

Westinghouse Chemical Laboratory Report
Westinghouse Columbia Fuel Fabrication Facility

Sample ID	Parameter	Result	Units
WSW-03	Cond	25.8	umho/cm
WSW-03	F	0.013	ppm
WSW-03	Cond_Dup	25.8	umho/cm
WSW-03	pH	4.7	SU
WSW-03	NH3-N	0.0655	ppm
WSW-01	NH3-N	0.0639	ppm
WSW-01	F	0.023	ppm
WSW-01	Cond	19.2	umho/cm
WSW-01	pH	5.22	
WSW-02	Cond	71.6	umho/cm
WSW-02	F	0.103	ppm
WSW-02	Cond_Dup	71.4	umho/cm
WSW-02	pH	6.26	
WSW-02	NH3-N	0.0273	ppm
WSW-04	Cond	47.3	umho/cm
WSW-04	pH	4.18	
WSW-04	F	0.013	ppm
WSW-04	NH3-N	0.0166	ppm
EB-01-100819	pH	6.8	
EB-01-100819	Cond	0.8	umho/cm
EB-01-100819	F	0.001	ppm
EB-01-100819	NH3-N	0.0121	ppm
EB-01-101519	F	0.081	ppm
EB-01-101519	Cond	0.7	umho/cm
EB-01-101519	pH	5.97	
EB-01-101519	NH3-N	0.0756	ppm
EB-01-102219	pH	5.68	
EB-01-102219	Cond	1.5	umho/cm
EB-01-102219	F	0.007	ppm
EB-01-102219	NH3-N	0.0158	ppm
EB-01-102419	Cond	1.5	umho/cm
EB-01-102419	F	<0.100	ppm
EB-01-102419	pH	5.75	
EB-01-102419	NH3-N	0.008	ppm
EB-10-101819	Cond	2	umho/cm
EB-10-101819	F	<0.100	ppm
EB-10-101819	pH	5.55	
EB-10-101819	NH3-N	0.0158	ppm
W-10	Cond	647.7	umho/cm
W-10	F	3.32	ppm
W-10	pH	6.87	
W-10	NH3-N	6.46	ppm
W-10-Dup	Cond	646.7	umho/cm
W-10-Dup	F	3.25	ppm
W-10-Dup	pH	6.77	
W-10-Dup	NH3-N	6.62	ppm

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Sample ID	Parameter	Result	Units
W-11	Cond	560.5	umho/cm
W-11	F	0.021	ppm
W-11	Cond_Dup	559.5	umho/cm
W-11	pH	6.63	
W-11	NH3-N	4.09	ppm
W-13R	pH	6.93	
W-13R	Cond	721.6	umho/cm
W-13R	F	8.11	ppm
W-13R	NH3-N	31.5	ppm
W-14	F	0.079	ppm
W-14	Cond	582.4	umho/cm
W-14	Cond_Dup	581.3	umho/cm
W-14	pH	6.61	
W-14	NH3-N	4.26	ppm
W-15	Cond	552	umho/cm
W-15	F	1.88	ppm
W-15	Cond_Dup	550.9	umho/cm
W-15	pH	6.76	
W-15	NH3-N	12.6	ppm
W-16	Cond	401.5	umho/cm
W-16	pH	6.52	
W-16	F	9.5	ppm
W-16	NH3-N	13.3	ppm
W-17	Cond	400.8	umho/cm
W-17	F	2.22	ppm
W-17	pH	6.51	
W-17	NH3-N	5.79	ppm
W-18R	pH	7.77	
W-18R	Cond	6472	umho/cm
W-18R	F	6.34	ppm
W-18R	NH3-N	126	ppm
W-19B	Cond	84.1	umho/cm
W-19B	F	0.019	ppm
W-19B	Cond_Dup	85	umho/cm
W-19B	pH	6.01	
W-19B	NH3-N	0.0146	ppm
W-19B-MS	Cond	84.1	umho/cm
W-19B-MS	F	0.026	ppm
W-19B-MS	pH	6.2	
W-19B-MS	NH3-N	0.0165	ppm
W-19B-MSD	pH	5.86	
W-19B-MSD	Cond	84.8	umho/cm
W-19B-MSD	F	0.016	ppm
W-19B-MSD	NH3-N	0.0166	ppm
W-20	Cond	149.2	umho/cm
W-20	F	0.077	ppm

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Sample ID	Parameter	Result	Units
W-20	Cond_Dup	147.8	umho/cm
W-20	pH	6.1	
W-20	NH3-N	0.0632	ppm
W-22	Cond	1554	umho/cm
W-22	F	5.52	ppm
W-22	pH	5.96	
W-22	NH3-N	61.8	ppm
W-23R	Cond	55.9	umho/cm
W-23R	F	0.017	ppm
W-23R	pH	5.63	
W-23R	NH3-N	0.0154	ppm
W-24	Cond	58.4	umho/cm
W-24	F	0.025	ppm
W-24	pH	5.76	
W-24	NH3-N	0.0283	ppm
W-25	F	0.126	ppm
W-25	Cond	166.3	umho/cm
W-25	Cond_Dup	165.9	umho/cm
W-25	pH	6.5	
W-25	NH3-N	1.91	ppm
W-26	Cond	251.3	umho/cm
W-26	F	1.42	ppm
W-26	Cond_Dup	249.7	umho/cm
W-26	pH	6.17	
W-26	NH3-N	1.75	ppm
W-27	F	3.97	ppm
W-27	Cond	344.9	umho/cm
W-27	pH	6.8	
W-27	NH3-N	6.29	ppm
W-28	Cond	744.2	umho/cm
W-28	F	5.45	ppm
W-28	Cond_Dup	741.4	umho/cm
W-28	pH	6.09	
W-28	NH3-N	0.884	ppm
W-29	Cond	452.5	umho/cm
W-29	F	4.8	ppm
W-29	pH	7.82	
W-29	NH3-N	22.4	ppm
W-30	Cond	1280	umho/cm
W-30	F	8.06	ppm
W-30	pH	6.46	
W-30	NH3-N	1.83	ppm
W-32	Cond	1850	umho/cm
W-32	F	3.66	ppm
W-32	pH	7.33	
W-32	NH3-N	47.9	ppm

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Sample ID	Parameter	Result	Units
W-33	Cond	198.5	umho/cm
W-33	F	0.152	ppm
W-33	Cond_Dup	198.8	umho/cm
W-33	pH	5.74	
W-33	NH3-N	0.0134	ppm
W-33-Dup	Cond	199.5	umho/cm
W-33-Dup	F	0.136	ppm
W-33-Dup	pH	5.73	
W-33-Dup	NH3-N	0.0189	ppm
W-35	F	0.025	ppm
W-35	Cond	165.1	umho/cm
W-35	Cond_Dup	167.1	umho/cm
W-35	pH	6.11	
W-35	NH3-N	0.0075	ppm
W-36	pH	5.65	
W-36	Cond	39.5	umho/cm
W-36	F	0.007	ppm
W-36	NH3-N	0.0089	ppm
W-37	Cond	168.7	umho/cm
W-37	F	0.02	ppm
W-37	pH	6.09	
W-37	NH3-N	0.0088	ppm
W-38	Cond	203.4	umho/cm
W-38	F	0.176	ppm
W-38	Cond_Dup	202.8	umho/cm
W-38	pH	6.36	
W-38	NH3-N	0.0141	ppm
W-38-MS	pH	5.62	
W-38-MS	Cond	202.2	umho/cm
W-38-MS	F	0.81	ppm
W-38-MS	NH3-N	0.0157	ppm
W-38-MSD	Cond	201.7	umho/cm
W-38-MSD	F	0.174	ppm
W-38-MSD	pH	6.14	
W-38-MSD	NH3-N	0.0121	ppm
W-39	pH	5.59	
W-39	Cond	828.9	umho/cm
W-39	F	0.024	ppm
W-39	NH3-N	0.0218	ppm
W-3A	Cond_Dup	25.9	umho/cm
W-3A	pH	6.79	
W-3A	Cond	25.3	umho/cm
W-3A	F	0.015	ppm
W-3A	NH3-N	0.0256	ppm
W-4	pH	6.85	
W-4	Cond	331.7	umho/cm

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Sample ID	Parameter	Result	Units
W-4	F	4.86	ppm
W-4	NH3-N	0.404	ppm
W-40	Cond	132.9	umho/cm
W-40	F	0.166	ppm
W-40	pH	6.73	
W-40	NH3-N	0.0203	ppm
W-41R	Cond	649.1	umho/cm
W-41R	F	0.03	ppm
W-41R	pH	5.68	
W-41R	NH3-N	0.0299	ppm
W-42	Cond_Dup	88.5	umho/cm
W-42	Cond	88.2	umho/cm
W-42	F	1.99	ppm
W-42	pH	5.55	
W-42	NH3-N	0.806	ppm
W-43	Cond	106.1	umho/cm
W-43	F	0.111	ppm
W-43	Cond_Dup	106.1	umho/cm
W-43	pH	6.9	
W-43	NH3-N	0.0198	ppm
W-44	Cond	93.5	umho/cm
W-44	F	0.023	ppm
W-44	pH	5.41	
W-44	NH3-N	0.0186	ppm
W-45	Cond	2017	umho/cm
W-45	F	0.633	ppm
W-45	Cond_Dup	2040	umho/cm
W-45	pH	6.39	
W-45	NH3-N	2.08	ppm
W-46	Cond	205.2	umho/cm
W-46	F	0.033	ppm
W-46	Cond_Dup	204.5	umho/cm
W-46	pH	6.01	
W-46	NH3-N	0.0129	ppm
W-47	Cond	652.4	umho/cm
W-47	F	4.45	ppm
W-47	pH	6.36	
W-47	NH3-N	16.5	ppm
W-48	Cond	123.4	umho/cm
W-48	F	0.33	ppm
W-48	pH	5.71	
W-48	NH3-N	0.0446	ppm
W-48-Dup	Cond	124.1	umho/cm
W-48-Dup	F	0.321	ppm
W-48-Dup	pH	5.67	
W-48-Dup	NH3-N	0.0422	ppm

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Sample ID	Parameter	Result	Units
W-49	Cond	34.3	umho/cm
W-49	F	0.003	ppm
W-49	Cond_Dup	34.5	umho/cm
W-49	pH	5.42	
W-49	NH3-N	0.0151	ppm
W-49-Dup	Cond	34.3	umho/cm
W-49-Dup	F	0.053	ppm
W-49-Dup	pH	5.66	
W-49-Dup	NH3-N	0.0097	ppm
W-5	F	0.23	ppm
W-50	Cond	28.4	umho/cm
W-50	F	0.035	ppm
W-50	pH	5.34	
W-50	NH3-N	0.0185	ppm
W-51	F	0.215	ppm
W-51	Cond	144	umho/cm
W-51	pH	6.2	
W-51	NH3-N	0.256	ppm
W-52	Cond	241.7	umho/cm
W-52	F	1.39	ppm
W-52	pH	6.46	
W-52	NH3-N	0.0212	ppm
W-53	Cond	213.6	umho/cm
W-53	F	0.081	ppm
W-53	Cond_Dup	219.1	umho/cm
W-53	pH	6.34	
W-53	NH3-N	0.0397	ppm
W-54	F	0.258	ppm
W-54	Cond	176.3	umho/cm
W-54	Cond_Dup	176.2	umho/cm
W-54	pH	6.25	
W-54	NH3-N	0.0037	ppm
W-54-Dup	Cond	178.3	umho/cm
W-54-Dup	F	0.26	ppm
W-54-Dup	pH	7.32	
W-54-Dup	NH3-N	0.0125	ppm
W-55	F	0.062	ppm
W-55	Cond	152.3	umho/cm
W-55	pH	6.16	
W-55	NH3-N	0.0108	ppm
W-56	Cond	185.4	umho/cm
W-56	F	0.257	ppm
W-56	Cond_Dup	185	umho/cm
W-56	pH	5.82	
W-56	NH3-N	0.009	ppm
W-57	pH	6.5	

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Sample ID	Parameter	Result	Units
W-57	Cond	167.1	umho/cm
W-57	F	0.057	ppm
W-57	NH3-N	0.0155	ppm
W-58	Cond	391.2	umho/cm
W-58	F	0.18	ppm
W-58	pH	7.17	
W-58	NH3-N	18.6	ppm
W-59	Cond_Dup	448.6	umho/cm
W-59	Cond	447.5	umho/cm
W-59	F	4.18	ppm
W-59	pH	6.79	
W-59	NH3-N	12.3	ppm
W-6	NH3-N	0.0073	ppm
W-6	Cond	2239	umho/cm
W-6	F	0.126	ppm
W-6	Cond_Dup	2244	umho/cm
W-6	pH	6.68	
W-6	NH3-N	134	ppm
W-60	Cond	107.8	umho/cm
W-60	F	0.034	ppm
W-60	Cond_Dup	107.7	umho/cm
W-60	pH	6.08	
W-60	NH3-N	0.0251	ppm
W-61	Cond	115.5	umho/cm
W-61	F	0.036	ppm
W-61	pH	6	
W-61	NH3-N	0.0274	ppm
W-62	Cond	89	umho/cm
W-62	F	0.019	ppm
W-62	pH	5.85	
W-62	NH3-N	0.0162	ppm
W-63	Cond	377.5	umho/cm
W-63	F	0.259	ppm
W-63	Cond_Dup	378.1	umho/cm
W-63	pH	7.07	
W-63	NH3-N	0.023	ppm
W-64	Cond	635	umho/cm
W-64	F	4.27	ppm
W-64	pH	6.23	
W-64	NH3-N	16	ppm
W-64-MS	Cond	636.6	umho/cm
W-64-MS	F	4.54	ppm
W-64-MS	Cond_Dup	635.9	umho/cm
W-64-MS	pH	6.35	
W-64-MS	NH3-N	15.9	ppm
W-64-MSD	pH	6.29	

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Sample ID	Parameter	Result	Units
W-64-MSD	Cond	638.2	umho/cm
W-64-MSD	F	4.34	ppm
W-64-MSD	NH3-N	16.2	ppm
W-65	F	0.783	ppm
W-65	Cond	144.5	umho/cm
W-65	pH	6.52	
W-65	NH3-N	0.0489	ppm
W-66	Cond	93.8	umho/cm
W-66	F	0.076	ppm
W-66	pH	5.83	
W-66	NH3-N	0.0336	ppm
W-67	pH	6.04	
W-67	Cond	242.3	umho/cm
W-67	F	0.01	ppm
W-67	NH3-N	1.31	ppm
W-68	Cond	88.2	umho/cm
W-68	F	0.02	ppm
W-68	pH	5.56	
W-68	NH3-N	0.0143	ppm
W-69	pH	6.05	
W-69	Cond	106.9	umho/cm
W-69	F	0.022	ppm
W-69	NH3-N	0.0341	ppm
W-70	Cond	66.9	umho/cm
W-70	F	<0.100	ppm
W-70	Cond_Dup	67.2	umho/cm
W-70	pH	5.39	
W-70	NH3-N	0.0077	ppm
W-71	pH	6.63	
W-71	Cond	92.1	umho/cm
W-71	F	0.084	ppm
W-71	NH3-N	0.0149	ppm
W-72	Cond	170.7	umho/cm
W-72	F	0.116	ppm
W-72	pH	6.34	
W-72	NH3-N	0.275	ppm
W-73	Cond	159	umho/cm
W-73	F	0.071	ppm
W-73	pH	6.07	
W-73	NH3-N	0.0167	ppm
W-74	Cond	130.3	umho/cm
W-74	F	0.019	ppm
W-74	Cond_Dup	127.4	umho/cm
W-74	pH	7.27	
W-74	NH3-N	0.159	ppm
W-75	Cond	171.9	umho/cm

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W-75	F	0.109	ppm
W-75	pH	7.16	
W-75	NH3-N	0.391	ppm
W-76	Cond	169	umho/cm
W-76	F	1.45	ppm
W-76	pH	5.45	
W-76	NH3-N	0.0154	ppm
W-77	Cond	1380	umho/cm
W-77	F	9.21	ppm
W-77	Cond_Dup	1386	umho/cm
W-77	pH	8.8	
W-77	NH3-N	7.11	ppm
W-78	pH	6.41	
W-78	F	13.4	ppm
W-78	Cond	259.4	umho/cm
W-78	NH3-N	0.0271	ppm
W-79	pH	6.1	
W-79	Cond	176.7	umho/cm
W-79	F	2.4	ppm
W-79	Cond_Dup	172.1	umho/cm
W-79	NH3-N	0.0146	ppm
W-7A	F	6.47	ppm
W-7A	Cond	4139	umho/cm
W-7A	Cond_Dup	4144	umho/cm
W-7A	pH	7.58	
W-7A	NH3-N	48.5	ppm
W-80	Cond	445.2	umho/cm
W-80	F	1.57	ppm
W-80	pH	5.68	
W-80	NH3-N	0.0927	ppm
W-81	pH	5.8	
W-81	Cond	211	umho/cm
W-81	F	0.042	ppm
W-81	Cond_Dup	211.4	umho/cm
W-81	NH3-N	0.0762	ppm
W-82	Cond	165.6	umho/cm
W-82	F	0.046	ppm
W-82	pH	5.98	
W-82	NH3-N	0.0275	ppm
W-83	Cond	132.4	umho/cm
W-83	F	0.079	ppm
W-83	pH	6.48	
W-83	NH3-N	0.0099	ppm
W-84	Cond	171.5	umho/cm
W-84	F	0.087	ppm
W-84	Cond_Dup	171.8	umho/cm

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W-84	pH	7.42	
W-84	NH3-N	0.0119	ppm
W-85	Cond	318.1	umho/cm
W-85	pH	6.4	
W-85	NH3-N	0.03	ppm
W-86	pH	6.28	
W-86	Cond	306.5	umho/cm
W-86	F	0.511	ppm
W-86	Cond_Dup	304.7	umho/cm
W-87	Cond	177.4	umho/cm
W-87	F	0.278	ppm
W-87	pH	7.01	
W-87	NH3-N	0.0127	ppm
W-88	Cond	92.9	umho/cm
W-88	F	0.012	ppm
W-88	Cond_Dup	91.7	umho/cm
W-88	pH	5.69	
W-88	NH3-N	0.0127	ppm
W-89	Cond	71	umho/cm
W-89	F	0.011	ppm
W-89	pH	5.47	
W-89	NH3-N	0.0132	ppm
W-90	F	0.039	ppm
W-90	Cond	78	umho/cm
W-90	pH	5.63	
W-90	NH3-N	0.0147	ppm
W-92	Cond	209.7	umho/cm
W-92	F	0.099	ppm
W-92	pH	6.34	
W-92	NH3-N	3.19	ppm
W-92-MS	Cond	207.8	umho/cm
W-92-MS	F	0.088	ppm
W-92-MS	Cond_Dup	206.4	umho/cm
W-92-MS	pH	6.38	
W-92-MS	NH3-N	3.08	ppm
W-92-MSD	Cond	209.9	umho/cm
W-92-MSD	F	0.097	ppm
W-92-MSD	pH	6.49	
W-92-MSD	NH3-N	3.14	ppm
W-93	Cond	131.1	umho/cm
W-93	F	0.043	ppm
W-93	pH	5.64	
W-93	NH3-N	0.0324	ppm
W-94	Cond	167.6	umho/cm
W-94	F	0.043	ppm
W-94	Cond_Dup	166.6	umho/cm

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W-94	pH	6.55	
W-94	NH3-N	0.246	ppm
W-94-MS	Cond	127.4	umho/cm
W-94-MS	F	0.047	ppm
W-94-MS	pH	6.56	
W-94-MS	NH3-N	0.202	ppm
W-94-MSD	Cond	138.5	umho/cm
W-94-MSD	F	0.064	ppm
W-94-MSD	pH	6.72	
W-94-MSD	NH3-N	0.207	ppm
W-95	pH	6.61	
W-95	Cond	134.9	umho/cm
W-95	F	0.077	ppm
W-95	Cond_Dup	134.7	umho/cm
W-95	NH3-N	0.145	ppm
W-96	pH	6.68	
W-96	Cond	268.7	umho/cm
W-96	F	0.111	ppm
W-96	Cond_Dup	268.4	umho/cm
W-96	NH3-N	0.228	ppm
W-97	Cond	229.5	umho/cm
W-97	F	0.375	ppm
W-97	pH	6.36	
W-97	NH3-N	4.89	ppm
W-RW1	Cond	93.1	umho/cm
W-RW1	F	0.055	ppm
W-RW1	Cond_Dup	93.1	umho/cm
W-RW1	pH	5.59	
W-RW1	NH3-N	0.0129	ppm
W-RW2	Cond	234	umho/cm
W-RW2	F	0.099	ppm
W-RW2	Cond_Dup	232.7	umho/cm
W-RW2	pH	5.27	
W-RW2	NH3-N	0.0581	ppm