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ACRONYMS & ABBREVIATIONS

ACRONYMS & ABBREVIATIONS

μg/L Micrograms per Liter

μs/cm Microsiemens per Centimeter
ADA Americans with Disabilities Act

ARPA Archeological Resources Protection Act

AST Aboveground Storage Tank

ASTM American Society for Testing and Materials

AUM Animal Units per Month
bgs Below Ground Surface
BLM Bureau of Land Management

°C Degrees Celsius

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFR Code of Federal Regulations cfs Cubic feet per second

CMP Conceptual Management Plan

CRSC Center for Remote Sensing and Cartography

DCNR Department of Conservation and Natural Resources

DO Dissolved Oxygen

EIS Environmental Impact Statement EPA Environmental Protection Agency

ESA Endangered Species Act
°F Degrees Fahrenheit
FAS Federal Aid Secondary

FEIS Final Environmental Impact Statement FEMA Federal Emergency Management Agency

GIS Geographic Information System

IMACS Intermountain Antiquities Computer System

KGRA Known Geothermal Resource Area

LBAO Lahontan Basin Area Office
MCE Maximum Credible Earthquake
MCL Maximum Contaminant Level

mg/L Milligrams per Liter
M & I Municipal and Industrial
MOA Memorandum of Agreement

NAGPRA Native American Graves Protection and Repatriation Act

NDEP Nevada Division of Environmental Protection

NDOW Nevada Department of Wildlife NDWP Nevada Division of Water Planning NEPA National Environmental Policy Act

ng/L Nanograms per liter

NHPA National Historic Preservation Act

NOI Notice of Intent

NPDES National Pollution Discharge Elimination System

NPS National Park Service

NPU Nephelometric Turbidity Units

NRCS Natural Resource Conservation Service
NRHP National Register of Historic Places

NRS Nevada Revised Statute

NvNHP Nevada Natural Heritage Program OCTA Oregon-California Trail Association

PA Programmatic Agreement PCU Platinum Cobalt Units

PCWCD Pershing County Water Conservation District

PILT Payment in Lieu of Taxes

P.L. Public Law

PVA Prospectively Valuable Area
Reclamation Bureau of Reclamation
RMP Resource Management Plan

ROD Record of Decision

SAR Sodium Adsorption Ratio

Secretary Secretary of the Interior (U. S. Department of the Interior)

State Historic Preservation Office **SHPO** State Parks Nevada Division of State Parks **TCP** Traditional Cultural Property University of Nevada, Reno **UNR** U. S. Bureau of Reclamation **USBR USFWS** U.S. Fish and Wildlife Service **USGS** United States Geological Survey **Underground Storage Tank UST** WMA Wildlife Management Area

HUMBOLDT PROJECT CHRONOLOGY

Chronology Humboldt Project Conveyance DEIS

HUMBOLDT PROJECT CHRONOLOGY

	HUMBOLDT PROJECT CHRONOLOGY
DATE	DESCRIPTION
August 27, 1908	Humboldt-Lovelock Irrigation and Light & Power Company files application with State for 300 c.f.s. of Humboldt River floodwater
February 10, 1911	Humboldt-Lovelock Irrigation Light & Power Company files second application with State for 57,000 a.f. of Humboldt River floodwater
1913	Humboldt-Lovelock Irrigation Light & Power Company constructs Pitt and Taylor reservoirs and diversion channel (49,000 a.f. designed capacity, but actual capacity is close to 30,000 a.f.)
1919	Reclamation Service conducts preliminary investigation of reservoir sites and study of Humboldt River runoff
1923	Nevada State Engineer orders a general adjudication of the Humboldt River system
March 1, 1926	Lovelock Irrigation District organized for the primary purpose of exploring possible storage sites on the Humboldt River
March 5, 1927	Lovelock Irrigation District reorganizes as a quasi-governmental entity under the Nevada Irrigation District Act and changes its name to the Pershing County Water Conservation District
October 20, 1931	Hon. George A. Bartlett of Nevada Sixth Judicial District issues final decree establishing the water rights for the Humboldt River Basin
1932	State Engineer's Office publishes report regarding distribution of the waters of the Humboldt River
March 1933	Nevada Governor Belzar and representatives from all Nevada irrigation projects meet in Washington D.C. to lobby for a Humboldt River water control project
July 1933	Reclamation engineer L. J. Foster publishes his report on Humboldt River Basin investigations conducted from 1932-1933
August 24, 1933	Public Works Administration approves allotment of \$2 million for creation of Humboldt Project
January 15, 1934	Contract between PCWCD and Aldous family to purchase Aldous ranch (voided by expiration of time)
January 27, 1934	Contract between PCWCD and Filippini Ranching Company to purchase Argenta ranch and Muleshoe ranch (voided by expiration of time)
March 9-23, 1934	PCWCD files transfer application Nos. 9729-35 with State Engineer's Office
July 15, 1934	Land and Water Rights Purchase Contract between PCWCD and the Aldous family providing for PCWCD's purchase of Aldous ranch
July 25, 1934	Amended and Supplemented Land and Water Rights Purchase Contract between PCWCD and Filippini Ranching Company providing for PCWCD's purchase of Argenta and Muleshoe ranches
October 1, 1934	Contract Ilr-774 between USA and PCWCD for acquisition of water rights and construction of Rye Patch Dam and maximum loan of \$1,500,000 to be repaid over 40-year period
October 8, 1934	State Engineer's Office approves PCWCD's initial Battle Mountain water rights transfer for use on PCWCD lands (Application No. 9729-35)
November 17, 1934	Agreement and Assignment between PCWCD, Reclamation and Filippini Ranching Company assigning to the Bureau of Reclamation the PCWCD's rights under the July 25, 1934 purchase contract between PCWCD and Filippini Ranching Company

	HUMBOLDT PROJECT CHRONOLOGY
DATE	DESCRIPTION
December 12, 1934	Agreement and Assignment between PCWCD, Bureau of Reclamation and Aldous family assigning to the Bureau of Reclamation the PCWCD's rights under the July 15, 1934 purchase contract between PCWCD and the Aldous family
January 14, 1935	Extension Agreement among PCWCD, Bureau of Reclamation, and Aldous family extending time for performance of purchase agreement terms and conditions
January 17, 1935	Warranty Deed executed by Aldous family conveying the Aldous Ranch to United States of America for \$33,500 · 15,000 acres · 4154.06 a.f.
January 26, 1935	Warranty Deed executed by Filippini Ranching Company conveying Argenta and Muleshoe Ranches to United States of America for \$181,000. · 16,000 acres less 640 ac to T.S. Cattle Co. and Hibernia S&L Soc. and less 300 ac to W.E. Licking · Together with all water, water rights, ditches and ditch rights appurtenant
February 5, 1935	Warranty Deed from Ellison Ranching Co. to United States of America 18,000 acres 15,379.22 a.f.
February 7, 1935	Deed from Russell Land and Cattle Co. to United States of America · Conveyance of water only · 562.18 a.f. · 3.645 c.f.s.
March 2, 1935	Deed from Louis G. and Katherine V. Hammond to United States of America . 1,350 acres . 2,988.29 a.f.
March 4, 1935	Warranty Deed from Zebulon and Celina Silve to United States of America · 800 acres · 1,282.87 a.f.
March 4, 1935	Instrument unknown from John G. Taylor Inc. to United States of America (#9731) · 7,000 ac. · 6084.06 a.f.
March 4, 1935	Instrument Unknown from Bains to United States of America 1,800 acres 2,626.27
March 4, 1935	Deed and Assignment from John G. Taylor to United States of America (#10065) · 1154.84 acres · 1657.57 a.f. · 9.385 c.f.s.
October 8, 1935	Hon. H. W. Edwards issues a supplemental decree on the Humboldt River Basin, which taken with the Bartlett Decree constitutes the Humboldt River Decree
November 1, 1935	Secretary of Interior, Harold L. Ickes finds the Humboldt Project feasible
November 6, 1935	President Franklin D. Roosevelt signed Humboldt Project approval
June 1, 1936	Rye Patch Dam construction completed with a design capacity of 170,000 a.f.
September 8, 1936	PCWCD executes deeds to USA assigning all of its interest in the Humboldt Project water rights permits then on file under its name (Nos. 9716, 9729-9735, and 9821)
January 4, 1937	State Engineer's Office approves USA's transfer of Russell Land & Cattle Company Battle Mountain area water rights to PCWCD lands (Application No. 10065)
June 1, 1937	State Engineer's Office approves USA's transfer of John G. Taylor, Inc. water rights

HUMBOLDT PROJECT CHRONOLOGY		
DATE	DESCRIPTION	
	from Valmy area to PCWCD lands (Application No. 10065)	
November 26, 1938	The Humboldt River Adjudication finalized by order of the Nevada Supreme Court,	
	when it affirmed the Humboldt River Decree halting all future challenges	
January 21, 1939	Battle Mountain Water Collection and Development System construction completed	
January 17, 1940	Termination of 5-year use by W. E. Licking of Big Field and Lone Tree Field on	
,	Aldous Ranch	
June 21, 1940	USA acquires Pitt Ranch (1,630 acres) and 28,475 shares Class A stock of Humboldt Lovelock Irrigation Light & Power Co. and 2,000 shares of stock of Old Channel Ditch Co. by warranty deed for \$75,000. This purchase unifies the Lovelock Valley irrigators and allows Rye Patch to fill for the first time due to prior concern that full fill would have inundated the HLIL&P Co. facilities	
December 31, 1940	Secretary of Interior gives notice to PCWCD requesting it to assume care, operation, and maintenance of all project works and property, effective January 16, 1941	
Spring 1941	First deliveries of stored water from Rye Patch Reservoir begin	
August 8, 1941	Contract IIr-774 between USA and PCWCD supplemental to October 1, 1934	
	contract nullifying excess land provision; assigning operation and maintenance of Pitt Ranch to PCWCD as of January 1, 1942, and providing allocation of profits from ranch; and reamortizing repayment obligation over a 35-year period to end on October 1, 1977	
January 26, 1946	Termination of consecutive leases of Argenta and Muleshoe ranches to Filippini	
Junuary 20, 1910	Ranching Co. (1935-1942), T. S. Cattle Co. (1942-1944), and Hibernia Savings &	
	Loan Society (1944-1946)	
1951	PCWCD begins leasing Filippini Ranch from the USBR for Community Pasture	
1,01	grazing	
1953	PCWCD enters into 30-year lease with USBR for both Filippini and Aldous ranches	
-,	for Community Pasture grazing	
October 6, 1955	Contract No. 14-06-200-429 between USA and PCWCD for rehabilitation and betterment of the Battle Mountain Collection System loaning district a maximum of \$123,000 to be repaid at 5 percent over 20 years to replace Upper Slaven Dam, and to make dike, channel, and irrigation ditch improvements	
1955-1957	Rehabilitation and betterment work undertaken and completed	
September 14, 1962	Contract IIr-774 Supplemental No. 2 between USA and PCWCD supplementing October 1, 1934 and August 8, 1941 contracts by deferring balance of 1962 payment (\$33,902.68) and amortizing over remaining repayment period of 15 years	
April 22, 1966	Letter from W.T. Grissom, Bureau of Reclamation Regional Procurement and Property Officer to Fred H. Johnston, Bureau of Reclamation Chief of Real Property Division Utilization and Disposal Service indicating that Bureau of Reclamation has no objection for transfer of 160-acre tract in Battle Mountain area to Lander County for sewage disposal bed, provided that current market value is determined and credited against PCWCD repayment obligation on Community Pasture acquired lands	
1970 - 1979	PCWCD acquires title to each of the six main canal companies within the Lovelock Valley, unifying operations under PCWCD administration.	
June 15, 1971	Interim Management Agreement for Rye Patch Reservoir Recreation Area among USA, PCWCD, and Nevada State Park System (terminated by 5/5/77 agreement)	
August 22, 1975	Contract No. 14-06-200-8194A between USA and PCWCD for rehabilitation and betterment of Rye Patch Dam in increasing height of dam by 3 feet and loaning	

	HUMBOLDT PROJECT CHRONOLOGY
DATE	DESCRIPTION
	District a maximum of \$600,000 (\$287,000 actually spent) to be repaid over a 20-year period following completion of work and calling for application of revenues from government-leased lands to be credited to this debt after prior debts have been satisfied
May 5, 1977	Management Agreement (Contract No. 14 06 200 8273A) between USA, PCWCD and State of Nevada Parks Division for development, administration, operation, and maintenance of recreation at Rye Patch Reservoir for a renewable 25-year period
1978	PCWCD completes repayment of actual original project costs accrued as of December 31, 1936 of \$1,042,869.63, which included \$425,791 spent to acquire land and water rights
January 1, 1979	Lease Agreement between PCWCD and Nevada Department of Conservation and Natural Resources for lease of 40-acre parcel for park caretaker residence
September 17, 1982	Letter from Department of Interior Assistant Secretary, Gary Carruthers to Congressman Morris K. Udall, Chairman Committee on Interior and Insular Affairs, opposing HR 5652, a bill "To authorize and direct the Secretary of Interior to convey real property to the Pershing County Water Conservation District" due to unfinished development of transfer guidelines by DOI
1983	Title transfer effort (H.R. 2551)
April 20, 1989	Lease for Community Pasture, Contract No. 9-07-20-L5086 between PCWCD and USA for 5-year period from January 1, 1989 to December 31, 1994 for \$6,300
February 20, 1991	Title transfer effort (H.R. 1038)
September 30, 1991	Nevada State Parks sends final draft of Rye Patch State Recreation Area Development Plan to PCWCD for review
November 22, 1994	Letter from PCWCD to Reclamation requesting 1-year extension of Community Pasture lease
January 20, 1995	Lease for Community Pasture between PCWCD and USA, Contract No. 5-07-20-L6392 for 1995 calendar year for \$6,300 less District operating expenses
1995	PCWCD hires rangeland consultant to develop ongoing grazing management plan for Community Pasture
August 7, 1995	Reclamation adopts the Framework for the Transfer of Title – Bureau of Reclamation Projects
January 31, 1996	Lease for Community Pasture between PCWCD and USA, Contract No. 5-07-20 L6549 for 1996 calendar year for \$6,300 less District operating expenses
February 29, 1996	Contract No. 6-07-20X0339 between USA and PCWCD for modification to Rye Patch Dam pursuant to the Safety of Dams Act. Total modification costs were approximately \$7.7 million. The contract required that PCWCD repay 15% of the total modification costs over an 8-year period (approximately \$1.1 million). In addition, PCWCD was required to develop a water conservation program
1996	Safety of Dams work completed. Rye Patch Reservoir filled to its present capacity of 213,000 a.f.
August 5, 1997	Lease for Community Pasture between PCWCD and USA, Contract No. 7-07-20 L6751 for 1997 calendar year for \$6,300 less District operating expenses
September 15, 1997	PCWCD request by letter that Reclamation enter into negotiations to transfer title to the Humboldt Project
February 12, 1998	Lease for Community Pasture between PCWCD and USA, Contract No. 8-07-20 L6872 for 1998 calendar year for \$6,300 less District operating expenses
February 26-27, 1998	Public title transfer scoping meeting in Battle Mountain, Lovelock, and Carson City

HUMBOLDT PROJECT CHRONOLOGY		
DATE	DESCRIPTION	
March 17, 1998	Public title transfer scoping meeting in Reno	
January 24, 2000	Lander County Board of Commissioners and the PCWCD Board of Directors draft a Conceptual Memorandum of Agreement to define the proposed transfer of lands from Reclamation to Lander County and PCWCD	
October 18, 2001	State of Nevada signs a Letter of Conceptual Agreement between the State and PCWCD for the proposed title transfer	
February 11, 2002	Lander County Board of Commissioners signs Conceptual Memorandum of Agreement to define the proposed transfer of lands from Reclamation to Lander County and PCWCD	
April 16, 2002	Pershing County Board of Commissioners provide specific language requesting transfer of portions of the Humboldt Sink near Derby Airfield to Pershing County	
November 6, 2002	Title VIII of Public Law 107-282, Humboldt Project Conveyance Act passed by Congress and signed into law	
February 26, 2003	Reclamation publishes a Notice of Intent to prepare an EIS for the Humboldt Project Conveyance in the Federal Register [68 FR 8924]	
January 14, 2004	Reclamation publishes a Notice of Public Scoping for the Humboldt Project Conveyance EIS in the Federal Register [69 FR 2157]	
February 18, 2004	Public Scoping meeting held in Battle Mountain, Nevada	
February 19, 2004	Interagency meeting held in Reno, Nevada	
February 19, 2004	Public Scoping meeting held in Reno, Nevada	