

# APPENDIX I

## Groundwater Sampling, Field Calibration, and Chain-of-Custody Forms





GROUNDWATER ELEVATION DATA  
 (ODSA, ASB, ALSA, LSA, AND LPABS)  
 CSX TRANSPORTATION, INC.  
 WAYCROSS, GEORGIA  
 (revised 12-20)

Well Location	Site Location	Screen Interval	Top of Casing Elevation (ft NAVD88)	Withdrawal System Off			Groundwater Elevation (ft NAVD88)	Inspection Notes
				Date	Time	Depth to Groundwater (feet)		
MW-113	ALSA	12.5 - 22.0	141.49				141.49	
MW-114	ALSA	15.5 - 25.0	141.85				141.85	
MW-115	ALSA	11.5 - 21.0	138.46				138.46	
MW-116	ALSA	11.5 - 21.0	137.82				137.82	
MW-116D	ALSA	40 - 50	137.24				137.24	
MW-117	ALSA	11.5 - 21.0	139.81				139.81	
MW-118	ALSA	10.5 - 20.0	139.65				139.65	
MW-119	ALSA	12.5 - 22.0	140.50				140.50	
MW-120	ALSA	11.5 - 21.0	137.66				137.66	
MW-120D	ALSA	40 - 50	137.66				137.66	
MW-121	ALSA	11.5 - 21.0	138.91				138.91	
MW-122	ALSA	11.5 - 21.0	139.49				139.49	
MW-122D	ALSA	40 - 50	139.45				139.45	
MW-134	ALSA	20 - 30	141.142				141.14	
MW-134D	ALSA	40 - 50	141.05				141.05	
MW-135	ALSA	20 - 30	136.94				136.94	
MW-135D	ALSA	40 - 50	137.05				137.05	
MW-136	ALSA	20 - 30	138.1				138.10	
MW-136D	ALSA	40 - 50	138.06				138.06	
MW-137S	ALSA	15 - 25	136.74				136.74	
MW-137D	ALSA	40 - 50	137.8				137.80	
MW-139D	ALSA	47-57	136.32				136.32	
MW-18	ALSA	8 - 18	137.79				137.79	
MW-18D	ALSA	42 - 52	137.75				137.75	
MW-19	ALSA	18 - 28	135.81				135.81	
MW-21	ALSA	18 - 28	135.08				135.08	
MW-21D	ALSA	43 - 53	135.05				135.05	
MW-22	ALSA	18 - 28	138.13				138.13	
MW-22D	ALSA	40 - 50	138.27				138.27	
MW-38	ALSA	17 - 27	141.83				141.83	
MW-40	ALSA	17 - 27	142.24				142.24	
MW-41	ALSA	12 - 22	137.57				137.57	
MW-42	ALSA	12 - 22	140.30				140.30	
MW-49	ALSA	13 - 23	138.58				138.58	
MW-50	ALSA	12.5 - 22.5	139.91				139.91	
MW-51	ALSA	17 - 27	140.18				140.18	
MW-51D	ALSA	40 - 50	139.51				139.51	
MW-52	ALSA	38 - 53	140.23				140.23	
MW-56	ALSA	17 - 27	137.64				137.64	
MW-6	ALSA	17 - 27	141.04				141.04	
MW-14	ASB	18 - 28	137.40				137.40	



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				Date	Time	Depth to Groundwater (feet)		
MW-15	ASB	18 - 28	135.99				135.99	
MW-16	ASB	18 - 28	136.09				136.09	
MW-17	ASB	17 - 27	137.92				137.92	
MW-28	ASB	17 - 27	133.39				133.39	
MW-29	ASB	18 - 28	133.37				133.37	
MW-30	ASB	17 - 27	135.66				135.66	
MW-46	ASB	42 - 62	136.44				136.44	
MW-48	ASB	18 - 28	134.83				134.83	
MW-79	ASB	13 - 23	130.91				130.91	
MW-80	ASB	13 - 23	130.11				130.11	
MW-81	ASB	13 - 23	132.22				132.22	
MW-82	ASB	12.5 - 22.5	130.74				130.74	
MW-83	ASB	13 - 23	130.65				130.65	
MW-85	ASB	13 - 23	134.44				134.44	
MW-86	ASB	13 - 23	135.78				135.78	
MW-87	ASB	13 - 23	135.70				135.70	
MW-9	ASB	17 - 27	130.73				130.73	
MW-125	ASB	20 - 25	133.58				133.58	
MW-98	LPABS	21 - 31	137.49				137.49	
MW-99	LPABS	40 - 50	136.81				136.81	
MW-100	LPABS	28 - 38	135.87				135.87	
MW-101	LPABS	22 - 32	132.89				132.89	
MW-102	LPABS	24 - 34	136.43				136.43	
MW-103	LPABS	19 - 29	132.60				132.60	
MW-105	LPABS	12 - 22	131.84				131.84	
MW-105 (new)	LPABS	22 - 32	132.09				132.09	
MW-107(48-58)	LPABS	48 - 58	141.31				141.31	
MW-107(70-80)	LPABS	70 - 80	140.92				140.92	
MW-108	LPABS	10 - 20	134.42				134.42	
MW-108	LPABS	35 - 45	134.43				134.43	
MW-108	LPABS	46 - 56	134.27				134.27	
MW-108	LPABS	70 - 75	133.99				133.99	
MW-109	LPABS	30 - 50	133.54				133.54	
MW-110	LPABS	30 - 50	132.71				132.71	
MW-89	LPABS	24 - 34	140.95				140.95	
MW-90	LPABS	26 - 36	141.24				141.24	
MW-92	LPABS	26 - 36	140.45				140.45	
MW-93	LPABS	25 - 35	140.50				140.50	
MW-94(new)	LPABS	12 - 22	140.03				140.03	
MW-94	LPABS	26-36	140.03				140.03	
MW-95	LPABS	28 - 38	136.78				136.78	



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				Date	Time	Depth to Groundwater (feet)		
MW-96(new)	LPABS	48 - 58	140.40				140.40	
MW-97	LPABS	28 - 38	139.24				139.24	
MW-98	LPABS	21 - 31	137.49				137.49	
MW-111	LPABS	10 - 20	130.94				130.94	
MW-111	LPABS	30 - 50	130.98				130.98	
MW-111	LPABS	70 - 80	130.80				130.80	
MW-112	LPABS	10 - 20	133.24				133.24	
MW-112	LPABS	30 - 50	133.04				133.04	
MW-112	LPABS	70 - 80	132.90				132.90	
MW-132	LPABS	12 - 22	130.74				130.74	
MW-26	LSA	12 - 22	132.31				132.31	
MW-39	LSA	12 - 22	142.06				142.06	
MW-44	LSA	17 - 27	136.24				136.24	
MW-45	LSA	17 - 27	136.26				136.26	
MW-53	LSA	15.5 - 25.5	139.41				139.41	
MW-54	LSA	17 - 27	139.73				139.73	
MW-55	LSA	17 - 27	135.86				135.86	
MW-58	LSA	20.5 - 30.5	139.99				139.99	
MW-59	LSA	20.5 - 30.5	138.83				138.83	
MW-61	LSA	15.5 - 25.5	136.29				136.29	
MW-62	LSA	19 - 29	136.45				136.45	
MW-63	LSA	20.5 - 30.5	138.51				138.51	
MW-64	LSA	20.5 - 30.5	138.62				138.62	
MW-66	LSA	20.5 - 30.5	138.83				138.83	
MW-67	LSA	45 - 65	138.48				138.48	
MW-68	LSA	13 - 23	132.15				132.15	
MW-69	LSA	13 - 23	131.55				131.55	
MW-7	LSA	17 - 27	134.75				134.75	
MW-70	LSA	13 - 23	131.07				131.07	
MW-88	LSA	13 - 23	130.59				130.59	
MW-104	LSA	20 - 30	137.06				137.06	
MW-130	LSA	15 - 25	128.92				128.92	
MW-131	LSA	10 - 20	128.72				128.72	
MW-138D	LSA	38 - 48	132.94				132.94	
MW-3	Background	17 - 27	140.83				140.83	
MW-11	ODSA	13 - 23	139.12				139.12	
MW-12	ODSA	13 - 23	140.63				140.63	
MW-13	ODSA	8 - 18	141.08				141.08	
MW-32	ODSA	13 - 23	139.97				139.97	
MW-34	ODSA	13 - 23	138.97				138.97	
MW-35	ODSA	13 - 23	139.02				139.02	



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				Date	Time	Depth to Groundwater (feet)		
MW-36	ODSA	17 - 27	139.15				139.15	
MW-47	ODSA	37 - 52	140.35				140.35	
MW-71	ODSA	13 - 23	137.67				137.67	
MW-72	ODSA	13 - 23	137.80				137.80	
MW-73	ODSA	13 - 23	135.62				135.62	
MW-74	ODSA	13 - 23	135.74				135.74	
MW-75	ODSA	13 - 23	135.86				135.86	
MW-76	ODSA	13 - 23	136.78				136.78	
MW-77	ODSA	13 - 23	136.17				136.17	
MW-133	ODSA	14 - 24	135.68				135.68	

ftNAVD88 = feet North American Vertical Datum 1988



# Groundwater Sampling Form

Page \_\_\_\_ of \_\_\_\_

Project No. \_\_\_\_\_ Well ID \_\_\_\_\_ Date \_\_\_\_\_

Project Name/Location \_\_\_\_\_ Weather \_\_\_\_\_

Measuring Pt. \_\_\_\_\_ Screen \_\_\_\_\_ Casing \_\_\_\_\_

Description Top of Casing Setting (ft-bmp) \_\_\_\_\_ Diameter (in.) \_\_\_\_\_

Static Water \_\_\_\_\_ Water Column/ \_\_\_\_\_

Level (ft-bmp) \_\_\_\_\_ Total Depth (ft-bmp) \_\_\_\_\_ Gallons in Well \_\_\_\_\_

MP Elevation \_\_\_\_\_ Pump Intake (ft-bmp) \_\_\_\_\_ Purge Method: \_\_\_\_\_

Pump On/Off \_\_\_\_\_ Volumes Purged \_\_\_\_\_ Centrifugal \_\_\_\_\_

Sample Method \_\_\_\_\_ Submersible \_\_\_\_\_

Other Peristaltic

Sample Time: Label \_\_\_\_\_ Replicate/ \_\_\_\_\_

Start \_\_\_\_\_ Code No. \_\_\_\_\_

End \_\_\_\_\_

Sampled by \_\_\_\_\_

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Salinity	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance	
												Color	Odor
3 consecutive readings for stabilization					(within 0.1)	within 5%		10 or lower	0.2 or 10%				

Constituents Sampled	Container	Number	Preservative

**Well Casing Volumes**

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival: Yes / No

Condition of Well: \_\_\_\_\_ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: \_\_\_\_\_

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