

# Final Environmental Impact Statement

*Horse Heaven Wind Farm*

Chapter 6 - References

October 2023

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## 6.0 CHAPTER 6 – REFERENCES

Note: Electronic sources were consulted on the access dates provided; web addresses and web-based information are subject to change.

### 6.1 Executive Summary

Alberta Government. 2013. Bat Mitigation Framework for Wind Power Development. Accessed July 25, 2023.

<https://open.alberta.ca/dataset/d9a3220a-d750-4fc3-ab40-654069b03f13/resource/90f1c3a3-2aee-4765-8aa1-96c03f134cc6/download/2013-wildlifeguidelines-batmitigationframework-jun19-2013.pdf>

BLM (Bureau of Land Management). 2013. Best Management Practices for Reducing Visual Impacts of Renewable Energy Facilities on BLM-Administered Lands. BLM Wyoming State Office, Cheyenne. Accessed February 8, 2022. [https://blmwyomingvisual.anl.gov/docs/BLM\\_RenewableEnergyVisualBMPs\\_LowRes.pdf](https://blmwyomingvisual.anl.gov/docs/BLM_RenewableEnergyVisualBMPs_LowRes.pdf).

CESA (Clean Energy States Alliance). 2011. A Visual Impact Assessment Process for Wind Energy Projects. Accessed February 8, 2022. <https://www.cesa.org/assets/2011-Files/States-Advancing-Wind-2/CESA-Visual-Impacts-Methodology-May2011.pdf>.

CEQ (Council on Environmental Quality). 2005. Guidance on the Consideration of Past Actions in Cumulative Effects Analysis. Accessed October 1, 2021. [https://www.energy.gov/sites/default/files/nepapub/nepa\\_documents/RedDont/G-CEQ-PastActsCumulEffects.pdf](https://www.energy.gov/sites/default/files/nepapub/nepa_documents/RedDont/G-CEQ-PastActsCumulEffects.pdf).

CTUIR (Confederated Tribes of the Umatilla Indian Reservation). 2021a. Personal communication (letter) to the Washington Energy Facility Site Evaluation Council. April 9, 2021.

CTUIR (Confederated Tribes of the Umatilla Indian Reservation). 2021b. Traditional Use Study of the Horse Heaven Wind Farm Project, Benton County, Washington. Executive Summary.

Ecology (Washington State Department of Ecology). 2019. Stormwater Management Manual for Eastern Washington. Publication Number 18-10-044. August 2019. Accessed January 19, 2022. [https://fortress.wa.gov/ecy/ezshare/wq/Permits/Flare/2019SWMMEW/Content/Resources/DocsForDownload/2019SWMMEW\\_8-13-19.pdf](https://fortress.wa.gov/ecy/ezshare/wq/Permits/Flare/2019SWMMEW/Content/Resources/DocsForDownload/2019SWMMEW_8-13-19.pdf)

GAL (Golder Associates Ltd.). 2022. Wind Turbine Wildlife Collision Risk Assessment Horse Heaven Wind Farm. Submitted to Horse Heaven Wind Farm, LLC. April 2022.

Hayes, G. and J. Wiles. 2013. Washington bat conservation plan. Washington Department of Fish and Wildlife, Olympia, Washington. 138+viii pp.

Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.

House Bill: Reducing light pollution associated with certain energy infrastructure. HB 1173. Washington State. (2023)

- Friedenberg, N. A. and W. F. Frick. 2021. Assessing fatality minimization for hoary bats amid continued wind energy development. *Biological Conservation* 262.
- Larsen, E. M., editor. 1997. *Management Recommendations for Washington's Priority Species, Volume III: Amphibians and Reptiles*. Washington Department of Fish and Wildlife. Olympia, Washington.
- Larsen, E. M., J. M. Azerrad, and N. Nordstrom, editors. 2004. *Management Recommendations for Washington's Priority Species, Volume IV: Birds*. Washington Department of Fish and Wildlife, Olympia, Washington.
- SWCA (SWCA Environmental Consultants). 2023. Updated Horse Heaven Wind Farm Project Visual Impact Assessment Report. July 2023.
- WDFW (Washington Department of Fish and Wildlife). 2009. *Wind Power Guidelines*. Olympia, Washington.
- WDFW (Washington Department of Fish and Wildlife). 2018. Washington Department of Fish and Wildlife Times when Spawning and Incubating Salmonoids are least likely to be within Washington State Freshwaters. June 1, 2018. Accessed January 19, 2022. [https://wdfw.wa.gov/sites/default/files/2019-02/freshwater\\_incubation\\_avoidance\\_times.pdf](https://wdfw.wa.gov/sites/default/files/2019-02/freshwater_incubation_avoidance_times.pdf).
- WHCWG (Washington Wildlife Habitat Connectivity Working Group). 2013. Columbia Plateau Ecoregion Connectivity Analysis Addendum: Habitat Connectivity Centrality, Pinch-points, and Barriers/Restoration Analyses. Washington's Department of Fish and Wildlife, and Department of Transportation, Olympia, Washington.

## **6.2 Chapter 1 – Project Background and Purpose and Need**

- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

## **6.3 Chapter 2 – Proposed Action and Alternatives**

- Benton County. 2022. 2017 Benton County Comprehensive Plan, Adopted February 13, 2018, Updated April 2022. Accessed May 31, 2022. <https://www.co.benton.wa.us/pview.aspx?id=1425&catid=0>.
- Horse Heaven Wind Farm, LLC. 2021. Response from Tetra Tech to Data Request No.4; DEIS-1 submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.
- Larsen, E., J. M. Azerrad, and N. Nordstrom, editors. 2004. *Management recommendations for Washington's priority species, Volume IV: Birds*. Washington Department of Fish and Wildlife, Olympia, Washington, USA.

- Scout Clean Energy. 2023. Memo from Michael Rucker, Scout Clean Energy Re: Horse Heaven Wind Project - Project Update Responding to Adjudication Concerns submitted to Sonia Bumpus, Washington Energy Facility Site Evaluation Council. September 26, 2023.
- USDA (U.S. Department of Agriculture). Not dated. Conservation Reserve Program. Accessed August 8, 2023. <https://www.fsa.usda.gov/programs-and-services/conservation-programs/conservation-reserve-program/index>.
- USFWS (U.S. Fish and Wildlife Service). 2012. Land-Based Wind Energy Guidelines. Accessed June 9, 2022. <https://www.fws.gov/sites/default/files/documents/land-based-wind-energy-guidelines.pdf>.
- USFWS (U.S. Fish and Wildlife Service). 2013. Eagle Conservation Plan Guidance Module 1 – Land-based Wind Energy Version 2. Accessed June 9, 2022. <https://www.fws.gov/guidance/guidance/sites/guidance/files/documents/eagleconservationplanguidance.pdf>.
- USFWS (U.S. Fish and Wildlife Service). 2016. Eagle Permits; Revisions to Regulations for Eagle Incidental Take and Take of Eagle Nests. Accessed June 9, 2022. <https://www.federalregister.gov/documents/2016/12/16/2016-29908/eagle-permits-revisions-to-regulations-for-eagle-incident-take-and-take-of-eagle-nests>.
- WDFW (Washington Department of Fish and Wildlife). 2009. Wind Power Guidelines. Olympia, Washington. Washington Department of Fish and Wildlife Wind Power Guidelines. <https://wdfw.wa.gov/publications/00294>.

## 6.4 Chapter 3 – Affected Environment

### Section 3.2 – Earth Resources

- Atwater, B. F., A. R. Nelson, J. J. Clague, G. A. Carver, T. Bobrowsky, J. Bourgeois, M. E. Darienzo, W. C. Grant, E. Hemphill-Haley, H. M. Kelsey, G. C. Jacoby, S. P. Nishenko, S. P., Palmer, C. D. Peterson, M. A. Reinhart, and D.K. Yamaguchi. 1995. Summary of Coastal Geologic Evidence for Past Great Earthquakes at the Cascadia Subduction Zone. *Earthquake Spectra* 11:1–18.
- Atwater, B. F., M. R. Satoko, S. Kenji, T. Yoshinobu, U. Kazue, and D. K. Yamaguchi. 2005. The Orphan Tsunami of 1700: Japanese Clues to a Parent Earthquake in North America. USGS Professional Paper 1707.
- Benton County. 2019. Benton County, Washington Natural Hazard Mitigation Plan 2019 Revision. Accessed December 13, 2021. <https://www.ci.benton-city.wa.us/files/documents/document1641113110081619.pdf>.
- Benton County. Not dated. Online Zoning Map - Liquefaction. Accessed November 24, 2021. <https://www.co.benton.wa.us/pview.aspx?id=1701&catid=0>.
- Brocher, T. M., R. E. Wells, A. P. Lamb, and C. S. Weaver. 2017. Evidence for Distributed Clockwise Rotation of the Crust in the Northwestern United States from Fault Geometries and Focal Mechanisms. *Tectonics* 36(5):787–818.
- Cascadia Department of Bioregion. Not dated. The Cascadia Subduction Zone. Accessed August 2, 2023. <https://cascadiabioregion.org/cascadia-subduction-zone>
- Clague, J. J., P. T. Bobrowsky, and I. Hutchinson. 2000. A Review of Geological Records for Large Tsunamis at Vancouver Island, British Columbia and Implications for Hazard. *Quaternary Science Reviews* 19: 849–863.

- Clarke, S. E. and S. A. Bryce. 1997. Hierarchical Subdivisions of the Columbia Plateau and Blue Mountains Ecoregions, Oregon, and Washington (Vol. 395). United States Department of Agriculture, Forest Service, Pacific Northwest Research Station.
- DNR (Washington State Department of Natural Resources). 2015. Significant Deep-Seated Landslides in Washington State – 1984 to 2014. Accessed August 4, 2023. [https://www.dnr.wa.gov/publications/ger\\_list\\_large\\_landslides.pdf](https://www.dnr.wa.gov/publications/ger_list_large_landslides.pdf).
- Ecology (Washington State Department of Ecology). Not dated. Groundwater Resources. Accessed October 11, 2020. <https://ecology.wa.gov/Water-Shorelines/Water-quality/Groundwater/Groundwater-resources>.
- EERI and WMDEMD (Earthquake Engineering Research Institute and the Washington Military Department Emergency Management Division). 2005. Scenario for a Magnitude 6.7 Earthquake on the Seattle Fault. Accessed August 7, 2023. [https://mitigation.eeri.org/wp-content/uploads/seattscen\\_full\\_book.pdf](https://mitigation.eeri.org/wp-content/uploads/seattscen_full_book.pdf).
- Fannie Mae. 2017. United States Geological Survey (USGS) Peak Ground Acceleration (PGA) Calculator Tutorial (Beta – Unified Hazard Tool). Accessed December 17, 2021. <https://multifamily.fanniemae.com/media/7371/display>.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Hunting, M. T., W. A. G. Bennett, V. E. Livingston, Jr., and W. S. Moen, W. S. 1961. Geologic Map of Washington: Washington Division of Mines and Geology, scale 1:500,000.
- Kelsey, H. M., A. R. Nelson, E. Hemphill-Haley, and R. Witter. 2005. Tsunami History of an Oregon Coastal Lake Reveals a 4600 Year Record of Great Earthquakes on the Cascadia Subduction Zone. Geological Society of America Bulletin 117:1009–1032.
- McGarr, A., and R. C. Vorhis. 1968. Seismic Seiches from the March 1964 Alaska Earthquake, U.S. Geol. Survey Prof. Paper, p. E1 –E.
- Moen, W. S. and G. B. McLucas. 1981. Mount St. Helens Ash – Properties and Possible Uses. Washington Department of Natural Resources, Division of Geology and Earth Resources. Report of Investigations 24. Olympia, Washington.
- Nelson, A. R., H. M. Kelsey, and R. C. Witter. 2006. Great Earthquakes of Variable Magnitude at the Cascadia Subduction Zone. Quaternary Research 65:354–365.
- PNSN (Pacific Northwest Seismic Network). Not dated. Cascadia Subduction Zone. Accessed November 23, 2021. <https://pnsn.org/outreach/earthquakesources/csz>.
- Reidel, S. P, B.S. Martin, and H. L. Petcovic. 2003. Western Cordillera and Adjacent Areas – Chapter 4: The Columbia River Flood Basalts and the Yakima Fold Belt.
- Swanson, D. A., K. A. Cameron, R. C. Evarts, P. T. Pringle, and J. A. Vance. 1989. IGC Field Trip T106: Cenozoic Volcanism in the Cascade Range and Columbia Plateau, Southern Washington and Northernmost Oregon. Field Trip Guidebooks, 106, 1-60. American Geophysical Union.

- Sweeney, M. R., E. V. McDonald, and D. R. Gaylord. 2017. Generation of the Palouse Loess: Exploring the Linkages between Glaciation, Outburst Megafloods, and Eolian Deposition in Washington State. From the Puget Lowland to East of the Cascade Range: Geologic Excursions in the Pacific Northwest 49.
- USDA (U.S. Department of Agriculture). Not dated. Web Soil Survey. Accessed November 23, 2021. <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>
- USGS (U.S. Geological Survey). Not dated (a). Interactive Fault Map. Accessed November 23, 2021: <https://www.usgs.gov/natural-hazards/earthquake-hazards/faults>.
- USGS (U.S. Geological Survey). Not dated (b). U.S. Geological Survey. Unified Hazard Tool. Accessed November 23, 2021. <https://earthquake.usgs.gov/hazards/interactive/>.
- USGS (U.S. Geological Survey). Not dated (c). Natural Hazards Mission Area. Accessed November 24, 2021. <https://www.usgs.gov/mission-areas/natural-hazards>.
- USGS (U.S. Geological Survey). Not dated (d). Geologic Units Containing Landslide. Accessed December 17, 2021. <https://mrdata.usgs.gov/geology/state/sgmc-lith.php?code=1.5.4>.
- USGS (U.S. Geological Survey). Not dated (e). Cascades Volcano Observatory. Accessed November 23, 2021. <https://www.usgs.gov/observatories/cascades-volcano-observatory>.
- Washington Division of Geology and Earth Resources. 2016. Simplified Volcanic Hazards, Adapted from U.S. Geological Survey—GIS Data: Washington Division of Geology and Earth Resources, version 1.0, May 2016. Accessed May 22, 2023. [https://gis.dnr.wa.gov/site1/rest/services/Public\\_Geology/Volcanic\\_Hazards/MapServer](https://gis.dnr.wa.gov/site1/rest/services/Public_Geology/Volcanic_Hazards/MapServer).
- Weary, D.J., and D. H. Doctor. 2014. Karst in the United States: A Digital Map Compilation and Database: U.S. Geological Survey Open-File Report 2014–1156, 23. Accessed November 23, 2021. <https://dx.doi.org/10.3133/ofr20141156>.
- Wells, R. E., and P. L. Heller. 1988. The Relative Contribution of Accretion, Shear, and Extension to Cenozoic Tectonic Rotation in the Pacific Northwest. Geological Society of America Bulletin 100:325–338.
- Wells, R. E., and R. W. Simpson. 2001. Northward Migration of the Cascadia Forearc in the Northwestern U.S. and Implications for Subduction Deformation. Earth Planet Special Publication 53:275–283.
- Wolfe, E. W., and T. C. Pierson. 1995. Volcanic-hazard Zonation for Mount St. Helens, Washington. USGS Open-File Report 95-497.
- Yeats, R. 2004. Living with Earthquakes in the Pacific Northwest – Chapter 5: Earthquakes in the Juan de Fuca Plate. Oregon State University.
- Youd, T. L., and I. M. Idriss. 2001. Liquefaction Resistance of Soils: Summary Report from the 1996 NCEER and 1998 NCEER/NSF Workshops on Evaluation of Liquefaction Resistance of Soils. Journal of Geotechnical and Geoenvironmental Engineering. 127(4).

### **Section 3.3 – Air Quality**

- BCAA (Benton Clean Air Agency), 2021. General Standards for Particulate Matter, Regulation 1, Article 4, Section 4.02.C. Amended November 21, 2021. <http://bentoncleanair.org/about-us/regulation-i>

- Ecology (Washington State Department of Ecology). 2020. 2017 Washington Comprehensive Emissions Inventory. Accessed December 15, 2021. <https://apps.ecology.wa.gov/publications/SummaryPages/2002012.html>.
- Ecology (Washington State Department of Ecology). Not dated. Tracking Greenhouse Gases. Accessed March 9, 2022. <https://ecology.wa.gov/Air-Climate/Climate-change/Tracking-greenhouse-gases>.
- EPA (U.S. Environmental Protection Agency). 2022. Interactive Map of Air Quality Monitors. Updated September 6, 2022. Accessed July 31, 2023. <https://www.epa.gov/outdoor-air-quality-data/interactive-map-air-quality-monitors>.
- EPA (U.S. Environmental Protection Agency). 2023. Nonattainment Areas for Criteria Pollutants (Green Book). Updated June 30, 2023. Accessed July 31, 2023. <https://www.epa.gov/green-book>.
- Hanna, Steven R., A. Briggs, A. Gary, and R. P. Hosaker. 1982. Handbook on Atmospheric Diffusion. DOE/TIC-11223. Technical Information Center, U.S. Department of Energy.
- Horse Heaven Wind Farm, LLC. 2021. Response to Data Request No.2; AIR-1 through AIR-13 submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- IDEQ (Idaho Department of Environmental Quality). 2019. Background Concentrations 2014-2017. NW-AIRQUEST. Accessed July 31, 2023. <https://idahodeq.maps.arcgis.com/apps/MapSeries/index.html?appid=0c8a006e11fe4ec5939804b873098dfe>.
- Tetra Tech. 2023. Air Quality Dispersion Modeling Evaluation, Horse Heaven Wind Farm Concrete Batch Plant and Stationary Engines, Benton County, Washington. June 2023.

### **Section 3.4 – Water Resources**

- Benton County. Not dated. Benton County Critical Area Regulations. Accessed January 19, 2022. <https://www.co.benton.wa.us/files/documents/CriticalAreasOrdinance129062044100317PM.pdf>
- Benton County. 2018. Critical Aquifer Recharge Areas. Accessed December 16, 2021. <https://www.co.benton.wa.us/files/documents/CH1506BCC148013709092718PM.pdf>
- Ecology (Washington State Department of Ecology). 2019. National Hydrography Dataset for Washington. Published May 2019. Accessed January 21, 2022. <https://ecology.wa.gov/Research-Data/Data-resources/Geographic-Information-Systems-GIS/Data#h>
- Ecology (Washington State Department of Ecology). 2020. Water Quality Atlas. Accessed December 9, 2021. <https://apps.ecology.wa.gov/waterqualityatlas/wqa/startpage>
- Ecology (Washington State Department of Ecology). 2021. State Wide WRIA Finder. Accessed December 20, 2021. <https://waecy.maps.arcgis.com/apps/webappviewer/index.html?id=996e6b21ae394cc3a3b63c6da0c3aa0a>



- Ecology (Washington State Department of Ecology). 2022a. Freshwater Information Network. Accessed January 20, 2022. <https://apps.ecology.wa.gov/eim/search/SMP/RiverStreamSearch.aspx?StudyMonitoringProgramUserId=RiverStream&StudyMonitoringProgramUserIdSearchType=Equals&MPLocationStatus=Active>
- Ecology (Washington State Department of Ecology). 2022b. River & stream water quality index. Accessed April 1, 2022. <https://ecology.wa.gov/Research-Data/Monitoring-assessment/River-stream-monitoring/Water-quality-monitoring/River-stream-water-quality-index>
- EPA (U.S. Environmental Protection Agency). 2008. The Ecological and Hydrological Significance of Ephemeral and Intermittent Streams in the Arid and Semi-arid American Southwest. November 2008. Accessed January 21, 2022. [https://www.epa.gov/sites/default/files/2015-03/documents/ephemeral\\_streams\\_report\\_final\\_508-kepner.pdf](https://www.epa.gov/sites/default/files/2015-03/documents/ephemeral_streams_report_final_508-kepner.pdf).
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification. EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Hruby, T. 2014. Washington State Wetland Rating System for Eastern Washington 2014 Update. SEA Program, Washington State Department of Ecology. Olympia, Washington.
- Lichvar, R. W., N. C. Melvin, M. L. Butterwick, and W. N. Kirchner. 2012. National Wetland Plant List Indicator Rating Definitions. Engineer Research and Development Centre, U.S. Army Corps of Engineers. July 2012. 7 pp. Accessed January 21, 2022. [https://cwbi-app.sec.usace.army.mil/nwpl\\_static/data/DOC/NWPL/pubs/2012b\\_Lichvar\\_et\\_al.pdf](https://cwbi-app.sec.usace.army.mil/nwpl_static/data/DOC/NWPL/pubs/2012b_Lichvar_et_al.pdf).
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, N.C. Melvin. 2016. The National Wetland Plant List: 2016 wetland ratings. *Phytoneuron* 2016-30:1-17.
- Nadeau, T. 2015. Streamflow Duration Assessment Method for the Pacific Northwest. EPA 910-K-14-001, U.S. Environmental Protection Agency, Region 10, Seattle, Washington.
- USACE (U.S. Army Corps of Engineers). 2020. 2020 National Wetland Plant List v3.5 – Mapper Tool. Accessed November 25, 2021. [https://cwbi-app.sec.usace.army.mil/nwpl\\_static/v34/mapper/mapper.html#](https://cwbi-app.sec.usace.army.mil/nwpl_static/v34/mapper/mapper.html#).
- USGS (U.S. Geological Survey). 2022. USGS Current Water Data for Washington. Accessed January 20, 2022. <https://waterdata.usgs.gov/wa/nwis/rt>.
- U.S. Climate Data. 2021. Climate Kennewick – Washington. Accessed November 18, 2021. <https://www.usclimatedata.com/climate/kennewick/washington/united-states/uswa0205>.
- USFWS (U.S. Fish and Wildlife Service). 202241. National Wetlands Inventory – Wetlands Mapper. Accessed January 19, 2022. <https://www.fws.gov/wetlands/data/Mapper.html>.
- Washington State Legislature. 2023. Washington Administrative Code. Accessed September 20, 2023. <https://apps.leg.wa.gov/wac/>.
- WDFW (Washington Department of Fish and Wildlife). 2008. State of Washington Priority Habitats and Species List. August 2008 (Updated June 2023). 291 pp.

WDFW. 2009. Washington Department of Fish and Wildlife Wind Power Guidelines. April 2009. 31 pp.

### **Section 3.5 – Vegetation**

BCNWCB (Benton County Noxious Weed Control Board). Not dated. Class “A” Noxious Weeds. Accessed December 21, 2021. <http://www.bentonweedboard.com/bc-class-a-weeds>.

Clarke, S. E., and S. A. Bryce. 1997. Hierarchical Subdivisions of the Columbia Plateau and Blue Mountains Ecoregions, Oregon and Washington. General Technical Report. PNW-GTR-395. Portland, Oregon. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station.

DNR (Washington State Department of Natural Resources). 2021. Species Lists. Accessed December 17, 2021. <https://www.dnr.wa.gov/NHPlists>.

Franklin, J. F., and C. T. Dyrness. 1988. Natural Vegetation of Oregon and Washington. Oregon State University Press. Accessed December 17, 2021. <http://www.fsl.orst.edu/rna/Documents/publications/Natural%20vegetation%20of%20Oregon%20and%20Washington%201988.pdf>.

Horse Heaven Wind Farm, LLC. 2021a. Response from Tetra Tech to Data Request No.4; DEIS-1. Submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.

Horse Heaven Wind Farm, LLC. 2021b. Response to Data Request No.1 and No.2; Veg-6, Hab-11 to Hab-14. Submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.

Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification. EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

Johnson, D. H., and T. A. O’Neil. 2001. Wildlife-Habitat Relationships in Oregon and Washington. Corvallis, Oregon: Oregon State University Press.

Knick, S. T., D. S. Dobkin, J. T. Rotenberry, M.A. Schroeder, W. M. Vander Haegen, and C. van Riper III. 2003. Teetering on the Edge or Too Late? Conservation and Research Issues for Avifauna of Sagebrush Habitats. *The Condor* 105 (4):611 - 634.

MRLC (Multi-Resolution Land Characteristics Consortium). Not dated. National Land Cover Database 2019 (NLCD 2019) Legend. Accessed December 17, 2021. <https://www.mrlc.gov/data/legends/national-land-cover-database-2019-nlcd2019-legend>.

Unland, Chad. 2022. Personal communication (email) from Chad Unland, Natural Resources Specialist, Southeast Region, Washington State Department of Natural Resources to Amy Moon, Energy Facility Site Specialist, Washington Energy Facility Site Evaluation Council, January 26, 2022.

U.S. Climate Data. 2023. Climate Kennewick – Washington. Accessed 13 September 2023. <https://www.usclimatedata.com/climate/kennewick/washington/united-states/uswa0205>.

- USFWS (United States Fish and Wildlife Service). 2014. Why Care about America's Sagebrush? February 2014. Denver, Colorado.
- WDFW (Washington Department of Fish and Wildlife). 2008. Priority Habitat and Species List. 2021 Update. Olympia, Washington.
- WDFW (Washington Department of Fish and Wildlife). 2009. Wind Power Guidelines. Olympia, Washington.
- WDFW (Washington Department of Fish and Wildlife). 2022. PHS on the Web. Downloaded: January 25, 2022. <https://geodataservices.wdfw.wa.gov/hp/phs/>
- WDFW (Washington Department of Fish and Wildlife). Not dated. PHS on the Web. Accessed November 24, 2021. <https://geodataservices.wdfw.wa.gov/hp/phs/>.
- WNHP (Washington Natural Heritage Program). 2011. Washington Natural Heritage Program List of Lichens. 4 pp. [https://www.dnr.wa.gov/publications/amp\\_nh\\_lichens.pdf](https://www.dnr.wa.gov/publications/amp_nh_lichens.pdf).
- WNHP (Washington Natural Heritage Program). 2021a. 2021 Washington Vascular Plant Species of Conservation Concern. Natural Heritage Report 2021-04. 31 August 2021. [https://www.dnr.wa.gov/publications/amp\\_nh\\_vascular\\_ets.pdf](https://www.dnr.wa.gov/publications/amp_nh_vascular_ets.pdf).
- WNHP (Washington Natural Heritage Program). 2021b. Online Field Guide to the Rare Plants of Washington. Accessed January 18, 2022. <https://fieldguide.mt.gov/wa>.
- WNHP (Washington Natural Heritage Program). 2022. Washington Natural Heritage Program, Washington Department of Natural Resources, Olympia, WA. U.S.A. Accessed January 6, 2022. <https://www.dnr.wa.gov/NHPdata>.
- WSNWCB (Washington State Noxious Weed Control Board). Not dated. Noxious Weed List. Accessed November 16, 2021. <https://www.nwcb.wa.gov/classes-of-noxious-weeds>.

### **Section 3.6 – Wildlife and Habitat**

- Benton County. Not dated. Benton County Critical Area Regulations. Accessed January 19, 2022. <https://www.co.benton.wa.us/files/documents/CriticalAreasOrdinance129062044100317PM.pdf>
- Buehler, D. A. 2020. Bald Eagle (*Haliaeetus leucocephalus*), version 1.0. In: Poole, A.F., and F.B. Gill (eds.). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.baleag.01>.
- Cryan, P. M. 2003. Seasonal Distribution of Migratory Tree Bats (*Lasiurus and Lasionycteris*) in North America. Journal of Mammalogy, 84(2):579–593.
- Ecology (Washington State Department of Ecology). 2019. National Hydrography Dataset for Washington. Published May 2019. Accessed January 21, 2022. <https://ecology.wa.gov/Research-Data/Data-resources/Geographic-Information-Systems-GIS/Data#h>
- Dobler, F. C., J. Eby, C. Perry, S. Richardson, and M. Vander Haegen. 1996. Status of Washington's Shrub-steppe Ecosystem: Extent, Ownership, and Wildlife/Vegetation Relationships. Olympia: Washington Department of Fish and Wildlife Resources Report.

- Fidorra, J., D. Blodgett, S. Bergh, C. Wickham, and R. Harris. 2019. Summary Report 2019: Pronghorn Antelope Abundance Survey in South-central Washington. Prepared for Yakama Nation and Wildlife Washington Department of Fish and Wildlife.
- Fidorra, J. and T. C. Peterson. 2021. Summary Report. 2021: Pronghorn Antelope Abundance Survey in South-central Washington. Prepared for Yakama Nation Wildlife and Washington Department of Fish and Wildlife.
- Gerber, B. D., J. F. Dwyer, S. A. Nesbitt, R. C. Drewien, C. D. Littlefield, T. C. Tacha, and P.A. Vohs. 2020. Sandhill Crane (*Antigone canadensis*), version 1.0. In: Poole, A.F. (ed.). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.sancra.01>.
- Giudice, J. H., and J. T. Ratti. 2020. Ring-necked Pheasant (*Phasianus colchicus*), version 1.0. In Birds of the World (S. M. Billerman, Editor). Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.rinphe.01>.
- Hays, Q., S. Brown, and A. Chatfield. 2018. Bat Activity Study for the Badger Canyon Wind Project, Benton County, Washington. Prepared for Four Mile MW LLC.
- Hayes, G. E. and J. W. Watson. 2021. Periodic Status Review for the Ferruginous Hawk. Washington Department of Fish and Wildlife, Olympia, Washington. 30+iii pp.
- Horse Heaven Wind Farm, LLC. 2021. Response from Tetra Tech to Data Request No.4; DEIS-1. Submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification. EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Jansen, E.W. 2023. 2023 Raptor Nest Surveys for the Horse Heaven Clean Energy Center, Benton County, Washington. August 2023.
- Johnson, D. H. and T. A. O'Neil. 2001. Wildlife-Habitat Relationships in Oregon and Washington. Corvallis, Oregon: Oregon State University Press.
- Katzner, T. E., M. N. Kochert, K. Steenhof, C. L. McIntyre, E. H. Craig, and T. A. Miller. 2020. Golden Eagle (*Aquila chrysaetos*), version 2.0. In: Rodewald P.G. and B.K. Keeney (eds). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://birdsoftheworld.org/bow/species/goleag/2.0/introduction>.
- Knopf, F. L. and R. M. Evans. 2020. American White Pelican (*Pelecanus erythrorhynchos*), version 1.0. In: Poole, A.F. (ed.). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.amwpel.01>.
- Limpert, R. J., S. L. Earnst, C. Carboneras, and G. M. Kirwan. 2020. Tundra Swan (*Cygnus columbianus*), version 1.0. In: Billerman, S.M. (ed.). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.tunswa.01>.

- Martin, J. W. and B. A. Carlson. 2020. Sagebrush Sparrow (*Artemisospiza nevadensis*), version 1.0. In: Poole, A.F. (ed.). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.sagspa1.01>.
- NatureMapping. Not dated. Washington Wildlife Distribution Maps. Washington NatureMapping Program. Accessed November 2021. <http://naturemappingfoundation.org/natmap/maps/wa/>.
- NatureServe. 2021. NatureServe Explorer [web application]. NatureServe, Arlington, Virginia. Accessed November 2021. <https://explorer.natureserve.org/>.
- Ng, J., M. D. Giovanni, M. J. Bechard, J. K. Schmutz, and P. Pyle. 2020. Ferruginous Hawk (*Buteo regalis*), version 1.0. In: Rodewald, P.G. (ed.). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.ferhaw.01>.
- Poulin, R. G., L. D. Todd, E. A. Haug, B. A. Millsap, and M. S. Martell. 2020. Burrowing Owl (*Athene cunicularia*), version 1.0. In: Poole, A.F. (ed.). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.burowl.01>.
- Reynolds, T. D., T. D. Rich, and D. A. Stephens. 2020. Sage Thrasher (*Oreoscoptes montanus*), version 1.0. In: Poole, A.F., and F.B. Gill (eds.). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.sagthr.01>.
- Ritter, M. 2022. Personal communication (teleconference) between M. Ritter, Washington Department of Fish and Wildlife and K. Moss, Golder Associates Ltd, March 10, 2022.
- Schwitters, L., D. Schwitters, E. L. Bull, and C. T. Collins. 2021. Vaux's Swift (*Chaetura vauxi*), version 1.1. In: Rodewald, P.G. (ed.). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.vauswi.01.1>.
- Steenhof, K. 2020. Prairie Falcon (*Falco mexicanus*), version 1.0. In: Poole, A.F. (ed.). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.prafal.01>.
- Stephens, D. A. 1985. Foraging Ecology of Shrubsteppe Birds in Central Washington. Master's Thesis, Central Washington University, Ellensburg, Washington.
- Tetra Tech. 2021a. 2021 Botany and Habitat Survey Report for Horse Heaven Wind Farm. Prepared for Horse Heaven Wind Farm, LLC by Tetra Tech. August 2021.
- Tetra Tech. 2021b. WDFW Data Request Regarding Potential Impacts to Pronghorn from Wind and Solar Energy Development at the Horse Heave Clean Energy Center, Benton County, Washington. Prepared for Scout Clean Energy.
- Vennesland, R. G. and R. W. Butler. 2020. Great Blue Heron (*Ardea herodias*), version 1.0. In: Poole, A.F. (ed.). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.grbher3.01>.
- Watson, J. 2022a. Personal communication (teleconference) between J. Watson, Washington Department of Fish and Wildlife and K. Moss. Golder Associates Ltd, January 5, 2022.

- Watson, J. 2022b. Personal communication (teleconference) between J. Watson, Washington Department of Fish and Wildlife and K. Moss. Golder Associates Ltd, February 3, 2022.
- WDFW (Washington Department of Fish and Wildlife). 2008. Priority Habitat and Species List. 2021 Update. Olympia, Washington.
- WDFW (Washington Department of Fish and Wildlife). 2009. Wind Power Guidelines. Olympia, Washington. Washington Department of Fish and Wildlife Wind Power Guidelines. <https://wdfw.wa.gov/publications/00294> |
- WDFW (Washington Department of Fish and Wildlife). 2015. Washington's State Wildlife Action Plan: 2015 Update. Washington Department of Fish and Wildlife, Olympia Washington, USA.
- WDFW (Washington Department of Fish and Wildlife). 2022. Priority Habitat and Species List. Accessed June 2022. <https://wdfw.wa.gov/species-habitats/at-risk/phs/list>.
- WDFW (Washington Department of Fish and Wildlife). 2023a. At-risk Species. Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/at-risk>.
- WDFW (Washington Department of Fish and Wildlife). 2023b. Northern sagebrush lizard (*Sceloporus graciosus*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/sceloporus-graciosus#desc-range>.
- WDFW (Washington Department of Fish and Wildlife). 2023c. Desert striped whipsnake (*Coluber [Masticophis] taeniatus taeniatus*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/coluber-masticophis-taeniatus-taeniatus#desc-range>.
- WDFW (Washington Department of Fish and Wildlife). 2023d. American white pelican (*Pelecanus erythrorhynchos*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/pelecanus-erythrorhynchos#desc-range>.
- WDFW (Washington Department of Fish and Wildlife). 2023e. Burrowing owl (*Athene cunicularia*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/athene-cunicularia#desc-range>.
- WDFW (Washington Department of Fish and Wildlife). 2023f. Ring-necked pheasant (*Phasianus colchicus*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/phasianus-colchicus#desc-range>.
- WDFW (Washington Department of Fish and Wildlife). 2023g. Sagebrush sparrow (*Artemisiospiza nevadensis*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/artemisiospiza-nevadensis#desc-range>.
- WDFW (Washington Department of Fish and Wildlife). 2023h. Sage thrasher (*Oreoscoptes montanus*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/oreoscoptes-montanus#desc-range>.
- WDFW (Washington Department of Fish and Wildlife). 2023i. Sandhill crane (*Antigone canadensis*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/grus-canadensis#desc-range>.
- WDFW (Washington Department of Fish and Wildlife). 2023j. Townsend's big-eared bat (*Corynorhinus townsendii*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/corynorhinus-townsendii#desc-range>.

- WDFW (Washington Department of Fish and Wildlife). 2023k. Townsend's ground squirrel (*Urocitellus townsendii townsendii*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/corynorhinus-townsendii#desc-range>.
- WDFW (Washington Department of Fish and Wildlife). 2023l. Black-tailed jackrabbit (*Lepus californicus*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/lepus-californicus#desc-range>.
- WDFW (Washington Department of Fish and Wildlife). 2023m. White-tailed jackrabbit (*Lepus townsendii*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/lepus-townsendii#desc-range>.
- WDFW (Washington Department of Fish and Wildlife). 2023n. Pronghorn antelope (*Antilocapra americana*). Accessed July 19, 2023. <https://wdfw.wa.gov/species-habitats/species/antilocapra-americana#desc-range>.
- WDFW (Washington Department of Fish and Wildlife). Not dated (a). PHS on the Web [mapping tool]. Accessed November 2021. <https://geodataservices.wdfw.wa.gov/hp/phs/>.
- WDFW (Washington Department of Fish and Wildlife). Not dated (b). Game Management Plan: July 2015–June 2021. Accessed November 2021. <https://wdfw.wa.gov/sites/default/files/publications/01676/wdfw01676.pdf>.
- WNHP (Washington Natural Heritage Program), Washington Department of Fish and Wildlife, U.S.D.I. Bureau of Land Management, and U.S. Forest Service. 2009. Washington Herp Atlas. Map products updated March 2017. Provisional PDF version of the website (2005-2019) created July 2019.
- WHCWG (Washington Wildlife Habitat Connectivity Working Group). 2013. Columbia Plateau Ecoregion Connectivity Analysis Addendum: Habitat Connectivity Centrality, Pinch-points, and Barriers/Restoration Analyses. Washington's Department of Fish and Wildlife, and Department of Transportation, Olympia, Washington.
- Yakama Nation. 2023. Pronghorn Reintroduction and Management in Southeast Washington: pronghorn Landscape use and Population Dynamics Presentation.
- Yosef, R. 2020. Loggerhead Shrike (*Lanius ludovicianus*), version 1.0. In: Poole, A.F. and F.B. Gill (eds.). Birds of the World. Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.logshr.01>.

### **Section 3.7 – Energy and Natural Resources**

- Benton County, Washington. Not dated. Official website. Accessed April 2023. <https://www.co.benton.wa.us/default.aspx>.
- Benton PUD (Benton Public Utility District). 2021. 2020 Fast Facts. Accessed November 21, 2021. <https://www.bentonpud.org/getattachment/About/Your-PUD/Overview/Fast-Facts/2020-Fast-Facts-Full-Document-updated-2021-10-05.pdf.aspx?lang=en-US>.
- Benton REA (Benton Rural Electric Authority). 2022. About Benton REA. Accessed November 21, 2021. <https://bentonrea.org/about/about-benton-rea/>.
- City of Kennewick. 2017. Water Comprehensive Plan, Volume 1 of 2. Accessed November 17, 2021. <https://www.go2kennewick.com/DocumentCenter/View/9775/2017-Water-Comp-Plan?bidId= .>

- DNR (Washington State Department of Natural Resources). 2022. Aggregate Resources. Accessed November 18, 2021. <https://www.dnr.wa.gov/aggregate-resources#:~:text=In%20general%2C%20glacial%20deposits%2C%20river,our%20quality%20and%20quantity%20thresholds.>
- DOE (U.S. Department of Energy). Not dated. Alternative Fuels Data Center: Washington Transportation Data for Alternative Fuels and Vehicles. Accessed November 16, 2021. <https://afdc.energy.gov/states/wa?menu=mi>.
- Ecology (Washington State Department of Ecology). Not dated. Accessed November 19, 2021. <https://ecology.wa.gov/Water-Shorelines/Water-supply/Water-rights>.
- Energy Northwest. Not dated. Nine Canyon Wind Project. Accessed November 21, 2021. [https://www.lcpud.org/wp-content/uploads/Nine\\_Canyon.pdf](https://www.lcpud.org/wp-content/uploads/Nine_Canyon.pdf).
- EIA (U.S. Energy Information Agency). 2020. Biofuels explained: Ethanol and Biomass-based Diesel. Accessed February 24, 2022. <https://www.eia.gov/energyexplained/biofuels/>.
- EIA (U.S. Energy Information Agency). 2021. Washington State Profile and Energy Estimate: Profile Analysis Updated January 21, 2021. Accessed November 17, 2021. <https://www.eia.gov/state/analysis.php?sid=WA>.
- EIA (U.S. Energy Information Agency). 2022. Washington State Profile and Energy Estimate: Quick Facts. Accessed February 24, 2022. <https://www.eia.gov/state/?sid=WA>.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Washington Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Northwest Power and Conservation Council. 2021. The 2021 Northwest Power Plan for a Secure & Affordable Energy Future Draft Plan Council Document 2021-5, September 2021. Accessed November 17, 2021. [https://www.nwcouncil.org/sites/default/files/2021powerplan\\_2021-5.pdf](https://www.nwcouncil.org/sites/default/files/2021powerplan_2021-5.pdf).
- Portland Cement Association. 2016. Washington Cement Industry. Accessed November 16, 2021. <https://www.cement.org/docs/default-source/ga-pdfs/cement-industry-by-state-2015/washington.pdf?sfvrsn=2&sfvrsn=2>.
- Portland Cement Association. 2023. Accessed September 28, 2023. Cement and Concrete. <https://www.cement.org/cement-concrete>.
- RCW (Revised Code of Washington). Chapter 19.405, Section 19.405.010, Washington Clean Energy Transformation Act. Accessed July 31, 2023. <https://app.leg.wa.gov/RCW/default.aspx?cite=19.405.010>.
- State of Washington Legislature. 2019. State of Washington 66th Legislature 2019 Regular Session. Accessed September 27, 2023. <http://lawfilesexternal.leg.wa.gov/biennium/2019-20/Pdf/Bills/Session%20Laws/Senate/5116-S2.SL.pdf?q=20210822161309>.
- USGS (U.S. Geological Survey). 2020. 2017 Minerals Yearbook Sand and Gravel, Construction [Advance Release]. Accessed November 16, 2021. <https://d9-wret.s3.us-west-2.amazonaws.com/assets/palladium/production/atoms/files/myb1-2017-sandc.pdf>.



Western Electricity Coordinating Council. n.d. The Western Interconnection. Accessed July 13, 2023. <https://www.wecc.org/epubs/StateOfTheInterconnection/Pages/The-Western-Interconnection.aspx>.

WAC (Washington Administrative Code). Chapter 463-60, Section 463-60-342, Natural environment—Energy and natural resources. Accessed April 26, 2023. <https://app.leg.wa.gov/wac/default.aspx?cite=463-60-342>.

### **Section 3.8 – Land and Shoreline Use**

Benton County. 2017. Benton County Voluntary Stewardship Program, Chapter 3 March 2017 Agricultural Context. Accessed March 30, 2022. <https://www.co.benton.wa.us/files/documents/VSPBentonCh3AgriContext3-27-17129123149032817PM.pdf>.

Benton County. 2020. 2017 Benton County Comprehensive Plan, Adopted February 13, 2018, Updated January 2020. Accessed October 16, 2023. <https://www.co.benton.wa.us/files/documents/2017ComprehensivePlanJanuary2020129055548061620PM.pdf>.

Benton County. 2021a. Benton County Shoreline Master Program. Locally Approved September 2021. Accessed March 29, 2022. <https://www.co.benton.wa.us/pview.aspx?id=21044&catid=0>

Benton County. 2021b. Codes, Plans and Policies. Accessed November 11, 2021. <https://www.co.benton.wa.us/pview.aspx?id=20971&catid=0>.

BERK (BERK Consulting). 2016. Memorandum: Agricultural Land & Critical Area Mapping Update. Accessed May 31, 2022. <https://benton.municipalcms.com/files/documents/document129010710071916.pdf>.

DNR (Washington State Department of Natural Resources). 2021. Forest and Trust Lands. Accessed November 3, 2021. <https://www.dnr.wa.gov/managed-lands/forest-and-trust-lands>.

Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

NRCS (U.S. Department of Agriculture Natural Resource Conservation Service). Not dated. Range & Pasture. Accessed March 30, 2022. <https://www.nrcs.usda.gov/conservation-basics/natural-resource-concerns/land/range-pasture>.

USDA (United States Department of Agriculture). 2019. Conservation Reserve Program Fact Sheet. Accessed November 3, 2021. [https://www.fsa.usda.gov/Assets/USDA-FSA-Public/usdafiles/FactSheets/2019/conservation-reserve\\_program-fact\\_sheet.pdf](https://www.fsa.usda.gov/Assets/USDA-FSA-Public/usdafiles/FactSheets/2019/conservation-reserve_program-fact_sheet.pdf).

Washington Wine. 2023a. Fast Facts. Accessed April 24, 2023. <https://www.washingtonwine.org/fast-facts/>.

Washington Wine. 2023b. 2021-2022 Tour Guide. Regions and AVAs. Accessed April 24, 2023. <https://www.washingtonwine.org/regions-and-avas/>.

WSU (Washington State University). 1992. Dryland Farming in the Northwestern United States, A Nontechnical Overview. Accessed March 30, 2022. <https://smallfarms.oregonstate.edu/sites/agscid7/files/assets/dryland-farming-in-the-northwestern-united-states.pdf>.

### **Section 3.9 – Historic and Cultural Resources**

- Columbia River Inter-Tribal Fish Commission. 2021. Confederated Tribes and Bands of the Yakama Nation. Accessed October 10, 2023. <https://critfc.org/member-tribes-overview/the-confederated-tribes-and-bands-of-the-yakama-nation/#:~:text=Mount%20Adams%2C%20the%20Klickitat%20River,acres%20to%20the%20United%20States.>
- CTUIR (Confederated Tribes of the Umatilla Indian Reservation). 2021. Traditional Use Study of the Horse Heaven Wind Farm Project, Benton County, Washington. Executive Summary.
- DAHP (Department of Archaeological and Historic Preservation). 2003. A Field Guide to Washington State Archaeology. Accessed January 13, 2022. [https://dahp.wa.gov/sites/default/files/Field Guide to WA Arch 1.pdf](https://dahp.wa.gov/sites/default/files/Field%20Guide%20to%20WA%20Arch%201.pdf).
- DAHP (Department of Archaeological and Historic Preservation). 2023. Washington State Standards for Cultural Resources Reporting. Updated 4/19/2023. Prepared by the Washington Department of Archaeological and Historic Preservation, Olympia. Accessed May 2, 2023 <https://dahp.wa.gov/sites/default/files/CR%20Update%20April2023.pdf>.
- DAHP (Department of Archaeological and Historic Preservation). Not dated. SEPA. Accessed August 9, 2023, <https://dahp.wa.gov/project-review/sepa>.
- Davis, S. J., K. Burk-Hise, and J. Henderson. 2020. Cultural Resources Investigations on Washington Department of Natural Resources Land for the Horse Heaven Wind Farm Project, Benton County, Washington. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Davis, S. J., J. Jones, J. Henderson, L. Waldroop, and E. K. Ragsdale. 2020. Cultural Resources Investigations on Privately Owned Land for the Horse Heaven Wind Farm Project, Benton County, Washington. Draft report. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Davis, S. J., J. Jones, J. Henderson, L. Waldroop, and E. K. Ragsdale. 2021. Cultural Resources Investigations on Privately Owned Land for the Horse Heaven Wind Farm Project, Benton County, Washington. Final report. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Davis, S. J. and E. K. Ragsdale. 2020. Memorandum: Cultural Resources Investigations on Washington Department of Natural Resources Land for the Horse Heaven Wind Farm Project, Benton County, Washington—Addendum One. DAHP Project No. 2020-02-01333. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Davis, S. J. and E. K. Ragsdale. 2021. Memorandum: Cultural Resources Investigations on Washington Department of Natural Resources Land for the Horse Heaven Wind Farm Project, Benton County, Washington—Addendum Two. DAHP Project No. 2020-02-01333. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Davis, S. J., J. Tuck, K. Burk-Hise, J. Hopt, and E. K. Ragsdale. 2021. Cultural Resource Investigations on Privately Owned Land for the Horse Heaven Wind Farm Project, Benton County, Washington—Addendum One. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.

- Elenga, M. 2023. Personal communication (letter) from M. Elenga, Transportation Reviewer, State of Washington Department of Archaeology and Historic Preservation, to Sara Davis, Historical Research Associates, Inc. January 25, 2023.
- Gerber, M. S. 1993. The Hanford Site: An Anthology of Early Histories. October 1993. Prepared for the U.S. Department of Energy Office of Environmental Restoration and Waste Management. Westinghouse Hanford Company. Richland, Washington. Accessed September 7, 2023.  
[https://inis.iaea.org/collection/NCLCollectionStore/\\_Public/25/041/25041030.pdf](https://inis.iaea.org/collection/NCLCollectionStore/_Public/25/041/25041030.pdf)
- Hanson, S. 2020. Personal communication (letter) from S. Hanson, Transportation Archaeologist, State of Washington Department of Archaeology and Historic Preservation, to Greg Wendt, Planning Manager, Benton County. May 26, 2020.
- Hanson, S. 2021a. Personal communication (letter) from S. Hanson, Transportation Archaeologist, State of Washington Department of Archaeology and Historic Preservation, to Amy Moon, Energy Facility Site Specialist, Washington Energy Facility Siting Evaluation Council. November 18, 2021.
- Hanson, S. 2021b. Personal communication (letter) from S. Hanson, Transportation Archaeologist, State of Washington Department of Archaeology and Historic Preservation, to Amy Moon, Energy Facility Site Specialist, Washington Energy Facility Siting Evaluation Council. December 10, 2021.
- Hardesty, D. L., and B. J. Little. 2000. Assessing Site Significance: A Guide for Archaeologists and Historians. Rowman & Littlefield, New York.
- Horse Heaven Wind Farm, LLC. 2021. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011. Revised December 2022.
- Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011. Revised September 2023.
- Kauhi, T. C., and J. L. Markert. 2009. Washington Statewide Archaeology Predictive Model Report. Prepared for Department of Archaeology and Historic Preservation by GeoEngineers, Inc., Tacoma, Washington. Statewide Archaeological Predictive Model File No. 15265-002-01 Accessed June 25, 2022.  
<https://dahp.wa.gov/sites/default/files/predictive%20model%20report%202009.pdf>.
- Kramer, G. 2012. National Register of Historic Places Multiple Property Documentation Form for the Bonneville Power Administration (BPA) Pacific Northwest Transmission System. NADB 1682502. On file, Washington State Department of Archaeology and Historic Preservation, Olympia.
- Lewis, G. 2023. Personal communication (letter) from G. Lewis, Chairman, Yakama Nation Tribal Council, to Sonia Bumpus, Director, Washington Energy Facility Siting Evaluation Council. February 1, 2023.

- Lindeman, G., and C. Holstine. 1988. Grain Production Properties in Eastern Washington. National Register of Historic Places, Multiple Property Documentation Form. On file at the Department of Archaeology and Historic Preservation, Olympia, Washington.
- NETROnline. Var. Historic Aerials Viewer. Accessed October 12, 2023. <https://www.historicaerials.com/viewer>.
- NPS (National Park Service). 1992. National Register Bulletin 38. Guidelines for Evaluating and Documenting Traditional Cultural Properties. Accessed February 2, 2022. .
- NPS (National Park Service). 1997. How to Apply the National Register Criteria for Evaluation. National Register Bulletin. U.S. Department of the Interior, National Park Service.
- NPS (National Park Service). 2020. The Fight of 1877. Accessed May 5, 2022. <https://www.nps.gov/nepe/learn/historyculture/1877.htm>.
- NPS (National Park Service). 2022. What is the National Register of Historic Places? Last updated December 28, 2022. Accessed July 13, 2023. <https://www.nps.gov/subjects/nationalregister/what-is-the-national-register.htm>.
- Quaempts, E. 2021. Personal communication (letter) between E. Quaempts, Director, Department of Natural Resources, Confederated Tribes of the Umatilla Indian Reservation, and Amy Moon, Energy Facility Site Specialist, EFSEC, April 09, 2021.
- Tuck, J, S. J. Davis, J. Hopt, M. L. Punke, B. Bowden, and E. K. Ragsdale. 2023. Evaluation of Five Archaeological Sites for the Horse Heaven Wind Farm Project, Benton County, Washington. DAHP Project No. 2020-02-01333. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Wilkerson, J., A. Brooks, and J. Williams. 2004. The Washington State Historic Preservation Plan - 2004: Strengthening Communities through Historic Preservation. Accessed January 13, 2022. <http://www.dahp.wa.gov/sites/default/files/PreservationPlan04.pdf>.
- Witt, D. E. 2023. Personal communication (letter) from D. Witt, Tribal Liaison for Climate and Energy Projects, State of Washington Department of Archaeology and Historic Preservation, to Amí Hafkemeyer, EFSEC Director of Siting and Compliance, Washington Energy Facility Siting Evaluation Council. May 18, 2023.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2022a. Property ID: 721665 McNary–Badger Canyon No. 1 Transmission Line. Washington Department of Archaeology and Historic Preservation. Accessed October 28, 2022. <https://wisaard.dahp.wa.gov/Resource/700921/PropertyInventory/1641713>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2022b. Property ID: 721666 McNary–Franklin No. 2 Transmission Line. Washington Department of Archaeology and Historic Preservation. Accessed October 28, 2022. <https://wisaard.dahp.wa.gov/Resource/700922/PropertyInventory/1641715>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2022c. Property ID: 722995 Grain Elevator. Washington Department of Archaeology and Historic Preservation. Accessed October 28, 2022. <https://wisaard.dahp.wa.gov/Resource/703508/PropertyInventory/1628420>.

- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2022d. Property ID: 722996 Residence. Washington Department of Archaeology and Historic Preservation. Accessed October 13, 2022. <https://wisaard.dahp.wa.gov/Resource/703509/PropertyInventory/1628421>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2023a. Property ID: 667765 Nine Canyon Road. Washington Department of Archaeology and Historic Preservation. Accessed August 3, 2023. <https://wisaard.dahp.wa.gov/Resource/614771/PropertyInventory/1628504>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2023b. Property ID: 724937 Nicoson Road Farmstead Barn Storage Building. Washington Department of Archaeology and Historic Preservation. Accessed August 3, 2023. <https://wisaard.dahp.wa.gov/Resource/707469/PropertyInventory/1632592>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2023c. Property ID: 724938 Nicoson Road Farmstead Cribbed Grain Elevator. Washington Department of Archaeology and Historic Preservation. Accessed August 3, 2023. <https://wisaard.dahp.wa.gov/Resource/707470/PropertyInventory/1632593>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2023d. Property ID: 724940 Shop. Washington Department of Archaeology and Historic Preservation. Accessed August 7, 2023. <https://wisaard.dahp.wa.gov/Resource/707472/PropertyInventory/1632595>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2023e. Property ID: 724939 Farmhouse and Garage. Washington Department of Archaeology and Historic Preservation. Accessed August 7, 2023. <https://wisaard.dahp.wa.gov/Resource/707471/PropertyInventory/1632594>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2023f. Property ID: 724941 Machine Shed. Washington Department of Archaeology and Historic Preservation. Accessed August 7, 2023. <https://wisaard.dahp.wa.gov/Resource/707473/PropertyInventory/1632596>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2023g. Property ID: 724942 Grain Elevator and Grain Storage Silos. Washington Department of Archaeology and Historic Preservation. Accessed August 7, 2023. <https://wisaard.dahp.wa.gov/Resource/707474/PropertyInventory/1632597>.

### ***Section 3.10 – Visual Aspects, Light and Glare***

- Benton County. 2020. 2017 Benton County Comprehensive Plan, Adopted February 13, 2018, Updated January 14, 2020, Accessed September 25, 2022. <https://www.co.benton.wa.us/files/documents/2017ComprehensivePlanJanuary2020129055548061620PM.pdf>.
- BLM (Bureau of Land Management). 1986. Visual Resource Contrast Rating. BLM Manual 8431. Accessed February 8, 2022. [https://blmwyomingvisual.anl.gov/docs/BLM\\_VCR\\_8431.pdf](https://blmwyomingvisual.anl.gov/docs/BLM_VCR_8431.pdf).
- BLM (Bureau of Land Management). Not dated. Horse Heaven Hills Recreation Map. Accessed February 8, 2022. <https://www.blm.gov/sites/blm.gov/files/orwa-horse-heaven-hills-map.pdf>.

- CESA (Clean Energy States Alliance). 2011. A Visual Impact Assessment Process for Wind Energy Projects. Accessed February 8, 2022. <https://www.cesa.org/assets/2011-Files/States-Advancing-Wind-2/CESA-Visual-Impacts-Methodology-May2011.pdf>.
- CIE (Commission Internationale de l'Eclairage). 1997. Technical Report: Guidelines for Minimizing Sky Glow. Vienna, Austria: Commission Internationale de l'Eclairage Report No.: CIE 126: 1997, ISBN 978 3 900734 83 1.
- CIE (Commission Internationale de l'Eclairage). 2017. Technical Report: Guide on the Limitation of the Effects of Obtrusive Light from Outdoor Installations 2<sup>nd</sup> Edition. Vienna, Austria: Commission Internationale de l'Eclairage Report No.: CIE 150: 2017, ISBN 978-3-902842-48-0.
- EPA (U.S. Environmental Protection Agency). 2010. Level III and IV Ecoregions of Washington. Accessed February 8, 2022. [https://gaftp.epa.gov/EPADDataCommons/ORD/Ecoregions/wa/wa\\_eco.pdf](https://gaftp.epa.gov/EPADDataCommons/ORD/Ecoregions/wa/wa_eco.pdf).
- FAA (Federal Aviation Administration). 2010. Technical Guidance for Evaluating Selected Solar Technologies on Airports. Office of Airports, Office of Airport Planning and Programming, Airport Planning and Environmental Division (APP-400). November.
- FAA (Federal Aviation Administration). 2018. Advisory Circular No. 70/7460-1L, Obstruction Marking and Lighting, August 17, 2018.
- FAA (Federal Aviation Administration). 2020. Notice Criteria Tool hosted by Federal Aviation Administration. Accessed March 2, 2022. <https://oeaaa.faa.gov/oeaaa/external/gisTools/gisAction.jsp?action=showNoNoticeRequiredToolForm>.
- ForgeSolar. Not dated. About Glint & Glare. Accessed July 25, 2023. <https://www.forgesolar.com/help/>.
- House Bill: Reducing light pollution associated with certain energy infrastructure. HB 1173. Washington State. (2023).
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Lampeter, R. 2011. "Shadow Flicker Regulations and Guidance: New England and Beyond." New England Wind Energy Education Project, Webinar #5, , February 10, 2011.
- McGlinchey, D., and S. T. Caporossi. 2013. A Guide to Drafting Wind Turbine Regulations. Accessed September 15, 2022. [https://www.manomet.org/wp-content/uploads/old-files/GuideToDraftingWindTurbineRegulations\\_Manomet\\_September2013.pdf](https://www.manomet.org/wp-content/uploads/old-files/GuideToDraftingWindTurbineRegulations_Manomet_September2013.pdf) .
- NCSL (National Conference of State Legislatures). 2022. State Shut Out Light Pollution. Accessed May 5, 2022. <https://www.ncsl.org/research/environment-and-natural-resources/states-shut-out-light-pollution.aspx>.
- NPS (National Park Service). 2014. Ice Age Floods National Geologic Trail Foundation Statement. Accessed February 8, 2022. [https://www.nps.gov/iafl/learn/management/upload/IAFL\\_FD\\_2014-508s.pdf](https://www.nps.gov/iafl/learn/management/upload/IAFL_FD_2014-508s.pdf).

Sullivan, R. G., L. B. Kirchler, T. Lahti, S. Roché, K. Beckman, B. Cantwell, and P. Richmond. 2012. Wind Turbine Visibility and Visual Impact Threshold Distances in Western Landscapes. Accessed February 8, 2022. <https://blmwyomingvisual.anl.gov/docs/WindVITD.pdf>.

SWCA (SWCA Environmental Consultants). 2023. Updated Horse Heaven Wind Farm Project Visual Impact Assessment Report. July 2023.

### **Section 3.11 – Noise and Vibration**

Benton County. 2021. Codes, Plans and Policies. Accessed November 11, 2021. <https://www.co.benton.wa.us/pview.aspx?id=20971&catid=0>.

FTA (Federal Transit Administration). 2018. Transit Noise and Vibration Impact Assessment Manual, September 2018. [https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123\\_0.pdf](https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf).

González-Hurtado, J., Pengpeng, H. Hanping, M. Postman, S. Molnar, and T. Newson. 2017. Field Monitoring and Analysis of an Onshore Wind Turbine Shallow Foundation System. Conference Paper, GeoOttawa 2017, 70th Canadian Geotechnical Conference University, London, Ontario, Canada. Accessed March 23, 2023. [https://www.researchgate.net/publication/320234092\\_Field\\_monitoring\\_and\\_analysis\\_of\\_an\\_onshore\\_wind\\_turbine\\_shallow\\_foundation\\_system](https://www.researchgate.net/publication/320234092_Field_monitoring_and_analysis_of_an_onshore_wind_turbine_shallow_foundation_system).

Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

Møller, H., and Pedersen, C. S. 2011. Low-frequency Noise from Large Wind Turbines. *Journal of the Acoustical Society of America*. Accessed March 23, 2023. <https://pubmed.ncbi.nlm.nih.gov/21682397/>.

### **Section 3.12 – Recreation**

Benton County. 2022a. 2017 Benton County Comprehensive Plan, Adopted February 13, 2018, Updated April 2022. Accessed May 31, 2022. <https://www.co.benton.wa.us/pview.aspx?id=1425&catid=0>.

Benton County. 2022b. Six-Year Transportation Improvement Program. Assessed May 16, 2022. <https://www.co.benton.wa.us/pview.aspx?id=10589&catid=0>.

Benton County. Not dated. Our Parks. County of Benton, Washington. Accessed June 6, 2023. <https://www.co.benton.wa.us/pview.aspx?id=55234&catid=45>.

BLM (Bureau of Land Management). Not dated. Juniper Dunes OHV Area. Accessed November 30, 2021. <https://www.blm.gov/visit/juniper-dunes-wilderness>.

DNR (Washington State Department of Natural Resources). 2023. Recreation. Accessed November 30, 2021. <https://www.dnr.wa.gov/recreation>.

Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

IAFI (Ice Age Floods Institute). 2021. Ice Age Floods National Geologic Trail. Accessed November 30, 2021. <https://www.nps.gov/iafi/index.htm>.

- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Horse Heaven Wind Farm, LLC. 2023. Personal communication (email) from D. Kobus, Senior Project Manager, Horse Heaven Wind Farm, LLC to Amy Moon, Compliance Lead, EFSEC. August 16, 2023.
- NPS (National Park Service). 2014. Ice Age Floods National Geologic Trail Foundation Statement. Accessed November 30, 2021. [https://www.nps.gov/iafl/learn/management/upload/IAFL\\_FD\\_2014-508s.pdf](https://www.nps.gov/iafl/learn/management/upload/IAFL_FD_2014-508s.pdf).
- ODFW (Oregon Department of Fish and Wildlife). 2008. Columbia Basin Wildlife Areas Management Plan. Accessed November 30, 2021. [https://www.dfw.state.or.us/wildlife/management\\_plans/wildlife\\_areas/docs/columbia\\_basin.pdf](https://www.dfw.state.or.us/wildlife/management_plans/wildlife_areas/docs/columbia_basin.pdf).
- ODFW (Oregon Department of Fish and Wildlife). 2022. Visit ODFW Wildlife Areas. Accessed November 30, 2021. <https://myodfw.com/visit-odfw-wildlife-areas>.
- OSP (Oregon State Parks). 2022. Hat Rock State Park. <https://stateparks.oregon.gov/index.cfm?do=park.profile&parkId=12>.
- Paragliding Forum. Not dated. Leonardo: The Global Flight Database. Takeoffs from Kiona. <https://www.paraglidingforum.com/leonardo/page/filter>.
- Smith, Steve. 2021. Email correspondence between Steve Smith – BLM Spokane Office, Outdoor Recreation Planner and Rachel Katz – Tetra Tech, Environmental Planner. July 26, 2021.
- USACE (U.S. Army Corps of Engineers). Not dated (a). Fishhook Park. Accessed November 30, 2021. <https://www.nww.usace.army.mil/Missions/Recreation/Ice-Harbor-Dam-Lake-Sacajawea/Fishhook-Park/>.
- USACE (U.S. Army Corps of Engineers). Not dated (b). Charbonneau Park. Accessed November 30, 2021. <https://www.nww.usace.army.mil/Missions/Recreation/Ice-Harbor-Dam-Lake-Sacajawea/Charbonneau/>.
- USACE (U.S. Army Corps of Engineers). Not dated (c). Walla Walla District - Recreation. Accessed July 5, 2023. <https://www.nww.usace.army.mil/Missions/Recreation/McNary-Dam-and-Lake-Wallula/Sand-Station-Recreation-Area-Lake-Wallula/>.
- USACE (U.S. Army Corps of Engineers). Not dated (d). Hood Park. Accessed November 30, 2021. <https://www.nww.usace.army.mil/Missions/Recreation/McNary-Dam-and-Lake-Wallula/Hood-Park/>.
- USFWS (U.S. Fish and Wildlife Service). Not dated (a). Hanford Reach National Monument. Accessed June 6, 2023. <https://www.fws.gov/national-monument/hanford-reach>.
- USFWS (U.S. Fish and Wildlife Service). Not dated (b). Cold Springs National Wildlife Refuge. Accessed June 6, 2023. <https://www.fws.gov/refuge/cold-springs>.
- USFWS (U.S. Fish and Wildlife Service). Not dated (c). Umatilla National Wildlife Refuge. Accessed June 6, 2023. <https://www.fws.gov/refuge/umatilla>.
- USFWS (U.S. Fish and Wildlife Service). Not dated (d). McNary National Wildlife Refuge. Accessed June 6, 2023. <https://www.fws.gov/refuge/mcnary>.



Washington State Parks. Not dated (a). Sacajawea Historical State Park. Accessed November 30, 2021. <https://parks.state.wa.us/575/Sacajawea>.

Washington State Parks. Not dated (b). Reservation Seasons. Accessed November 30, 2021. <https://parks.state.wa.us/233/Reservation-seasons>.

### **Section 3.13 – Public Health and Safety**

Benton County, Washington. Not dated. Official website accessed December 2021: <https://www.co.benton.wa.us/default.aspx>.

Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

Northwest Management, Inc. 2019. Benton County, Washington Natural Hazard Mitigation Plan 2019 Revision. Prepared for Benton County Emergency Management by Northwest Management Inc. Accessed July 14, 2023. <https://www.co.benton.wa.us/files/documents/FinalCPAppendixNBentonCountyNaturalHazardMitigationPlan2019129055838061620PM.pdf>.

### **Section 3.14 – Transportation**

Benton County. 2021. 2022 – 2027 Six-Year Road Program. Accessed February 14, 2022. <https://www.co.benton.wa.us/files/documents/2022-2027Six-YearRoadProgram1349042210110521PM.pdf>

Benton County. 2022. 2017 Benton County Comprehensive Plan, Adopted February 13, 2018, Updated April 2022. Accessed May 31, 2022. <https://www.co.benton.wa.us/pview.aspx?id=1425&catid=0>.

County of Benton. Not dated. WSDOT Collision Data Jan 2011-2021. Accessed January 31, 2022. <https://www.arcgis.com/apps/dashboards/017157c427134493852c26b0ad4a6daa>.

Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.

Kennewick Washington. Not dated. School Zones. Accessed January 20, 2022. <https://www.go2kennewick.com/362/School-Zones>.

Port of Benton. Not dated. Our History. Accessed: October 10, 2023. <https://portofbenton.com/about-the-port/our-history/>.

Port of Kalama. 2022. Discover the Port of Kalama. Accessed October 10, 2023. <https://portofkalama.com/discover-the-port/>.

Port of Kennewick. 2022. Marina. Accessed: October 10, 2023. <https://www.portofkennewick.org/marina/>.

Port of Longview. Not dated. About. Accessed: February 10, 2022. <https://www.portoflongview.com/27/About>.

- Port of Pasco. 2022. Port of Pasco History. Accessed: January 20, 2022. <https://www.portofpasco.org/about-us/port-of-pasco-history>.
- Port of Vancouver USA. 2023. About. Accessed: October 10, 2023. <https://www.portvanusa.com/about/>.
- TRB (Transportation Research Board). 2016. Highway Capacity Manual, Sixth Edition: A Guide for Multimodal Mobility Analysis. Transportation Research Board: Washington, D.C.
- USACE (U.S. Army Corps of Engineers). Not dated. Navigation. Accessed October 24, 2023. <https://www.iwr.usace.army.mil/Missions/Coasts/Tales-of-the-Coast/Corps-and-the-Coast/Navigation/>.
- USDOT (U.S. Department of Transportation). Not dated. FRA – Safety Map. Accessed January 20, 2022. <https://fragis.fra.dot.gov/GISFRASafety/>.
- UTC (Utilities and Transportation Commission). 2022. Crossing Accidents – UTC Database Records for the Calendar Year 2021. Provided via email by the Washington Energy Facility Site Evaluation Council to WSP USA, Inc., on May 12 2022.
- Washington Ports. Not dated. Washington Public Ports Association. Accessed January 20, 2022. <https://www.washingtonports.org/>.
- WSDOT (Washington State Department of Transportation). 2017. 2017 Washington State Freight System Plan. Accessed: January 31, 2022. <https://wsdot.wa.gov/publications/fulltext/freight/Freight-Plan-2017SystemPlan.pdf>.
- WSDOT (Washington State Department of Transportation). 2020. Washington State Rail Plan 2019-2020. Accessed January 20, 2022. <https://wsdot.wa.gov/sites/default/files/2021-10/2019-2040-State-Rail-Plan.pdf>.
- WSDOT (Washington State Department of Transportation). 2021a. Washington State Freight and Goods Transportation System (FGTS) 2021 Update. Accessed January 4, 2022. <https://wsdot.wa.gov/sites/default/files/2021-12/2021-FGTS-update.pdf>.
- WSDOT (Washington State Department of Transportation). 2021b. WSDOT Freight Transportation System in WA. Accessed: January 31, 2022. <https://wsdot.maps.arcgis.com/apps/webappviewer/index.html?id=0e37044a459244d9b6414826b46e8c46>.
- WSDOT (Washington State Department of Transportation). 2021c. WSDOT Level of Service Standard for State Routes. Accessed: January 4, 2022. [https://geo.wa.gov/datasets/eb303de2bb4a4fc38c86195cdec03e4f\\_0?geometry=-121.240%2C45.767%2C-117.870%2C46.433](https://geo.wa.gov/datasets/eb303de2bb4a4fc38c86195cdec03e4f_0?geometry=-121.240%2C45.767%2C-117.870%2C46.433).
- Section 3.15 – Public Services and Utilities**
- Benton County. Not dated. Construction Waste. Accessed January 3, 2022. <https://www.co.benton.wa.us/pview.aspx?id=9683&catID=0>.
- Benton County. 2014. 2013 Update Benton County Solid Waste and Moderate Risk Waste Plan – Final Draft. Accessed January 3, 2022. <https://www.co.benton.wa.us/files/documents/document133022317111714.pdf>.

- Benton County. 2022. 2017 Benton County Comprehensive Plan, Updated April 2022, Adopted February 13, 2018. Amendments adopted by resolution January 14, 2020. Accessed November 3, 2021. <https://co.benton.wa.us/pview.aspx?id=1425&catID=0&msclid=16257c49af7a11ecba7ce7f595ff9205>.
- Benton-Franklin Health District. 2021. On-Site Sewage. Accessed January 3, 2022. [https://www.bfhd.wa.gov/programs\\_services/waste\\_disposal/on-site\\_sewage](https://www.bfhd.wa.gov/programs_services/waste_disposal/on-site_sewage).
- City of Kennewick. 2017. Water Comprehensive Plan. February 2017. Accessed November 17, 2021. <https://www.go2kennewick.com/DocumentCenter/View/9775/2017-Water-Comp-Plan?bidId=> .
- City of Richland, Washington. 2017. Request for Proposal (RFP) Title: Horn Rapids Landfill Gas-to-Fuel Project. Accessed January 3, 2022. [https://www.epa.gov/sites/default/files/2019-05/documents/lfg\\_rfp\\_online\\_submittal\\_final.pdf](https://www.epa.gov/sites/default/files/2019-05/documents/lfg_rfp_online_submittal_final.pdf).
- City of Richland, Washington. 2022. Horn Rapids Landfill. Accessed January 20, 2022. <https://www.ci.richland.wa.us/departments/public-works/solid-waste-utility/horn-rapids-landfill>.
- Clark County, Washington. 2015. Clark County Solid Waste Management Plan 2015. Accessed January 3, 2022. <https://clark.wa.gov/public-health/solid-waste-management-plan>.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Waste Management. 2019. Columbia Ridge Landfill and Green Energy Plant. Accessed January 3, 2022. <https://www.wmnorthwest.com/landfill/pdf/columbiaridge.pdf>.

### **Section 3.16 – Socioeconomics**

- BEA (U.S. Bureau of Economic Analysis). 2022a. Regional Data GDP and Personal Income. Employment by County, Metro, and Other Areas – 2020 Data. CAEMP25N Total Full-Time and Part-Time Employment by NAICS Industry 1. Accessed January 27, 2022. <https://apps.bea.gov/iTable/iTable.cfm?reqid=70&step=1&acrnd=6>.
- BEA (U.S. Bureau of Economic Analysis). 2022b. Regional Data GDP and Personal Income. Employment by State – 2020 Data. SAEMP25N Total Full-Time and Part-Time Employment by NAICS Industry 1/. Accessed January 27, 2022. <https://apps.bea.gov/iTable/iTable.cfm?reqid=70&step=1&acrnd=4>.
- Benton County. 2021. Benton County Taxes for the Year 2021. Accessed February 4, 2022. <https://www.co.benton.wa.us/files/documents/2021TaxBooklet211015652021121PM.pdf>.
- Benton County. 2022. Benton County 2017 Comprehensive Plan. Updated June 2021, Adopted on February 13, 2018. Amendments adopted by resolution January 14, 2020. Accessed November 3, 2021. <https://www.co.benton.wa.us/pview.aspx?id=1425&catid=0>.
- BFCOG (Benton-Franklin Council of Governments). 2021. 2021–2025 Comprehensive Economic Development Strategy (CEDS). Accessed January 25, 2022. <https://static1.squarespace.com/static/60f0b327ca36d35991be43b4/t/621030d2c3789179e1fd605f/1645228252569/2021-CEDS-DRAFT-FINAL-26OCT21.pdf>.

- CEQ (Council on Environmental Quality). 1997. Environmental Justice Guidance Under the National Environmental Policy Act. Accessed February 22, 2022. [https://www.energy.gov/sites/default/files/nepapub/nepa\\_documents/RedDont/G-CEQ-EJGuidance.pdf](https://www.energy.gov/sites/default/files/nepapub/nepa_documents/RedDont/G-CEQ-EJGuidance.pdf).
- ECONorthwest. 2018. Columbia Point South – High-Level Feasibility Analysis. Prepared for the Port of Benton. March 26. Accessed March 1, 2022. <https://www.ci.richland.wa.us/Home/ShowDocument?id=7614>.
- EPA (U.S. Environmental Protection Agency). 2016. Technical Guidance for Assessing Environmental Justice in Regulatory Analysis. Accessed March 2, 2022. [https://www.epa.gov/sites/default/files/2016-06/documents/ejtg\\_5\\_6\\_16\\_v5.1.pdf](https://www.epa.gov/sites/default/files/2016-06/documents/ejtg_5_6_16_v5.1.pdf).
- EPA (U.S. Environmental Protection Agency). 2022. EJScreen: Environmental Justice Screening and Mapping Tool. Access October 16, 2023. <https://www.epa.gov/ejscreen>.
- Hoen, B. and Atkinson-Palombo, C. 2016. “Wind Turbines, Amenities and Disamenities: A Study of Home Value Impacts in Densely Populated Massachusetts.” Lawrence Berkeley National Laboratory: Berkeley, California. Mark Thayer Direct Testimony, Exhibit 12. <https://puc.sd.gov/commission/dockets/electric/2017/el17-055/exhibit13.pdf>.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Municipal Research and Services Center. 2022. Sales and Use Taxes in Washington State. Accessed February 4, 2022. [https://mrsc.org/explore-topics/finance/revenues/sales-and-use-taxes#:~:text=just%20over%20%2425.\)-.6.5%25%20State%20Sales%20Tax,sales%20taxes%20as%20described%20below](https://mrsc.org/explore-topics/finance/revenues/sales-and-use-taxes#:~:text=just%20over%20%2425.)-.6.5%25%20State%20Sales%20Tax,sales%20taxes%20as%20described%20below).
- NCES (National Center for Educational Statistics). n.d. [a]. Table 2. Number of Operating Public Schools and Districts, Student Membership, Teachers, and Pupil/Teacher Ratio, by State or Jurisdiction: School Year 2019–20. Accessed January 31, 2022. [https://nces.ed.gov/ccd/tables/201920\\_summary\\_2.asp](https://nces.ed.gov/ccd/tables/201920_summary_2.asp).
- NCES (National Center for Educational Statistics). n.d. [b]. District Details (2021–2022 school year; Accessed August 11, 2023. <https://nces.ed.gov/ccd/districtsearch/index.asp?ID2=5309450>.
- OFM (Office of Financial Management). n.d. [a]. Population Change: Natural Increase and Net Migration. Accessed February 16, 2022. Table Reviewed February 16, 2022. <https://ofm.wa.gov/washington-data-research/statewide-data/washington-trends/population-changes/population-change-natural-increase-and-net-migration>.
- OFM (Office of Financial Management). n.d. [b]. April 1 Official Population Estimates (Revised November 30, 2021). Accessed January 18, 2022. Table Reviewed February 16, 2022. <https://ofm.wa.gov/washington-data-research/population-demographics/population-estimates/april-1-official-population-estimates>.
- OFM (Office of Financial Management). n.d. [c]. Growth Management Act population projections for counties: 2010 to 2040. Accessed January 19, 2022. Table Reviewed February 16, 2022. <https://ofm.wa.gov/washington-data-research/population-demographics/population-forecasts-and-projections/growth-management-act-county-projections/growth-management-act-population-projections-counties-2010-2040-0>.

- OFM (Office of Financial Management). n.d. [d]. Population Density. Accessed January 18, 2022. Table Reviewed February 16, 2022. <https://ofm.wa.gov/washington-data-research/population-demographics/population-estimates/population-density>.
- OFM (Office of Financial Management). n.d. [e]. Components of Population Change. Accessed January 18, 2022. Table Reviewed February 16, 2022. <https://ofm.wa.gov/washington-data-research/population-demographics/population-estimates/components-population-change>.
- OFM (Office of Financial Management). n.d. [f]. Historical Estimates of April 1 Population and Housing for the State, Counties, and Cities. Accessed February 16, 2022. <https://ofm.wa.gov/washington-data-research/population-demographics/population-estimates/historical-estimates-april-1-population-and-housing-state-counties-and-cities>.
- State of Washington Legislature. 2019. State of Washington 66th Legislature 2019 Regular Session. Accessed September 27, 2023. <http://lawfilesex.leg.wa.gov/biennium/2019-20/Pdf/Bills/Session%20Laws/Senate/5116-S2.SL.pdf?q=20210822161309>.
- U.S. Census Bureau (United States Census Bureau). 2020a. Metropolitan and Micropolitan - About. Last Revised November 22, 2021. Accessed March 11, 2022. <https://www.census.gov/programs-surveys/metro-micro/about.html>.
- U.S. Census Bureau (United States Census Bureau). 2020b. 2019 American Community Survey 5-Year Estimates Subject Tables. Table Created January 24, 2022. [https://data.census.gov/cedsci/table?q=0400000US53\\_0500000US53005,53021,53071,53077\\_1600000US5305560,5314485,5334575,5335275,5345180,5353545,5356450,5358235,5377665&d=ACS%205-Year%20Estimates%20Subject%20Tables&tid=ACSS5Y2019.S1901](https://data.census.gov/cedsci/table?q=0400000US53_0500000US53005,53021,53071,53077_1600000US5305560,5314485,5334575,5335275,5345180,5353545,5356450,5358235,5377665&d=ACS%205-Year%20Estimates%20Subject%20Tables&tid=ACSS5Y2019.S1901). [https://data.census.gov/cedsci/table?t=Housing%20Units%3AVacancy&g=0400000US53\\_0500000US53005,53021,53071,53077\\_1600000US5305560,5314485,5334575,5335275,5345180,5353545,5356450,5358235,5377665&tid=ACSCP5Y2019.CP04](https://data.census.gov/cedsci/table?t=Housing%20Units%3AVacancy&g=0400000US53_0500000US53005,53021,53071,53077_1600000US5305560,5314485,5334575,5335275,5345180,5353545,5356450,5358235,5377665&tid=ACSCP5Y2019.CP04).
- U.S. Census Bureau (United States Census Bureau). 2020c. 2019 American Community Survey 1-Year Estimates Subject Tables. Table Created January 24, 2022. [https://data.census.gov/table?q=160XX00US5314485,5353545,5345180,5334575,5358235,5377665,5305560,5335275,5356450\\_050XX00US53071,53005,53077,53021\\_040XX00US53&tid=ACSST1Y2019.S2502](https://data.census.gov/table?q=160XX00US5314485,5353545,5345180,5334575,5358235,5377665,5305560,5335275,5356450_050XX00US53071,53005,53077,53021_040XX00US53&tid=ACSST1Y2019.S2502).
- U.S. Census Bureau (United States Census Bureau). 2021. 2020 Decennial Census. Explore Census Data – Advance Search – Geography. Table Created January 21, 2022. [https://data.census.gov/cedsci/table?q=0400000US53\\_0500000US53005,53021,53071,53077\\_1600000US5305560,5314485,5334575,5335275,5345180,5353545,5356450,5358235,5377665&tid=DECENNIALPL2020.P2](https://data.census.gov/cedsci/table?q=0400000US53_0500000US53005,53021,53071,53077_1600000US5305560,5314485,5334575,5335275,5345180,5353545,5356450,5358235,5377665&tid=DECENNIALPL2020.P2).
- U.S. Census Bureau (United States Census Bureau). 2022. Glossary. Accessed September 28, 2023. <https://www.census.gov/programs-surveys/geography/about/glossary.html>.
- Washington State Auditor. 2020a. Financial Statements and Federal Single Audit Report Benton County For the period January 1, 2019 through December 31, 2019. Accessed January 28, 2022. <https://portal.sao.wa.gov/ReportSearch/Home/ViewReportFile?arn=1027196&isFinding=false&sp=false>.

- Washington State Auditor. 2020b. Financial Statements and Federal Single Audit Report Franklin County For the period January 1, 2019 through December 31, 2019. Accessed January 28, 2022. <https://portal.sao.wa.gov/ReportSearch/Home/ViewReportFile?arn=1027552&isFinding=false&sp=false>.
- Washington State Auditor. 2020c. Financial Statements and Federal Single Audit Report Walla Walla County For the period January 1, 2019 through December 31, 2019. Accessed January 28, 2022. <https://portal.sao.wa.gov/ReportSearch/Home/ViewReportFile?arn=1027421&isFinding=false&sp=false>.
- Washington State Auditor. 2020d. Financial Statements and Federal Single Audit Report Yakima County for the Period January 1, 2020, through December 31, 2020. Accessed January 28, 2022. <https://portal.sao.wa.gov/ReportSearch/Home/ViewReportFile?arn=1029066&isFinding=false&sp=false>.
- Washington State Department of Revenue. 2021. Local Sales & Use Tax Rates and Changes. November 5, 2021. Accessed February 4, 2022. [https://dor.wa.gov/sites/default/files/legacy/Docs/forms/Excstx/LocSalUseTx/LSUFlyer\\_22\\_Q1.pdf](https://dor.wa.gov/sites/default/files/legacy/Docs/forms/Excstx/LocSalUseTx/LSUFlyer_22_Q1.pdf).
- Washington State Superintendent of Public Education. n.d.[a] Percentage Poverty for the 2020/2021 school year. Accessed September 14, 2023. <https://ospi.k12.wa.us/data-reporting/data-portal>.
- Washington Office State Superintendent of Public Education. n.d.[b]. Oct. 1 County of Students by District with Grade, Race, Ethnicity and Gender 2016/2017 school year. Accessed September 15, 2023. <https://ospi.k12.wa.us/data-reporting/data-portal>.
- ## 6.5 Chapter 4 – Impacts and Mitigation Measures
- ### Section 4.2 – Earth Resources
- Benton County. 2019. Benton County, Washington Natural Hazard Mitigation Plan 2019 Revision. Accessed December 13, 2021. <https://www.ci.benton-city.wa.us/files/documents/document1641113110081619.pdf>.
- Dehghani-Sanij, A. R., E. Tharumalingam, M. B. Dusseault, and R. Fraser. 2019. Study of Energy Storage Systems and Environmental Challenges of Batteries. *Renewable and Sustainable Energy Reviews*. 104:192–208. Accessed May 22, 2023. <https://www.sciencedirect.com/science/article/abs/pii/S1364032119300334>
- GFZ (GFZ German Research Centre for Geosciences). 2017. Report – Volcanic Ash May Harm Solar Panels. Accessed February 1, 2022. <https://www.gfz-potsdam.de/en/press/news/details/report-volcanic-ash-may-harm-solar-panels>
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.
- Westwood Professional Services. 2020. Preliminary Geotechnical Investigation Report – Horse Heaven Wind Project. June 5, 2020.

### **Section 4.3 – Air Quality**

- Ecology (Washington State Department of Ecology). 2020. 2017 Washington Comprehensive Emissions Inventory. Accessed December 15, 2021. <https://apps.ecology.wa.gov/publications/SummaryPages/2002012.html>.
- Ecology (Washington State Department of Ecology). Not dated. Washington's Greenhouse Gas Inventory. Accessed December 15, 2021. <https://ecology.wa.gov/Air-Climate/Climate-change/Tracking-greenhouse-gases/Greenhouse-gas-reporting/Inventories>.
- EIA (U.S. Energy Information Administration). 2023. Washington State Profile and Energy Estimates, March 16, 2023. Accessed July 24, 2023. <https://www.eia.gov/state/print.php?sid=WA>
- EPA (U.S. Department of Environmental Protection). 2011. Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO<sub>2</sub> National Ambient Air Quality Standard. Memorandum (March 1, 2011). Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.
- EPA (U.S. Department of Environmental Protection). 2016a. User's Guide for the AMS/EPA Regulatory Model (AERMOD) and Addendums. EPA-454/B-16-011 (December 2016). Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.
- EPA (U.S. Department of Environmental Protection). 2016b. Direct Emissions from Mobile Combustion Sources, U.S. EPA Center for Corporate Leadership – Greenhouse Gas Inventory Guidance, EPA 430-K-16-004, January 2016.
- EPA (U.S. Department of Environmental Protection). 2017. Guideline on Air Quality Models (82 FR 5182). Codified in Appendix W to 40 Code of Federal Regulations Part 51. Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina. January 17, 2017.
- EPA (U.S. Department of Environmental Protection). 2021a. Latest Version of Motor Vehicle Emission Simulator (MOVES). Accessed December 15, 2021. <https://www.epa.gov/moves/latest-version-motor-vehicle-emission-simulator-moves>.
- EPA (U.S. Department of Environmental Protection). 2021b. Compilation of Air Pollutant Emissions Factors (AP-42). Accessed December 15, 2021. <https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emissions-factors>.
- ERG (Eastern Research Group). 2003. Documentation for Aircraft, Commercial Marine Vessel, Locomotive, and Other Nonroad Components of the National Emissions Inventory, Volume I - Methodology, October 7, 2003.
- Horse Heaven Wind Farm, LLC 2021. Response to Data Request No. 2; AIR-1 through AIR-13. Submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 222.

Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023

NSSGA (National Stone Sand and Gravel Association) 2007. Modeling Fugitive Dust Sources with AERMOD, January 2007.

NREL (National Renewable Energy Laboratory). 2021. Life Cycle Greenhouse Gas Emissions from Electricity Generation: Update, NREL/FS-6A50-80580, September 2021. Accessed July 24, 2023.  
<https://www.nrel.gov/docs/fy21osti/80580.pdf>.

Tetra Tech. 2023. Air Quality Dispersion Modeling Evaluation, Horse Heaven Wind Farm Concrete Batch Plant and Stationary Engines, Benton County, Washington, June.

WSU (Washington State University). 2017. The Tri-Cities Ozone Precursor Study (T-COPS) Final Report.

#### **Section 4.4 – Water Resources**

API (American Petroleum Institute). 2016. Options for Minimizing Environmental Impacts of Inland Spill Response. API Technical Report 425. October 2016.

Aruntas, H.Y., E. Nalli, and G. Kaplan. 2022. Usage of ready-mixed concrete plant wastewater in concrete with superplasticizer: Effect on physico-mechanical properties. Construction and Building Materials. Volume 348. 19 September 2022.

Benton County. 2018. Benton County Code. Accessed January 21, 2022.  
<https://www.co.benton.wa.us/pview.aspx?id=20971&catid=0>

Centre for Watershed Protection. 2003. Impacts of Impervious Cover on Aquatic Ecosystems. Watershed Protection Research Monograph No. 1. March 2003.  
[https://clear.uconn.edu/projects/TMDL/library/papers/Schueler\\_2003.pdf](https://clear.uconn.edu/projects/TMDL/library/papers/Schueler_2003.pdf)

Cook, L. M. and R.H. McCuen. 2013. Hydrologic Response of Solar Farms. Journal of Hydrologic Engineering 18(5):536–541.

Ecology (Washington State Department of Ecology). 1999. Sand and Gravel General Permit – Portable Facilities, Monitoring Plan, Employee Training, Stormwater Pollution Prevention Plan, Erosion and Sediment Control Plan, Spill Plan. November 1999. Publication Number 99-30. Accessed January 19, 2022.  
<https://apps.ecology.wa.gov/publications/documents/9930.pdf>

Ecology (Washington State Department of Ecology). 2005. Critical Aquifer Recharge Areas Guidance Document. January 2005. Publication Number 05-10-028. Accessed January 19, 2022.  
<https://apps.ecology.wa.gov/publications/parts/0510028part2.pdf>

Ecology (Washington State Department of Ecology). 2019. Stormwater Management Manual for Eastern Washington. Publication Number 18-10-044. August 2019. Accessed January 19, 2022.  
[https://fortress.wa.gov/ecy/ezshare/wq/Permits/Flare/2019SWMMEW/Content/Resources/DocsForDownload/2019SWMMEW\\_8-13-19.pdf](https://fortress.wa.gov/ecy/ezshare/wq/Permits/Flare/2019SWMMEW/Content/Resources/DocsForDownload/2019SWMMEW_8-13-19.pdf)

EPA (United States Environmental Protection Agency). 2006. Spill Prevention, Control and Countermeasures (SPCC) Rule Amendment Option for Qualified Oil-filled Operational Equipment. 1 p.



- EPA. 2023. pH. Accessed October 16, 2023. <https://www.epa.gov/caddis-vol2/ph#tab-b>.
- FEMA (Federal Emergency Management Agency). 2020. Benefits of Natural Floodplains. Accessed January 20, 2022. <https://www.fema.gov/floodplain-management/wildlife-conservation/benefits-natural#:~:text=Natural%20floodplains%20provide%20flood%20risk,runoff%20and%20storing%20flood%20water.&text=Floodplains%20frequently%20contain%20wetlands%20and,quality%20of%20the%20local%20environment>.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification. EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Horse Heaven Wind Farm, LLC. 2023a. Response from the Applicant to Data Request No.7; DEIS 1 submitted to Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification. EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2023b. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.
- Hruby, T. 2014. Washington State Wetland Rating System for Eastern Washington 2014 Update. SEA Program, Washington State Department of Ecology. Olympia, Washington.
- Keestra, S. D., V. Geissen, K. Mosse, S. Piirainen, E. Scudiero, M. Leistra, and L. van Schiak. 2012. Soil As a Filter for Groundwater Quality. *Current Opinion in Environmental Sustainability* 4(5):507–516.
- Levick, L., J. Fonseca, D. Goodrich, M. Hernandez, D. Semmens, J. Stromberg, R. Leidy, M. Scianni, D.P. Guertin, M. Tluczek, and W. Kepner. 2008. The Ecological and Hydrological Significance of Ephemeral and Intermittent Streams in the Arid and Semi-arid American Southwest. U.S. Environmental Protection Agency and USFA/ARS Southwest Watershed Research Center, [https://www.epa.gov/sites/default/files/2015-03/documents/ephemeral\\_streams\\_report\\_final\\_508-kepner.pdf](https://www.epa.gov/sites/default/files/2015-03/documents/ephemeral_streams_report_final_508-kepner.pdf)
- Nadeau, T. 2015. Streamflow Duration Assessment Method for the Pacific Northwest. EPA 910-K-14-001, U.S. Environmental Protection Agency, Region 10, Seattle, Washington.
- Ritter, J. 2012. Soil Erosion – Causes and Effects. Ontario Ministry of Agriculture, Food, and Rural Affairs.
- Suchara, I. 2018. The Impact of Floods on the Structure and Functional Processes of Floodplain Ecosystems. *Journal of Soil and Plant Biology* 2019(1):44–60.
- Sugiarta, N., I. G. N. Ardana, I. M. Sugina, I. B. G. Widianara, I. N. Suparta, and I. K. Adi. 2019. Preliminary Design and Test of a Water Spray Solar Panel Cleaning System. *Journal of Physics: Conference Series* 1450 012108.
- USDA (U.S. Department of Agriculture). 2009. Culvert Scour Assessment. Prepared by Inter-Fluve Inc. for US Forest Service. Accessed January 19, 2022. [https://www.fs.fed.us/eng/pubs/pdf/CulvertScour/CulvertScourLo/%20Culvert\\_ScourLo.pdf](https://www.fs.fed.us/eng/pubs/pdf/CulvertScour/CulvertScourLo/%20Culvert_ScourLo.pdf)

USDA (U.S. Department of Agriculture). 2012. National Best Management Practices for Water Quality Management on National Forest System Lands. Volume 1: National Core BMP Technical Guide. April 2012.

WDFW (Washington Department of Fish and Wildlife). 2018. Washington Department of Fish and Wildlife Times when Spawning and Incubating Salmonoids are least likely to be within Washington State Freshwaters. June 1, 2018. Accessed January 19, 2022. [https://wdfw.wa.gov/sites/default/files/2019-02/freshwater\\_incubation\\_avoidance\\_times.pdf](https://wdfw.wa.gov/sites/default/files/2019-02/freshwater_incubation_avoidance_times.pdf).

### **Section 4.5 – Vegetation**

Applestein, C., and M.J. Germino. 2021. Detecting Shrub Recovery in Sagebrush Steppe: Comparing Landsat-derived Maps with Field Data on Historical Wildfires. *Fire Ecology* (2021) 17:5.

Farmer, A. M. 1991. The Effects of Dust on Vegetation – A Review. *Environmental Pollution* 79:63–75.

Gleason, S. M., D. T. Faucette, M. M. Toyofuku, C. A. Torres, and C. F. Bagley. 2007. Assessing and Mitigating the Effects of Windblown Soil on Rare and Common Vegetation. *Environment Management* 40:1016–1024.

Hansen, M. J., and A. P. Clevenger. 2005. The Influence of Disturbance and Habitat on the Presence of Non-native Plant Species along Transport Corridors. *Biological Conservation* 125:249–259.

Horse Heaven Wind Farm, LLC. 2021a. Response to Data Request No.2 [Vegetation-1 through Vegetation-22] submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.

Horse Heaven Wind Farm, LLC. 2021b. Response from Tetra Tech to Data Request No.4; DEIS-1 submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.

Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.

Knick, S. T., D. S. Dobkin, J. T. Rotenberry, M. A. Schroeder, W. M. Vander Haegen, and C. van Riper III. 2003. Teetering on the Edge or Too Late? Conservation and Research Issues for Avifauna of Sagebrush Habitats. *The Condor* 105 (4):611634.

Larsen, E., J. M. Azerrad, and N. Nordstorm. 2004. Management Recommendations for Washington's priority species, Volume IV: Birds. Washington Department of Fish and Wildlife, Olympia, Washington, USA.

Moench, R. and J. Fusaro. 2012. Soil Erosion Control after Wildfire. Colorado State University Extension. Fact Sheet No. 6.308. Accessed December 20, 2021. <https://extension.colostate.edu/docs/pubs/natres/06308.pdf>.

- Shriver, R.K., C.M. Andrews, R.S. Arkle, D.M. Barnard, M.C. Duniway, M.J. Germino, D.S. Pilliod, D.A. Pyke, J.L. Welty, and J.B. Bradford. 2019. Transient Population Dynamics Impede Restoration and May Promote Ecosystem Transformation after Disturbance. *Ecology Letters* (2019).
- Stone, D., H. Root, J. Hollinger, R. Rosentreter, A. Chandler, and J. Allen. 2020. *Texosporium sancti-jacobi*, Woven-spore Lichen. The IUCN Red List of Threatened Species. ISSN 2307-8235.
- Sugiartha, N., I. G. N. Ardana, I. M. Sugina, I. B. G. Widianara, I. N. Suparta, and I. K. Adi. 2019. Preliminary Design and Test of a Water Spray Solar Panel Cleaning System. *Journal of Physics: Conference Series* 1450 012108.
- Swift, T.L. and S.J. Hannon. 2010. Critical Thresholds Associated with Habitat Loss: A Review of Concepts, Evidence, and Applications. *Biological Review* 85(1):35–53.
- Tanner, K. E., K. A Moore-O'Leary, I. M. Parker, B. M. Pavlik, R. R. Hernandez. 2020. Simulated Solar Panels Create Altered Microhabitats in Desert Landforms. *Ecosphere* 11(4):e03089.
- USFWS (U. S. Fish and Wildlife Service). 2012. Land-Based Wind Energy Guidelines. March 23, 2012. 82 pp. Accessed January 14, 2022. [http://www.fws.gov/cno/pdf/Energy/2012\\_Wind\\_Energy\\_Guidelines\\_final.pdf](http://www.fws.gov/cno/pdf/Energy/2012_Wind_Energy_Guidelines_final.pdf).
- USFWS (U.S. Fish and Wildlife Service). 2013. Eagle Conservation Plan Guidance: Module 1 - Land-Based Wind Energy, Version 2. U.S. Department of the Interior, Fish and Wildlife Service, Division of Migratory Bird Management. April 2013. Accessed January 14, 2022. <https://www.fws.gov/migratorybirds/pdf/management/eagleconservationplanguidance.pdf>.
- USFWS (U.S. Fish and Wildlife Service). 2016. Eagle Permits; Revisions to Regulations for Eagle Incidental Take and Take of Eagle Nests. Final Rule. *Federal Register* 81(242): 91494-91554. December 16, 2016.
- USGS (U.S. Geological Survey). 2018. Restoration Handbook for Sagebrush Steppe Ecosystems with Emphasis on Greater Sage-Grouse Habitat – Part 3. Site Level Restoration Decisions. U.S. Department of the Interior and U.S. Geological Survey. Version 1.1 March 2018.
- WDFW (Washington Department of Fish and Wildlife). 2008. Priority Habitat and Species List. Olympia, Washington. 292 pp.
- WDFW (Washington Department of Fish and Wildlife). 2009. Wind Power Guidelines. Olympia, Washington.
- WDFW (Washington Department of Fish and Wildlife). 2011. Management Recommendations for Washington's Priority Habitats: Managing Shrub-steppe in Developing Landscapes. Washington Department of Fish and Wildlife. Olympia, Washington.
- WDFW (Washington Department of Fish and Wildlife). 2022. Shrubsteppe. Accessed April 13, 2022. <https://wdfw.wa.gov/species-habitats/ecosystems/shrubsteppe#:~:text=The%20shrubsteppe%20is%20an%20arid,sagebrush%20sparrow%2C%20and%20burrowing%20owl>.
- Weidenhamer, J. D., and R. M. Callaway. 2010. Direct and Indirect Effects of Invasive Plants on Soil Chemistry and Ecosystem Function. *Journal of Chemical Ecology* 36:59–69.

## Section 4.6 – Wildlife and Habitat

- Alberta Government. 2013. Bat Mitigation Framework for Wind Power Development. Accessed July 25, 2023. <https://open.alberta.ca/dataset/d9a3220a-d750-4fc3-ab40-654069b03f13/resource/90f1c3a3-2aee-4765-8aa1-96c03f134cc6/download/2013-wildlifeguidelines-batmitigationframework-jun19-2013.pdf>
- APLIC (Avian Power Line Interaction Committee). 2006. Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006. Public Interest Energy Research Program (PIER) Final Project Report CEC-500-2006-022. Edison Electric Institute, APLIC, and the California Energy Commission. Washington D.C. and Sacramento, California.
- APLIC (Avian Power Line Interaction Committee). 2012. Reducing Avian Collisions with Power Lines: The State of the Art in 2012. Edison Electric Institute and APLIC, Washington D.C.
- Arnett, E. B., D. B. Inkley, D. H. Johnson, R. P. Larkin, S. Manes, A. M. Manville, R. Mason, M. Morrison, M. D. Strickland, and R. Thresher. 2007. Impacts of Wind Energy Facilities on Wildlife and Wildlife Habitat. Wildlife Society Technical Review 7-2. The Wildlife Society, Bethesda, Maryland.
- AWWI (American Wind Wildlife Institute). 2020. AWWI Technical Report, 2nd Edition: Summary of Bird Fatality Monitoring Data Contained in AWWIC. Washington, D.C. November 24, 2020. Accessed June 9, 2022. <https://rewi.org/wp-content/uploads/2020/11/2nd-Edition-AWWIC-Bird-Report-11-24-2020.pdf>.
- Barclay, R. M. R., E. F. Baerwald, and J. C. Gruver. 2007. Variation in Bat and Bird Fatalities at Wind Energy Facilities: Assessing the Effects of Rotor Size and Tower Height. Canadian Journal of Zoology 85(3):381–387.
- Barré, K., R. Julliard, I. Le Viol, Y. Bas, and C. Kerbiriou, 2017. Impact of Wind Turbines on Bat Activity: An Omitted Long-distance Concern. DOI:10.13140/RG.2.2.19411.99363.
- Bartzke, G. S., R. May, K. Bevanger, S. Stokke, and E. Roskaft. 2014. The effects of power lines on ungulates and implications for power line routing and rights of way management. International Journal of Biodiversity and Conservation Vol 6(9): 647-662
- Bartzke, G. S., R. May, E. J. Solberg, C. M. Rolandsen and E. Roskaft. 2015. Differential barrier and corridor effects of power lines, roads and rivers on moose (*Alces alces*) movements. Ecosphere: Vol 6 (4): 1-17.
- Beason, R. C. 2020. Horned Lark (*Eremophila alpestris*), version 1.0. In Birds of the World (S. M. Billerman, Editor). Cornell Lab of Ornithology, Ithaca, New York. Accessed June 9, 2022. <https://doi.org/10.2173/bow.horlar.01>.
- Benítez-López, A., R. Alkemade, and P. A. Verweij. 2010. Are Mammal and Bird Populations Declining in the Proximity of Roads and Other Infrastructure? CEE review 09-007 (SR68). Collaboration for Environmental Evidence. Accessed June 9, 2022. <https://environmentalevidence.org/project/are-mammal-and-bird-populations-declining-in-the-proximity-of-roads-and-other-infrastructure-systematic-review/>.
- Berger, R. P. 1995. Fur, Feathers and Transmission Lines – How Rights of Way Affect Wildlife. Prepared by Wildlife Resource Consulting Services Inc. for Manitoba Hydro, System Planning and Environment Division. Winnipeg, Manitoba. (p 56).

- Bradshaw, C. J. A., S. Boutin, and D. M. Hebert. 1997. Effects of Petroleum Exploration on Woodland Caribou in Northeastern Alberta. *Journal of Wildlife Management* 61(4):1127–1133.
- Bromley, M. 1985. Wildlife Management Implication of Petroleum Exploration and Development in Wildlands Environments (9.42). USDA Forest Service. General Technical Report INT-191.
- Chock, R. Y., B. Clucas, E. K. Peterson, B. F. Blackwell, D. T. Blumstein, K. Church, E. Fernández-Juricic, G. Francescoli, A. Greggor, P. Kemp, G. M. Pinho, P. M. Sanzenbacher, B. A. Schulte, and P. Toni. 2020. Evaluating Potential Effects of Solar Power Facilities on Wildlife from an Animal Behaviour Perspective. *Conservation Science and Practice*.
- Connell, J. H., J. G. Tracey, and L. J. Webb. 1984. Compensatory Recruitment, Growth, and Mortality as Factors Maintaining Rain Forest Tree Diversity. *Ecological Monographs* 54(2):141–164.
- COSEWIC. 2008. COSEWIC assessment and update status report on the Ferruginous Hawk *Buteo regalis* in Canada. Committee on the Status of Endangered Wildlife in Canada. Ottawa. vii + 24 pp.  
[www.sararegistry.gc.ca/status/status\\_e.cfm](http://www.sararegistry.gc.ca/status/status_e.cfm).
- D'Amico, M., R. C. Martins, J. M. Álvarez-Martinez, M. Porto, R. Barrientos, and F. Moreia. 2019. Bird Collisions with Power Lines: Prioritizing Species and Areas by Estimating Potential Population-level Impacts. *Diversity and Distribution* 25(6):975–982.
- Drewitt, A. L. and R. H. W. Langston. 2006. Assessing the Impacts of Wind Farms on Birds. *Ibis* 148:29–42.
- Erickson, W. P., J. Jeffrey, K. Kronner, and K. Bay. 2004. Stateline Wind Project Wildlife Monitoring Final Report: July 2001 – December 2003. Western EcoSystem Technology Inc., Cheyenne, Wyoming, and Northwest Wildlife Consultants, Inc. Pendleton, Oregon.
- Erickson, W., K. Kronner, and B. Gritski. 2003. Nine Canyon Wind Power Project Avian and Bat Monitoring Report September 2002 – August 2003. Prepared for Nine Canyon Technical Advisory Committee Energy Northwest. October 2003. Accessed June 9, 2020.  
<https://tethys.pnnl.gov/sites/default/files/publications/Erickson-WEST-2003.pdf>.
- Erickson, W. P., M. M. Wolfe, K. J. Bay, D. H. Johnson, and J. L. Gehring. 2014. A Comprehensive Analysis of Small-Passerine Fatalities from Collision with Turbines at Wind Energy Facilities. *PLoS One* 9(9):e107491.
- Falavigna, T. J., D. Pereira, M. L. Rippel, and M. V. Petry. 2020. Changes in Bird Species Composition after a Wind Farm Installation: A Case Study in South America. *Environmental Impact Assessment Review* 83.
- FAA (Federal Aviation Administration). 2012. Evaluation of New Obstruction Lighting Techniques to Reduce Avian Fatalities. <https://www.tc.faa.gov/its/worldpac/techrpt/tctn12-9.pdf>
- FAA (Federal Aviation Administration). 2020. Obstruction Marking and Lighting. Advisory Circular AC 0/7460-1M. U.S. Department of Transportation, FAA. November 16, 2020. Accessed June 9, 2022. [https://www.faa.gov/regulations\\_policies/advisory\\_circulars/index.cfm/go/document.current/documentNumber/70\\_7460-1](https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.current/documentNumber/70_7460-1).
- Fidorra, J., D. Blodgett, S. Bergh, C. Wickham, and R. Harris. 2019. Summary Report 2019: Pronghorn Antelope Abundance Survey in South-central Washington. Prepared for Yakama Nation and Wildlife Washington Department of Fish and Wildlife.

- Fidorra, J. and T. C. Peterson. 2021. Summary Report 2021: Pronghorn Antelope Abundance Survey in South-Central Washington. Prepared for Yakama Nation and Wildlife Washington Department of Fish and Wildlife.
- Forman, R. T., B. Reineking, and A. M. Hersperger. 2002. Road Traffic and Nearby Grassland Bird Patterns in a Suburbanizing Landscape. *Environmental Management* 29(6):782–800.
- Frick, W. F., E. F. Baerwalk, J. F. Pollock, R. M. R. Barclay, J. A. Szymanski, T. J. Weller, A. L. Russell, S. C. Loeb, R. A. Medellin, and L. P. McGuire. 2017. Fatalities at Wind Turbines May Threaten Population Viability of a Migratory Bat. *Biological Conservation* 209:172–177.
- Friedenberg, N. A. and W. F. Frick. 2021. Assessing fatality minimization for hoary bats amid continued wind energy development. *Biological Conservation* 262.
- Fukumoto, J. and S. Herrero. 1998. Observations of the Long-toed Salamander, *Ambystoma macrodactylum*, in Waterton Lakes National Park, Alberta. *Canadian Field-Naturalist* 112(4):579–585.
- GAL (Golder Associates Ltd.). 2022. Wind Turbine Wildlife Collision Risk Assessment: Horse Heaven Wind Farm. Prepared for Washington Energy Facility Site Evaluation Council.
- Garshelis, D. L. 2000. Delusions in Habitat Evaluation: Measuring Use, Selection and Importance. In: Boitani, L. and T.K. Fuller (eds.), *Research Techniques in Animal Ecology: Controversies and Consequences*. Columbia University Press, New York, New York. 111–164.
- Garvin, J. C., C. S. Jennelle, D. Drake, and S. M Grodsky. 2011. Response of Raptors to a Windfarm. *Journal of Applied Ecology* (45):199–209.
- Gehring, J. P. Kerlinger, A. M. Manville II. 2009. Communication towers, lights, and birds: successful methods of reducing the frequency of avian collisions. *Ecological Applications* Vol 19(2): 505-514
- Gerber, B. D., J. F. Dwyer, S. A. Nesbitt, R. C. Drewien, C. D. Littlefield, T. C. Tacha, and P. A. Vohs. 2020. Sandhill Crane (*Antigone canadensis*), version 1.0. In *Birds of the World* (A. F. Poole, Editor). Cornell Lab of Ornithology, Ithaca, New York. <https://doi.org/10.2173/bow.sancra.01>.
- Giudice, J. H. and J. T. Ratti. 2020. Ring-necked Pheasant (*Phasianus colchicus*), version 1.0. In *Birds of the World* (S. M. Billerman, Editor). Cornell Lab of Ornithology, Ithaca, New York. Accessed June 9, 2022. <https://doi.org/10.2173/bow.rinphe.01>.
- Greif, S. and B. M. Siemers. 2010. Innate Recognition of Water bodies in Echolocating Bats. *Nature Communications* 1:107.
- Gruver, J. C. and D. A. Keinath. 2006. Townsend's Big-eared Bat (*Corynorhinus townsendii*): A Technical Conservation Assessment. Prepared for the USDA Forest Service, Rocky Mountain Region, Species Conservation Project. October 25, 2006. Accessed June 9, 2022. [https://www.fs.usda.gov/Internet/FSE\\_DOCUMENTS/stelprdb5181908.pdf](https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5181908.pdf).
- Gunson, K. E., B. Chruszcz, and A. P. Clevenger. 2004. Large Animal-Vehicle Collisions in the Central Canadian Rocky Mountains: Patterns and Characteristics. In: Irwin, C. L., P. Garrett and K. P. Mcdermott (eds.), *Proceedings of the 2003 International Conference on Ecology And Transportation*. Center for Transportation and the Environment, North Carolina State University, Raleigh, North Carolina: 355–366.

- Habib, L., E. M. Bayne, and S. Boutin. 2007. Chronic Industrial Noise Affects Pairing Success and Age Structure of Ovenbirds. *Journal of Applied Ecology* 44:176–184.
- Hammerson, G. and S. Cannings. 2022. NatureServe: Bald Eagle. NatureServe Explorer. Accessed August 2023. [https://explorer.natureserve.org/Taxon/ELEMENT\\_GLOBAL.2.104470/Haliaeetus\\_leucocephalus](https://explorer.natureserve.org/Taxon/ELEMENT_GLOBAL.2.104470/Haliaeetus_leucocephalus).
- Hayes, G. and J. Wiles. 2013. Washington bat conservation plan. Washington Department of Fish and Wildlife, Olympia, Washington. 138+viii pp.
- Hayes, G. E. and J. W. Watson. 2021. Periodic Status Review for the Ferruginous Hawk. Washington Department of Fish and Wildlife, Olympia, Washington.
- Hein, C. and M. Schirmacher. 2016. Impact of Wind Energy on Bats: A Summary of Our Current Knowledge. *Human–Wildlife Interactions* 10(1):19–27.
- Horse Heaven Wind Farm, LLC. 2021a. Response from Tetra Tech to Data Request No.4; [DEIS-1] submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2021b. Response to Data Request No.2; [Wildlife-2] submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2021c. Response to Data Request No.1; [Hab-11 to Hab-15] submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification. EFSEC Docket Number: EF-210011. February 2021, updated December 2022.
- Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.
- Jalkotzy, M. G., P. I. Ross, and M. D. Nasserden. 1997. The Effects of Linear Developments on Wildlife: A Review of Selected Scientific Literature. Prepared for the Canadian Association of Petroleum Producers. ARC Wildlife Services Ltd.
- Jansen E. W. 2023. Cumulative Effects to Birds, Bats, and Land Cover from Renewable Energy Development in the Columbia Plateau Ecoregion of Eastern Oregon and Washington. Prepared for Scout Clean Energy.
- Johnson, G. D., W. P. Erickson, M. D. Strickland, M. F. Shepherd, and D. A. Shepherd. 2000. Avian Monitoring Studies at the Buffalo Ridge Wind Resource Area, Minnesota: Results of a Four-year Study. Technical report prepared for Northern States Power Co., Minneapolis, Minnesota. Western Ecosystems Technology, Inc., Cheyenne, Wyoming.

- Johnson, D. H. and T. A. O'Neil. 2001. Wildlife-habitat Relationships in Oregon and Washington. Oregon State University Press. Corvallis, Oregon.
- Johnson, G. D., W. P. Erickson, and J. White. 2003. Avian and Bat Mortality at the Klondike, Oregon, Phase I Wind Plant, Sherman County, Oregon. Technical Report prepared for Northwestern Wind Power. Western Ecosystems Technology, Inc., Cheyenne, Wyoming.
- Katzner, T. E., M. N. Kochert, K. Steenhof, C. L. McIntyre, E. H. Craig, and T. A. Miller. 2020. Golden Eagle (*Aquila chrysaetos*), version 2.0. In Birds of the World (P. G. Rodewald and B. K. Keeney, Editors). Cornell Lab of Ornithology, Ithaca, New York. <https://doi.org/10.2173/bow.goleag.02>.
- Keehn, J., K. Shoemaker, and C. Feldman. 2019. Population-Level Effects of Wind Farms on a Desert Lizard. *Journal of Wildlife Management* 83(1):145–157. DOI: 10.1002/jwmg.21565.
- Kempnaers, B., P. Borgström, P. Loës, E. Schlicht, and M. Valcu. 2010. Artificial Night Lighting Affects Dawn Song, Extra-pair Siring Success, and Lay Date in Songbirds. *Current Biology* 20:1735–1739.
- Kerlinger, P., J. L. Gehring, W. P. Erickson, R. Curry, A. Jain, J. Guarnaccia. 2010. Night Migrant Fatalities and obstruction lighting at Wind Turbines in North America. *The Wilson Journal of Ornithology* 122(4): 744-754
- Knick, S. T., D. S. Dobkin, J. T. Rotenberry, M. A. Schroeder, W. M. Vander Haegen, C. van Riper III. 2003. Teetering on the Edge or Too Late? Conservation and Research Issues for Avifauna of Sagebrush Habitats. *The Condor* 105(4): 611–634.
- Kolar, P. and M. Bechard. 2016. Wind Energy, Nest Success, and Post-fledging Survival of Buteo Hawks. *Journal of Wildlife Management* 80(7):1242–1255. <https://doi.org/10.1002/jwmg.21125>.
- Kosciuch, K., D. Riser-Espinoza, M. Geringer, and W. Erickson. 2020. A Summary of Bird Mortality at Photovoltaic Utility Solar Facilities in the Southwestern U.S. *PLoS ONE* 15(4): e0232034.
- Krijgsveld, K. L., K. Akershoek, F. Schenk, F. Dijk, S. Dirksen. 2009. Collision Risk of Birds with Modern Large Wind Turbines. *Ardea* 97(3): 357–366.
- Kroeger, S. B., H. M. Hanslin, T. Lennartsson, M. D'Amico, J. Kollmann, C. Fischer, E. Albertsen, and J. D. M. Speed. 2021. Impacts of Roads on Bird Species Richness: A Meta-analysis Considering Road Types, Habitats and Feeding Guilds. *Science of the Total Environment*.
- Landon, D. M., P. R. Krausman, K. K. G. Koenen, and L. K. Harris. 2000. Pronghorn Use of Areas with Varying Sound Pressure Levels. *The Southwestern Naturalist* 45(4):725–728.
- Larsen, E. M., editor. 1997. Management Recommendations for Washington's Priority Species, Volume III: Amphibians and Reptiles. Washington Department of Fish and Wildlife. Olympia, Washington.
- Larsen, J. and K. Madsen. 2000. Effects of Wind Turbines and Other Physical Elements on Field Utilization by Pink-footed Geese (*Anser brachyrhynchus*): A Landscape Perspective. *Landscape Ecology* 15:755–764. 10.1023/A:1008127702944.
- Larsen, E. M., J. M. Azerrad, and N. Nordstrom, editors. 2004. Management Recommendations for Washington's Priority Species, Volume IV: Birds. Washington Department of Fish and Wildlife, Olympia, Washington.



- Leddy, K. L. 1996. Effects of Wind Turbines on Non-game Birds in Conservation Reserve Program Grasslands in South-western Minnesota. Thesis. South Dakota State University, Brookings, South Dakota.
- Leddy, K. L., K. F. Higgins, and D. E. Naugle. 1999. Effects of Wind Turbines on Upland Nesting Birds in Conservation Reserve Program grasslands. *Wilson Bulletin* 111:100–104.
- Lehman, R. N., J. A. Savidge, P. L. Kennedy, and R. E. Harness. 2010. Raptor Electrocutation Rates for a Utility in the Intermountain Western United States. *Journal of Wildlife Management* 74(3): 459–470.
- Lengagne, T. 2008. Traffic Noise Affects Communication Behavior in a Breeding Anuran, *Hyla arborea*. *Biological Conservation* 141(8):2023–2031.
- Leu, M., S. E. Hanser, C. L. Aldridge, S. E. Nielsen, L. H. Suring, and S. T. Knick. 2011. Chapter 8: Occurrence of Large and Medium-Sized Mammals: Occurrences But Not Count Models Predict Pronghorn Distribution in Sagebrush Ecosystem Conservation and Management: 315–336.
- Limpert, R. J., S. L. Earnst, C. Carboneras, and G. M. Kirwan .2020. Tundra Swan (*Cygnus columbianus*), version 1.0. In *Birds of the World* (S. M. Billerman, Editor). Cornell Lab of Ornithology, Ithaca, New York. Accessed June 9, 2022. <https://doi.org/10.2173/bow.tunswa.01>.
- Łopucki, R., D. Klich, and S. Gielarek. 2017. Do Terrestrial Animals Avoid Areas Close to Turbines in Functioning Wind Farms in Agricultural Landscapes? *Environmental Monitoring and Assessment* 189(7):343.
- Łopucki, R., D. Klich, A. Ścibior, D. Golebiowska, and K. Perzanowski. 2018. Living in Habitats Affected by Wind Turbines May Result in an Increase in Corticosterone Levels in Ground Dwelling Animals. *Ecological Indicators* 84(2018):165–171.
- Loss, S.R., T. Will, and P. P. Marra. 2014. Refining Estimates of Bird Collision and Electrocutation Mortality at Power Lines in the United States. *PLoS ONE* 9(7): e101565. Doi:10.1371/journal.pone.0101565
- Lovich, J. E. and J. R. Ennen. 2011. Wildlife Conservation and Solar Energy Development in the Desert Southwest, United States. *BioScience* 61:982–992.
- MacPherson, D., J. Macpherson, and P. Morris. 2011. Rural Roads as Barriers to the Movements of Small Mammals. *Applied Ecology and Environmental Research* 9(2):167–180.
- Manci, K. M., D. N. Gladwin, R. Villella, and M. G. Cavendish. 1988. Effects of Aircraft Noise and Sonic Booms on Domestic Animals and Wildlife: A Literature Synthesis. U.S. Department of the Interior, Fish and Wildlife Service, National Ecology Research Center. Fort Collins, Colorado.
- Martin, J. W. and B. A. Carlson. 2020. Sagebrush Sparrow (*Artemisiospiza nevadensis*), version 1.0. In *Birds of the World* (A. F. Poole, Editor). Cornell Lab of Ornithology, Ithaca, NY. Accessed June 9, 2022. <https://doi.org/10.2173/bow.sagspa1.01>.
- Meffe, G. K. and C. R. Carroll. 1994. *Principles of Conservation Biology*. Sinauer Associates, Inc., Sunderland, Massachusetts.
- Morelli, F., M. Beim, L. Jerzak, D. Jones, and P. Tryjanowski. 2014 Can Roads, Railways and Related Structures Have Positive Effects on Birds? – A review, *Transportation Research Part D: Transport and Environment* 30:21–31.

- Muhly, T. B., C. Semeniuk, A. Massolo, L. Hickman, and M. Musiani. 2011. Human Activity Helps Prey Win the Predator-Prey Space Race. *PLoS ONE* 6(3): e17050. doi:10.1371/journal.pone.0017050.
- Nagy, L., B. Gibson, K. Kosciuch, and J. Taylor, B. Gunderman. 2012. Whooping Crane and Sandhill Crane Behaviour at an Operating Wind Farm. Poster presentation. National Wind Coordinating Collaborative. Wind Wildlife Research Meeting IX. Broomfield, Colorado. November 28–30, 2012.
- NatureMapping. Not dated. GAP Analysis Predicted Distribution Maps. Accessed December 2021. <http://naturemappingfoundation.org/natmap/maps/>.
- O’Shea, T. J., P. M. Cryan, D. T. S. Hayman, R. K. Plowright, and D. G. Streicker. 2016. Multiple Mortality Events in Bats: A Global Review. *Mammal Review* 46(3):175–190.
- Oxley, D. J., M. B. Fenton, and G. R. Carmody. 1974. The Effects of Roads on Populations of Small Animals. *Journal of Applied Ecology* 11:51–59.
- Paterson, J. E., J. Baxter-Gilbert, F. Beaudry, S. Carstairs, P. Chow-Fraser, C. B. Edge, A. M. Lentini, J. D. Litzgus, C. E. Markle, K. McKeown, J. A. Moore, J. M. Refsnider, J. L. Riley, J. D. Rouse, D. C. Seburn, J. R. Zimmerling, and C. M. Davy. 2019. Road Avoidance and Its Energetic Consequences for Reptiles. *Ecology and Evolution* 9(17):9794–9803. Accessed June 9, 2022. <https://doi.org/10.1002/ece3.5515>.
- Pearse, A. T., D. A. Brandt, and G. L. Krapu. 2016. Wintering Sandhill Crane Exposure to Wind Energy Development in the Central and Southern Great Plains, USA. *The Condor* 118:391–401.
- Poulin, R. G., L. D. Todd, E. A. Haug, B. A. Millsap, and M. S. Martell. 2020. Burrowing Owl (*Athene cunicularia*), version 1.0. In *Birds of the World* (A. F. Poole, Editor). Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.buowl.01>.
- Pruett, C. L., M. A. Patten, and D. H. Wolfe. 2009. It's Not Easy Being Green: Wind Energy and a Declining Grassland Bird. *BioScience* 59(3):257–262.
- Rabin, L. A., R. G. Coss, and D. H. Owings. 2006. The Effects of Wind Turbines on Antipredator Behavior in California Ground Squirrels (*Spermophilus beecheyi*). *Biological Conservation* 131(3):410–420.
- Rees, E. R. 2012. Impacts of Wind Farms on Swans and Geese: A Review. *Wildfowl* 62:37–72.
- Reynolds, T. D., T. D. Rich, and D. A. Stephens. 2020. Sage Thrasher (*Oreoscoptes montanus*), version 1.0. In *Birds of the World* (A. F. Poole and F. B. Gill, Editors). Cornell Lab of Ornithology, Ithaca, New York, USA. Accessed June 9, 2022. <https://doi.org/10.2173/bow.sagthr.01>.
- Richardson, M. L., B. A. Wilson, D. A. S. Aiuto, J. E. Crosby, A. Alonso, F. Dallmeier, and G. K. Golinski. 2017. A Review of the Impact of Pipelines and Power Lines on Biodiversity and Strategies for Mitigation. *Biodiversity and Conservation* 26(8):1801–1815. doi:10.1007/s10531-017-1341-9.
- Richardson, S. M., P. R. Lintott, D. J. Hosken, T. Economou, and F. Mathews. 2021. Peak in Bat Activity at Turbines and the Implications for Mitigating the Impact of Wind Energy Developments on Bats. *Scientific Reports* 11:3636.

- Ritter, M. 2023. Personal Communication from M. Ritter (Washington Department of Fish and Wildlife ) to Amy Moon (Washington Energy Facility Site Evaluation Council). Letter dated June 13, 2023.
- Robel, R. J. 2002. Expected Impacts on Greater Prairie-Chickens of Establishing a Wind Turbine Facility near Rosalia, Kansas. Report to Zilkha Renewable Energy, Houston, Texas.
- Román, P. R., C. O. Salinas, and B. M. Araújo. 2020. Assessing the Effect of Wind Farms in Fauna with a Mathematical Model. *Nature Portfolio* 10:14785. Accessed June 9, 2022. <https://doi.org/10.1038/s41598-020-71758-5>.
- Row, J. R., G. Blouin-Demers, and P. J. Weatherhead. 2007 Demographic Effects of Road Mortality in Black Ratsnakes (*Elaphe obsoleta*). *Biological Conservation*:137(1):117–124.
- Russo, D., L. Cistrone, and G. Jones. 2012. Sensory Ecology of Water Detection by Bats: A Field Experiment. *PLoS ONE*. 7(10):e48144.
- Schöll, E. M. and U. Nopp-Mayr. 2021. Impact of Wind Power Plants on Mammalian and Avian Wildlife Species in Shrub- and Woodlands. *Biological Conservation* 256.
- Schwitters, L., D. Schwitters, E. L. Bull, and C. T. Collins. 2021. Vaux's Swift (*Chaetura vauxi*), version 1.1. In *Birds of the World* (P. G. Rodewald, Editor). Cornell Lab of Ornithology, Ithaca, New York. Accessed June 9, 2022. <https://doi.org/10.2173/bow.vauswi.01.1>.
- Shaffer, J. A. and D. A. Buhl. 2016. Effects of Wind-energy Facilities on Grassland Bird Distributions. *Conservation Biology* 30(1):59–71.
- Shannon, G., M. F. McKenna, L. M. Angeloni, K. R. Crooks, K. M. Fristrup, E. Brown, K. A. Warner, M. D. Nelson, C. White, J. Briggs, S. McFarland, and G. Wittemyer. 2016. A Synthesis of Two Decades of Research Documenting the Effects of Noise on Wildlife. *Biological Reviews*: 91(4):982–1005.
- Shepard, D. B., A. R. Kuhns, M. J. Dreslik, and C. A. Phillips. 2008. Roads as Barriers to Animal Movement in Fragmented Landscapes. *Animal Conservation* 11(4):288–296.
- Smallwood, K. S., C. G. Thelander, M. L. Morrison, and L. M. Ruge. 2007. Burrowing Owl Mortality in the Altamont Pass Wind Resource Area. *Journal of Wildlife Management* 71:1513-1524.
- Smallwood, K. S., L. Neher, and D. A. Bell. 2009. Map-based Repowering and Reorganization of a Wind Resource Area to Minimize Burrowing Owl and Other Bird Fatalities. *Energies* 2: 915-943.
- Smallwood, K. S, L. Ruge, and M. L. Morrison. 2010. Influence of Behavior on Bird Mortality in Wind Energy Developments. *The Journal of Wildlife Management*. 73(7):1082–1098.
- Smallwood, K. S. and N. L. Smallwood. 2021. Breeding Density and Collision Mortality of Loggerhead Shrike (*Lanius ludovicianus*) in the Altamont Pass Wind Resource Area. *Diversity* 2021, 13, 540. Accessed June 9, 2022. <https://doi.org/10.3390/d13110540>.
- Smallwood, K. S. 2022. Utility-Scale Solar Impacts to Volant Wildlife. *Journal of Wildlife Management*. Vol 86(4).
- Smith, K. T., K. L. Taylor, S. E. Albeke, and J. L. Beck. 2020. Pronghorn Winter Resource Selection before and after Wind Energy Development in South-central Wyoming. *Rangeland Ecology and Management* 73(2):227–233.

- Steenhof, K. 2020. Prairie Falcon (*Falco mexicanus*), version 1.0. In Birds of the World (A. F. Poole, Editor). Cornell Lab of Ornithology, Ithaca, New York. <https://doi.org/10.2173/bow.prafal.01>.
- St-Laurent, M. H., C. Dussault, J. Ferron, and R. Gagnon. 2009. Dissecting Habitat Loss and Fragmentation Effects Following Logging in Boreal Forest: Conservation Perspectives from Landscape Simulations. *Biological Conservation* 142:2240–2249.
- Tetra Tech. 2021. Washington Department of Fish and Wildlife Data Request Regarding Potential Impacts to Pronghorn from Wind and Solar Energy Development at the Horse Heave Clean Energy Center, Benton County, Washington. Prepared for Scout Clean Energy.
- USFWS (U.S. Fish and Wildlife Service). 2012. Land-Based Wind Energy Guidelines. Accessed June 9, 2022. <https://www.fws.gov/sites/default/files/documents/land-based-wind-energy-guidelines.pdf>.
- USFWS (U.S. Fish and Wildlife Service). 2013. Eagle Conservation Plan Guidance Module 1 – Land-based Wind Energy Version 2. Accessed June 9, 2022. <https://www.fws.gov/guidance/guidance/sites/guidance/files/documents/eagleconservationplanguidance.pdf>
- USFWS (U.S. Fish and Wildlife Service). 2016. Eagle Permits; Revisions to Regulations for Eagle Incidental Take and Take of Eagle Nests. Accessed June 9, 2022. <https://www.federalregister.gov/documents/2016/12/16/2016-29908/eagle-permits-revisions-to-regulations-for-eagle-incident-take-and-take-of-eagle-nests>.
- Usgaard, R. E., D. E. Naugle, R. G. Osborn, and K. F. Higgins. 1997. Effects of Wind Turbines on Nesting Raptors at Buffalo Ridge in Southwestern Minnesota. *Proceedings of the South Dakota Academy of Sciences* 76:113–117.
- Vennesland, R. G. 2004. Great Blue Heron *Ardea herodias*. In Account and Measures for Managing Identified Wildlife – Accounts V. 2004. Accessed June 9, 2020. [https://www.env.gov.bc.ca/wld/frpa/iwms/documents/Birds/b\\_greatblueheron.pdf](https://www.env.gov.bc.ca/wld/frpa/iwms/documents/Birds/b_greatblueheron.pdf).
- Vennesland, R. G. and R. W. Butler. 2020. Great Blue Heron (*Ardea herodias*), version 1.0. In Birds of the World (A. F. Poole, Editor). Cornell Lab of Ornithology, Ithaca, New York. <https://doi.org/10.2173/bow.grbher3.01>.
- Walston, L. J., K. E. Rollins, K. P. Smith, and K. E. LaGory. 2015. A Review of Avian Mortality and Mitigation Information at Existing Utility-scale Solar Facilities. Prepared for U.S. Department of Energy, SunShot Initiative and Office of Energy Efficiency and Renewable Energy.
- Watson, J. W., A. A. Duff, and R. W. Davis. 2014. Home Range and Resource Selection by GPS-Monitored Adult Golden Eagles in the Columbia Plateau Ecoregion: Implications for Wind Power Development. *The Journal of Wildlife Management* 78(6):1012–1021
- Watson, J. W., I. N. Keren, R. W. Davis. 2018. Behavioral Accommodation of Nesting Hawks to Wind Turbines. *The Journal of Wildlife Management* 82(8):1784–1794.
- WDFW (Washington Department of Fish and Wildlife). 1996. Status of Washington's Shrub-Steppe Ecosystem: Extent, Ownership, and Wildlife/Vegetation Relationships. Accessed July 19, 2023. <https://wdfw.wa.gov/sites/default/files/publications/01088/wdfw01088.pdf>.
- WDFW (Washington Department of Fish and Wildlife). 2009. Wind Power Guidelines. Olympia, Washington.

- WDFW (Washington Department of Fish and Wildlife). Not dated. PHS on the Web. Downloaded: January 25, 2022. <https://geodataservices.wdfw.wa.gov/hp/phs/>.
- WDFW (Washington Department of Fish and Wildlife). 2022. Species in Washington. Accessed January 20, 2022. <https://wdfw.wa.gov/species-habitats/species>.
- Weaver, J. L., P. C. Paquet, and L. F. Ruggiero. 1996. Resilience and Conservation of Large Carnivores in the Rocky Mountains. *Conservation Biology* 10(4):964–976.
- WEST (Western EcoSystems Technology Inc.). 2021. Regional Summaries of Wildlife Fatalities at Wind Facilities in the United States. 2020 Report from the Renew Database. Published by WEST, Inc., Cheyenne, Wyoming. June 30. [https://west-inc.com/wp-content/uploads/2021/07/WEST\\_2020\\_RenewWildlifeFatalitySummaries.pdf](https://west-inc.com/wp-content/uploads/2021/07/WEST_2020_RenewWildlifeFatalitySummaries.pdf).
- WHCWG (Washington Wildlife Habitat Connectivity Working Group). 2012. Washington Connected Landscapes Project: Analysis of the Columbia Plateau Ecoregion. Washington's Department of Fish and Wildlife, and Department of Transportation, Olympia, Washington.
- WHCWG (Washington Wildlife Habitat Connectivity Working Group). 2013. Columbia Plateau Ecoregion Connectivity Analysis Addendum: Habitat Connectivity Centrality, Pinch-points, and Barriers/Restoration Analyses. Washington's Department of Fish and Wildlife, and Department of Transportation, Olympia, Washington.
- Yakama Nation. No Date. Pronghorn Reintroduction and Management in Southeast Washington: pronghorn Landscape use and Population Dynamics Presentation. Unpublished confidential document. Yosef, R. 2020. Loggerhead Shrike (*Lanius ludovicianus*), version 1.0. In *Birds of the World* (A. F. Poole and F. B. Gill, Editors). Cornell Lab of Ornithology, Ithaca, New York. <https://doi.org/10.2173/bow.logshr.01>.
- Zimmerling, J. R. and C. M. Francis. 2016. Bat Mortality Due to Wind Turbines in Canada. *Wildlife Management* 80(8):1360–1369.
- Section 4.7 – Energy and Natural Resources**
- AISI (American Iron and Steel Institute). 2021. AISI Releases Annual Statistical Report For 2020. Accessed November 16, 2021. <https://www.steel.org/2021/06/aisi-releases-annual-statistical-report-2020/>.
- City of Kennewick. 2017. Water Comprehensive Plan. Accessed November 17, 2021. <https://www.go2kennewick.com/DocumentCenter/View/9775/2017-Water-Comp-Plan?bidId=>.
- DOE (U.S. Department of Energy). Not dated. Alternative Fuels Data Center: Washington Transportation Data for Alternative Fuels and Vehicles Accessed November 16, 2021. <https://afdc.energy.gov/states/wa?menu=mi>.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Washington Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.

Portland Cement Association. 2016. Washington Cement Industry. Accessed November 16, 2021.

<https://www.cement.org/docs/default-source/ga-pdfs/cement-industry-by-state-2015/washington.pdf?sfvrsn=2&sfvrsn=2>.

Portland Cement Association. 2019. How Concrete is Made. Accessed November 16, 2021.

<https://www.cement.org/cement-concrete/how-cement-is-made>.

USDOT (U.S. Department of Transportation). 2015. Gravel Roads Construction and Maintenance Guide, August 2015. Accessed April 12, 2022. <https://www.fhwa.dot.gov/construction/pubs/ots15002.pdf>.

### **Section 4.8 – Land and Shoreline Use**

Benton County. 2020. 2017 Benton County Comprehensive Plan. Adopted February 13, 2018, Updated January 2020. Accessed November 3, 2021. <https://www.co.benton.wa.us/files/documents/2017ComprehensivePlanJanuary2020129055548061620PM.pdf>.

Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, December 2022.

Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.

USDA (United States Department of Agriculture) 2022a. 2020 Washington Annual Statistical Bulletin. Accessed June 29, 2023. [https://www.nass.usda.gov/Statistics\\_by\\_State/Washington/Publications/Annual\\_Statistical\\_Bulletin/2022/WA\\_ANN\\_2022.pdf](https://www.nass.usda.gov/Statistics_by_State/Washington/Publications/Annual_Statistical_Bulletin/2022/WA_ANN_2022.pdf).

USDA (United States Department of Agriculture). 2022b. Wheat Sector at a Glance. Accessed April 11, 2022. <https://www.ers.usda.gov/topics/crops/wheat/wheat-sector-at-a-glance/>.

WDFW (Washington Department of Fish and Wildlife). 2009. Wind Power Guidelines. Olympia, Washington. <https://wdfw.wa.gov/sites/default/files/publications/00294/wdfw00294.pdf>.

### **Section 4.9 – Historic and Cultural Resources**

Advisory Council on Historic Properties. 2019. Memorandum to ACHP Staff from ACHP Office of General Counsel. Recent court decision regarding the meaning of “direct” in Sections 106 and 110(f) of the National Historic Preservation Act. June 7, 2019. Accessed June 30, 2022.

[https://dahp.wa.gov/sites/default/files/OGC\\_memo\\_to\\_ACHP\\_staff\\_re\\_meaning\\_of\\_direct\\_6-7-19.pdf](https://dahp.wa.gov/sites/default/files/OGC_memo_to_ACHP_staff_re_meaning_of_direct_6-7-19.pdf).

Ashley, A. 2023. Personal communication (email) from A. Ashley, for N. Kathryn Brigham, Board of Trustees Chair for the Confederated Tribes of the Umatilla Indian Reservation, to Amy Moon, Energy Facility Site Specialist, Washington Energy Facility Siting Evaluation Council. October 10, 2023.

CTUIR (Confederated Tribes of the Umatilla Indian Reservation). 2021a. Personal communication (letter) to the Washington Energy Facility Site Evaluation Council. April 9, 2021.

CTUIR (Confederated Tribes of the Umatilla Indian Reservation). 2021b. Traditional Use Study of the Horse Heaven Wind Farm Project, Benton County, Washington. Executive Summary.

- Davis, S. J., K. Burk-Hise, and J. Henderson. 2020. Cultural Resources Investigations on Washington Department of Natural Resources Land for the Horse Heaven Wind Farm Project, Benton County, Washington. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Davis, S. J., J. Jones, J. Henderson, L. Waldroop, and E. K. Ragsdale. 2021. Cultural Resources Investigations on Privately Owned Land for the Horse Heaven Wind Farm Project, Benton County, Washington. Final report. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Davis, S.J. and E. K. Ragsdale. 2020 Memorandum: Cultural Resources Investigations on Washington Department of Natural Resources Land for the Horse Heaven Wind Farm Project, Benton County, Washington—Addendum One. DAHP Project No. 2020-02-01333. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Davis, S. J. and E. K. Ragsdale. 2021. Memorandum: Cultural Resources Investigations on Washington Department of Natural Resources Land for the Horse Heaven Wind Farm Project, Benton County, Washington—Addendum Two. DAHP Project No. 2020-02-01333. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Davis, S. J. and E. K. Ragsdale. 2023a. DRAFT—Cultural Resources Monitoring Plan for the Horse Heaven Clean Energy Center, Benton County, Washington. DAHP Project No. 2020-02-01333. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Davis, S. J. and E. K. Ragsdale. 2023b. DRAFT—Inadvertent Discovery Plan for the Horse Heaven Clean Energy Center, Benton County, Washington. DAHP Project No. 2020-02-01333. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Davis, S. J., J. Tuck, K. Burk-Hise, J. Hopt, and E. K. Ragsdale. 2021. Cultural Resource Investigations on Privately Owned Land for the Horse Heaven Wind Farm Project, Benton County, Washington—Addendum One. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- Hardesty, D. L., and B. J. Little. 2000. *Assessing Site Significance: A Guide for Archaeologists and Historians*. Rowman & Littlefield, New York.
- Hanson, S. 2021a. Personal communication (letter) from S. Hanson, Transportation Archaeologist, State of Washington Department of Archaeology and Historic Preservation, to Amy Moon, Energy Facility Site Specialist, Washington Energy Facility Siting Evaluation Council. November 18, 2021.
- Hanson, S. 2021b. Personal communication (revised letter) from S. Hanson, Transportation Archaeologist, State of Washington Department of Archaeology and Historic Preservation, to Amy Moon, Energy Facility Site Specialist, Washington Energy Facility Siting Evaluation Council. December 10, 2021.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011. Revised December 2022.
- Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.

- NPS (National Park Service). 1997. How to Apply the National Register Criteria for Evaluation. National Register Bulletin. U.S. Department of the Interior, National Park Service.
- Tuck, J, S. J. Davis, J. Hopt, M. L. Punke, B. Bowden, and E. K. Ragsdale. 2023. Evaluation of Five Archaeological Sites for the Horse Heaven Wind Farm Project, Benton County, Washington. DAHP Project No. 2020-02-01333. Prepared by Historical Research Associates, Inc., Portland, Oregon. Unpublished confidential document.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2022a. Property ID: 721665 McNary-Badger Canyon No. 1 Transmission Line. Washington Department of Archaeology and Historic Preservation. Accessed October 28, 2022. <https://wisaard.dahp.wa.gov/Resource/700921/PropertyInventory/1641713>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2022b. Property ID: 721666 McNary–Franklin No. 2 Transmission Line. Washington Department of Archaeology and Historic Preservation. Accessed October 28, 2022. <https://wisaard.dahp.wa.gov/Resource/700922/PropertyInventory/1641715>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2022c. Property ID: 722995 Grain Elevator. Washington Department of Archaeology and Historic Preservation. Accessed October 28, 2022. <https://wisaard.dahp.wa.gov/Resource/703508/PropertyInventory/1628420>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2022d. Property ID: 722996 Residence. Washington Department of Archaeology and Historic Preservation. Accessed October 13, 2022. <https://wisaard.dahp.wa.gov/Resource/703509/PropertyInventory/1628421>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2023a. Property ID: 667765 Nine Canyon Road. Washington Department of Archaeology and Historic Preservation. Accessed August 3, 2023. <https://wisaard.dahp.wa.gov/Resource/614771/PropertyInventory/1628504>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2023b. Property ID: 724937 Nicoson Road Farmstead Barn Storage Building. Washington Department of Archaeology and Historic Preservation. Accessed August 3, 2023. <https://wisaard.dahp.wa.gov/Resource/707469/PropertyInventory/1632592>.
- WISAARD (Washington Information System for Architectural and Archaeological Records Data). 2023c. Property ID: 724938 Nicoson Road Farmstead Cribbed Grain Elevator. Washington Department of Archaeology and Historic Preservation. Accessed August 3, 2023. <https://wisaard.dahp.wa.gov/Resource/707470/PropertyInventory/1632593>.
- Section 4.10 – Visual Aspects, Light and Glare**
- Benton County. 2020. 2017 Benton County Comprehensive Plan, Adopted February 13, 2018, Updated January 14, 2020, Accessed September 25, 2022. <https://www.co.benton.wa.us/files/documents/2017ComprehensivePlanJanuary2020129055548061620PM.pdf>.
- BLM (Bureau of Land Management). 1986. Visual Resource Contrast Rating. BLM Manual 8431. Accessed February 8, 2022. [https://blmwyomingvisual.anl.gov/docs/BLM\\_VCR\\_8431.pdf](https://blmwyomingvisual.anl.gov/docs/BLM_VCR_8431.pdf).



- BLM (Bureau of Land Management). 2013. Best Management Practices for Reducing Visual Impacts of Renewable Energy Facilities on BLM-Administered Lands. BLM Wyoming State Office, Cheyenne. Accessed February 8, 2022. [https://blmwyomingvisual.anl.gov/docs/BLM\\_RenewableEnergyVisualBMPs\\_LowRes.pdf](https://blmwyomingvisual.anl.gov/docs/BLM_RenewableEnergyVisualBMPs_LowRes.pdf)
- CESA (Clean Energy States Alliance). 2011. A Visual Impact Assessment Process for Wind Energy Projects. Accessed February 8, 2022. <https://www.cesa.org/assets/2011-Files/States-Advancing-Wind-2/CESA-Visual-Impacts-Methodology-May2011.pdf>.
- CIE (Commission Internationale de l'Éclairage). 1997. Technical Report: Guidelines for Minimizing Sky Glow. Vienna, Austria: Commission internationale de l'éclairage Report No.: CIE 126: 1997, ISBN 978 3 900734 83 1.
- DOE (U.S. Department of Energy). 2017. An Investigation of LED Street Lighting's Impact on Sky Glow. [https://www.energy.gov/sites/prod/files/2017/05/f34/2017\\_led-impact-sky-glow.pdf](https://www.energy.gov/sites/prod/files/2017/05/f34/2017_led-impact-sky-glow.pdf). Accessed July 2021.
- EMD (EMD International). 2019. EMD International A/S. 2019 windPRO, Version 3.3.274 Aalborg, Denmark.
- Epilepsy Action. 2022. Photosensitive Epilepsy. British Epilepsy Association. Accessed December 2020. <https://www.epilepsy.org.uk/info/photosensitive-epilepsy>.
- FAA (Federal Aviation Administration). 2020. 70/7460-1M – Obstruction Marking and Lighting. Accessed April 20, 2022. [https://www.faa.gov/regulations\\_policies/advisory\\_circulars/index.cfm/go/document.current/documentnumber/70\\_7460-1](https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.current/documentnumber/70_7460-1).
- ForgeSolar. 2020. Sandia Solar Glare Hazard Analysis Tool, GlareGauge hosted by ForgeSolar. Accessed <https://www.forgesolar.com/>. Accessed October 12, 2021.
- House Bill: Reducing light pollution associated with certain energy infrastructure. HB 1173. Washington State. (2023)
- Horse Heaven Wind Farm, LLC. 2021a. Aesthetics Technical Memorandum for the Horse Heaven Wind Farm Project. Prepared for Horse Heaven Wind Farm, LLC. On file at SWCA Environmental Consultants, Salt Lake City, Utah. October 2021.
- Horse Heaven Wind Farm, LLC. 2021b. Shadow Flicker Analysis Memorandum for the Horse Heaven Wind Farm Project. January 2021. Appendix G of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2021c. Glare Analysis Report for the Horse Heaven Wind Farm. January 2021. Appendix H of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

- Horse Heaven Wind Farm, LLC. 2023a. Response from Tetra Tech to Data Request No.7; FEIS-Visual-3. Submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011. April 20, 2023.
- Horse Heaven Wind Farm, LLC. 2023b. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.
- Kobus, Dave. 2022. Personal communication (email) between Dave Kobus, Senior Project Manager, Scout Clean Energy, and Amy Moon, Energy Facility Site Specialist, Washington Energy Facility Site Evaluation Council. January 24, 2022.
- Lampeter, Richard. 2011. Shadow Flicker Regulations and Guidance: New England and Beyond. Shadow Flicker Regulations and Guidance: New England and Beyond, February 10, 2011.
- NOAA (National Oceanic and Atmospheric Administration). 2019. Comparative Climatic Data for the United States Through 2018.
- Sandia (Sandia National Laboratories). 2016. Solar Glare Hazard Analysis Tool (SGHAT) User's Manual v. 3.0. December 6, 2016.
- SWCA (SWCA Environmental Consultants). 2023. Updated Horse Heaven Wind Farm Project Visual Impact Assessment Report. July 2023.
- USGS (U.S. Geological Survey). 2017. 1/3rd arc-second Digital Elevation Models (DEMs) – USGS National Map 3DEP Downloadable Data Collection: U.S. Geological Survey.4.2

#### **Section 4.11 – Noise and Vibration**

- Bolt, Beranek and Newman, Inc. 1977. Power Plant Construction Noise Guide. Prepared for the Empire State Electric Energy Research Corporation, Report No. 3321.
- Bolt, Beranek and Newman, Inc. 1984. Electric Power Plant Environmental Noise Guide, Volume 1, 2<sup>nd</sup> Edition. Edison Electric Institute.
- Chiu, C. and S. Lung. 2020. Assessment of Low-frequency Noise from Wind Turbines under Different Weather Conditions. *Journal of Environmental Health Science and Engineering*. Accessed April 23, 2023. <https://link.springer.com/article/10.1007/s40201-020-00478-9>
- DataKustik GmbH. 2020. Computer Aided Noise Abatement Model CadnaA, Version MR 1 Munich, Germany.
- EPA (U.S. Environmental Protection Agency). 1974. Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety. Office of Noise Abatement and Control. Washington, DC.
- FHWA (Federal Highway Administration). 2006. FHWA Roadway Construction Noise Model User's Guide, FHWA-HEP-05-054, January.
- FTA (Federal Transit Administration). 2018. Transit Noise and Vibration Impact Assessment Manual, September 2018. Accessed January 28, 2022. [https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123\\_0.pdf](https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf).

- González-Hurtado, J., Pengpeng, H. Hanping, M. Postman, S. Molnar, and T. Newson. 2017. Field Monitoring and Analysis of an Onshore Wind Turbine Shallow Foundation System. Conference Paper, GeoOttawa 2017, 70th Canadian Geotechnical Conference University, London, Ontario, Canada. Accessed March 23, 2023. [https://www.researchgate.net/publication/320234092\\_Field\\_monitoring\\_and\\_analysis\\_of\\_an\\_onshore\\_wind\\_turbine\\_shallow\\_foundation\\_system](https://www.researchgate.net/publication/320234092_Field_monitoring_and_analysis_of_an_onshore_wind_turbine_shallow_foundation_system).
- Horse Heaven Wind Farm, LLC. 2021a. Response to Data Request No. 3; Noise-5, Noise-6 and Noise-7. Submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2021b. Response to Data Request No. 5; Noise-9. Submitted to the Washington Energy Facility Site Evaluation Council in support of Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Application for Site Certification EFSEC Docket Number: EF-210011.
- Horse Heaven Wind Farm, LLC. 2021c. Technical Memorandum. Horse Heaven Wind Farm – Acoustic Model Sound Source Input Data. November 2021.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Updated December 2022.
- Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.
- Møller, H., and Pedersen, C. 2011. Low-frequency Noise from Large Wind Turbines. *Journal of the Acoustical Society of America*. Accessed March 23, 2023. <https://pubs.aip.org/asa/jasa/article/129/6/3727/832836/Low-frequency-noise-from-large-wind-turbines>.
- NEMA (National Electrical Manufacturers Association). 2019. NEMA Standards Publication TR-2013. 2019. Transformers, Step Voltage Regulators and Reactors. Rosslyn, Virginia.
- Tetra Tech. 2021. Baseline Sound Survey Report, Benton County, Washington. Prepared by Tetra Tech for Horse Heaven Wind Farm, LLC. February 2021.
- Section 4.12 – Recreation**
- DNR (Washington Department of Natural Resources, Division of Geology and Earth Resources). 2016. Ice Age Floods National Geologic Trail, Washington Section – Earth Science Week. 2016. Accessed December 1, 2021. [https://www.dnr.wa.gov/publications/ger\\_presentations\\_esw\\_2016\\_coe.pdf](https://www.dnr.wa.gov/publications/ger_presentations_esw_2016_coe.pdf).
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.
- Paragliding Forum. Not dated. Leonardo: The Global Flight Database. Takeoffs from Kiona. Accessed September 27, 2022. <https://www.paraglidingforum.com/leonardo/page/filter>.

SWCA. 2022. Horse Heaven Wind Farm Project Final Visual Impact Assessment Report. April 2022

### **Section 4.13 – Public Health and Safety**

Carbon Brief. 2014. Factcheck: How Often Do Wind Turbines Catch Fire? And Does It Matter? July 17, 2014. Accessed December 27, 2021. <https://www.carbonbrief.org/factcheck-how-often-do-wind-turbines-catch-fire-and-does-it-matter>.

Carter, Mike. 2019. Juniper Fire in Klickitat County 80% Contained, Response to Downgrade Tuesday. Seattle Times. July 21, 2019.

Hoen, B.D., Diffendorfer, J.E., Rand, J.T., Kramer, L.A., Garrity, C.P., and Hunt, H.E., 2018, United States Wind Turbine Database (ver. 6.0, May 2023): U.S. Geological Survey, American Clean Power Association, and Lawrence Berkeley National Laboratory data release, <https://doi.org/10.5066/F7TX3DN0>. Accessed July 28, 2023. <https://eerscmap.usgs.gov/uswtodb/>.

Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.

### **Section 4.14 – Transportation**

Benton County. 2021. 2022 – 2027 Six-Year Road Program. Accessed February 14, 2022. <https://www.co.benton.wa.us/files/documents/2022-2027Six-YearRoadProgram1349042210110521PM.pdf>.

Benton County. 2022. 2017 Benton County Comprehensive Plan, Adopted February 13, 2018, Updated April 2022. Accessed May 31, 2022. <https://co.benton.wa.us/pview.aspx?id=1425&catID=0&msclkid=16257c49af7a11ecba7ce7f595ff9205>.

Benton County. Not dated. Benton County Standard Plans. Accessed May 4, 2022. <https://www.co.benton.wa.us/pview.aspx?id=10160&catid=0>.

EPA (U.S. Environmental Protection Agency). 2013. Renewable Energy Fact Sheet: Wind Turbines. Accessed May 5, 2022. [https://www.epa.gov/sites/default/files/2019-08/documents/wind\\_turbines\\_fact\\_sheet\\_p100il8k.pdf](https://www.epa.gov/sites/default/files/2019-08/documents/wind_turbines_fact_sheet_p100il8k.pdf).

Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.

TRB (Transportation Research Board). 2016. Highway Capacity Manual, Sixth Edition: A Guide for Multimodal Mobility Analysis. Transportation Research Board: Washington, D.C.

USDOT (U.S. Department of Transportation). Not dated. FRA – Safety Map. Accessed January 20, 2022. <https://fragis.fra.dot.gov/GISFRASafety/>.

USDOT (U.S. Department of Transportation). 2020. Freight Management and Operations. Accessed January 20, 2022. <https://ops.fhwa.dot.gov/publications/fhwahop16051/ch5.htm>.

USDOT FHWA (U.S. Department of Transportation Federal Highway Administration). 2021. FHWA Work Zone Facts and Statistics. Accessed: January 4, 2022. [https://ops.fhwa.dot.gov/wz/resources/facts\\_stats.htm](https://ops.fhwa.dot.gov/wz/resources/facts_stats.htm).

#### **Section 4.15 – Public Services and Utilities**

Benton County. 2014. 2013 Update Benton County Solid Waste and Moderate Risk Waste Plan – Final Draft. Accessed January 3, 2022. <https://www.co.benton.wa.us/files/documents/document133022317111714.pdf>.

Benton County. 2022. 2017 Benton County Comprehensive Plan, Updated April 2022, Adopted February 13, 2018. Amendments adopted by resolution January 14, 2020. Accessed November 3, 2021. <https://co.benton.wa.us/pview.aspx?id=1425&catID=0&msclid=16257c49af7a11ecba7ce7f595ff9205>.

Clark County, Washington. 2015. Clark County Solid Waste Management Plan 2015. Accessed January 3, 2022. <https://clark.wa.gov/public-health/solid-waste-management-plan>.

Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.

Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.

Curtis, Taylor L., Ligia Smith, Heather Buchanan, and Garvin Heath. 2021. A Circular Economy for Lithium-Ion Batteries Used in Mobile and Stationary Energy Storage: Drivers, Barriers, Enablers, and U.S. Policy Considerations. Golden, CO: National Renewable Energy Laboratory. NREL/TP-6A20-77035. Accessed July 31, 2023. <https://www.nrel.gov/docs/fy21osti/77035>.

Washington State Department of Health. 2002. Rule Development Committee Issues Research Report – Residential Flow Rates. Accessed January 11, 2022. <https://www.doh.wa.gov/portals/1/Documents/Pubs/337-103.pdf>.

Waste Management. 2019. Columbia Ridge Landfill and Green Energy Plant. Accessed January 3, 2022. <https://www.wmnorthwest.com/landfill/pdf/columbiaridge.pdf>.

Waste Management. 2023. 8 Yard Commercial Dumpster. Accessed July 31, 2023. <https://www.wm.com/us/en/business/business-waste-recycling-pickup/8-yard-trash-recycling>.

WSDOT (Washington State Department of Transportation). 2022. 2022 Standard Specifications M 41-10. Division 9 Materials. Accessed May 29, 2022. <https://wsdot.wa.gov/publications/manuals/fulltext/M41-10/Division9.pdf>.

#### **Section 4.16 – Socioeconomics**

Business Development Bank of Canada. Not dated. Economic Environment. Accessed March 16, 2022. <https://www.bdc.ca/en/articles-tools/entrepreneur-toolkit/templates-business-guides/glossary/economic-environment>.

- CEQ (Council on Environmental Quality). 1997. Environmental Justice Guidance Under the National Environmental Policy Act. Accessed February 22, 2022. [https://www.energy.gov/sites/default/files/nepapub/nepa\\_documents/RedDont/G-CEQ-EJGuidance.pdf](https://www.energy.gov/sites/default/files/nepapub/nepa_documents/RedDont/G-CEQ-EJGuidance.pdf).
- EPA (U.S. Environmental Protection Agency). 2020. Technical Guidance for Assessing Environmental Justice in Regulatory Analysis. Accessed March 2, 2022. [https://www.epa.gov/sites/default/files/2016-06/documents/ejtg\\_5\\_6\\_16\\_v5.1.pdf](https://www.epa.gov/sites/default/files/2016-06/documents/ejtg_5_6_16_v5.1.pdf).
- Florida State University. 2000. Analysing the Economic Impact of Transportation Projects Using RIMS II, IMPLAN, and REM I. Accessed February 22, 2022. <https://cefa.fsu.edu/sites/g/files/imported/storage/original/application/18d780904fc532b3cf0bcdcc8a082bfa.pdf>.
- Horse Heaven Wind Farm, LLC. 2022. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Updated Application for Site Certification EFSEC Docket Number: EF-210011. February 2021, Revised December 2022.
- Horse Heaven Wind Farm, LLC. 2023. Horse Heaven Wind Farm Washington Energy Facility Site Evaluation Council Final Application for Site Certification EFSEC Docket Number: EF-210011. September 2023.
- Tetra Tech, 2023. Horse Heaven Wind Farm Concrete Batch Plant and Stationary Engines, Benton County, Washington, June 2023. Prepared for Horse Heaven Wind Farm, LLC.
- U.S. Congress. Not dated. Visit the Capital. Accessed March 13, 2022. <https://www.visitthecapitol.gov/exhibitions/april-2012-september-2012/general-welfare>.
- USDA (United States Department of Agriculture). 2003. Measuring the Economic Impact of Cooperatives: Results from Wisconsin. Accessed April 28, 2022. <https://www.rd.usda.gov/files/RR196.pdf>.
- U.S. Census Bureau (United States Census Bureau). 2020. 2019 American Community Survey 5-Year Estimates Subject Tables. Table Created January 24, 2022. [https://data.census.gov/cedsci/table?q=0400000US53\\_0500000US53005,53021,53071,53077\\_1600000US5305560,5314485,5334575,5335275,5345180,5353545,5356450,5358235,5377665&d=ACS%205-Year%20Estimates%20Subject%20Tables&tid=ACSSST5Y2019.S1901](https://data.census.gov/cedsci/table?q=0400000US53_0500000US53005,53021,53071,53077_1600000US5305560,5314485,5334575,5335275,5345180,5353545,5356450,5358235,5377665&d=ACS%205-Year%20Estimates%20Subject%20Tables&tid=ACSSST5Y2019.S1901)
- U.S. Department of Health and Human Services. Not dated. Social Determinants of Health. Accessed March 16, 2022. <https://health.gov/healthypeople/objectives-and-data/social-determinants-health>.

## 6.6 Chapter 5 – Cumulative Impacts

- Council on Environmental Quality (CEQ). 1997. Cumulative Effects. Accessed September 7, 2021. [https://ceq.doe.gov/publications/cumulative\\_effects.html](https://ceq.doe.gov/publications/cumulative_effects.html).
- Council on Environmental Quality (CEQ). 2005. Guidance on the Consideration of Past Actions in Cumulative Effects Analysis. Accessed October 1, 2021. [https://www.energy.gov/sites/default/files/nepapub/nepa\\_documents/RedDont/G-CEQ-PastActsCumulEffects.pdf](https://www.energy.gov/sites/default/files/nepapub/nepa_documents/RedDont/G-CEQ-PastActsCumulEffects.pdf).
- DNR (Washington State Department of Natural Resources). Not dated. *Texosporium sancti-jacobi*. Accessed September 27, 2022. [https://www.dnr.wa.gov/publications/amp\\_nh\\_tesa.pdf](https://www.dnr.wa.gov/publications/amp_nh_tesa.pdf).

EPA (U. S. Environmental Protection Agency). 1999. Consideration Of Cumulative Impacts In EPA Review of NEPA Documents. Accessed March 7, 2022. <https://www.epa.gov/sites/default/files/2014-08/documents/cumulative.pdf>.

Jansen E. W. 2023. Cumulative Effects to Birds, Bats, and Land Cover from Renewable Energy Development in the Columbia Plateau Ecoregion of Eastern Oregon and Washington. Prepared for Scout Clean Energy. Prepared by Western EcoSystems Technology, Inc (WEST), Corvallis, Oregon. Jan 9, 2023. 106 pages + appendices.

WDFW (Washington Department of Fish and Wildlife). 2022a. Ecosystems in Washington: Shrubsteppe. Accessed September 27, 2022. <https://wdfw.wa.gov/species-habitats/ecosystems/shrubsteppe>.

WDFW (Washington Department of Fish and Wildlife). 2022b. Species in Washington: Ferruginous hawk. Accessed September 27, 2022. <https://wdfw.wa.gov/species-habitats/species/buteo-regalis#resources>.

### **Sources of Cumulative Impact Projects**

Benton County. 2021. Active Projects. Accessed August 26, 2021. <https://www.co.benton.wa.us/pview.aspx?id=1369&catid=46>.

Benton County. 2021. Six-year Transportation Improvement Program. Accessed August 26, 2021. <https://www.co.benton.wa.us/pview.aspx?id=10589&catid=0>.

Benton County Clean Air Agency. 2021. Air Operating Permits. Accessed August 26, 2021. <http://bentoncleanair.org/businesses/air-operating-permits>.

Benton County Public Utility District. Wind. Accessed August 26, 2021. <https://www.bentonpud.org/Account/Special-Programs/Green-Power-Program>.

Cascade Renewable Transmission. 2021. Cascade Renewable Transmission. Accessed August 26, 2021. <https://www.cascaderenewable.com/>.

Ecology (Washington State Department of Ecology). 2018. State Environmental Policy Act Handbook 2018 Updates. Accessed September 7, 2021. <https://ecology.wa.gov/DOE/files/4c/4c9fec2b-5e6f-44b5-bf13-b253e72a4ea1.pdf>.

Ecology (Washington State Department of Ecology). 2021. SEPA Register. Accessed October 1, 2021. <https://apps.ecology.wa.gov/separ/Main/SEPA/Search.aspx?SearchFields=All&County=BENTON&PageSize=10&SortColumn=SEPANumberDescending>

EFSEC (Washington Energy Facility Site Evaluation Council). 2005. Wild Horse Wind Power Project. Accessed September 7, 2021. <https://www.efsec.wa.gov/energy-facilities/wild-horse-wind-power-project/wild-horse-wind-power-project-sepa>.

EFSEC (Washington Energy Facility Site Evaluation Council). 2011. Whistling Ridge Energy Project Final Environmental Impact Statement. Accessed September 7, 2021. <https://www.efsec.wa.gov/energy-facilities/whistling-ridge-energy-project/whistling-ridge-energy-project-sepa>.

EFSEC (Washington Energy Facility Site Evaluation Council). 2021. Energy Facilities Projects Under EFSEC Jurisdiction. Accessed August 26, 2021. <https://www.efsec.wa.gov/energy-facilities>.

Franklin Public Utility District. 2021. Power Resources. Accessed August 27, 2021.

<https://www.franklinpud.com/rates-power-services/power-resources/>.

Klickitat Public Utility District. 2021. White Creek Wind Project. Accessed August 26, 2021.

<http://www.klickitatpud.com/yourPUD/projects/WhiteCreek.aspx>.

State of Oregon Energy Facility Siting Council. 2021. Facilities Under EFSC. Accessed August 26, 2021.

<https://www.oregon.gov/energy/facilities-safety/facilities/Pages/Facilities-Under-EFSC.aspx>.

U.S. Army Corps of Engineers. 2021. Walla Walla Regulatory Division. Accessed August 27, 2021.

<https://www.nww.usace.army.mil/Business-With-Us/Regulatory-Division/>.

U.S Department of Energy. 2021. Introducing Cumulative Effects. Accessed August 27, 2021.

<https://ceq.doe.gov/docs/ceq-publications/ccenepa/sec1.pdf>.

Walla Walla County. 2021. Planning Commission. Accessed August 27, 2021. [https://www.co.walla-](https://www.co.walla-walla.wa.us/government/community_development/planning_commission.php)

[walla.wa.us/government/community\\_development/planning\\_commission.php](https://www.co.walla-walla.wa.us/government/community_development/planning_commission.php).

WSDOT (Washington State Department of Transportation). 2021. Statewide Transportation Improvement Program (STIP). Accessed August 26, 2021. [https://wsdot.wa.gov/business-wsdot/support-local-](https://wsdot.wa.gov/business-wsdot/support-local-programs/delivering-your-project/statewide-transportation-improvement-program-stip)

[programs/delivering-your-project/statewide-transportation-improvement-program-stip](https://wsdot.wa.gov/business-wsdot/support-local-programs/delivering-your-project/statewide-transportation-improvement-program-stip).

WSDOT (Washington State Department of Transportation). 2022. Environmental Manual M 31-11: Chapter 4:12 Indirect Effects and Cumulative Impacts. Accessed October 17, 2022. [https://wsdot.wa.gov/business-](https://wsdot.wa.gov/business-wsdot/support-local-programs/delivering-your-project/statewide-transportation-improvement-program-stip)

[wsdot/support-local-programs/delivering-your-project/statewide-transportation-improvement-program-stip](https://wsdot.wa.gov/business-wsdot/support-local-programs/delivering-your-project/statewide-transportation-improvement-program-stip).