, FACV	•		1	(A)
3. Juglans nigra	10	No	FACU	Total Number o	f Dominant	Species		_
4. Quercus rubra	10	No	FACU	Across All Strat		·	7	_(B)
5				Percent of Dom	ıinant Speci	ies That		
	70	=Total Cover		Are OBL, FACV	V, or FAC:	_	14.3%	_ (A/B)
Sapling/Shrub Stratum (Plot size: 15	_)							
1. Lonicera tatarica	25	Yes Yes	FACU	Prevalence Inc			برجاء رام	
Fraxinus pennsylvanica Carya ovata	10	Yes Yes	FACU FACU	Total % Co	0	x 1 =	ply by: 0	_
4.			<u> </u>	FACW species		- x2=	20	_
5.				FAC species	0	- x3 = -	0	_
	45	=Total Cover		FACU species	135	- x 4 = -	540	_
Herb Stratum (Plot size: 5)				UPL species	0	x 5 =	0	_
1. Rosa multiflora	10	Yes	FACU	Column Totals:	145	(A)	560	(B)
2. Parthenocissus quinquefolia	10	Yes	FACU	Prevalence i	ndex = B/A	.= 3	.86	
3. Desmodium paniculatum	10	Yes	FACU					
4				Hydrophytic V	egetation I	ndicators:		
5				1 - Rapid T			getation	
6				2 - Domina				
7				3 - Prevalei				
8.				4 - Morphol	logical Adap Remarks or (
9				Problematic				
10	30	=Total Cover		Indicators of hy	•	-		•
Woody Vine Stratum (Plot size: 15	_)	. 3.2. 30101		be present, unle	•			must
1	-			Hydrophytic				
2.				Vegetation				
		=Total Cover		Present?	Yes	No	<u>X</u>	
Remarks: (Include photo numbers here or on a sep	arate sheet.)						_	

Depth	cription: (Describe Matrix	e to the dept		ument the x Feature		ator or c	onfirm the absence	of indicators.)	
(inches)	Color (moist)	 _	Color (moist)	% r eature	Type ¹	Loc ²	Texture		Remarks	
0-6	10YR 4/4	100			71		Loamy/Clayey			
							<u> </u>			
	-									
	oncentration, D=De	pletion, RM=	Reduced Matrix, I	MS=Mask	ed Sand	d Grains.		: PL=Pore Lir		
Hydric Soil								rs for Problen	_	Soils³:
— Histosol			Sandy Gle	-	x (S4)			t Prairie Redo		
	pipedon (A2)		Sandy Re					Manganese M		
	stic (A3)		Stripped N					Parent Materia		`
	en Sulfide (A4)		Dark Surfa		rol (E1)		<u> </u>	Shallow Dark	•)
	d Layers (A5) uck (A10)		Loamy Mu				Othe	r (Explain in R	emarks)	
	d Below Dark Surfa	ca (Δ11)	Depleted I	•	, ,					
	ark Surface (A12)	DC (A11)	Redox Da	-			³ Indicator	rs of hydrophy	tic vegetation	and
	fucky Mineral (S1)		Depleted I		` '	,		ind hydrology	-	
	ıcky Peat or Peat (S	33)	Redox De		, ,			ss disturbed or		,
Restrictive	Layer (if observed):								
Type:	Rocl									
Depth (ir	nches):	6					Hydric Soil Present	t?	Yes	No X
Remarks:										
HYDROLC	OGY									
-	drology Indicators									
	cators (minimum of	one is requir						ry Indicators (r		vo required)
	Water (A1)		Water-Sta					ice Soil Crack		
	ater Table (A2)		Aquatic Fa	-				age Patterns		
Saturation	larks (B1)		True Aqua Hydrogen			١		Season Water fish Burrows (
	nt Deposits (B2)		Oxidized F		, ,			ration Visible o		nery (C9)
	posits (B3)		Presence	•		-	· · · —	ted or Stresse	•	,
	at or Crust (B4)		Recent Iro		,	,	_	norphic Position	• •	
	oosits (B5)		 Thin Muck					Neutral Test (
Inundation	on Visible on Aerial	Imagery (B7)	Gauge or	Well Data	(D9)					
Sparsely	/ Vegetated Concav	e Surface (B	8) Other (Exp	olain in Re	emarks)					
Field Obser	vations:									
Surface Wat	ter Present? Y	es	No <u>X</u>	Depth (in	ches): _					
Water Table		es	No <u>X</u>	Depth (in						
Saturation P		es	No <u>X</u>	Depth (in	ches): _		Wetland Hydrolo	gy Present?	Yes	No X
(includes ca							Caral Manager			
Describe Re	corded Data (strear	ıı gauge, moı	nitoring well, aeria	ai priotos,	previous	s inspect	iions), ii available:			
Remarks:										
I										

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET - Midwest Region

Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024

Project/Site: WVPA Salem Bulk-Valley View Transmis	ssion Line	City/Cou	nty: St. Gen	evieve	Sampling Date	e: <u>08/29/23</u>
Applicant/Owner: Commonwealth Associates, Inc.	i			State: MO	Sampling Point	t: <u>S6</u>
Investigator(s): SCI - Michael Holm, Jacob Travelstea	d	Section, T	ownship, Ra	nge: S23, T37N, R6E		
Landform (hillside, terrace, etc.): Hillslope			Local relief (d	concave, convex, none):	None	
Slope (%): <u>2-5</u> Lat: <u>37.882507</u>		Long:	90.404899		Datum: WGS84	
Soil Map Unit Name: Lamotte silt loam, 3 to 8 percent	slopes			NWI classit	fication:	
Are climatic / hydrologic conditions on the site typical	for this time of	year?	Yes X	No (If no, exp	olain in Remarks.)
Are Vegetation, Soil, or Hydrology		-		Circumstances" present?		
Are Vegetation, Soil, or Hydrology				plain any answers in Rer		
SUMMARY OF FINDINGS – Attach site m	-			•		atures, etc.
Hydrophytic Vegetation Present? Yes X N	lo	Is the	Sampled A	rea		
Hydric Soil Present? Yes N	lo X	withir	n a Wetland'	? Yes	No <u>X</u>	
Wetland Hydrology Present? Yes N	lo <u>X</u>					
Remarks:						
Sample point 6 is located in an open grass field in th	e southern sed	tion of the pr	oject site.			
VEGETATION – Use scientific names of plants	Absolute	Dominant	Indicator	.		
Tree Stratum (Plot size: 30)	% Cover	Dominant Species?	Indicator Status	Dominance Test wor	rksheet:	
1				Number of Dominant	Species That	
2.				Are OBL, FACW, or F	AC:	(A)
3				Total Number of Dom	inant Species	
4				Across All Strata:	_	(B)
5		Total Cover		Percent of Dominant	•	E0.00/ (A/B)
Sapling/Shrub Stratum (Plot size: 15	,——	· Total Cover		Are OBL, FACW, or F		50.0% (A/B)
1. Juglans nigra	. <i>'</i> 5	Yes	FACU	Prevalence Index wo		
2.				Total % Cover of		ply by:
3.				OBL species 0	x 1 =	0
4.				FACW species 6	0 x 2 =	120
5				FAC species1	0 x 3 =	30
	5 =	:Total Cover		FACU species 2		100
Herb Stratum (Plot size: 5)	00		E4014/	UPL species		0 (5)
1. Agrostis gigantea	60	Yes	FACW	Column Totals: 9		250 (B)
Ambrosia artemisiifolia Vernonia gigantea	15	No No	FACU FAC	Prevalence Index	= B/A = <u>2.</u>	63
Trifolium pratense	5	No	FACU	Hydrophytic Vegetat	 ion Indicators:	
5.				1 - Rapid Test for		etation
6.				2 - Dominance Te		
7.				3 - Prevalence Inc	dex is ≤3.0¹	
8.				4 - Morphological		
9.				data in Remark	ks or on a separat	te sheet)
10				Problematic Hydr	ophytic Vegetatio	n ¹ (Explain)
	90 =	Total Cover		¹ Indicators of hydric s		
Woody Vine Stratum (Plot size: 15	.)			be present, unless dis	turbed or problen	natic.
1				Hydrophytic		
2		Total Cover		Vegetation Present? Yes	X No	
Demonstrat (Include that the transfer of the control		TOTAL COVEL		riesent: 1es	<u> </u>	_
Remarks: (Include photo numbers here or on a sepa	ııaıe sneet.)					

		to the dept				tor or c	onfirm the absence of i	ndicators.)
Depth	Matrix			x Featur		. 2		_
(inches)	Color (moist)		Color (moist)		Type	Loc ²	Texture	Remarks
0-2	10YR 4/4	100					Loamy/Clayey	
2-15	10YR 4/6	100					Loamy/Clayey	
								_
1Type: C=C	 oncentration, D=Depl	 -	Reduced Matrix I	 eeM=2N	wed Sand	 I Grains	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		Ction, rtivi	reduced Matrix, I	vio-ivias	Red Garie	Oranis.		or Problematic Hydric Soils ³ :
Histosol			Sandy Gle	eved Mat	rix (S4)			rairie Redox (A16)
I —	pipedon (A2)		Sandy Re					nganese Masses (F12)
Black His	stic (A3)		Stripped N	, ,				ent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very Sha	allow Dark Surface (F22)
Stratified	l Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Other (E	xplain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)			
Depleted	l Below Dark Surface	e (A11)	Depleted I	Matrix (F	3)			
Thick Da	rk Surface (A12)		Redox Da	rk Surfac	e (F6)			f hydrophytic vegetation and
I —	lucky Mineral (S1)		Depleted [, ,			hydrology must be present,
5 cm Mu	cky Peat or Peat (S3	3)	Redox De	pression	s (F8)		unless d	isturbed or problematic.
	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Present?	Yes No _X
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:							
	cators (minimum of o	ne is requir	ed; check all that	apply)			Secondary I	ndicators (minimum of two required)
Surface '	Water (A1)		Water-Sta	ined Lea	ves (B9)		Surface	Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic Fa	auna (B1	3)		Drainage	e Patterns (B10)
Saturation	on (A3)		True Aqua	ıtic Plant	s (B14)		Dry-Sea	son Water Table (C2)
Water M	arks (B1)		Hydrogen		` '			Burrows (C8)
I —	it Deposits (B2)		Oxidized F			_	, , <u>—</u>	on Visible on Aerial Imagery (C9)
I — ·	oosits (B3)		Presence		`	,		or Stressed Plants (D1)
	t or Crust (B4)		Recent Iro			led Soils		phic Position (D2)
I — ·	osits (B5) on Visible on Aerial Ir		Thin Muck		` '		FAC-Ne	utral Test (D5)
i inungang	on visible on Aeriai ir	0 , (<i>_</i>		` '			
	Vogetated Concave	Curtoco (D						
Sparsely	Vegetated Concave	Surface (B	<u> </u>	Jan III I				
Sparsely Field Obser	vations:		<u> </u>		<u> </u>			
Sparsely Field Obser Surface Wat	vations: er Present? Ye	s	No X	Depth (i	nches): _			
Sparsely Field Obser Surface Wat Water Table	vations: er Present? Ye Present? Ye	s	No X No X	Depth (i Depth (i	nches): _ nches): _		Wetland Hydrology	Present? Yes No X
Field Obser Surface Wat Water Table Saturation P	vations: er Present? Ye Present? Ye resent? Ye	s	No X	Depth (i Depth (i	nches): _		Wetland Hydrology I	Present? Yes No _X_
Field Obser Surface Wat Water Table Saturation P (includes cap	vations: er Present? Ye Present? Ye resent? Ye	s s s	No X No X No X	Depth (i Depth (i Depth (i	nches): _ nches): _ nches): _			Present? Yes No _X_
Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	vations: er Present? Ye Present? Ye resent? Ye oillary fringe)	s s s	No X No X No X	Depth (i Depth (i Depth (i	nches): _ nches): _ nches): _			Present? Yes No _X_
Field Obser Surface Wat Water Table Saturation P (includes cap	vations: er Present? Ye Present? Ye resent? Ye oillary fringe)	s s s	No X No X No X	Depth (i Depth (i Depth (i	nches): _ nches): _ nches): _			Present? Yes No X
Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	vations: er Present? Ye Present? Ye resent? Ye oillary fringe)	s s s	No X No X No X	Depth (i Depth (i Depth (i	nches): _ nches): _ nches): _			Present? Yes No_X_

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

Project/Site: WVPA Salem Bulk-Valley View Transmis	sion Line	City/Cour	nty: St. Gen	evieve	Sampling Dat	e: <u>08/2</u>	9/23
Applicant/Owner: Commonwealth Associates, Inc.				State: MO	Sampling Poir	nt:	S7
Investigator(s): SCI - Michael Holm, Jacob Travelstead	l	Section, T	ownship, Ra	nge: S23, T37N, R6E			
Landform (hillside, terrace, etc.): Slope		L	_ocal relief (c	concave, convex, none):	Concave		
Slope (%):2		Long: <u>-</u> 9	90.400404		Datum: WGS84	1	
Soil Map Unit Name: Gerald silt loam, 1 to 4 percent s	lopes			NWI classi	ication:		
Are climatic / hydrologic conditions on the site typical f	or this time o	f year?	Yes X	No (If no, exp	olain in Remarks	s.)	
Are Vegetation, Soil, or Hydrology	significantly d	isturbed? A	re "Normal C	Circumstances" present?	Yes X	No	_
Are Vegetation, Soil, or Hydrology			f needed, ex	plain any answers in Rei	marks.)		_
SUMMARY OF FINDINGS – Attach site m	ap showin	g samplin	g point lo	cations, transects,	important fo	eatures	, etc.
Hydrophytic Vegetation Present? Yes X N	0	Is the	Sampled Ar	·ea			
	o <u>X</u>		n a Wetland?		No <u>X</u>		
	o <u>X</u>						
Remarks:							
Sample point 7 is located in an open grass field in the	e southern se	ction of the sit	e.				
VECETATION . He asiantificana a fall	4-						
VEGETATION – Use scientific names of pla	Absolute	Dominant	Indicator				
<u>Tree Stratum</u> (Plot size:30)	% Cover	Species?	Status	Dominance Test wo	ksheet:		
1				Number of Dominant	Species That		
2.				Are OBL, FACW, or F		2	_ (A)
3				Total Number of Dom Across All Strata:	inant Species	2	(B)
5.				Percent of Dominant	— Species That		_(D)
· ·		Total Cover		Are OBL, FACW, or F	•	100.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15)						
1				Prevalence Index wo			
2.				Total % Cover of		iply by:	_
3				OBL species 2 FACW species 0		20 0	-
4 5.				FAC species 4		120	-
		Total Cover		FACU species 2	5 x 4 =	100	_
Herb Stratum (Plot size: 5)				UPL species	x 5 =	0	_
1. Paspalum dilatatum	40	Yes	FAC ORL	Column Totals: 8		240	- ^(B)
Juncus effusus Trifolium pratense	<u>20</u> 15	Yes No	FACU	Prevalence Index	= B/A =2	2.82	_
4. Rubus flagellaris	10	No	FACU	Hydrophytic Vegetat	ion Indicators:		
5.				1 - Rapid Test for			
6.				X 2 - Dominance Te	est is >50%	-	
7				3 - Prevalence Inc			
8				4 - Morphological	Adaptations' (P s or on a separa		
9				Problematic Hydr	•	•	
10	85 =	Total Cover		¹ Indicators of hydric s			
Woody Vine Stratum (Plot size: 15)			be present, unless dis			must
1.				Hydrophytic			
2		Total Cover		Vegetation Present? Yes	Y Na		
Device the first term of the f		- i Jiai Guvel		riesent: 168	<u> </u>		
Remarks: (Include photo numbers here or on a sepa	rate sneet.)						

Depth	Matrix	Redox Features						
(inches)	Color (moist) %	Color (moist) % Typ	pe ¹ Loc ²	Texture	Remarks			
0-6	10YR 4/6 100			Loamy/Clayey				
		·						
		 						
		· —— — —						
	•	RM=Reduced Matrix, MS=Masked S	Sand Grains.		Pore Lining, M=Matrix.			
Hydric Soil I		0 1 0 144 : (0	4)		Problematic Hydric Soils ³ :			
Histosol (Sandy Gleyed Matrix (S	4)		ie Redox (A16)			
	ipedon (A2)	Sandy Redox (S5)			nese Masses (F12)			
Black His	` '	Stripped Matrix (S6)		·	Material (F21)			
	Sulfide (A4)	Dark Surface (S7)	=4\		w Dark Surface (F22)			
	Layers (A5)	Loamy Mucky Mineral (F		Other (Expi	ain in Remarks)			
2 cm Muc		Loamy Gleyed Matrix (F	(2)					
	Below Dark Surface (A11)	Depleted Matrix (F3)	2)	31				
	rk Surface (A12)	Redox Dark Surface (F6		³ Indicators of hydrophytic vegetation and				
	ucky Mineral (S1) cky Peat or Peat (S3)	Depleted Dark Surface (Redox Depressions (F8)	` ,	wetland hydrology must be present, unless disturbed or problematic.				
		Redux Depressions (Fo	<i>)</i>	uniess disti	inded of problematic.			
	.ayer (if observed): Compacted Soil							
Type: Depth (in	•			Hydric Soil Present?	Vos No V			
Deptil (illi	cries).			nyunc son Fresent?	Yes No _X			
UVDDOLO								
HYDROLO	O.V							
	Irology Indicators:	quired; check all that apply)		Socondary India	potors (minimum of two require			
Primary Indic	Irology Indicators: ators (minimum of one is re	quired; check all that apply) Water-Stained Leaves (RO					
Primary Indic	Irology Indicators: ators (minimum of one is re Vater (A1)	Water-Stained Leaves (B9)	Surface So	l Cracks (B6)			
Primary Indic	Irology Indicators: ators (minimum of one is re Water (A1) er Table (A2)	Water-Stained Leaves (Aquatic Fauna (B13)	,	Surface So Drainage P	l Cracks (B6) atterns (B10)			
Primary Indic. Surface V High Wat Saturation	Irology Indicators: ators (minimum of one is re Vater (A1) er Table (A2) n (A3)	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1	4)	Surface So Drainage P Dry-Seasor	l Cracks (B6) atterns (B10) ı Water Table (C2)			
Primary Indic. Surface V High Wat Saturation Water Ma	Irology Indicators: ators (minimum of one is re Vater (A1) er Table (A2) n (A3) arks (B1)	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor (4) (C1)	Surface So Drainage P Dry-Seasor Crayfish Bu	l Cracks (B6) atterns (B10) ı Water Table (C2) rrows (C8)			
Primary Indic Surface V High Wat Saturation Water Ma	Irology Indicators: ators (minimum of one is re Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2)	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor of Oxidized Rhizospheres	4) (C1) on Living Ro	Surface So Drainage P Dry-Seasor Crayfish Bu oots (C3) Saturation	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo	Irology Indicators: ators (minimum of one is revalue (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) posits (B3)	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor (Oxidized Rhizospheres Presence of Reduced In	4) (C1) on Living Ro on (C4)	Surface So Drainage P Dry-Seasor Crayfish Bu oots (C3) Saturation S Stunted or	I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo	Irology Indicators: ators (minimum of one is revalue (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) cosits (B3) t or Crust (B4)	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor of Oxidized Rhizospheres Presence of Reduced In Recent Iron Reduction in	4) (C1) on Living Ro on (C4) n Tilled Soils	Surface So Drainage P Dry-Seasor Crayfish Bu oots (C3) Saturation Stunted or Geomorphi	I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo	Irology Indicators: ators (minimum of one is revalue (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) cosits (B3) t or Crust (B4)	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor (Oxidized Rhizospheres (Presence of Reduced In Recent Iron Reduction in Thin Muck Surface (C7)	4) (C1) on Living Ro on (C4) n Tilled Soils	Surface So Drainage P Dry-Seasor Crayfish Bu oots (C3) Saturation S Stunted or	I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio	Irology Indicators: ators (minimum of one is revalue (A1) ter Table (A2) ter (A3) ter (B1) ter Deposits (B2) ter (B3) ter Crust (B4) ter (B5)	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor (Oxidized Rhizospheres Presence of Reduced Ir Recent Iron Reduction in Thin Muck Surface (C7) (B7) Gauge or Well Data (D9)	4) (C1) on Living Ro on (C4) n Tilled Soils	Surface So Drainage P Dry-Seasor Crayfish Bu oots (C3) Saturation Stunted or Geomorphi	I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio	Irology Indicators: ators (minimum of one is revalue (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aerial Imagery Vegetated Concave Surface	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor (Oxidized Rhizospheres Presence of Reduced Ir Recent Iron Reduction in Thin Muck Surface (C7) (B7) Gauge or Well Data (D9)	4) (C1) on Living Ro on (C4) n Tilled Soils	Surface So Drainage P Dry-Seasor Crayfish Bu oots (C3) Saturation Stunted or Geomorphi	atterns (B10) I Water Table (C2)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely	Irology Indicators: ators (minimum of one is revalue (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) iosits (B3) t or Crust (B4) iosits (B5) in Visible on Aerial Imagery Vegetated Concave Surfact vations:	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor (Oxidized Rhizospheres Presence of Reduced Ir Recent Iron Reduction in Thin Muck Surface (C7) (B7) Gauge or Well Data (D9)	4) (C1) on Living Ro on (C4) n Tilled Soils (b)	Surface So Drainage P Dry-Seasor Crayfish Bu oots (C3) Saturation Stunted or Geomorphi	I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ	Irology Indicators: ators (minimum of one is revalue (A1) ter Table (A2) in (A3) arks (B1) it Deposits (B2) osits (B3) c or Crust (B4) osits (B5) in Visible on Aerial Imagery Vegetated Concave Surface vations: er Present? Yes	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor of Oxidized Rhizospheres of Reduced In Recent Iron Reduction in Thin Muck Surface (C7) (B7) Gauge or Well Data (D9) (B8) Other (Explain in Remail No X Depth (inches)	4) (C1) on Living Ro on (C4) n Tilled Soils (C) rks)	Surface So Drainage P Dry-Seasor Crayfish Bu oots (C3) Saturation Stunted or Geomorphi	I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Water	Irology Indicators: ators (minimum of one is revalue (A1) are Table (A2) arks (B1) arks (B1) arks (B3) cor Crust (B4) osits (B5) n Visible on Aerial Imagery Vegetated Concave Surface vations: are Present? Yes Present? Yes	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor of Oxidized Rhizospheres Presence of Reduced In Recent Iron Reduction in Thin Muck Surface (C7) (B7) Gauge or Well Data (D9) e (B8) Other (Explain in Remain No X Depth (inches)	4) (C1) on Living Ro on (C4) n Tilled Soils (C) rks)	Surface So Drainage P Dry-Seasor Crayfish Bu oots (C3) Saturation Stunted or Geomorphi	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2) I Test (D5)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Water Water Table	Irology Indicators: ators (minimum of one is revalue (A1) ter Table (A2) the (A3) the Deposits (B2) to Deposits (B3) to Crust (B4) to Sits (B5) to Visible on Aerial Imagery Vegetated Concave Surfactors: ter Present? The Concave Surfactors ter Present? The Concave Surfactors	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor of Oxidized Rhizospheres of Reduced In Recent Iron Reduction in Thin Muck Surface (C7) (B7) Gauge or Well Data (D9) (B8) Other (Explain in Remail No X Depth (inches)	4) (C1) on Living Ro on (C4) n Tilled Soils (C) rks)	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi X FAC-Neutra	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2) I Test (D5)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Water Water Table II Saturation Pri	Irology Indicators: ators (minimum of one is revalue (A1) are Table (A2) arks (B1) arks (B1) arks (B3) arks (B3) arks (B3) arks (B4) arks (B5) arks (B6) arks (B6) arks (B7) besits (B8) arks (B8) arks (B1) arks (B1) arks (B1) arks (B1) arks (B2) arks (B2) arks (B2) arks (B2) arks (B3) arks (B4) arks (B4) arks (B4) arks (B3) arks (B4) arks (B4) arks (B3) arks (B4) arks (B2) a	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor of Oxidized Rhizospheres of Reduced In Recent Iron Reduction in Thin Muck Surface (C7) (B7) Gauge or Well Data (D9) (B8) Other (Explain in Remail No X Depth (inches)	4) (C1) on Living Roon (C4) n Tilled Soils (P) rks) s):s s):s	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi X FAC-Neutra Wetland Hydrology Pre	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2) I Test (D5)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Water Water Table I Saturation Pr (includes cap Describe Rec	Irology Indicators: ators (minimum of one is revalue (A1) are Table (A2) arks (B1) arks (B1) arks (B3) arks (B3) arks (B3) arks (B4) arks (B5) arks (B6) arks (B6) arks (B7) besits (B8) arks (B8) arks (B1) arks (B1) arks (B1) arks (B1) arks (B2) arks (B2) arks (B2) arks (B2) arks (B3) arks (B4) arks (B4) arks (B4) arks (B3) arks (B4) arks (B4) arks (B3) arks (B4) arks (B2) a	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor (Oxidized Rhizospheres Presence of Reduced In Recent Iron Reduction in Thin Muck Surface (C7) (B7) Gauge or Well Data (D9 e (B8) Other (Explain in Remark No X Depth (inches No X Depth (inches	4) (C1) on Living Roon (C4) n Tilled Soils (P) rks) s):s s):s	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi X FAC-Neutra Wetland Hydrology Pre	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2) I Test (D5)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Water Water Table II Saturation Pri	Irology Indicators: ators (minimum of one is revalue (A1) are Table (A2) arks (B1) arks (B1) arks (B3) arks (B3) arks (B3) arks (B4) arks (B5) arks (B6) arks (B6) arks (B7) besits (B8) arks (B8) arks (B1) arks (B1) arks (B1) arks (B1) arks (B2) arks (B2) arks (B2) arks (B2) arks (B3) arks (B4) arks (B4) arks (B4) arks (B3) arks (B4) arks (B4) arks (B3) arks (B4) arks (B2) a	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor (Oxidized Rhizospheres Presence of Reduced In Recent Iron Reduction in Thin Muck Surface (C7) (B7) Gauge or Well Data (D9 e (B8) Other (Explain in Remark No X Depth (inches No X Depth (inches	4) (C1) on Living Roon (C4) n Tilled Soils (P) rks) s):s s):s	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi X FAC-Neutra Wetland Hydrology Pre	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2) I Test (D5)			
Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observ Surface Water Water Table I Saturation Pr (includes cap Describe Rec	Irology Indicators: ators (minimum of one is revalue (A1) are Table (A2) arks (B1) arks (B1) arks (B3) arks (B3) arks (B3) arks (B4) arks (B5) arks (B6) arks (B6) arks (B7) besits (B8) arks (B8) arks (B1) arks (B1) arks (B1) arks (B1) arks (B2) arks (B2) arks (B2) arks (B2) arks (B3) arks (B4) arks (B4) arks (B4) arks (B3) arks (B4) arks (B4) arks (B3) arks (B4) arks (B2) a	Water-Stained Leaves (Aquatic Fauna (B13) True Aquatic Plants (B1 Hydrogen Sulfide Odor (Oxidized Rhizospheres Presence of Reduced In Recent Iron Reduction in Thin Muck Surface (C7) (B7) Gauge or Well Data (D9 e (B8) Other (Explain in Remark No X Depth (inches No X Depth (inches	4) (C1) on Living Roon (C4) n Tilled Soils (P) rks) s):s s):s	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi X FAC-Neutra Wetland Hydrology Pre	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2) I Test (D5)			

Project/Site: WVPA Salem Bulk-Valley View Transmi	ssion Line	City/Cou	inty: St. Gene	evieve	Sa	ımpling Da	ite: <u>08/2</u>	9/23
Applicant/Owner: Commonwealth Associates, Inc	•			State:	MO Sa	mpling Po	int:	S8
Investigator(s): SCI - Michael Holm, Jacob Travelstea	d	Section, 1	Γownship, Rar	nge: S23, T37I	N, R6E			
Landform (hillside, terrace, etc.): Terrace			Local relief (c	oncave, convex,	none): Cond	cave		
Slope (%): 2 Lat: 37.920336		Long: -	90.311437		Datu	m: WGS8	4	
Soil Map Unit Name: Caneyville silt loam, 8 to 15 per	cent slopes			NW	/I classification			
Are climatic / hydrologic conditions on the site typical	for this time o	f year?	Yes_X	No (I	f no, explain	in Remark	s.)	
Are Vegetation, Soil, or Hydrology		-		ircumstances" p				
Are Vegetation , Soil , or Hydrology	='			olain any answei			_	_
SUMMARY OF FINDINGS – Attach site m				•			features	s, etc.
Hydrophytic Vegetation Present? Yes X	lo	Is the	Sampled Ar	ea				
	10 X	withi	n a Wetland?	Yes	s	No <u>X</u>		
Wetland Hydrology Present? Yes	10 <u>X</u>							
Sample point 8 is located in a forested tract in the no VEGETATION – Use scientific names of pl		of the site.						
Trop Stratum (Diet eizer 20)	Absolute	Dominant	Indicator	Daminanaa T	'aat warkab			
Tree Stratum (Plot size: 30) 1. Acer saccharinum	% Cover 40	Species? Yes	Status FACW	Dominance T				
Quercus muehlenbergii	10	No	FACU	Number of Do Are OBL, FAC	•	ies mai	2	(A)
3. Quercus alba	10	No	FACU	Total Number		Species		- ` ′
4. Juniperus virginiana	10	No	FACU	Across All Str		_	3	_(B)
5				Percent of Do	minant Spec	ies That		
0 11 (01 1 01 1 (01 1 1 1 1 1 1 1 1 1 1		=Total Cover		Are OBL, FAC	CW, or FAC:	_	66.7%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15	.)	Voo	FAC	Prevalence In	aday wantah			
1. Celtis occidentalis 2.	15	Yes	FAC	Total % (Itiply by:	
3.				OBL species	0	x 1 =	0	_
4.				FACW specie	s 40	x 2 =	80	_
5.				FAC species	15	x 3 =	45	_
	15	=Total Cover		FACU species		_ ×4=_	180	_
Herb Stratum (Plot size: 5	45	V	FACU	UPL species	0	$-\frac{x^{5}}{4}$	0	–
1. Hybanthus concolor 2.	15	Yes	<u>FACU</u>	Column Totals	100 Index = B/A	_(A) _	305 3.05	- (B)
3.				rievalence	IIIUEX - D/F	`	3.03	_
4.				Hydrophytic '	Vegetation I	ndicators	:	
5.				1 - Rapid	Test for Hyd	rophytic V	egetation	
6.				X 2 - Domin				
7					ence Index is			
8.					ological Ada _l Remarks or			
9					tic Hydrophy			•
10	15	=Total Cover		¹ Indicators of		-		
Woody Vine Stratum (Plot size: 15		70101 00101		be present, ur				riiusi
1.	·			Hydrophytic				
2		=Total Cover		Vegetation	V V			
		= 012 U:0\/er		Present?	Yes X	No		

		to the dep				tor or c	onfirm the absence of	indicators.)
Depth	Matrix			x Featur		. 2		
(inches)	Color (moist)		Color (moist)		Type	Loc ²	Texture	Remarks
0-4	10YR 3/2	<u>100</u>					Loamy/Clayey	
4-20	10YR 4/4	100					Loamy/Clayey	
1T 0=0			-Dadwaad Matrice				21	DI - Dana Lining M-Matrix
Hydric Soil	oncentration, D=Depl	etion, Rivi-	=Reduced Matrix, I	vi5=ivias	ked Sand	Grains		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	wed Mat	riv (S1)			Prairie Redox (A16)
I —	ipedon (A2)							anganese Masses (F12)
Histic Epipedon (A2) Black Histic (A3) Sandy Redox (S5) Stripped Matrix (S6)								arent Material (F21)
_	n Sulfide (A4)		Dark Surfa		-,			hallow Dark Surface (F22)
I — · ·	Layers (A5)		Loamy Mu		eral (F1)			Explain in Remarks)
2 cm Mu			Loamy Gle					•
I —	l Below Dark Surface	(A11)	Depleted I	-				
I — '	rk Surface (A12)	. ,	Redox Da				³ Indicators	of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Depleted I	Dark Sur	face (F7)		wetland	d hydrology must be present,
5 cm Mu	cky Peat or Peat (S3	3)	Redox De	pression	s (F8)		unless	disturbed or problematic.
Restrictive I	_ayer (if observed):							
Type:								
Depth (in	nches):						Hydric Soil Present?	Yes No _ X
Remarks:						· ·		
HYDROLO	ocv							
	drology Indicators:						Carandan	In directors (resistances of the grown and
	cators (minimum of o Water (A1)	ne is requi						Indicators (minimum of two required)
I —	ter Table (A2)		— Water-Sta Aguatic Fa		, ,			e Soil Cracks (B6) ge Patterns (B10)
Saturation			True Aqua	,	,			ason Water Table (C2)
I —	arks (B1)		Hydrogen			1		h Burrows (C8)
1—	t Deposits (B2)		Oxidized F		` '			tion Visible on Aerial Imagery (C9)
I —	osits (B3)		Presence	•		_	` ' 	d or Stressed Plants (D1)
I —	t or Crust (B4)		Recent Iro		`	,		orphic Position (D2)
	osits (B5)		Thin Muck					eutral Test (D5)
Inundation	on Visible on Aerial Ir	magery (B7	7) Gauge or	Well Dat	a (D9)			
Sparsely	Vegetated Concave	Surface (E	38) Other (Exp	olain in F	Remarks)			
Field Obser	vations:							
Surface Wat	er Present? Ye	s	No <u>X</u>	Depth (i	nches): _			
Water Table	Present? Ye	s	No X	Depth (i	nches): _			
Saturation P	resent? Ye	s	No X	Depth (i	nches):		Wetland Hydrology	Present? Yes No X
(includes car	oillary fringe)							
Describe Re	corded Data (stream	gauge, mo	onitoring well, aeria	al photos	, previous	s inspec	tions), if available:	
Remarks:								

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET - Midwest Region

Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024

Project/Site: WVPA Salem Bulk-Valley View Transmi	ission Line	City/Cour	nty: St. Gen	evieve	Sampling Date	e: <u>08/30/2</u>	.3
Applicant/Owner: Commonwealth Associates, Inc) <u> </u>		·	State: MO	Sampling Poin	t: S9	1
Investigator(s): SCI - Michael Holm, Justin Loos, Jaco	ob Travelstead	Section, T	ownship, Ra	nge: S23, T37N, R6E			
Landform (hillside, terrace, etc.): Swale			Local relief (c	concave, convex, none):	Concave		
Slope (%): 2-5 Lat: 37.883836		 Long:!	90.394508		Datum: WGS84		
Soil Map Unit Name: Gerald silt loam, 1 to 4 percent	slopes			NWI classi			
Are climatic / hydrologic conditions on the site typical	for this time c	of year?	Yes X	No (If no, ex	plain in Remarks.)	
Are Vegetation , Soil , or Hydrology				Circumstances" present?		, No	
Are Vegetation , Soil , or Hydrology	_			plain any answers in Re			
SUMMARY OF FINDINGS – Attach site m	_					atures, e	tc.
Hydric Soil Present? Yes X	NoX No NoX		Sampled Ar		. No <u>X</u>		
Remarks: Sample point 9 is located in an open field in the sout	thern section o	of the site.					
VEGETATION – Use scientific names of pl		Dominant	Indicator	1			
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:		
1		<u> </u>		Number of Dominant Are OBL, FACW, or I	•	1 (A	A)
3. 4.				Total Number of Dom Across All Strata:	ninant Species	`	, В)
5.		=Total Cover		Percent of Dominant Are OBL, FACW, or I	•		А/В)
Sapling/Shrub Stratum (Plot size: 15	_)						
1				Prevalence Index w			
2.				Total % Cover o		oly by:	
3.					0 x1= 5 x2=	10	
4 5.				· —	5 x 2 = 50 x 3 =	10 150	
j.		=Total Cover		· -	50 x 3 = 50 x 4 =	200	
Herb Stratum (Plot size: 5)		-10141 00.0.		·	0 x5=	0	
1. Andropogon virginicus	30	Yes	FACU	Column Totals: 10			В)
2. Vernonia gigantea	30	Yes	FAC	Prevalence Index		43	
3. Panicum virgatum	20	No	FAC				
4. Solidago canadensis	20	No	FACU	Hydrophytic Vegeta	tion Indicators:		
5. Cyperus esculentus	5	No	FACW		r Hydrophytic Veg	etation	
6				2 - Dominance T			
7				3 - Prevalence In			
8					l Adaptations¹ (Proks Residential (Proks		orting
9.					•	·	
Woody Vine Stratum (Plot size: 15	105	=Total Cover		Problematic Hydric s 1Indicators of hydric s be present, unless di		ydrology mu	′
1. (Plot size:15	-'			·	sturbed or probler	nauc.	
2.				Hydrophytic Vegetation			
-		=Total Cover		Present? Yes	No:	<u>x_</u>	
Remarks: (Include photo numbers here or on a sepa	arate sheet.)				<u> </u>		

Profile Des	cription: (Describe t Matrix	to the dept		ument tl x Featur		ator or c	confirm the absence o	of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-2	10YR 4/2	100					Loamy/Clayey				
2-20	10YR 5/1	95	10YR 5/8	5	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations			
				<u>_</u>	<u> </u>	<u>_</u>					
17			Deduced Metric A	40. 14			21 (*	DL Davidia M Matri			
Hydric Soil	Concentration, D=Depl	etion, RM=	Reduced Matrix, N	/IS=Mas	ked Sand	Grains		PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :			
Histosol			Sandy Gle	ved Mat	riv (S4)			t Prairie Redox (A16)			
	pipedon (A2)		Sandy Red	•				Manganese Masses (F12)			
	istic (A3)		Stripped M					Parent Material (F21)			
	en Sulfide (A4)		Dark Surfa	-	-,			Shallow Dark Surface (F22)			
	d Layers (A5)		Loamy Mu		eral (F1)		<u> </u>	(Explain in Remarks)			
	uck (A10)		Loamy Gle								
Deplete	d Below Dark Surface	(A11)	X Depleted N								
Thick Da	ark Surface (A12)		Redox Dar	k Surfac	e (F6)		³ Indicators	s of hydrophytic vegetation and			
Sandy N	Mucky Mineral (S1)		Depleted D	ark Sur	face (F7))	wetlar	nd hydrology must be present,			
5 cm Mu	ucky Peat or Peat (S3)	Redox Dep	pression	s (F8)		unless disturbed or problematic.				
Restrictive	Layer (if observed):										
Type:			_								
Depth (i	Depth (inches):						Hydric Soil Present	? Yes <u>X</u> No			
HYDROLO	DGY										
Wetland Hy	drology Indicators:										
	icators (minimum of o	ne is requir						y Indicators (minimum of two required			
	Water (A1)		Water-Stai					ce Soil Cracks (B6)			
	ater Table (A2)		Aquatic Fa	-				age Patterns (B10)			
Saturation	on (A3) Narks (B1)		True Aqua			`		eason Water Table (C2) ish Burrows (C8)			
	nt Deposits (B2)		Hydrogen : Oxidized R					ation Visible on Aerial Imagery (C9)			
	posits (B3)		Presence of			_	· · · —	ed or Stressed Plants (D1)			
	at or Crust (B4)		Recent Iro			` '		norphic Position (D2)			
	posits (B5)		Thin Muck				· · · —	Neutral Test (D5)			
	on Visible on Aerial Ir	nagery (B7			• •			,			
Sparsely	y Vegetated Concave	Surface (B	8) Other (Exp	lain in R	Remarks)						
Field Obser	rvations:										
Surface Wa	ter Present? Ye	s		Depth (i	· -						
Water Table		s		Depth (i							
Saturation F		s	No <u>X</u>	Depth (i	nches): _		Wetland Hydrolog	yy Present? Yes No _X			
	pillary fringe)										
Describe Re	ecorded Data (stream	gauge, mo	nitoring well, aeria	ı photos	, previou	s inspec	tions), if available:				
Remarks:											
i											

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

Project/Site: WVPA Salem Bulk-Valley View Transmission Line	City/Cοι	unty: St. Gen	evieve	Sampling D	ate: <u>08/3</u>	0/23
Applicant/Owner: Commonwealth Associates, Inc.			State: MO	 Sampling P	oint:	S10
Investigator(s): SCI - Michael Holm, Justin Loos, Jacob Travelstead	Section,	Township, Rai	nge: S23, T37N, R6	 BE		
Landform (hillside, terrace, etc.): Terrace		Local relief (c	oncave, convex, non-	e): Concave		
Slope (%): 0-2 Lat: 37.883664	Long:	-90,383881		Datum: WGS	84	
Soil Map Unit Name: Ramsey-Rock Outcrop complex, 8 to 50 perce	<u> </u>		NWI cla	ssification:	.	
Are climatic / hydrologic conditions on the site typical for this time of		Yes X	No (If no,		ko)	
	-					
Are Vegetation, Soil, or Hydrologysignificantly di			ircumstances" prese		. No	_
Are Vegetation, Soil, or Hydrologynaturally probl	lematic?	(If needed, ex	olain any answers in	Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing	g samplir	ng point lo	cations, transec	ts, important	features	s, etc.
Hydrophytic Vegetation Present? Yes No X	Is the	e Sampled Ar	ea			
Hydric Soil Present? Yes No X		in a Wetland?		No X		
Wetland Hydrology Present? Yes No _X					•	
Remarks:						
Sample point 10 is located in a forested tract near a perenial stream	n in the cent	ral section of t	he site.			
VEGETATION – Use scientific names of plants.						
Absolute Tree Stratum (Plot size: 30) % Cover	Dominant Species?	Indicator Status	Dominance Test	workshoot:		
Tree Stratum (Plot size: 30) % Cover 1. Ulmus americana 40	Species? Yes	FACW				
2. Acer saccharum 20	Yes	FACU	Number of Domina Are OBL, FACW, of	•	2	(A)
3.			Total Number of D			_(','
4.			Across All Strata:	ommant opecies	6	(B)
5.			Percent of Domina	int Species That		- ` ′
60 =	Total Cover		Are OBL, FACW,	•	33.3%	(A/B)
Sapling/Shrub Stratum (Plot size: 15)						
1. Acer saccharum 20	Yes	<u>FACU</u>	Prevalence Index	worksheet:		
2. Ulmus americana 10	Yes	FACW	Total % Cove	r of: M	ultiply by:	_
3			OBL species	0 x 1 =	0	_
4			FACW species	50 x 2 =	100	_
5			FAC species	0 x 3 =	0	_
	Total Cover		FACU species	60 x 4 =	240	_
Herb Stratum (Plot size: 5) 1. Parthenocissus quinquefolia 10	Yes	EACH	UPL species Column Totals:	0 x 5 =	340	— _(B)
1. Parthenocissus quinquefolia 10 2. Asarum canadense 10	Yes	FACU FACU	Prevalence Inde	``	3.09	_ ^(B)
3.	162	-FACO	Frevalence inde	=x - b/A	3.09	_
			Hydrophytic Vege	etation Indicator		
5				for Hydrophytic \		
6.			2 - Dominance	, , ,	-9	
7.			3 - Prevalence	Index is ≤3.0 ¹		
8.			4 - Morphologi	cal Adaptations ¹	(Provide su	pporting
9.			data in Rem	arks or on a sep	arate sheet)
10			Problematic H	ydrophytic Veget	ation¹ (Expl	ain)
=	Total Cover		¹ Indicators of hydri		, ,,	must
Woody Vine Stratum (Plot size: 15)			be present, unless	disturbed or prob	lematic.	
1.			Hydrophytic			
2			Vegetation			
	Total Cover		Present? Y	es No	Χ	

		to the depth				tor or o	confirm the absence	of indicators.)		
Depth	Matrix			x Featur	- 1					
(inches)	Color (moist)	<u> </u>	Color (moist)		Type '	Loc ²	Texture	Remarks		
0-2	10YR 3/2	100					Loamy/Clayey			
2-20	10YR 4/3	100					Loamy/Clayey			
	-									
1 _{Tymov} C=C			Paduaad Matrix I		——	Croins	21 pagtion	DI =Dara Lining M=Mat		
Hydric Soil I	oncentration, D=Dep	netion, Rivi-R	Reduced Matrix, I	vi5-ivias	keu Sanu	Grains		n: PL=Pore Lining, M=Matrix for Problematic Hydric		
Histosol			Sandy Gle	eved Mat	riy (S4)			st Prairie Redox (A16)	c dolls .	
	ipedon (A2)							Manganese Masses (F12))	
Histic Epipedon (A2) Black Histic (A3) Sandy Redox (S5) Stripped Matrix (S6)								Parent Material (F21)	,	
	n Sulfide (A4)		Dark Surfa		,			Shallow Dark Surface (F2	22)	
	Layers (A5)		Loamy Mu		eral (F1)			er (Explain in Remarks)	,	
2 cm Mu			Loamy Gl	•				(Explain in Nomano)		
	Below Dark Surfac	e (A11)	Depleted	-						
	rk Surface (A12)	• (, , , , ,	Redox Da	`	,		³ Indicator	rs of hydrophytic vegetation	on and	
_	ucky Mineral (S1)		Depleted		, ,			and hydrology must be pre		
	cky Peat or Peat (S	Redox De					ss disturbed or problemati			
Restrictive I	_ayer (if observed)	<u> </u>		-				<u> </u>		
Type:	, (,									
Depth (in	ches):		_				Hydric Soil Presen	t? Yes	No X	
Remarks:						!				
HYDROLO	GY									
Wetland Hyd	drology Indicators:									
_	ators (minimum of		d; check all that	apply)			Seconda	ry Indicators (minimum of	two required)	
	Water (A1)	•	Water-Sta		ves (B9)		Surfa	ace Soil Cracks (B6)	<u> </u>	
High Wa	ter Table (A2)		Aquatic Fa	auna (B1	3)		Drainage Patterns (B10)			
Saturatio	n (A3)		True Aqua	atic Plant	s (B14)		Dry-9	Season Water Table (C2)		
Water Ma	arks (B1)		Hydrogen	Sulfide (Odor (C1)		Cray	fish Burrows (C8)		
Sedimen	t Deposits (B2)		Oxidized F	Rhizosph	eres on L	iving R	oots (C3) Satu	ration Visible on Aerial Im	agery (C9)	
Drift Dep	osits (B3)		Presence	of Reduc	ced Iron (C4)	Stun	ted or Stressed Plants (D	1)	
Algal Ma	t or Crust (B4)		Recent Iro	on Reduc	tion in Til	led Soil		morphic Position (D2)		
	osits (B5)		Thin Muck	s Surface	(C7)		FAC-	-Neutral Test (D5)		
	on Visible on Aerial I		Gauge or	Well Dat	a (D9)					
Sparsely	Vegetated Concave	e Surface (B8	S)Other (Ex	plain in R	temarks)					
Field Observ										
Surface Water		es	No <u>X</u>	Depth (i						
Water Table		es	No X		nches): _			= .=		
Saturation Pr		es	No <u>X</u>	Depth (i	nches): _		Wetland Hydrolo	gy Present? Yes	_ No_X_	
(includes cap			thanka	-1 la - 4 -						
Describe Red	corded Data (stream	ı gauge, mon	noring well, aeria	ai pnotos	, previous	ınspec	cuons), ir avallable:			
Remarks:										

Project/Site: WVPA Salem Bulk-Valley View Transm	ission Line	City/Cou	nty: St. Gene	evieve	Sa	mpling Dat	e: <u>09/1</u>	/23
Applicant/Owner: Commonwealth Associates, Inc).			State: M	IO Sa	mpling Poi	nt:	S11
Investigator(s): SCI - Michael Holm, Jacob Travelstea	ad	Section, T	ownship, Ran	ge: S23, T37N,	R6E			
Landform (hillside, terrace, etc.): Terrace			Local relief (co	oncave, convex, n	one): Conc	ave		
Slope (%): 0-2 Lat: 37.905791		 Long: -:	90.325287		Datu	m: WGS84		
Soil Map Unit Name: Lily loam, 8 to 15 percent slope	·s			NWI	 classificatio			
Are climatic / hydrologic conditions on the site typical		f vear?	Yes X	No (If r	no, explain i	n Romarks	.)	
Are Vegetation , Soil , or Hydrology		•		rcumstances" pre	·		No	
	_			olain any answers				_
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site n			•	•		•	eatures	. etc.
<i></i>	No X No X		Sampled Are			la V		
· —	No X	Withir	n a Wetland?	res_		10 <u>X</u>		
	<u> </u>	ļ						
Remarks: Sample point 11 is located in a forested tract in the	northern section	n of the site.						
VEGETATION – Use scientific names of p		Dameira and	In direction I					
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Te	st workshe	et:		
1. Quercus palustris	20	Yes	FACW	Number of Dom				
2. Quercus rubra	15	Yes	FACU	Are OBL, FACV		ios mai	3	(A)
3. Ulmus rubra	10	No	FAC	Total Number o	f Dominant	Species -		- ` ′
4. Juglans nigra	10	No	FACU	Across All Strat			7	_(B)
5.				Percent of Dom	inant Speci	es That		_
	55 :	=Total Cover		Are OBL, FACV	V, or FAC:	_	42.9%	_ (A/B)
Sapling/Shrub Stratum (Plot size: 15	_)							
1. <u>Ulmus rubra</u>	30	<u>Yes</u>	FAC	Prevalence Ind				
2. Juglans nigra	15	Yes Yes	FACU	Total % Co			iply by:	_
3. Lonicera tatarica	15	Yes No	FACU	OBL species	0	- x1=_	0	_
Tilia americana Juniperus virginiana		No No	FACU FACU	FACW species FAC species	20 50	- x2= x3=	40 150	_
5. Juniperus virginiaria		=Total Cover	-FACO	FACU species	70	- x3=-	280	-
Herb Stratum (Plot size: 5)		- Total Gover		UPL species	20	- ^ - x 5 =	100	_
1. Ribes uva-crispa	20	Yes	UPL	Column Totals:		- (A) -	570	– (B)
2. Verbena urticifolia	10	Yes	FAC	Prevalence I			3.56	_ `- ′
3.								_
4.				Hydrophytic Ve	egetation I	ndicators:		
5.				1 - Rapid To	est for Hydr	ophytic Ve	getation	
6.				2 - Domina	nce Test is	>50%		
7.				3 - Prevaler	nce Index is	≤3.0 ¹		
8				4 - Morphol				
9					emarks or			
10				Problemation	: Hydrophyt	ic Vegetati	on¹ (Expl	ain)
Woody Vine Stratum (Plot size: 15	30	=Total Cover		¹ Indicators of hy be present, unle				must
1.	- ′		ļ	•		1		
2.				Hydrophytic Vegetation				
		Total Cover		Present?	Yes	No_	X	
Remarks: (Include photo numbers here or on a sep	arate sheet)				-			
. , ,	· <i>,</i>							

	•	to the dept				itor or c	confirm the absence o	of indicators.)			
Depth	Matrix			x Featur		. 2					
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type¹	Loc ²	Texture	Remarks			
0-2	10YR 4/1	100					Sandy				
2-20	10YR 4/4	100					Loamy/Clayey	Sandy textur	е		
	_								_		
1- 0.0							21	DI D. III MANA			
	oncentration, D=Depl	etion, RM=I	Reduced Matrix,	MS=Mas	ked Sand	Grains		PL=Pore Lining, M=Mat s for Problematic Hydric			
Hydric Soil			Sandy Cl	aved Met	riv (CA)				; 30lls :		
— Histosol			Sandy Gle					t Prairie Redox (A16)			
Black His	ipedon (A2)		Sandy Re Stripped M					/langanese Masses (F12) Parent Material (F21)			
	n Sulfide (A4)		Dark Surf	-	3)			Shallow Dark Surface (F2	2)		
	Layers (A5)		Loamy Mi		oral (F1)			: (Explain in Remarks)	2)		
2 cm Mu	• , ,		Loamy Gl				Other	(Explain in Remarks)			
	□ (A10) □ Below Dark Surface	(A11)	Depleted	-							
	rk Surface (A12)	(/ (/ 1 /)	Redox Da	•	,		³ Indicators	s of hydrophytic vegetatio	n and		
	ucky Mineral (S1)		Depleted		` '			nd hydrology must be pre			
I — '	cky Peat or Peat (S3)	Redox De				unless disturbed or problematic.				
_	_ayer (if observed):	<u>, </u>		·	. ,			<u> </u>			
Type:	-ayer (ii observea).										
Depth (in	iches):		_				Hydric Soil Present	? Yes	No <u>X</u>		
Remarks:							,				
ixemaiks.											
HYDROLO	GY										
Wetland Hyd	drology Indicators:										
Primary Indic	cators (minimum of o	ne is require	ed; check all that	apply)			<u>Secondar</u>	y Indicators (minimum of	two required)		
Surface	Water (A1)		Water-Sta	ained Lea	aves (B9)			ce Soil Cracks (B6)			
	ter Table (A2)		Aquatic F					age Patterns (B10)			
Saturatio	n (A3)		True Aqua	atic Plant	ts (B14)		Dry-S	eason Water Table (C2)			
	arks (B1)		Hydrogen		` '			ish Burrows (C8)			
	t Deposits (B2)		Oxidized I			-		ation Visible on Aerial Ima			
	osits (B3)		Presence		,	,		ed or Stressed Plants (D1)		
	t or Crust (B4)		Recent Iro			lled Soil		norphic Position (D2)			
· -	osits (B5)	(5.7)	Thin Mucl		` '		FAC-	Neutral Test (D5)			
l —	on Visible on Aerial Ir	. ,									
	Vegetated Concave	Surface (Ba	8)Other (Ex	piain in F	kemarks)						
Field Obser			N V	D (1 ()							
Surface Wat			No X		nches): _						
Water Table		s	No X		nches): _		Madan dilbuduale	D 40 V	N - V		
Saturation P		s	No X	⊃eptn (I	nches):_		Wetland Hydrolog	y Present? Yes	No <u>X</u>		
(includes cap		aauaa mar	oitaring wall gari	al photos	provious	inonoo	tions) if available:				
Describe 460	corded Data (stream	yauye, 11101	moning well, aeni	ai piiotos	, previou:	э шэрес	alono), ii avallable.				
Remarks:											

Project/Site: WVPA Salem Bulk-Valley View Transmis	sion Line	City/Cou	nty: St. Gen	evieve	Sampling	Date: <u>09</u>	/6/23
Applicant/Owner: Commonwealth Associates, Inc.			_	State: MO	Sampling	Point:	S12
Investigator(s): SCI - Justin Loos, Jacob Travelstead		Section, T	ownship, Ra	nge: S23, T37N, F	16E		
Landform (hillside, terrace, etc.): Terrace			Local relief (c	concave, convex, no	ne): None		
Slope (%): 0-2 Lat: 37.886999			90.373966	,	Datum: WG	S84	
Soil Map Unit Name: Jonca silt loam, 3 to 8 percent sl	opes		20101 0000	NWI cl	assification:	-	
Are climatic / hydrologic conditions on the site typical f	•	f vear?	Yes X	No (If no		arke)	
• •		•		Circumstances" pres			
Are Vegetation, Soil, or Hydrology						_ No	_
Are Vegetation, Soil, or Hydrology				plain any answers ir			
SUMMARY OF FINDINGS – Attach site m	ap showir	ng samplin	g point lo	cations, transe	cts, importar	t feature	es, etc.
Hydrophytic Vegetation Present? Yes N	o X	Is the	Sampled A	ea			
Hydric Soil Present? Yes N	o <u>X</u>	withir	n a Wetlandî	Yes_	No <u>X</u>	_	
Wetland Hydrology Present? Yes N	o <u>X</u>						
Remarks:							
Sample point 12 is located in a forested tract in the co	entral section	of the site.					
NECETATION	1.						
VEGETATION – Use scientific names of pla	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test	worksheet:		
1. Quercus alba	20	Yes		Number of Domir	ant Species Tha	t	
2. Juniperus virginiana	20	Yes	FACU	Are OBL, FACW,	•	0	(A)
3. Carya glabra	15	Yes	FACU	Total Number of I	Dominant Specie	s	
4. Carya ovata	5	No	FACU	Across All Strata:	•	6	(B)
5				Percent of Domin	ant Species Tha	t	
	60 :	=Total Cover		Are OBL, FACW,	or FAC:	0.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15)						
1. Quercus alba	30	Yes	FACU	Prevalence Inde			
2. Rhus aromatica		Yes	UPL	Total % Cov		/lultiply by:	
3. Carya glabra		No No	FACU	OBL species	<u>0</u> x 1 :		
4. Quercus velutina	<u>5</u>	No No	UPL	FACW species	0 x2:		_
5. <u>Carya cordiformis</u>		No =Total Cover	FACU	FAC species FACU species	0 x 3 = 85 x 4 =		_
Herb Stratum (Plot size: 5)		- Total Cover		UPL species	30 x 5		_
1. Oryzopsis asperifolia	5	Yes	UPL	Column Totals:	115 (A)	490	— (B)
2.	<u> </u>			Prevalence Inc		4.26	 (
3.							_
4.				Hydrophytic Veg	etation Indicate	rs:	
5.				1 - Rapid Tes	t for Hydrophytic	Vegetation	1
6.			,		e Test is >50%		
7.				3 - Prevalenc	e I ndex is ≤3.0 ¹		
8.					gical Adaptations		
9				data in Re	marks or on a se	parate shee	et)
10				Problematic I	Hydrophytic Vege	etation¹ (Ex	plain)
	5	=Total Cover		¹ Indicators of hyd			gy must
Woody Vine Stratum (Plot size: 15)			be present, unles	s disturbed or pro	oblematic.	
1				Hydrophytic			
2		-Total O		Vegetation	/aa **	. v	
		=Total Cover		Present?	/esN	o_X_	
Remarks: (Include photo numbers here or on a sepa	rate sheet.)						

						tor or c	onfirm the absence o	of indicators.)
Depth	Matrix			ox Featur		. 2		
(inches)	Color (moist)		Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 5/3	100					Loamy/Clayey	
	_				<u> </u>			
				- —				
	oncentration, D=D	epletion, RM=I	Reduced Matrix,	MS=Mas	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil								s for Problematic Hydric Soils ³ :
— Histosol			Sandy Gl					t Prairie Redox (A16)
I —	pipedon (A2)		Sandy Re					Manganese Masses (F12)
Black Hi			Stripped I		•			Parent Material (F21)
I — · ·	n Sulfide (A4)		Dark Surf					Shallow Dark Surface (F22)
I —	l Layers (A5)		Loamy M				Other	(Explain in Remarks)
I —	ck (A10)		Loamy Gl	-				
I —	Below Dark Surfa	ice (A11)	Depleted	-	•		3.	
I —	rk Surface (A12)		Redox Da		• •			s of hydrophytic vegetation and
I —	lucky Mineral (S1)		Depleted					nd hydrology must be present,
5 cm Mu	cky Peat or Peat (S3)	Redox De	pression	ıs (F8)		unles	s disturbed or problematic.
Restrictive	Layer (if observed	d):						
Type:	Roo	:k						
Depth (ir	nches):	4					Hydric Soil Present	? Yes No <u>X</u>
Remarks:								
HYDROLC	OGY							
Wetland Hy	drology Indicator	s·						
-	cators (minimum o		ed: check all that	apply)			Secondar	y Indicators (minimum of two required)
	Water (A1)	r ono io roquir	Water-Sta		aves (B9)			ce Soil Cracks (B6)
	iter Table (A2)		Aquatic F		, ,			age Patterns (B10)
Saturation			True Aqu	•	•			season Water Table (C2)
I —	arks (B1)		Hydrogen)		ish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	neres on L	iving Ro	oots (C3) Satur	ation Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)		Presence	of Redu	ced Iron (C4)	Stunt	ed or Stressed Plants (D1)
Algal Ma	it or Crust (B4)		Recent Ire	on Reduc	ction in Ti	lled Soils	s (C6) Geom	norphic Position (D2)
Iron Dep	osits (B5)		Thin Muc	k Surface	e (C7)		FAC-	Neutral Test (D5)
Inundation	on Visible on Aeria	l Imagery (B7)	Gauge or	Well Dat	ta (D9)			
Sparsely	Vegetated Conca	ve Surface (B	8) Other (Ex	plain in F	Remarks)			
Field Obser	vations:							
Surface Wat	er Present?	Yes	No X	Depth (i	inches):			
Water Table	Present?	Yes	No X	Depth (i	inches): _			
Saturation P	resent?	Yes	No X	Depth (i	inches): _		Wetland Hydrolog	gy Present? Yes No X
(includes ca	oillary fringe)	_			_			
Describe Re	corded Data (strea	ım gauge, mor	nitoring well, aeri	al photos	, previous	s inspec	tions), if available:	
Remarks:								
Tromains.								

Project/Site: WVPA Salem Bulk-Valley View Transmis	ssion Line	City/Cou	nty: St. Gen	evieve	Sampling Date:	09/6/23
Applicant/Owner: Commonwealth Associates, Inc.				State: MO	Sampling Point	: S13
Investigator(s): SCI - Justin Loos, Jacob Travelstead		Section, T	ownship, Rai	nge: S23, T37N, R6E		
Landform (hillside, terrace, etc.): Hillslope		1	Local relief (c	oncave, convex, none):	Concave	
Slope (%): 0-2 Lat: 37.900631		Long: -	90.366077	•	Datum: WGS84	
Soil Map Unit Name: Jonca silt loam, 3 to 8 percent sl	opes			NWI classi		
Are climatic / hydrologic conditions on the site typical	for this time o	f vear?	Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation, Soil, or Hydrology				ircumstances" present?		No
Are Vegetation, Soil, or Hydrology				olain any answers in Re		
SUMMARY OF FINDINGS – Attach site m				•	,	atures, etc.
Hydrophytic Vegetation Present? Yes N	lo X	Is the	Sampled Ar	 ea		
	lo X		n a Wetland?		No_X_	
<u> </u>	lo X					
Remarks:		ļ				
Sample point 13 is located in an open grass field in the	he central sed	ction of the site	e.			
MEGETATION III : CC						
VEGETATION – Use scientific names of pla	Absolute	Dominant	Indicator			
<u>Tree Stratum</u> (Plot size: 30)	% Cover	Species?	Status	Dominance Test wo	rksheet:	
1				Number of Dominant	Species That	
2				Are OBL, FACW, or F		(A)
3				Total Number of Dom	inant Species	2 (D)
4 5.				Across All Strata:		3 (B)
J		=Total Cover		Percent of Dominant Are OBL, FACW, or F	•	33.3% (A/B)
Sapling/Shrub Stratum (Plot size: 15)					
1. Rosa multiflora	5	Yes	FACU	Prevalence Index wo	orksheet:	
2.				Total % Cover of	f: Multip	ıly by:
3				OBL species (0
4				FACW species 3		60
5				FAC species		0
Herb Stratum (Plot size: 5)	5	=Total Cover		FACU species 3 UPL species 4		120 225
1. Deschampsia cespitosa	40	Yes	UPL	Column Totals: 10		405 (B)
Panicum anceps	30	Yes	FACW	Prevalence Index		
3. Kummerowia striata	15	No	FACU			
4. Rhynchosida physocalyx	5	No	UPL	Hydrophytic Vegetat	ion Indicators:	
5. Ambrosia artemisiifolia	5	No	FACU	1 - Rapid Test for	Hydrophytic Vege	etation
6. Solanum carolinense	5	<u>No</u>	FACU	2 - Dominance Te		
7				3 - Prevalence Inc		
8.					Adaptations ¹ (Pro	
9					ks or on a separat	•
10	100	=Total Cover			ophytic Vegetation	
Woody Vine Stratum (Plot size: 15)	- i otal Covel		¹ Indicators of hydric s be present, unless dis	•	•
1.				Hydrophytic	, , , , , , , , , , , , , , , , , , , ,	
2.				Vegetation		
		Total Cover		Present? Yes	No _>	<u> </u>
Remarks: (Include photo numbers here or on a sepa	rate sheet.)					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 5/3	100					Loamy/Clayey	
								-
¹ Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, I	MS=Masl	ked Sand	l Grains.	² Location:	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicator	s for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coas	t Prairie Redox (A16)
Histic Ep	ipedon (A2)		Sandy Re				Iron-N	Manganese Masses (F12)
Black Hi			Stripped N		S)			Parent Material (F21)
	n Sulfide (A4)		Dark Surfa	-	,			Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu		eral (F1)			r (Explain in Remarks)
2 cm Mu			Loamy Gl					(Explain in Nemarks)
	l Below Dark Surface	· (A11)	Depleted	-				
		= (A11)		-			3Indianton	a of budroubutio vocatation and
	rk Surface (A12)		Redox Da					s of hydrophytic vegetation and
	ucky Mineral (S1)		Depleted					nd hydrology must be present,
5 cm Mu	cky Peat or Peat (S	3)	Redox De	pression	s (F8)		unles	s disturbed or problematic.
Restrictive I	_ayer (if observed):							
Type:	Compacted	l Soil						
Depth (ir	nches):	4					Hydric Soil Present	? Yes No_X
HYDROLC	GY							
Wetland Hy	drology Indicators:							
_	cators (minimum of o	ne is requi	red: check all that	annly)			Secondar	ry Indicators (minimum of two required)
	Water (A1)	nic is requi	Water-Sta		ves (R9)			ce Soil Cracks (B6)
	ter Table (A2)		Aquatic Fa		, ,			age Patterns (B10)
Saturatio			True Aqua	-				Season Water Table (C2)
	arks (B1)		Hydrogen		. ,			ish Burrows (C8)
	t Deposits (B2)		Oxidized F					ration Visible on Aerial Imagery (C9)
	osits (B3)		Presence			-		ed or Stressed Plants (D1)
					`	,		norphic Position (D2)
	t or Crust (B4) osits (B5)		Recent Iro			ileu Solis		Neutral Test (D5)
	` '	magam, /D7			• •		FAC-	Neutral Test (D3)
	on Visible on Aerial I		<i>'</i> —		` '			
	Vegetated Concave	Surrace (E	38) Other (Ex	Diain in R	emarks)			
Field Obser								
Surface Wat	er Present? Ye	es	No <u>X</u>		nches): _			
Water Table		es	No <u>X</u>		nches): _			
Saturation P	resent? Ye	es	No <u>X</u>	Depth (i	nches): _		Wetland Hydrolog	gy Present? Yes No _X_
(includes car	oillary fringe)							
Describe Re	corded Data (stream	gauge, mo	nitoring well, aeria	al photos	, previous	s inspect	ions), if available:	
Remarks:							<u> </u>	
				_		-		

Project/Site: WVPA Salem Bulk-Valley View Transm	ission Line	City/Cou	nty: St. Gene	evieve	Sa	mpling Dat	e: <u>09/6</u>	/23
Applicant/Owner: Commonwealth Associates, Inc	O .			State: M	O Sa	mpling Poir	nt:	S14
Investigator(s): SCI - Justin Loos, Jacob Travelstead		Section, T	ownship, Ran	ge: S23, T37N,	R6E			
Landform (hillside, terrace, etc.): Hillslope			Local relief (co	oncave, convex, n	one): None			
Slope (%): 10 Lat: 37.900926		Long: -	90.343751		Datu	m: WGS84	_	
Soil Map Unit Name: Ramsey-Rock outscrop comple	ex, 8 to 50 perce			NWI	 classification			
Are climatic / hydrologic conditions on the site typica			Yes X	No (If r	no explain	in Remarks	:)	
Are Vegetation, Soil, or Hydrology		•		rcumstances" pre	•		No	
	_							_
Are Vegetation, Soil, or Hydrology				lain any answers				
SUMMARY OF FINDINGS – Attach site r	nap snowin	g sampiin	g point iod	ations, trans	ecis, imp	ortant i	eatures	, etc.
	No X	Is the	Sampled Are	ea				
· ——	No <u>X</u>	withir	n a Wetland?	Yes_		No <u>X</u>		
Wetland Hydrology Present? Yes	No <u>X</u>							
Remarks:		.						
Sample point 14 is located in a forested tract in the	nortnern section	n of the site.						
VEGETATION – Use scientific names of p	lants.							
	Absolute	Dominant	Indicator					
<u>Tree Stratum</u> (Plot size:30)	% Cover	Species?	Status	Dominance Te	st worksh	eet:		
1. Juniperus virginiana	10	Yes	FACU	Number of Dom	•	ies That		
2. Quercus alba	10	Yes	FACU	Are OBL, FACV	V, or FAC:	_	0	_ (A)
3. Carya glabra	10	Yes	<u>FACU</u>	Total Number o		Species		
4. Quercus palustris	5	No	FACW_	Across All Strat		_	7	– ^(B)
5		Tatal Carra		Percent of Dom		ies That	0.00/	(A /D)
Sapling/Shrub Stratum (Plot size: 15	35 =	:Total Cover		Are OBL, FACV	v, or FAC:	_	0.0%	_ ^(A/B)
1. Quercus alba	_ ′ 	Yes	FACU	Prevalence Ind	av workst	noot:		
Quercus alba Quercus rubra	10	Yes	FACU	Total % Co			iply by:	
3. Juniperus virginiana	10	Yes	FACU	OBL species	0	x 1 =	0	_
4. Cunila origanoides	5	No	UPL	FACW species	5	- x2=	10	_
5.				FAC species	0	x 3 =	0	_
	45 =	Total Cover		FACU species	70	x 4 =	280	
Herb Stratum (Plot size: 5)				UPL species	10	x 5 =	50	
1. Deschampsia cespitosa	5	Yes	UPL	Column Totals:	85	_(A) _	340	_(B)
2	_			Prevalence I	ndex = B/A	\ = <u>4</u>	.00	_
3								
4				Hydrophytic Ve	_			
5				1 - Rapid Te			getation	
6.				2 - Dominar				
7.				3 - Prevaler				
8. 9.				4 - Morphol		on a separa		
10				Problematic				
10	 5 =	Total Cover		¹ Indicators of hy		-		,
Woody Vine Stratum (Plot size: 15)	. 5.61 55761		be present, unle				must
1.	- ′		ļ	Hydrophytic		,	-	
2.				Vegetation				
		Total Cover		Present?	Yes	_ No _	X	
Remarks: (Include photo numbers here or on a sep	parate sheet.)							
·	•							

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-2	10YR 5/3	100					Sandy			
			_							_
¹ Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, I	MS=Masl	ked Sand	l Grains.	² Location	: PL=Pore Lini	ng, M=Matrix	
Hydric Soil	Indicators:						Indicator	s for Problem	atic Hydric S	Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Coas	t Prairie Redox	(A16)	
Histic Ep	ipedon (A2)		Sandy Re				Iron-l	Manganese Ma	sses (F12)	
Black Hi			Stripped N		6)			Parent Material		
	n Sulfide (A4)		Dark Surfa	-	,			Shallow Dark S		
	Layers (A5)		Loamy Mu		eral (F1)			r (Explain in Re		
2 cm Mu			Loamy Gle	•				(Explain in re	markoj	
	l Below Dark Surface	. (A11)	Depleted I	-						
		(A11)		•	•		3Indiantor	a of budroobuti	o vocatation	and
	rk Surface (A12)		Redox Da					s of hydrophyti	-	
`	ucky Mineral (S1)		Depleted [, ,			nd hydrology m		ent,
5 cm Mu	cky Peat or Peat (S	3)	Redox De	pression	s (F8)		unles	s disturbed or	problematic.	
Restrictive	_ayer (if observed):									
Type:	Rock									
Depth (ir	nches):	2					Hydric Soil Present	t?	Yes	No X
HYDROLC	OGY									
-	drology Indicators:									
	cators (minimum of o	ne is requir						ry Indicators (m		o required)
	Water (A1)		Water-Sta		, ,			ice Soil Cracks		
	ter Table (A2)		Aquatic Fa	-				ıage Patterns (I		
Saturatio	. ,		True Aqua		. ,			Season Water 1	• •	
	arks (B1)		Hydrogen					fish Burrows (C		
	t Deposits (B2)		Oxidized F			_		ration Visible or	_	ery (C9)
Drift Dep	osits (B3)		Presence	of Reduc	ced Iron (C4)		ted or Stressed		
Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	tion in Ti	lled Soils	s (C6) Geon	norphic Positio	n (D2)	
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		FAC-	Neutral Test (D	05)	
Inundation	on Visible on Aerial I	magery (B7) Gauge or	Well Dat	a (D9)					
Sparsely	Vegetated Concave	Surface (E	88) Other (Exp	olain in R	Remarks)					
Field Obser	vations:									
Surface Wat	er Present? Ye	s	No X	Depth (i	nches):					
Water Table			No X		 nches): _					
Saturation P			No X	Depth (i			Wetland Hydrolog	av Present?	Yes	No X
(includes ca				(_			3 ,		
	corded Data (stream	gauge, mo	nitoring well, aeria	al photos	previous	s inspect	ions), if available:			
	- January Batta (ett batti			, priotoc	, p. 01.00.					
Remarks:										

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024

Project/Site: WVPA Salem Bulk-Valley View Transi	nission Line	City/Cou	inty: St. Gene	vieve	Samplii	ng Date:	09/6	/23
Applicant/Owner: Commonwealth Associates, In	nc.			State: MO	Samplir	ng Point:		S15
Investigator(s): SCI - Justin Loos, Jacob Travelstea	d	Section, 7	Γownship, Ran	ge: S23, T37N, R	6E			
Landform (hillside, terrace, etc.): Hillslope			Local relief (co	oncave, convex, nor	ne): None			
Slope (%): 2-5 Lat: 37.900926			90.343751	, , , , , , , , , , , , , , , , , , , ,	Datum: V	VGS84		
Soil Map Unit Name: Ramsey-Rock outscrop comp	lev 8 to 50 ner		30.040701	NWI di	assification:	1000+		
· <u> </u>		•			_			
Are climatic / hydrologic conditions on the site typic		-	Yes X	No (If no				
Are Vegetation, Soil, or Hydrology			Are "Normal Ci	rcumstances" prese	ent? Yes _	<u> </u>	10	_
Are Vegetation, Soil, or Hydrology	naturally pro	blematic? (If needed, exp	lain any answers in	Remarks.)			
SUMMARY OF FINDINGS – Attach site	map showi	ng samplin	g point loc	ations, transed	ts, import	ant fea	atures	, etc.
Lhadranhatia Vanatatian Dusanto Van	No. V	la 4h a	. Camandad And					
Hydrio Soil Propert? Yes	No X No X	l l	e Sampled Are n a Wetland?		No	~		
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No X	Within	ii a wedanu r	Yes	No_			
	<u> </u>							
Remarks: Sample Point 15 is located in a field in the souther	n section of the	e site						
Cample Folia To lo located in a nota in the country		, 01.0.						
VEGETATION – Use scientific names of	nlants							
VEGETATION 030 3010 million marries of	Absolute	Dominant	Indicator					
<u>Tree Stratum</u> (Plot size: 30)	% Cover	Species?	Status	Dominance Test	worksheet:			
1.				Number of Domin	ant Species T	hat		
2.				Are OBL, FACW,	•		0	(A)
3.				Total Number of D	Dominant Spe	cies		_
4.				Across All Strata:	·		1	_(B)
5.				Percent of Domin	ant Species T	hat		_
		=Total Cover		Are OBL, FACW,	or FAC:		0.0%	_(A/B)
Sapling/Shrub Stratum (Plot size: 15)		_					
1				Prevalence Index				
2				Total % Cove	er of:	Multipl	y by:	_
3				OBL species		1 =	0	_
4		·		FACW species		2 =	0	_
5				FAC species		3 =	60	_
Halt Otto Company (District Company)		=Total Cover		FACU species		4 =	260	_
Herb Stratum (Plot size: 5)	60	V	FACU	UPL species		5 =	50	- (D)
1. Festuca arundinacea	60	Yes	FACU FAC	Column Totals: Prevalence Ind	95 (A)	3.8	370	_ ^(B)
Setaria pumila Tridens flavus		No No	UPL	Frevalence ind	ex - b/A	3.0	9	-
4. Andropogon virginicus		No No	FACU	Hydrophytic Veg	etation Indic	atore:		
5. Eupatorium serotinum		No	FAC	1 - Rapid Tes			atation	
				2 - Dominanc		_	lation	
7				3 - Prevalence				
7. 8.				4 - Morpholog			vide su	pporting
0					narks or on a			
10.		· -		Problematic F	lydrophytic Ve	egetation	ı¹ (Expl	ain)
	95	=Total Cover		¹ Indicators of hydronical		Ū		,
Woody Vine Stratum (Plot size: 15)	-		be present, unless				mast
			-	· · · · · · · · · · · · · · · · · · ·		-		
	 ^		1	Hydrophytic				
	<u> </u>			Hydrophytic Vegetation				
1.	<u> </u>	=Total Cover		Vegetation	'es	No X		

Depth	Matrix		Redo	k Featur				
(inches)	Color (moist)	<u></u> %	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 5/4	100					Loamy/Clayey	
							·	
					-			
1								
	oncentration, D=Depl	etion, RM=	Reduced Matrix, N	1S=Masi	ked Sand	Grains.		Pore Lining, M=Matrix.
Hydric Soil			Condy Cla	ad Mat	riv (C4)			Problematic Hydric Soils ³ :
— Histosol	. ,		Sandy Gle		rix (54)			rie Redox (A16)
	oipedon (A2)		Sandy Red		:\			anese Masses (F12)
— Black His	` '		Stripped M Dark Surfa))			t Material (F21) ow Dark Surface (F22)
	n Sulfide (A4)			, ,	oral (E1)		 ·	lain in Remarks)
— 2 cm Mu	Layers (A5)		Loamy Mu- Loamy Gle				— Other (Exp	iain in Remarks)
	l Below Dark Surface	(Λ11)	Depleted N	-				
	ark Surface (A12)	(A11)	Redox Dar		•		³ Indicators of h	ydrophytic vegetation and
	lucky Mineral (S1)		Depleted D		` '			drology must be present,
	icky Peat or Peat (S3	١	Redox Dep		` '			urbed or problematic.
	Layer (if observed):				- ()		4,11,000 41,00	
Type:	Compacted	soil						
Depth (in	•	3	_				Hydric Soil Present?	Yes No X
Remarks:			_			Į.	Tryuno com riccom.	
HYDROLO								
-	drology Indicators:							
	cators (minimum of o	ne is requir			(DO)			cators (minimum of two require
	Water (A1)		Water-Stai					oil Cracks (B6)
— High wa Saturatio	iter Table (A2)		Aquatic Fa True Aqua					Patterns (B10) n Water Table (C2)
	arks (B1)						Div-Seaso	n water rable (G2)
vvalei ivi	aiks (DI)				1dor (C1)			
—— Sedimen	nt Denosits (R2)		<u> </u>		Odor (C1) eres on I		Crayfish B	urrows (C8)
	nt Deposits (B2)		Oxidized R	hizosph	eres on L	iving Ro	Crayfish Boots (C3) Saturation	urrows (C8) Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Oxidized R	hizosph of Reduc	eres on Leed Iron (iving Ro C4)	Crayfish Boots (C3) Saturation Stunted or	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Drift Dep Algal Ma	posits (B3) at or Crust (B4)		Oxidized R Presence of Recent Iron	hizosph of Reduc n Reduc	eres on L ced Iron (tion in Til	iving Ro C4)	Crayfish Boots (C3) Saturation Stunted or Geomorph	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Drift Dep Algal Ma Iron Dep	oosits (B3)	nagery (B7	Oxidized R Presence of Recent Iron Thin Muck	hizosph of Reduc n Reduc Surface	eres on Led Iron (tion in Tile (C7)	iving Ro C4)	Crayfish Boots (C3) Saturation Stunted or Geomorph	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Drift Dep Algal Ma Iron Dep Inundatio	posits (B3) at or Crust (B4) posits (B5)		Oxidized R Presence of Recent Iron Thin Muck Gauge or V	hizosphof Reduc of Reduc on Reduc Surface Vell Data	eres on Leed Iron (tion in Till (C7) a (D9)	iving Ro C4)	Crayfish Boots (C3) Saturation Stunted or Geomorph	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Drift Dep Algal Ma Iron Dep Inundatio	oosits (B3) It or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave		Oxidized R Presence of Recent Iron Thin Muck Gauge or \	hizosphof Reduc of Reduc on Reduc Surface Vell Data	eres on Leed Iron (tion in Till (C7) a (D9)	iving Ro C4)	Crayfish Boots (C3) Saturation Stunted or Geomorph	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Drift Dep Algal Ma Iron Dep Inundatio Sparsely	oosits (B3) It or Crust (B4) osits (B5) On Visible on Aerial In Vegetated Concave vations:	Surface (B	Oxidized R Presence of Recent Iron Thin Muck Gauge or V 8) Other (Exp	hizosphof Reduc of Reduc on Reduc Surface Vell Data	eres on Leed Iron (tion in Til (C7) a (D9) emarks)	iving Ro C4)	Crayfish Boots (C3) Saturation Stunted or Geomorph	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Drift Dep Algal Ma Iron Dep Inundatio Sparsely	posits (B3) at or Crust (B4) asits (B5) an Visible on Aerial In a Vegetated Concave ations: ar Present? Yes	Surface (B	Oxidized R Presence of Recent Iron Thin Muck Gauge or N Other (Exp	hizosphof Reducent Reducent Surface Well Data Jain in R Depth (in	eres on Leed Iron (tion in Til (C7) a (D9) demarks)	iving Ro C4)	Crayfish Boots (C3) Saturation Stunted or Geomorph	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat	posits (B3) at or Crust (B4) posits (B5) an Visible on Aerial In a Vegetated Concave vations: er Present? Yes Present? Yes	Surface (B	Oxidized R Presence of Recent Iron Thin Muck Gauge or N Other (Exp	hizosphof Reduct n Reduct Surface Vell Data Iain in R	eres on Leed Iron (tion in Til (C7) a (D9) demarks)	iving Ro C4)	Crayfish Boots (C3) Saturation Stunted or Geomorph	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation Policy	posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In a Vegetated Concave vations: er Present? Present? Yes poillary fringe)	Surface (B	Oxidized R Presence of Recent Iron Thin Muck Gauge or N Other (Exp	hizosph of Reduc on Reduc Surface Vell Dat lain in R Depth (in Depth (in	eres on Leed Iron (tion in Til (C7) a (D9) emarks) nches):nches):nches): _	iving Ro	Crayfish Boots (C3) Saturation Stunted or Geomorph FAC-Neutr Wetland Hydrology Pre	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation Policy	posits (B3) at or Crust (B4) posits (B5) an Visible on Aerial In a Vegetated Concave vations: er Present? Present? Yes resent? Yes	Surface (B	Oxidized R Presence of Recent Iron Thin Muck Gauge or N Other (Exp	hizosph of Reduc on Reduc Surface Vell Dat lain in R Depth (in Depth (in	eres on Leed Iron (tion in Til (C7) a (D9) emarks) nches):nches):nches): _	iving Ro	Crayfish Boots (C3) Saturation Stunted or Geomorph FAC-Neutr Wetland Hydrology Pre	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Rec	posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In a Vegetated Concave vations: er Present? Present? Yes poillary fringe)	Surface (B	Oxidized R Presence of Recent Iron Thin Muck Gauge or N Other (Exp	hizosph of Reduc on Reduc Surface Vell Dat lain in R Depth (in Depth (in	eres on Leed Iron (tion in Til (C7) a (D9) emarks) nches):nches):nches): _	iving Ro	Crayfish Boots (C3) Saturation Stunted or Geomorph FAC-Neutr Wetland Hydrology Pre	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation Policy	posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In a Vegetated Concave vations: er Present? Present? Yes poillary fringe)	Surface (B	Oxidized R Presence of Recent Iron Thin Muck Gauge or N Other (Exp	hizosph of Reduc on Reduc Surface Vell Dat lain in R Depth (in Depth (in	eres on Leed Iron (tion in Til (C7) a (D9) emarks) nches):nches):nches): _	iving Ro	Crayfish Boots (C3) Saturation Stunted or Geomorph FAC-Neutr Wetland Hydrology Pre	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Rec	posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In a Vegetated Concave vations: er Present? Present? Yes poillary fringe)	Surface (B	Oxidized R Presence of Recent Iron Thin Muck Gauge or N Other (Exp	hizosph of Reduc on Reduc Surface Vell Dat lain in R Depth (in Depth (in	eres on Leed Iron (tion in Til (C7) a (D9) emarks) nches):nches):nches): _	iving Ro	Crayfish Boots (C3) Saturation Stunted or Geomorph FAC-Neutr Wetland Hydrology Pre	urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024

Project/Site: WVPA Salem Bulk-Valley View Trans	smission Line	City/Cou	inty: St. Gene	vieve	_ Sampling Da	ate: <u>09/6</u>	/23
Applicant/Owner: Commonwealth Associates,	Inc.			State: MO	Sampling Po	oint:	S16
Investigator(s): SCI - Justin Loos, Jacob Travelste	ad	Section,	Township, Ran	ge: S23, T37N, R6E			
Landform (hillside, terrace, etc.): Hillslope			Local relief (co	oncave, convex, none):	None		
Slope (%): 2-5 Lat: 37.900926		Long:	-90.343751	,	Datum: WGS8	34	
Soil Map Unit Name: Ramsey-Rock outscrop com	plex. 8 to 50 per			NWI class			
Are climatic / hydrologic conditions on the site typi		•	Yes X	No (If no, ex		(e)	
		-		rcumstances" present			
Are Vegetation, Soil, or Hydrology						NO	-
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(If needed, exp	lain any answers in Re	emarks.)		
SUMMARY OF FINDINGS – Attach site	map showi	ng samplir	ng point loc	ations, transects	, important	features	, etc.
Hydrophytic Vegetation Present? Yes	No X	le the	e Sampled Are	22			
Hydric Soil Present? Yes	No X	I	in a Wetland?	Yes	No X		
Wetland Hydrology Present? Yes	No X	"""	in a rrodana.		<u>//</u>		
Remarks:							
Sample Point 16 is located in a field in the centra	I section of the s	ite.					
VEGETATION – Use scientific names of	plants.						
	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test wo	orksheet:		
1				Number of Dominant	•	_	(
2.				Are OBL, FACW, or	-	0	_ ^(A)
3. 4.				Total Number of Don Across All Strata:	ninant Species	2	(B)
<u> </u>					Consider That		_ ^(B)
J		=Total Cover		Percent of Dominant Are OBL, FACW, or	•	0.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15)			, , . , ,	-		_(' " - '
1.				Prevalence Index w	orksheet:		
2.				Total % Cover of	of: Mu	Itiply by:	
3.				OBL species	0 x 1 =	0	_
4				FACW species	0 x 2 =	0	_
5				· —	5 x 3 =	15	_
(5)		=Total Cover		· —	70 x 4 = _	280	_
Herb Stratum (Plot size: 5)	40	Vaa	FACIL	· —	$\frac{0}{75}$ $\times 5 = -$	0	- _(B)
Andropogon virginicus Festuca arundinacea	40	Yes Yes	FACU FACU	Column Totals:	`	295 3.93	_ ^(B)
Setaria pumila		No	FAC	i revalence index	- b/A -	3.33	-
4.	<u> </u>			Hydrophytic Vegeta	tion Indicators		
5.				1 - Rapid Test fo			
6.	_			2 - Dominance T			
7.				3 - Prevalence In	ndex is ≤3.0¹		
8.				4 - Morphologica			
9					ks or on a sepa		•
10				Problematic Hyd	rophytic Vegeta	ition ¹ (Expl	ain)
	75	=Total Cover		¹ Indicators of hydric			must
					aturbad ar prob	lematic.	
Woody Vine Stratum (Plot size: 15)		-	be present, unless di	sturbed or probl		
1.)			Hydrophytic	sturbed or prob		
		=Total Cover					

	•	to the depth				itor or c	confirm the absence o	of indicators.)	
Depth (inches)	Matrix Color (moist)	0/.		x Feature		Loc ²	Toyturo	Damarka	
(inches)	Color (moist)	<u>%</u> _	Color (moist)		Type ¹	LUC	Texture	Remarks	
0-2	10YR 5/4	100					Loamy/Clayey		
									_
1Type: C=C	oncentration, D=Depl	etion RM=R	Peduced Matrix N	 leeM=2N	ed Sanc	 I Grains	² Location:	PL=Pore Lining, M=Mat	riv
Hydric Soil		otion, raivi	teadoca Matrix, II	no masi	tea Garie	- Oranio		s for Problematic Hydric	
Histosol			Sandy Gle	yed Matr	ix (S4)			Prairie Redox (A16)	
Histic Ep	ipedon (A2)		Sandy Red	-	, ,			Manganese Masses (F12))
Black Hi			Stripped M		i)			Parent Material (F21)	
	n Sulfide (A4)		Dark Surfa		•			Shallow Dark Surface (F2	22)
	Layers (A5)		Loamy Mu		eral (F1)		Other	(Explain in Remarks)	
2 cm Mu			Loamy Gle				_	,	
Depleted	Below Dark Surface	(A11)	Depleted N	//atrix (F	3)				
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	e (F6)		³ Indicators	s of hydrophytic vegetation	n and
Sandy M	ucky Mineral (S1)		Depleted [Dark Surf	ace (F7)		wetlar	nd hydrology must be pre	sent,
5 cm Mu	cky Peat or Peat (S3)	Redox Dep	oressions	s (F8)		unless	s disturbed or problemati	c .
Restrictive	_ayer (if observed):								
Type:	Compacted	soil							
Depth (ir	nches):	2					Hydric Soil Present	? Yes	No X
Remarks:	<u> </u>							<u> </u>	
HYDROLO	GY								
Wetland Hy	drology Indicators:								
Primary India	cators (minimum of o	ne is require	d; check all that	apply)			Secondar	y Indicators (minimum of	two required)
Surface	Water (A1)		Water-Sta	ined Lea	ves (B9)		Surfac	ce Soil Cracks (B6)	
High Wa	ter Table (A2)		Aquatic Fa	iuna (B1	3)		Draina	age Patterns (B10)	
Saturatio	on (A3)		True Aqua	tic Plants	s (B14)		Dry-S	eason Water Table (C2)	
Water M	arks (B1)		Hydrogen	Sulfide C	Odor (C1))		sh Burrows (C8)	
	t Deposits (B2)		Oxidized F			_	` ' —	ation Visible on Aerial Ima	
	osits (B3)		Presence		,			ed or Stressed Plants (D	1)
	t or Crust (B4)		Recent Iro			lled Soil	` ' —	norphic Position (D2)	
	osits (B5)	(5-1)	Thin Muck		` '		FAC-1	Neutral Test (D5)	
	on Visible on Aerial Ir		Gauge or \						
	Vegetated Concave	Surface (B8	Other (Exp	lain in R	emarks)				
Field Obser									
Surface Wat		s			nches):_				
Water Table		s			nches): _		Wetlered Header	W Dressento VIII	Na V
Saturation P		s	NoX	Depth (II	nches): _		Wetland Hydrolog	y Present? Yes	NoX
(includes cap	oillary fringe) corded Data (stream	aguae men	itoring well assis	l photos	provious	n inenee	tions) if available:		
Describe Re	corded Data (Stream	yauye, mon	noming well, aeria	i priotos,	previous	ь шърес	uons), ii avallable.		
Remarks:									

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET - Midwest Region

Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a) See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024

Project/Site: WVPA	Salem Bulk-Va	alley View	Transmiss	ion Line	City/Co	ounty: St. Gene	evieve	Sa	impling Da	ite: <u>09/</u> 6	6/23
Applicant/Owner:	Commonwea	ılth Associa	ates, Inc.				State:	MO Sa	mpling Po	int:	S17
Investigator(s): SCI	- Justin Loos, J	lacob Trav	elstead		Section,	, Township, Rar	nge: S23, T37N	N, R6E			
Landform (hillside, t	errace, etc.): T	errace				Local relief (co	oncave, convex,	none): Conv	/ex		
Slope (%): 2-5					Lona:	- -90.343751			ım: WGS8	4	
Soil Map Unit Name			complex.	8 to 50 per			NW	 'I classification			
Are climatic / hydrol						Yes X	No (It			·c)	
	_				-		ircumstances" p				
Are Vegetation										No	
Are Vegetation	_ , Soil ,	or Hydrolo	gyn	aturally pro	blematic?	(If needed, exp	olain any answer	s in Remark	s.)		
SUMMARY OF	FINDINGS -	Attach	site ma	ıp showii	ng sampli	ing point lo	cations, tran	sects, im _l	oortant 1	features	s, etc.
Hydrophytic Vegeta	ation Procent?	Voc	No	X	le th	he Sampled Ar	00				
Hydric Soil Present		Yes		$\frac{\lambda}{X}$		nin a Wetland?		s	No X		
Wetland Hydrology		Yes		$\frac{\lambda}{X}$	""	mi a wedana.	100		<u> </u>		
Remarks:					ļ						
Sample Point 17 is	located in a fie	eld in the c	entral sect	ion of the s	te.						
·											
VEGETATION -	- Use scienti	ific name	es of plar	nts.							
				Absolute	Dominant	Indicator					
Tree Stratum	(Plot size: _	30)	% Cover	Species?	Status	Dominance T	est worksh	eet:		
1							Number of Do	•	ies That		
							Are OBL, FAC	CW, or FAC:	_	0	(A)
3.							Total Number		Species	_	(-)
							Across All Stra		-	2	— ^(B)
5					-Total Caus		Percent of Do	•	ies That	0.00/	(A/D)
Capling/Chrub Ctra	tum (Dlo	ot cizo:	15)		=Total Cove	er	Are OBL, FAC	W, or FAC:	-	0.0%	— ^(A/B)
Sapling/Shrub Stra	•	ot size:				-	Prevalence Ir	dov workel	noot:		
1. 2.							Total % (Itiply by:	
3.							OBL species	0	x 1 =	0	
4.							FACW specie	s 0	- x2=	0	
5.			_				FAC species	5	x 3 =	15	
					=Total Cove	er	FACU species	45	x 4 =	180	
Herb Stratum	(Plot size:	5)				UPL species	10	_ x5=	50	_
1. Andropogon vir	ginicus			20	Yes	<u>FACU</u>	Column Totals	s:60	_(A)	245	(B)
2. Festuca arundi				15	Yes	FACU	Prevalence	Index = B/A	\ =	4.08	
3. Symphyotrichui	m pilosum			10	No	FACU_					
4. Tridens flavus				10	No	UPL_	Hydrophytic \	-			
5. Setaria pumila				5	No	_ <u>FAC</u>		Test for Hyd		egetation	
								ance Test is			
0			<u> </u>					ence Index is ological Ada		Orovido ou	ınnartina
0								Remarks or			
10.								tic Hydrophy			•
10				60	=Total Cove	 er	¹ Indicators of		-		,
Woody Vine Stratu	m (Plo	ot size:	15)		10101 0010		be present, ur				y musi
	<u></u> (, ,,					•	Hydrophytic		1		
1.							Hydrophydd				
1. 2.							Vegetation				
					=Total Cove	 er	Vegetation Present?	Yes	No	X	

Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-2	10YR 6/3	100					Loamy/Clay	<u></u>		
			_							
1							2.			
	ncentration, D=Dep	etion, RM=	=Reduced Matrix, I	MS=Masi	ked Sand	Grains.			re Lining, M=Matri	•
Hydric Soil Ir Histosol (A			Condy Cla	wad Mate	riv (C4)		Ind		blematic Hydric	Solls :
`	pedon (A2)		Sandy Gle	•	• •			Coast Prairie F	se Masses (F12)	
Black Hist			Stripped N					Red Parent Ma		
	Sulfide (A4)		Dark Surfa	· · · · · · · · · · · · · · · · · · ·))		_	_	Dark Surface (F22	1
	Layers (A5)		Loamy Mu	• •	eral (F1)			Other (Explain	•	,
2 cm Muc			Loamy Gle						iii i tomanto,	
	Below Dark Surface	(A11)	Depleted I							
	k Surface (A12)	()	Redox Da	•			³ Inc	dicators of hydro	ophytic vegetation	and
	ıcky Mineral (S1)		Depleted I					-	logy must be pres	
5 cm Muc	ky Peat or Peat (S3)	Redox De	pressions	s (F8)				ed or problematic.	
Restrictive La	ayer (if observed):									
	Rock									
Type:	INUCK									
Type: Depth (inc		2	<u> </u>				Hydric Soil P	resent?	Yes	No X
_		2	_				Hydric Soil P	resent?	Yes	No <u></u>
Depth (inc Remarks:	GY	2					Hydric Soil P	resent?	Yes	No X
Depth (inc Remarks: HYDROLOG Wetland Hyd	GY rology Indicators:		irodi oboek all that	onniu)						
Depth (inc Remarks: HYDROLOG Wetland Hyd Primary Indica	GY rology Indicators: ators (minimum of o				was (RQ)			condary Indicate	ors (minimum of t	
Depth (inc Remarks: HYDROLOG Wetland Hyd Primary Indica Surface W	GY rology Indicators: ators (minimum of o		Water-Sta	ined Lea				condary Indicate Surface Soil C	ors (minimum of toracks (B6)	
Depth (inc Remarks: HYDROLOG Wetland Hyd Primary Indica Surface W High Wate	GY rology Indicators: ators (minimum of ovater (A1) er Table (A2)		Water-Sta Aquatic Fa	ined Lea auna (B1	3)			condary Indicate Surface Soil C Drainage Patte	ors (minimum of toracks (B6) erns (B10)	
Depth (inc Remarks: HYDROLOG Wetland Hyd Primary Indica Surface W	GY rology Indicators: ators (minimum of o		Water-Sta Aquatic Fa True Aqua	ined Lea auna (B1 atic Plant	3) s (B14)			condary Indicate Surface Soil C Drainage Patte	ors (minimum of to racks (B6) erns (B10) /ater Table (C2)	
Depth (incomplete in the complete in the compl	GY rology Indicators: ators (minimum of o		Water-Sta Aquatic Fa	ined Lea auna (B1 atic Plant Sulfide C	3) s (B14) Odor (C1)		<u>Sec</u>	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro	ors (minimum of to racks (B6) erns (B10) /ater Table (C2)	wo require
Depth (incomplete in the complete in the compl	GY rology Indicators: ators (minimum of or Vater (A1) er Table (A2) in (A3) irks (B1) Deposits (B2)		Water-Sta Aquatic Fa True Aqua Hydrogen	ined Lea auna (B1 atic Plant Sulfide C Rhizosph	3) s (B14) Odor (C1) eres on L	iving Ro	<u>Sec</u>	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis	ors (minimum of to racks (B6) erns (B10) fater Table (C2) ws (C8)	wo require
Depth (incomplete in the complete in the compl	GY rology Indicators: ators (minimum of or Vater (A1) er Table (A2) in (A3) irks (B1) Deposits (B2)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 atic Plants Sulfide C Rhizosph of Reduc	3) s (B14) Odor (C1) eres on l ced Iron (iving Ro	oots (C3)	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis	ors (minimum of to racks (B6) erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagessed Plants (D1)	wo require
Depth (incomplete in the complete in the compl	rology Indicators: ators (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	ined Lea auna (B1 atic Plants Sulfide C Rhizosph of Reduc in Reduc	3) s (B14) Odor (C1) eres on L ced Iron (iving Ro	oots (C3)	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis Stunted or Stre	ors (minimum of toracks (B6) erns (B10) terns (Table (C2) ws (C8) ible on Aerial Imagessed Plants (D1) osition (D2)	wo require
Depth (incomplete in the complete in the compl	rology Indicators: ators (minimum of orvater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) posits (B3) or Crust (B4) esits (B5) n Visible on Aerial In	ne is requi	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or	ined Lea auna (B1 sulfide C Rhizosph of Reduc on Reduc Surface	3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti	iving Ro	oots (C3)	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis Stunted or Stru Geomorphic P	ors (minimum of toracks (B6) erns (B10) terns (Table (C2) ws (C8) ible on Aerial Imagessed Plants (D1) osition (D2)	wo require
Depth (incomplete in the complete in the compl	rology Indicators: ators (minimum of orvater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) posits (B3) or Crust (B4) esits (B5)	ne is requi	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or	ined Lea auna (B1 sulfide C Rhizosph of Reduc on Reduc Surface Well Data	3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7) a (D9)	iving Ro	oots (C3)	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis Stunted or Stru Geomorphic P	ors (minimum of toracks (B6) erns (B10) terns (Table (C2) ws (C8) ible on Aerial Imagessed Plants (D1) osition (D2)	wo require
Depth (incomplete in the complete in the compl	rology Indicators: ators (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aerial Invegetated Concave ations:	ne is requi	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Gauge or Hydrogen Oxidized F	ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Data	3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti c (C7) a (D9) demarks)	iving Ro	oots (C3)	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis Stunted or Stru Geomorphic P	ors (minimum of toracks (B6) erns (B10) terns (Table (C2) ws (C8) ible on Aerial Imagessed Plants (D1) osition (D2)	wo require
Depth (incomplete in the content of	rology Indicators: ators (minimum of orvater (A1) er Table (A2) in (A3) irks (B1) Deposits (B2) irsits (B3) or Crust (B4) isits (B5) in Visible on Aerial Invegetated Concave ations: ir Present?	ne is requi magery (B ⁷ Surface (B	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp	ined Lea auna (B1 sulfide C Rhizosphof Reduct on Reduct Surface Well Data Dlain in R	3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7) a (D9) temarks)	iving Ro	oots (C3)	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis Stunted or Stru Geomorphic P	ors (minimum of toracks (B6) erns (B10) terns (Table (C2) ws (C8) ible on Aerial Imagessed Plants (D1) osition (D2)	wo require
Depth (incomplete in the content of	rology Indicators: ators (minimum of orvater (A1) er Table (A2) in (A3) inks (B1) Deposits (B2) in Vesits (B3) or Crust (B4) insits (B5) in Visible on Aerial Invegetated Concave ations: in Present? Yee	ne is requi magery (Bi Surface (B	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp No X No X	ined Lea auna (B1 sulfide C Rhizosphof Reduction Reduction Surface Well Datablain in R	3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7) a (D9) temarks) nches): _ nches): _	iving Ro	Seconds (C3)	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis Stunted or Stre Geomorphic P FAC-Neutral T	ors (minimum of to Fracks (B6) erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagessed Plants (D1) /osition (D2) fest (D5)	wo require
Depth (incomplete in the content of	rology Indicators: ators (minimum of or Vater (A1) er Table (A2) in (A3) inks (B1) Deposits (B2) insits (B3) or Crust (B4) insits (B5) in Visible on Aerial Invegetated Concave ations: ir Present? Ye gresent? Ye gresent?	ne is requi magery (Bi Surface (B	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or Other (Exp No X No X	ined Lea auna (B1 sulfide C Rhizosphof Reduct on Reduct Surface Well Data Dlain in R	3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7) a (D9) temarks) nches): _ nches): _	iving Ro	Seconds (C3)	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis Stunted or Stru Geomorphic P	ors (minimum of to Fracks (B6) erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagessed Plants (D1) /osition (D2) fest (D5)	wo require
Depth (inc Remarks: HYDROLOG Wetland Hyd Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of orvater (A1) er Table (A2) n (A3) nrks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aerial Invegetated Concave ations: or Present? Present? Ye esent? Ye esent? Ye esent?	ne is requi magery (B7 Surface (B s s	Water-Sta	ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	3) s (B14) Ddor (C1) eres on L ced Iron (tition in Ti (C7) a (D9) demarks) nches): _nches): _	Living Ro	oots (C3)	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis Stunted or Stre Geomorphic P FAC-Neutral T	ors (minimum of to Fracks (B6) erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagessed Plants (D1) /osition (D2) fest (D5)	wo require
Depth (inc Remarks: HYDROLOG Wetland Hyd Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of or Vater (A1) er Table (A2) in (A3) inks (B1) Deposits (B2) insits (B3) or Crust (B4) insits (B5) in Visible on Aerial Invegetated Concave ations: ir Present? Ye gresent? Ye gresent?	ne is requi magery (B7 Surface (B s s	Water-Sta	ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	3) s (B14) Ddor (C1) eres on L ced Iron (tition in Ti (C7) a (D9) demarks) nches): _nches): _	Living Ro	oots (C3)	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis Stunted or Stre Geomorphic P FAC-Neutral T	ors (minimum of to Fracks (B6) erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagessed Plants (D1) /osition (D2) fest (D5)	wo require
Depth (inc Remarks: HYDROLOG Wetland Hyd Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of orvater (A1) er Table (A2) n (A3) nrks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aerial Invegetated Concave ations: or Present? Present? Ye esent? Ye esent? Ye esent?	ne is requi magery (B7 Surface (B s s	Water-Sta	ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	3) s (B14) Ddor (C1) eres on L ced Iron (tition in Ti (C7) a (D9) demarks) nches): _nches): _	Living Ro	oots (C3)	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis Stunted or Stre Geomorphic P FAC-Neutral T	ors (minimum of to Fracks (B6) erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagessed Plants (D1) /osition (D2) fest (D5)	wo require
Depth (incomplete in the content of	rology Indicators: ators (minimum of orvater (A1) er Table (A2) n (A3) nrks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aerial Invegetated Concave ations: or Present? Present? Ye esent? Ye esent? Ye esent?	ne is requi magery (B7 Surface (B s s	Water-Sta	ined Lea auna (B1 tic Plant Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	3) s (B14) Ddor (C1) eres on L ced Iron (tition in Ti (C7) a (D9) demarks) nches): _nches): _	Living Ro	oots (C3)	condary Indicate Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis Stunted or Stre Geomorphic P FAC-Neutral T	ors (minimum of to Fracks (B6) erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagessed Plants (D1) /osition (D2) fest (D5)	wo require

Project/Site: WVPA Salem Bulk-Valley View Transmiss	ion Line	City/Cou	nty: St. Gen	evieve	Sampling Date:	10/17/23
Applicant/Owner: Commonwealth Associates, Inc.				State: MO	Sampling Point:	S18
Investigator(s): SCI - Justin Loos, Jacob Travelstead		Section, T	ownship, Ra	nge: N/A		
Landform (hillside, terrace, etc.): Hillslope			Local relief (c	concave, convex, none):	Concave	
Slope (%): 2-5 Lat: 37.879555		Long: -	90.403753		Datum: WGS84	
Soil Map Unit Name: Caneyville silt loam, 8 to 15 percel	nt slopes			NWI classi	fication:	
Are climatic / hydrologic conditions on the site typical fo	r this time o	f year?	Yes X	No (If no, ex	plain in Remarks.)	
Are Vegetation , Soil , or Hydrology si		-		Circumstances" present?		٧o
Are Vegetation, Soil, or Hydrologyn				plain any answers in Re		
SUMMARY OF FINDINGS – Attach site ma				-		atures, etc.
Hydrophytic Vegetation Present? Yes X No		Is the	Sampled A	rea		
	Х		n a Wetland		No_X_	
	Χ				· <u></u>	
Remarks:						
Sample Point 18 is located in a field in the central sect	on of the si	te within a pro	posed acces	s raod corridor.		
VEGETATION – Use scientific names of plar	nts.					
	Absolute	Dominant	Indicator			
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test wo		
2.				Number of Dominant Are OBL, FACW, or I	•	1 (A)
3.				Total Number of Dom		(` ')
4.				Across All Strata:		1 (B)
5				Percent of Dominant	Species That	
	-	=Total Cover		Are OBL, FACW, or I	FAC: 1	00.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15)				Prevalence Index w	- w/c o b o o t :	
1				Total % Cover o		lv hv
3.					$\frac{1}{x} = \frac{1}{x} = \frac{1}{x}$	0
4.				FACW species	x 2 =	0
5.				FAC species 8	5 x 3 =	255
		=Total Cover		· —	x 4 =	0
Herb Stratum (Plot size: 5)	C.F.	V	E40	· -	5 x 5 =	75(D)
Poa pratensis Setaria pumila	65 15	Yes No	FAC FAC	Column Totals: 10 Prevalence Index		330 (B)
3. Tridens flavus	10	No	UPL	r revalence macx	<i>Bir</i> (0.0	
4. Tridens flavus	5	No	UPL	Hydrophytic Vegeta	tion Indicators:	
5. Eupatorium serotinum	5	No	FAC	1 - Rapid Test fo	r Hydrophytic Vege	etation
6				X 2 - Dominance T		
7				3 - Prevalence In		
8				· — · · ·	l Adaptations ¹ (Pro ks or on a separate	
9					ophytic Vegetation	,
10	100	=Total Cover		¹ Indicators of hydric s		, , ,
Woody Vine Stratum (Plot size: 15)				be present, unless di		
1				Hydrophytic		
2				Vegetation		
	-	=Total Cover		Present? Yes	XNo	_
Remarks: (Include photo numbers here or on a separa	ite sheet.)					

						tor or c	onfirm the absence o	of indicators.)
Depth	Matrix			ox Featur				
(inches)	Color (moist)		Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 5/4	100					Loamy/Clayey	
l								
								•
l ———								
l 	-							
	oncentration, D=D	epletion, RM=F	Reduced Matrix,	MS=Mas	ked Sand	Grains		: PL=Pore Lining, M=Matrix.
Hydric Soil								s for Problematic Hydric Soils ³ :
— Histosol			Sandy Glo					t Prairie Redox (A16)
I —	oipedon (A2)		Sandy Re					Manganese Masses (F12)
Black Hi			Stripped I		3)			Parent Material (F21)
1 	n Sulfide (A4)		— Dark Surf		1.7=41		<u> </u>	Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mi	•			Other	(Explain in Remarks)
	ick (A10)	(0.44)	Loamy Gl	-				
	d Below Dark Surfa	ice (A11)	Depleted	-	-		31	
_	ark Surface (A12)		— Redox Da		, ,			s of hydrophytic vegetation and
I —	lucky Mineral (S1)	C2\	Depleted			1		nd hydrology must be present,
	icky Peat or Peat (•	Redox De	epression	S (F0)		unies	s disturbed or problematic.
	Layer (if observe	-						
Type:	Compac							
Depth (ir	nches):	3					Hydric Soil Present	? Yes No _X
Remarks:								
HYDROLC	GY							
Wetland Hy	drology Indicator	 s:						
	cators (minimum o		ed; check all that	apply)			Secondar	y Indicators (minimum of two required)
	Water (A1)	•	Water-Sta		aves (B9)			ce Soil Cracks (B6)
High Wa	iter Table (A2)		Aquatic F	auna (B1	3)		 Drain	age Patterns (B10)
Saturation	on (A3)		True Aqua	atic Plant	s (B14)		Dry-S	Season Water Table (C2)
Water M	arks (B1)		Hydrogen	Sulfide	Odor (C1))	Crayf	ish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on L	iving R	oots (C3) Satur	ation Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Redu	ced Iron (C4)	Stunt	ed or Stressed Plants (D1)
Algal Ma	it or Crust (B4)		Recent Ire	on Reduc	ction in Ti	lled Soil	s (C6) Geon	norphic Position (D2)
Iron Dep	osits (B5)		Thin Mucl	k Surface	e (C7)		FAC-	Neutral Test (D5)
Inundation	on Visible on Aeria	l Imagery (B7)	Gauge or	Well Dat	ta (D9)			
Sparsely	Vegetated Conca	ve Surface (B	B)Other (Ex	plain in F	Remarks)			
Field Obser	vations:							
Surface Wat	er Present?	Yes	No <u>X</u>	Depth (i	_			
Water Table	Present?	Yes	No <u>X</u>		nches): _			
Saturation P		Yes	No <u>X</u>	Depth (i	nches): _		Wetland Hydrolog	gy Present? Yes No _X_
(includes ca								
Describe Re	corded Data (strea	ım gauge, mor	nitoring well, aeria	al photos	, previous	s inspec	tions), if available:	
Remarks:								

Project/Site: WVPA Salem Bulk-Valley View Transmiss	ion Line	City/Cou	nty: St. Gene	evieve	Sampling Date:	10/17/23
Applicant/Owner: Commonwealth Associates, Inc.				State: MO	Sampling Point:	S19
Investigator(s): SCI - Justin Loos, Jacob Travelstead		Section, T	ownship, Rar	ige: S21, T37N, R6E		
Landform (hillside, terrace, etc.): Hillslope			Local relief (c	oncave, convex, none):	Concave	
Slope (%): 2-5 Lat: 37.897469		Long: -	90.368235		Datum: WGS84	
Soil Map Unit Name: Lily loam, 8 to 15 percent slopes				NWI classi	fication:	
Are climatic / hydrologic conditions on the site typical fo	r this time o	f year?	Yes X	No (If no, ex	plain in Remarks.)	
Are Vegetation , Soil , or Hydrology s		-		ircumstances" present?		٧o
Are Vegetation, Soil, or Hydrologyn				blain any answers in Re		
SUMMARY OF FINDINGS – Attach site ma			•	•	,	atures, etc.
Hydrophytic Vegetation Present? Yes No	Х	Is the	Sampled Ar	ea		
	X		n a Wetland?		No X	
	X					
Remarks:		•				
Sample Point 19 is located in a field in the central sect	ion of the si	te within a pro	posed access	s road corridor.		
VEGETATION – Use scientific names of plan	 nts.					
·	Absolute	Dominant	Indicator			
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test wo		
1 2.				Number of Dominant Are OBL, FACW, or F	•	0 (A)
3.				Total Number of Dom		(\(\tau\)
4.				Across All Strata:	illiant Species	2 (B)
5.				Percent of Dominant	Species That	
		Total Cover		Are OBL, FACW, or F	FAC:	0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15)						
1				Prevalence Index we Total % Cover of		ly by
3					$\frac{f:}{2} \frac{\text{Multipl}}{\text{x 1 = }}$	0
4.					x 2 =	0
5.					5 x 3 =	15
		=Total Cover		FACU species 7	0 x 4 =	280
Herb Stratum (Plot size: 5)				· —	x 5 =	0
1. Andropogon virginicus	40	Yes	FACU	Column Totals: 7		295 (B)
Festuca arundinacea Setaria pumila	30 5	Yes No	FACU FAC	Prevalence Index	= B/A = <u>3.9</u>	13
4.			<u> </u>	Hydrophytic Vegeta	 tion Indicators:	
5.					r Hydrophytic Vege	etation
6.				2 - Dominance Te		
7.				3 - Prevalence In	dex is $\leq 3.0^1$	
8					Adaptations ¹ (Pro	
9					ks or on a separate	•
10	75	=Total Cover			ophytic Vegetation	, , ,
Woody Vine Stratum (Plot size: 15)		- Total Cover		¹ Indicators of hydric s be present, unless dis		
1				Hydrophytic		
2				Vegetation		
		=Total Cover		Present? Yes	No X	<u> </u>
Remarks: (Include photo numbers here or on a separa	ate sheet.)					

Profile Description: (Describe to the de Depth Matrix		x Featur			ommin the absence t	or maioatoroly
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
	Color (moist)		туре			Remarks
0-2 10YR 5/4 100					Loamy/Clayey	
1T C-Consentuation D-Doubtion DA	4—Dadwaad Matrice I				21	DI - Dava Lining M-Matrix
¹ Type: C=Concentration, D=Depletion, RN Hydric Soil Indicators:	i-Reduced Matrix, r	vi5–ivias	keu Sand	drains.		: PL=Pore Lining, M=Matrix. 's for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gle	wad Mat	riv (S1)			t Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Re					Manganese Masses (F12)
Black Histic (A3)	Stripped N					Parent Material (F21)
Hydrogen Sulfide (A4)	Dark Surfa		<i>,</i>			Shallow Dark Surface (F22)
Stratified Layers (A5)	Loamy Mu	, ,	eral (F1)			r (Explain in Remarks)
2 cm Muck (A10)	Loamy Gle	-				
Depleted Below Dark Surface (A11)	Depleted I	=				
Thick Dark Surface (A12)	Redox Da	•	•		³ Indicator	s of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted I		` ')		nd hydrology must be present,
5 cm Mucky Peat or Peat (S3)	Redox De		, ,			s disturbed or problematic.
Restrictive Layer (if observed):						
Type: Compacted soil						
Depth (inches): 2					Hydric Soil Present	? Yes No X
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:						
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ						y Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requess.) Surface Water (A1)	Water-Sta	ined Lea			Surfa	ce Soil Cracks (B6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested	Water-Sta Aquatic Fa	ined Lea auna (B1	3)		Surfa Surfa Drain	ce Soil Cracks (B6) age Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested	Water-Sta Aquatic Fa True Aqua	ined Lea auna (B1 atic Plant	3) s (B14)		Surfa Drain Dry-S	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested.) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Sta Aquatic Fa True Aqua Hydrogen	ined Lea auna (B1 atic Plant Sulfide (3) s (B14) Odor (C1)	Surfa Drain Dry-S Crayf	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) iish Burrows (C8)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 atic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1 eres on I) _iving Ro	Surfa Drain Dry-S Crayf pots (C3)Satur	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested as a surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1 eres on I ced Iron () _iving Ro (C4)	Surfa Drain Dry-S Crayf pots (C3)Satur Stunt	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1 eres on I ced Iron () _iving Ro (C4)	Surfa Drain Dry-S Crayf oots (C3)Satur Stunt s (C6)Geon	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested 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)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc Surface	3) s (B14) Odor (C1 eres on I ced Iron (ction in Ti) _iving Ro (C4)	Surfa Drain Dry-S Crayf oots (C3)Satur Stunt s (C6)Geon	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested) 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) Inundation Visible on Aerial Imagery (B	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 37) Gauge or	ined Lea auna (B1 Sulfide (Rhizosph of Reduc on Reduc Surface Well Dat	3) s (B14) Odor (C1 eres on I ced Iron (ction in Ti e (C7) a (D9)) _iving Rc (C4) Iled Soils	Surfa Drain Dry-S Crayf oots (C3)Satur Stunt s (C6)Geon	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested) 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) Inundation Visible on Aerial Imagery (Base) Sparsely Vegetated Concave Surface	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 37) Gauge or	ined Lea auna (B1 Sulfide (Rhizosph of Reduc on Reduc Surface Well Dat	3) s (B14) Odor (C1 eres on I ced Iron (ction in Ti e (C7) a (D9)) _iving Rc (C4) Iled Soils	Surfa Drain Dry-S Crayf oots (C3)Satur Stunt s (C6)Geon	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested and seed of the content of the c	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 37) Gauge or (B8) Other (Exp	ined Lea auna (B1 sulfide (Rhizosph of Reduc on Reduc s Surface Well Dat blain in F	3) s (B14) Odor (C1 eres on I ced Iron (ction in Ti e (C7) a (D9) Remarks)) _iving Rc (C4) Iled Soils	Surfa Drain Dry-S Crayf oots (C3)Satur Stunt s (C6)Geon	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested 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) Inundation Visible on Aerial Imagery (Esparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 37) Gauge or (B8) Other (Exp	ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc surface Well Dat blain in F	3) s (B14) Ddor (C1 eres on I ced Iron (tition in Ti c (C7) a (D9) Remarks)) Living Rc (C4) Iled Soils	Surfa Drain Dry-S Crayf oots (C3)Satur Stunt s (C6)Geon	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested 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) Inundation Visible on Aerial Imagery (Based Sparsely Vegetated Concave Surface) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 37) Gauge or (B8) Other (Exp	ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc surface Well Dat blain in F	3) s (B14) Ddor (C1 eres on I ced Iron (ction in Ti e (C7) a (D9) Remarks) nches):nches):) Living Rc (C4) Iled Soils	Surfa Drain Dry-S Crayf sots (C3) Satur Stunt S (C6) FAC-	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) Sish Burrows (C8) Station Visible on Aerial Imagery (C9) sed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested 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) Inundation Visible on Aerial Imagery (Based of Sparsely Vegetated Concave Surface of Surface Water Present? Water Table Present?	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 37) Gauge or Other (Exp No X No X No X	ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc on Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Ddor (C1 eres on I ced Iron (tition in Ti (C7) a (D9) Remarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Surfa Drain Dry-S Oots (C3) Satur Stunt S (C6) FAC- Wetland Hydrolog	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) Sish Burrows (C8) Station Visible on Aerial Imagery (C9) sed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested 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) Inundation Visible on Aerial Imagery (E) Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 37) Gauge or Other (Exp No X No X No X	ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc on Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Ddor (C1 eres on I ced Iron (tition in Ti (C7) a (D9) Remarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Surfa Drain Dry-S Oots (C3) Satur Stunt S (C6) FAC- Wetland Hydrolog	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) Sish Burrows (C8) Station Visible on Aerial Imagery (C9) sed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested and service 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) Inundation Visible on Aerial Imagery (Esparsely Vegetated Concave Surface) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, manual contents)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 37) Gauge or Other (Exp No X No X No X	ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc on Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Ddor (C1 eres on I ced Iron (tition in Ti (C7) a (D9) Remarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Surfa Drain Dry-S Oots (C3) Satur Stunt S (C6) FAC- Wetland Hydrolog	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) Sish Burrows (C8) Station Visible on Aerial Imagery (C9) sed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
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Project/Site: WVPA Salem Bulk-Valley View Tr	ansmission Line	City/Cou	nty: St. Gen	evieve	Sampling Date	10/1	7/23
Applicant/Owner: Commonwealth Associate	es, Inc.			State:MO	Sampling Point	:;	S20
Investigator(s): SCI - Justin Loos, Jacob Travels	stead	Section, T	ownship, Rar	nge: S22, T37N, R6E			
Landform (hillside, terrace, etc.): Terrace			Local relief (c	oncave, convex, none):	Convex		
Slope (%):0-2 Lat: _37.899377		Long: -	90.352238		Datum: WGS84		
Soil Map Unit Name: Lily loam, 8 to 15 percent	slopes			NWI classi	fication:		
Are climatic / hydrologic conditions on the site t	ypical for this time o	f year?	Yes X	No (If no, ex	olain in Remarks.)		
Are Vegetation , Soil , or Hydrology		-		ircumstances" present?		No	
Are Vegetation, Soil, or Hydrology				olain any answers in Re			_
SUMMARY OF FINDINGS – Attach s						atures	, etc.
Hydrophytic Vegetation Present? Yes	No X	Is the	Sampled Ar	ea			
Hydric Soil Present? Yes			n a Wetland?		No X		
Wetland Hydrology Present? Yes							
Remarks:							
Sample Point 20 is located in a grass field in a	n existing transmisi	on line corrido	r in the northe	ern portion of the site.			
VEGETATION – Use scientific names	of plants.						
Tree Stratum (Plot size: 30	Absolute) % Cover	Dominant Species?	Indicator	Dominance Test wo	rkahaat:		
1. (Flot size	.) <u> </u>	Species?	Status	Number of Dominant			
2.				Are OBL, FACW, or F	•	0	(A)
3.				Total Number of Dom			_ ` `
4.				Across All Strata:	· <u> </u>	2	_(B)
5				Percent of Dominant	•		
Conline /Charle Stratum /Diet size 1		=Total Cover		Are OBL, FACW, or F	AC:	0.0%	_ (A/B)
Sapling/Shrub Stratum (Plot size: 1	5)			Prevalence Index we	orkeheet:		
2.				Total % Cover of		ılv bv:	
3.					x 1 =	0	_
4.				FACW species () x 2 =	0	_
5.				FAC species	x 3 =	15	_
		=Total Cover		· -	5 x 4 =	180	_
Herb Stratum (Plot size: 5	.)			· —	0 x 5 =	50	-
1. Andropogon virginicus		Yes	FACU	Column Totals: 6		245	_ (B)
Festuca arundinacea Symphyotrichum pilosum	<u>15</u> 10	Yes No	FACU FACU	Prevalence Index	= B/A =4.0	08	_
4. Tridens flavus	10	No	UPL	Hydrophytic Vegetat	ion Indicators:		
5. Setaria pumila	5	No	FAC	1 - Rapid Test for		etation	
				2 - Dominance Te		otation	
7.				3 - Prevalence In			
8.				4 - Morphological		vide su	porting
9.				data in Remark	ks or on a separat	e sheet)	
10				Problematic Hydr	ophytic Vegetatio	n¹ (Expla	ain)
Woody Vine Stratum (Plot size: 1	5)	=Total Cover		¹ Indicators of hydric s be present, unless dis			must
1				•	ACTION OF PRODUCT	idilo.	
2.				Hydrophytic Vegetation			
		=Total Cover		Present? Yes	No _>	(
Remarks: (Include photo numbers here or on	a separate sheet)					_	
, , , , , , , , , , , , , , , , , , , ,	,						

	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 6/3	100					Loamy/Clayey	
							·	
1							2	
	oncentration, D=Deple	etion, RM=R	Reduced Matrix, N	MS=Masi	ked Sand	Grains.		L=Pore Lining, M=Matrix.
Hydric Soil I			Condy Cla	und Mate	div (CA)			or Problematic Hydric Soils ³ :
— Histosol	` '		Sandy Gle	•	TX (54)			airie Redox (A16)
Black His	oipedon (A2)		Sandy Red Stripped M		:\			ganese Masses (F12) ent Material (F21)
	n Sulfide (A4)		Dark Surfa	-	"			allow Dark Surface (F22)
	I Layers (A5)		Loamy Mu	, ,	oral (E1)			xplain in Remarks)
2 cm Mu			Loamy Gle				Other (L	xpiain in itemarks)
	Below Dark Surface	(A11)	Depleted I					
	rk Surface (A12)	(/ (1)	Redox Dai				³ Indicators of	hydrophytic vegetation and
	lucky Mineral (S1)		Depleted [hydrology must be present,
<u> </u>	cky Peat or Peat (S3))	Redox De		, ,			isturbed or problematic.
	Layer (if observed):		_ 	'				<u> </u>
Type:	Rock							
Depth (in		2	_				Hydric Soil Present?	Yes No X
Remarks:			_			<u> </u>		
HYDROLO								
-	drology Indicators:		1 1 1 1 1 1 0 1				0	
Primary India	drology Indicators: cators (minimum of on	ne is require			(D0)			adicators (minimum of two require
Primary Indic	drology Indicators: cators (minimum of or Water (A1)	ne is require	Water-Sta	ined Lea			Surface	Soil Cracks (B6)
Primary Indic	drology Indicators: cators (minimum of or Water (A1) ter Table (A2)	ne is require	Water-Sta Aquatic Fa	ined Lea auna (B1	3)		Surface Drainage	Soil Cracks (B6) Patterns (B10)
Primary Indic Surface \ High Wa Saturation	drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3)	ne is require	Water-Sta Aquatic Fa True Aqua	ined Lea auna (B1 itic Plant	3) s (B14)		Surface Drainage Dry-Seas	Soil Cracks (B6) Patterns (B10) son Water Table (C2)
Primary Indic Surface \(\) High Wa Saturatio Water M	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3) arks (B1)	ne is require	Water-Sta Aquatic Fa True Aqua Hydrogen	ined Lea auna (B1 itic Planti Sulfide C	3) s (B14) Odor (C1)		Surface Drainage Dry-Sease Crayfish	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
Primary Indic Surface \(\) High Wa Saturatio Water Mater Mater Sedimen	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3) arks (B1) it Deposits (B2)	ne is require	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 itic Plant Sulfide C Rhizosph	3) s (B14) Odor (C1) eres on L	iving Ro	Surface Drainage Dry-Seas Crayfish Saturatio	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9)
Primary Indic Surface \(^1\) High Wa Saturatio Water M. Sedimen Drift Dep	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3)	ne is require	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	ined Lea auna (B1 tic Plant: Sulfide C Rhizosph of Reduc	3) s (B14) Odor (C1) eres on l ced Iron (iving Ro	Surface Drainage Dry-Seas Crayfish Dots (C3) Saturation	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8)
Primary Indic Surface \(^1\) High Wa Saturatio Water M. Sedimen Drift Dep Algal Ma	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3) arks (B1) it Deposits (B2)	ne is require	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 itic Plants Sulfide C Rhizosph of Reduc in Reduc	3) s (B14) Odor (C1) eres on Led Iron (tion in Ti	iving Ro	Surface Drainage Dry-Seas Crayfish Saturation Stunted S (C6) Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1)
Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) arks (B1) to Deposits (B2) oosits (B3) t or Crust (B4)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	ined Lea auna (B1 sulfide C Rhizosph of Reduc n Reduc Surface	3) s (B14) Odor (C1) eres on Leed Iron (tion in Ti	iving Ro	Surface Drainage Dry-Seas Crayfish Saturation Stunted S (C6) Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)
Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of on Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) cosits (B3) ot or Crust (B4) osits (B5)	nagery (B7)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or	ined Lea auna (B1 sulfide C Rhizosph of Reduc in Reduc Surface Well Data	3) s (B14) Odor (C1) eres on L ted Iron (tion in Ti (C7) a (D9)	iving Ro	Surface Drainage Dry-Seas Crayfish Saturation Stunted S (C6) Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)
Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio	drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial Im v Vegetated Concave S	nagery (B7)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or	ined Lea auna (B1 sulfide C Rhizosph of Reduc in Reduc Surface Well Data	3) s (B14) Odor (C1) eres on L ted Iron (tion in Ti (C7) a (D9)	iving Ro	Surface Drainage Dry-Seas Crayfish Saturation Stunted S (C6) Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)
Primary Indic Surface N High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely	drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial Im r Vegetated Concave S vations:	nagery (B7) Surface (B8	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V Other (Exp	ined Lea auna (B1 sulfide C Rhizosph of Reduc in Reduc Surface Well Data	3) s (B14) Odor (C1) eres on L eed Iron (tion in Ti (C7) a (D9) emarks)	iving Ro	Surface Drainage Dry-Seas Crayfish Saturation Stunted S (C6) Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2)
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