APPENDIX C

Transload Waste Tickets and Waste Profile

MATERIAL TRACKING LOGS

BOEING PLANT 2 PROJECT CS2																		
Load #	Barge #	Arrival		Start Offload		Complete Offload		Departure		Tons (manual)			Tons (electronic)			Billing	Tonnage	Comments
		Date	Time	Date	Time	Date	Time	Date	Time	Gross	Tare	Net	Gross	Tare	Net	Tons	Determination	
	Total Tons Received		66,989.98 tons			Average Load Received		380.56 tons										
126	166	1/2/2014	23:57	1/3/14	1:45	1/3/14	6:00	1/3/14	6:50	876.10	413.73	462.37	875.03	423.13	451.90	462.37	Manual	
127	135	1/3/2014	6:25	1/3/14	7:44	1/3/14	13:39	1/3/14	19:45	791.47	436.05	355.42	791.13	438.56	352.57	355.42	Manual	
128	104	1/3/2014	15:40	1/3/14	20:52	1/4/14	0:40	1/4/14	0:47	464.37	185.04	279.33	468.12	200.09	268.03	279.34	Manual	
129	101	1/3/2014	19:03	1/4/14	1:13	1/4/14	5:37	1/4/14	6:08	791.67	376.44	415.23	788.39	371.69	416.70	415.23	Manual	
130	100	1/4/2014	0:21	1/5/14	12:00	1/5/13	23:59	1/6/14	17:20	621.15	313.15	308.00	627.74	308.61	319.13	308.00	Manual	
131	104	1/4/2014	11:54	1/4/14	12:30	1/4/14	14:46	1/4/14	15:20	462.15	180.21	281.94	465.64	174.56	291.08	281.95	Manual	
132	166	1/4/2014	13:04	1/5/14	11:34	1/5/14	23:59	1/6/14	11:36	818.50	419.81	398.69	816.22	423.21	393.01	398.68	Manual	
133	101	1/4/2014	14:50	1/4/14	16:14	1/4/14	18:35	1/4/14	19:26	806.58	363.01	443.57	790.23	363.40	426.83	443.57	Manual	
134	104	1/4/2014	22:25	1/4/14	22:59	1/5/14	3:20	1/5/14	3:40	475.54	178.17	297.37	479.76	178.67	301.09	297.37	Manual	
135	101	1/5/2014	1:40	1/6/14	7:33	1/6/14	10:45	1/6/14	12:32	727.63	364.40	363.23	720.17	365.13	355.04	363.24	Manual	
136	135	1/5/2014	2:45	1/6/14	2:12	1/6/14	7:12	1/6/14	12:01	817.43	456.37	361.06	820.03	449.18	370.85	361.06	Manual	
137	104	1/6/2014	14:15	1/6/14	16:12	1/6/14	18:30	1/6/14	18:50	482.10	177.18	304.92	484.35	175.31	309.04	304.92	Manual	
138	101	1/6/2014	18:30	1/6/14	18:59	1/6/14	21:15	1/6/14	23:30	794.66	369.83	424.83	799.84	337.47	462.37	424.83	Manual	
139	100	1/6/2014	19:45	1/6/14	21:36	1/6/14	23:45	1/7/14	1:50	707.92	319.19	388.73	715.13	318.15	396.98	388.72	Manual	
140	166	1/6/2014	23:14	1/7/14	13:17	1/7/14	15:51	1/7/14	16:51	882.62	422.84	459.78	875.27	414.23	461.04	459.79	Manual	
141	104	1/7/2014	1:30	1/7/14	3:32	1/7/14	11:59	1/7/14	13:16	534.77	193.96	340.81	549.20	199.58	349.62	340.81	Manual	
142	101	1/7/2014	14:30	1/7/14	16:00	1/7/14	19:00	1/7/14	19:25	793.18	365.73	427.45	799.19	371.29	427.90	427.45	Manual	
143	104	1/7/2014	19:06	1/7/14	19:25	1/7/14	21:00	1/7/14	23:30	462.09	177.19	284.90	464.41	180.21	284.20	284.90	Manual	
144	166	1/7/2014	23:10	1/7/14	23:25	1/8/14	5:50	1/8/14	6:35	874.41	454.36	420.05	874.39	447.78	426.61	420.04	Manual	
145	100	1/8/2014	0:28	1/8/14	16:17	1/8/14	19:06	1/8/14	19:34	659.09	319.15	339.94	664.72	324.89	339.83	339.94	Manual	
146	135	1/8/2014	6:09	1/8/14	7:00	1/8/14	12:40	1/8/14	15:46	852.12	508.11	344.01	841.04	518.39	322.65	344.01	Manual	
147	101	1/8/2014	18:30	1/10/14	20:30	1/10/14	22:10	1/10/14	22:20			0.00	769.58	378.48	391.10	391.10	Electronic	
148	104	1/8/2014	19:15	1/8/14	21:45	1/9/14	1:50	1/9/14	2:13	473.11	202.94	270.17	474.09	205.39	268.70	270.17	Manual	
149	135	1/8/2014	21:53	1/9/14	3:05	1/9/14	8:30	1/9/14	10:40			0.00	873.89	512.23	361.66	361.66	Electronic	
150	100	1/9/2014	3:50	1/9/14	8:56	1/9/14	14:38	1/9/14	15:11			0.00	717.95	315.95	402.00	401.99	Electronic	
151	135	1/9/2014	15:04	1/9/14	15:22	1/9/14	18:00	1/9/14	18:20			0.00	814.61	513.77	300.84	300.84	Electronic	
152	104	1/9/2014	16:10	1/9/14	22:25	1/10/14	0:05	1/10/14	0:21	497.53	176.16	321.37	499.91	177.79	322.12	321.36	Manual	
153	166	1/9/2014	18:10	1/9/14	19:20	1/9/14	21:40	1/9/14	22:20			0.00	865.97	433.06	432.91	432.90	Electronic	
154	100	1/9/2014	21:36	1/10/14	2:05	1/10/14	4:45	1/10/14	5:04			0.00	628.39	325.73	302.66	302.66	Electronic	
155	135	1/9/2014	23:31	1/10/14	5:35	1/10/14	10:30	1/10/14	11:40			0.00	900.86	518.08	382.78	382.79	Electronic	
156	166	1/10/2014	11:23	1/10/14	12:53	1/10/14	15:15	1/10/14	16:15			0.00	821.10	444.19	376.91	376.91	Electronic	
157	100	1/10/2014	17:50	1/14/14	10:58	1/14/14	13:10	1/14/14	13:25			0.00	643.18	325.40	317.78	317.78	Electronic	
158	104	1/10/2014	19:15	1/10/14	22:20	1/10/14	23:32	1/10/14	23:40			0.00	444.47	190.29	254.18	254.18	Electronic	
159	135	1/10/2014	21:48	1/11/14	13:00	1/11/14	15:08	1/11/14	15:50			0.00	771.75	496.88	274.87	274.87	Electronic	
160	166	1/10/2014	23:45	1/11/14	1:50	1/11/14	4:45	1/11/14	4:55			0.00	854.21	410.15	444.06	444.06	Electronic	
161	104	1/11/2014	5:20	1/11/14	5:30	1/11/14	11:00	1/11/14	11:15			0.00	522.71	179.85	342.86	342.86	Electronic	
162	101	1/11/2014	12:30	1/13/14	10:06	1/13/14	11:55	1/13/14	12:26			0.00	754.35	376.49	377.86	377.86	Electronic	
163	166	1/11/2014	15:45	1/11/14	16:01	1/11/14	18:00	1/11/14	18:10			0.00	869.76	405.53	464.23	464.22	Electronic	
164	104	1/11/2014	18:07	1/11/14	19:05	1/11/14	20:35	1/11/14	21:04			0.00	444.58	187.87	256.71	256.71	Electronic	
165	135	1/11/2014	19:28	1/11/14	20:41	1/11/14	22:51	1/11/14	23:34			0.00	783.05	486.20	296.85	296.85	Electronic	
166	166	1/11/2014	23:28	1/12/14	0:52	1/12/14	3:22	1/12/14	3:41			0.00	877.91	413.72	464.19	464.20	Electronic	
167	135	1/12/2014	3:42	1/13/14	4:30	1/13/14	7:30	1/13/14	10:39			0.00	833.42	490.67	342.75	342.75	Electronic	
168	104	1/12/2014	4:29	1/13/14	7:45	1/13/14	9:55	1/13/14	10:26			0.00	605.60	182.17	423.43	423.43	Electronic	
169	166	1/13/2014	11:42	1/13/14	22:42	1/14/14	2:31	1/14/14	2:50			0.00	857.46	407.89	449.57	449.58	Electronic	
170	104	1/13/2014	14:01	1/13/14	14:11	1/13/14	15:58	1/13/14	17:29			0.00	453.68	173.76	279.92	279.92	Electronic	
171	101	1/13/2014	17:30	1/15/14	6:08	1/15/14	12:57	1/15/14	14:06				791.83	369.13	422.70	422.70	Electronic	Barge 101 is outboard barge is photo
172	135	1/13/2014	20:00	1/13/14	20:20	1/13/14	22:10	1/13/14	22:54			0.00	828.00	482.94	345.06	345.06	Electronic	
173	135	1/14/2014	2:37	1/14/14	4:55	1/14/14	10:45	1/14/14	11:13			0.00	860.91	486.41	374.50	374.50	Electronic	
174	104	1/14/2014	3:53	1/14/14	13:25	1/14/14	15:31	1/14/14	15:50			0.00	517.68	181.81	335.87	335.87	Electronic	
175	166	1/14/2014	14:48	1/14/14	23:25	1/15/14	4:14	1/15/14	4:33				893.65	427.70	465.95	465.95	Electronic	Cobbles and bricks in sediment load. During offloading, sediment was very wet sand which periodically caused long cycle times due to the need to let the crane bucket drain.
176	135	1/14/2014	18:48	1/14/14	19:20	1/14/14	21:26	1/14/14	22:31				889.24	517.87	371.37	371.37	Electronic	After the completion of offloading, the deck perimeter was inspected and any material projecting upward from deck was shoveled back into containment. Approximately 1 ft of material in ecoblock areas.
177	100	1/15/2014	14:05	1/15/14	16:46	1/15/14	18:44	1/15/14	22:58	665.43	329.94	335.49	664.37	326.27	338.11	338.11	Electronic	Barge material consists of mixture of sand, silt and cobbles.

BOEING PLANT 2 PROJECT CS2																		
Load #	Barge #	Arrival		Start Offload		Complete Offload		Departure		Tons (manual)			Tons (electronic)			Billing Tons	Tonnage Determination	Comments
		Date	Time	Date	Time	Date	Time	Date	Time	Gross	Tare	Net	Gross	Tare	Net			
178	104	1/15/2014	17:11	1/15/14	19:18	1/15/14	21:55	1/15/14	23:55	546.05	201.17	344.88	543.83	206.24	337.59	337.59	Electronic	Barge material consisted mud and sand. Extra time needed to drain bucket before offloading. WM signature on empty delayed at WM request. All manuals photographed except for SS3. Loaded video manual draft reading correction. Manual draft reading corner 3: 4.95 changed to 5.95. Manual draft reading corner 2: 5.4 changed to 5.9. Time Rob Livesay 1/16/14. Manual D (lcf) and electronic D (lcf) readings differ < .1ft. Electronic readings will be used to report calculated tons offloaded.
179	166	1/15/2014	22:43	1/16/14	0:52	1/16/14	4:44	1/16/14	5:22	885.72	418.40	467.32	871.91	409.71	462.20	462.20	Electronic	Clayey sediment that slumps. Barge was sent back with slightly more sediment than usual (estimated at <5 yards) as tug was waiting on barge.
180	101	1/16/2014	1:17	1/17/14	20:24	1/17/14	22:04	1/21/14	3:20	798.91			811.09	365.41	445.67	445.67	Electronic	Manual draft measurements of the unloaded barge were attempted, however, the barge was removed while awaiting the outboard video was transmission.
181	100	1/16/2014	4:09	1/16/14	5:59	1/16/14	13:38	1/16/14	17:59	715.91	332.31	383.60	722.71	337.27	385.43	385.43	Electronic	Silt/Clay that slumps in barge. Crane crew shift 1 resumed offloading at 11:18. Manual D (lcf) and electronic D (lcf) readings differ < .1ft. Electronic readings will be used to report calculated tons offloaded.
182	104	1/16/2014	11:16	1/17/14	6:02	1/17/14	9:18	1/17/14	10:50			0.00	466.45	178.58	287.87	287.87	Electronic	
183	166	1/16/2014	17:41	1/17/14	10:14	1/17/14	13:05	1/17/14	13:59	876.11	421.47	454.64	872.30	411.29	461.01	461.01	Electronic	
184	100	1/17/2014	10:45	1/17/14	13:30	1/17/14	16:50	1/17/14	20:21	668.50	350.25	318.25	673.69	326.34	347.35	347.35	Electronic	WM not present at time of manual readings. Drafts were photographed and reviewed with WM after barge had been moored. Unloaded Corner 2 manual draft reading video was misread and signed off on (reading: 3.85). After review with WM reading corrected to 2.85. Unloaded Corner 1 manual measurement is also possibly incorrect but lacks photo verification. Due to this, electronic readings were used to calculate the transload quantity as mutually agreed to by WM and the TTD observers (Rob Livesay (DOF/Boeing) 1/17/14 and Brad Burson (WM) 1/17/14). An additional manual verification of electronic draft measurements will be collected next dredge/TTD cycle. Loaded EDM was 8 min average; unloaded EDM was 4 min average.
185	104	1/17/2014	15:52	1/19/14	9:00	1/19/14	11:47	1/20/14	22:05			0.00	549.87	183.73	366.14	366.14	Electronic	
186	135	1/17/2014	16:47	1/17/14	17:00	1/17/14	19:44	1/17/14	19:58	874.83	523.20	351.63	875.93	521.37	354.56	354.56	Electronic	Barge 135 is the outboard barge in picture. Delay in signatures on unloaded readings. Weekly check of electronic draft measurement sensor performance was verified with manual draft measurement. Loaded EDMS was average of 7 minutes of readings rather than 10 due to the rapid start of offloading.
187	166	1/17/2014	19:43	1/17/14	23:09	1/19/14	7:54	1/21/14	0:27				756.74	407.66	349.08	349.08	Electronic	Signature on unloaded delayed due to crane maintenance/repair. Barge 166 outboard barge in photograph. REVISIONS: Midnight readings added, Ton calculated 1/17/14: 52.78. Tons calculated 1/19/14: 297.17. UNLOADED SCOW EDM: end A 3.72 corrected to 3.26 and end B 3.26 corrected to 3.72. Rob Livesay 1/21/14.
188	100	1/21/2014	0:17	1/21/14	0:51	1/21/14	4:18	1/21/14	5:44	680.22	319.24	360.98	687.50	320.46	367.04	367.04	Electronic	Dark gray clayey silt that retains bucket shape with some slump. Minor organic debris (sticks).
189	104	1/21/2014	2:58	1/21/14	5:05	1/21/14	8:33	1/21/14	16:21	555.12	177.17	377.95	556.48	179.81	376.68	376.68	Electronic	Did not receive video of manual measurement of Loaded PS4 draft, draft was read by tug and verbally relayed. The manual D (lcf) and electronic D (lcf) readings differ < .1ft. Electronic readings will be used to report calculated tons offloaded.
190	135	1/21/2014	5:16	1/21/14	9:56	1/21/14	14:24	1/22/14	3:09	881.56	497.52	384.05	877.59	504.32	373.27	373.27	Electronic	The loaded 135 barge is the outboard barge in the loaded photo.
191	101	1/21/2014	16:06	1/21/14	16:28	1/21/14	19:19	1/21/14	21:10	747.15	373.71	373.44	748.32	372.12	376.19	376.19	Electronic	Material dominantly silt.
192	100	1/21/2014	20:59	1/21/14	21:20	1/21/14	22:42	1/22/14	0:31	669.64	316.77	352.88	680.93	326.22	354.71	354.71	Electronic	Outboard manual draft for the unloaded port side were read by the tug crew and verbally transferred; video transmission of the draft readings failed.
193	104	1/22/2014	0:17	1/22/14	10:01	1/22/14	14:40	1/22/14	17:10				539.33	173.06	366.27	366.27	Electronic	Sediment is clayey silt that slumps. 1/4 inch rupture in the rub rail just below the deck on the starboard stern corner of barge. Crews patched hole. From 11:30 to 13:10 crane crew stopped offloading while boom was cast to contain sheen leak.
194	101	1/22/2014	4:16	1/22/14	4:32	1/22/14	9:10	1/22/14	11:55				821.48	362.37	459.11	459.11	Electronic	Sediment in barge is predominantly dark clayey silt with minor amounts of sand.
195	135	1/22/2014	11:29	1/22/14	14:59	1/22/14	17:18	1/22/14	22:56				779.72	507.22	272.50	272.50	Electronic	
196	100	1/22/2014	17:09	1/22/14	17:48	1/22/14	20:51	1/23/14	3:34	722.39	335.85	386.54	726.44	337.06	389.38	389.38	Electronic	Material sandy extra time needed to let bucket drain while offloading.
197	101	1/22/2014	22:51	1/23/14	3:36	1/23/14	10:04	1/23/14	13:30				819.46	377.01	442.45	442.45	Electronic	Material is sandy and stacks well. Supernatant water was partially drawn off at Lafarge by dewatering using a submersible pump.
198	104	1/23/2014	3:17	1/23/14	11:22	1/23/14	14:20	1/23/14	15:24				546.18	177.99	368.19	368.19	Electronic	
199	135	1/23/2014	6:01	1/23/14	14:45	1/23/14	17:15	1/23/14	17:36				862.51	502.04	360.47	360.47	Electronic	
200	100	1/23/2014	15:13	1/23/14	20:31	1/24/14	4:38	1/24/14	5:03				735.12	362.94	372.18	372.18	Electronic	5-7 wood fragments in sediment. Sediment sandy/silty mixture.
201	101	1/23/2014	17:21	1/23/14	17:52	1/23/14	19:54	1/24/14	0:15				765.70	370.64	395.06	395.06	Electronic	EDM for loaded measurement averaged for 8 minutes.
202	166	1/24/2014	0:11	1/24/14	23:25	1/25/14	5:24	1/25/14	11:00	905.06	444.83	460.23	897.48	436.62	460.86	460.86	Electronic	Well stacked sandy silt. Removal of some supernatant water at TTD prior to offloading. Manual D (lcf) and Electronic D (lcf) agree to <.1ft. Electronic calculated tons offloaded will be reported.
203	104	1/24/2014	4:48	1/24/14	5:25	1/24/14	9:30	1/24/14	19:14				590.60	205.19	385.42	385.42	Electronic	Sediment in barge is very wet sand with minor 5-7 ft stick/wood fragments. Crane broke down with bucket in empty barge.
204	101	1/24/2014	12:15	1/25/14	11:30	1/25/14	14:00	1/25/14	16:05				787.04	376.79	410.26	410.26	Electronic	>5 ft woody debris in sediment.
205	135	1/24/2014	18:20	1/25/14	14:17	1/25/14	17:25	1/25/14	18:50				818.65	493.37	325.27	325.27	Electronic	Barge 135 is the outboard barge in photo. WM representatives were not present when barge was removed from TTD. Electronic files from 1/25/14 were reviewed with WM personnel prior to signing.
206	100	1/24/2014	19:50	1/25/14	5:59	1/25/14	9:45	1/25/14	11:45				745.77	376.38	369.39	369.39	Electronic	
207	104	1/25/2014	16:00	1/25/14	18:18	1/25/14	20:45	1/27/14	2:15				539.81	192.90	346.91	346.91	Electronic	barge 104 is outboard barge in picture. WM representatives were not present when barge was removed from TTD. Electronic files were reviewed with WM personnel prior to signing, including comparing the recorded electronic readings to those collected immediately prior to barge departure.
208	166	1/25/2014	18:41	1/25/14	20:55	1/25/14	22:45	1/27/14	5:28				869.49	441.50	427.99	427.99	Electronic	WM representatives were not present when barge was removed from TTD. Electronic files were reviewed with WM personnel prior to signing, including comparing the recorded electronic readings to those collected immediately prior to barge departure.
209	101	1/27/2014	6:46	1/27/14	7:47	1/27/14	10:53	1/27/14	13:30	673.45	367.14	306.31	681.60	371.85	309.75	309.75	Electronic	WM personnel not available at time of barge arrival and departure. All manual draft readings were phot or video-documented and reviewed with WM prior to signing. Loaded and unloaded electronic D (lcf) and manual D (lcf) values agree to <.1ft. EDM will be used to report tons offloaded.
210	104	1/27/2014	8:16	1/27/14	20:20	1/27/14	22:30	1/28/14	1:05			0.00			350.55	350.55	Electronic	

BOEING PLANT 2 PROJECT CS2																		
Load #	Barge #	Arrival		Start Offload		Complete Offload		Departure		Tons (manual)			Tons (electronic)			Billing Tons	Tonnage Determination	Comments
		Date	Time	Date	Time	Date	Time	Date	Time	Gross	Tare	Net	Gross	Tare	Net			
211	100	1/27/2014	9:15	1/27/14	11:50	1/27/14	14:55	1/27/14	17:00	715.88	331.20	384.68	722.12	326.72	395.40	395.40	Electronic	Load 211 is the outboard barge in loaded picture. WM representative not present when barge was tied up, all manual measurements of draft were documented with video or photographs with the exception of PB1, which was obscured by tire fender and was read and relayed by the tug crew. Loaded and unloaded electronic D (lcf) and manual D (lcf) measurements agree < 1 ft. EDM will be used to report tons offloaded
212	166	1/27/2014	13:25	1/27/14	15:11	1/27/14	17:30								449.84	449.84	Electronic	
213	135	1/27/2014	16:45	1/27/14	17:50	1/27/14	20:10					0.00			368.36	368.36	Electronic	
214	101	1/28/2014	4:01	1/28/14	4:18	1/28/14	8:04					0.00			451.34	451.34	Electronic	
215	104	1/28/2014	10:53	1/28/14	12:52	1/28/14	14:50	1/28/14	17:00				553.93	186.78	367.15	367.15	Electronic	Barge material predominatly sandy. Material stacking < 2 ft.
216	166	1/28/2014	13:58	1/28/14	15:16	1/28/14	17:32	1/28/14	19:20				860.52	439.79	420.74	420.74	Electronic	Material sandy/ silty mixture.
217	135	1/28/2014	16:52	1/28/14	17:55	1/28/14	20:40	1/29/14	1:53				880.68	519.65	361.03	361.03	Electronic	Material sandy on bow end and silty on stern end of 135.
218	100	1/28/2014	19:16	1/28/14	20:55	1/29/14	5:10	1/29/14	5:55				741.04	331.20	409.84	409.84	Electronic	WM personnel were not available at the time the barge was removed from the TTD and the signature was delayed slightly. EDM reviewed prior to signature.
219	104	1/29/2014	1:47	1/30/14	3:29	1/30/14	6:47	1/30/14	7:56				554.64	185.44	369.20	369.20	Electronic	Barge additionally dewatered after mooring at TTD.
220	101	1/29/2014	5:45	1/29/14	6:05	1/29/14	11:11	1/29/14	11:47				848.08	371.85	476.24	476.24	Electronic	Unloaded EDM averaged for 8 minutes.
221	135	1/29/2014	7:46	1/29/14	18:31	1/29/14	21:27	1/30/14	3:11				871.81	504.07	367.73	367.73	Electronic	
222	100	1/29/2014	11:41	1/29/14	12:37	1/29/14	16:00	1/29/14	16:10				768.09	324.81	443.28	443.28	Electronic	Unloaded EDM averaged over 6 minutes.
223	166	1/29/2014	15:50	1/29/14	16:16	1/29/14	18:13	1/29/14	19:45				883.91	451.33	432.58	432.58	Electronic	
224	101	1/29/2014	19:36	1/29/14	21:36	1/29/14	23:56	1/30/14	0:43				787.38	364.32	423.07	423.07	Electronic	Barge 101 is the outboard barge in unloaded picture.
225	100	1/30/2014	2:58	1/30/14	7:25	1/30/14	11:39	1/30/14	13:55				712.43	318.38	394.05	394.05	Electronic	
226	101	1/30/2014	7:43	1/30/14	18:00	1/30/14	20:40	1/31/14	0:55				831.17	374.63	456.54	456.54	Electronic	
227	135	1/30/2014	11:35	1/30/14	12:35	1/30/14	15:03	1/31/14	8:12				864.23	510.38	353.85	353.85	Electronic	Barge 135 is outboard in bottom picture.
228	104	1/30/2014	13:50	1/30/14	15:28	1/30/14	17:30	1/30/14	18:40				562.93	191.39	371.54	371.54	Electronic	Barge 104 outboard barge in photo.
229	166	1/30/2014	18:32	1/30/14	21:01	1/31/14	3:39	1/31/14	4:41				849.14	472.56	376.57	376.57	Electronic	Stop offloading at 22:00 1/30 and resume offloading at 0:53 1/31.
230	100	1/31/2014	4:26	1/31/14	5:10	1/31/14	10:08	1/31/14	11:45				707.26	331.18	376.08	376.08	Electronic	Sediment was soft silty/clay.
231	101	1/31/2014	8:04	1/31/14	15:28	1/31/14	18:30	2/1/14	12:12				830.36	376.39	453.97	453.97	Electronic	
232	104	1/31/2014	11:32	1/31/14	13:15	1/31/14	14:57	1/31/14	17:25				560.38	200.95	359.44	359.44	Electronic	
233	166	1/31/2014	17:01	1/31/14	19:30	1/31/14	22:20	2/1/14	1:52				890.90	457.84	433.06	433.06	Electronic	Barge 166 outboard barge in lower photo
234	100	2/1/2014	1:42	2/1/14	3:22	2/1/14	7:56	2/1/14	8:23				748.36	335.56	412.80	412.80	Electronic	Irridescent sheen in supernatant water and in water remaining after offloading.
235	166	2/1/2014	7:51	2/1/14	17:30	2/1/14	19:55	2/1/14	20:15				892.20	455.29	436.91	436.91	Electronic	
236	104	2/1/2014	11:52	2/1/14	12:39	2/1/14	14:46	2/1/14	14:53				525.11	191.22	333.89	333.89	Electronic	Unloaded EDM averaged for 8 minutes.
237	100	2/1/2014	14:16	2/1/14	15:02	2/1/14	17:02	2/1/14	17:12				755.51	326.53	428.98	428.98	Electronic	Barge 100 outboard barge in top photo. Unloaded EDM averaged for 7 minutes.
238	135	2/1/2014	16:50	2/1/14	20:23	2/1/14	22:14	2/3/14	12:59				851.13	499.70	351.42	351.42	Electronic	
239	101	2/1/2014	18:50	2/3/14	15:21	2/3/14	17:26	2/3/14	22:34				738.08	376.99	361.08	361.08	Electronic	
240	104	2/3/2014	12:55	2/3/14	13:07	2/3/14	15:01	2/3/14	17:10	454.52	181.21	273.31	459.44	186.24	273.20	273.20	Electronic	Material was silt/clay. The loaded and unloaded manual D (lcf) and electronic D (lcf) agree to <.1 ft. Electronic EDM will be used to report tons offloaded.
241	166	2/3/2014	17:01	2/3/14	17:50	2/3/14	21:20	2/4/14	1:06	895.52	453.43	442.09	887.58	443.68	443.89	443.89	Electronic	The unloaded draft email video for PS4 did not work. Manual unloaded reading for PS4 was relayed by tug operator. Loaded and unloaded manual D (lcf) and electronic D (lcf) agree to <.1 ft. Electronic EDM will be used to report tons offloaded.
242	135	2/3/2014	22:24	2/4/14	3:02	2/4/14	6:18	2/4/14	11:27	894.23	509.23	384.99	899.32	512.01	387.31	387.31	Electronic	No offloading by crane occurred over midnight but water was pumped from barge by WM. The total tons of water pumped was 3.47 tons.
243	104	2/4/2014	0:51	2/4/14	14:02	2/4/14	16:20	2/4/14	21:19				556.90	176.17	380.72	380.72	Electronic	
244	101	2/4/2014	3:57	2/4/14	9:50	2/4/14	13:36	2/4/14	14:27	816.69	367.18	449.50	813.96	368.22	445.74	445.74	Electronic	Material was soft, slumping silt/clays.
245	166	2/4/2014	11:18	2/4/14	20:35	2/5/14	4:35	2/5/14	6:07				903.32	461.01	442.30	442.30	Electronic	Midnight readings taken. Barge offloading times: 20:35 -22:00 2/4/14 and 2:43-4:35 2/5/14.
246	100	2/4/2014	14:13	2/4/14	17:02	2/4/14	19:20	2/4/14	23:50	723.81	320.45	403.36	733.06	318.51	414.56	414.56	Electronic	Slumping on side, pile of woody debris in corner (small sticks and fragments). Several golf balls and a hubcap. Loaded and unloaded manual D (lcf) and electronic D (lcf) draft readings agree to <.1 ft. Electronic readings will be used to report tons offloaded.
247	135	2/4/2014	21:09	2/5/14	21:00	2/5/14	22:34	2/5/14	23:04				816.40	511.15	305.25	305.25	Electronic	
248	101	2/4/2014	23:30	2/5/14	6:30	2/5/14	10:22	2/5/14	10:51				832.64	370.91	461.73	461.73	Electronic	Gravel on bow.
249	104	2/5/2014	2:12	2/5/14	18:32	2/5/14	20:38	2/5/14	20:44				551.11	181.87	369.24	369.24	Electronic	Unloaded EDM averaged for 6 minutes.
250	100	2/5/2014	6:18	2/5/14	10:59	2/5/14	14:20	2/5/14	14:37				716.39	316.52	399.87	399.87	Electronic	<1 ft freeboard on incoming barge. Soft silt/clays with slumping. 9 minute average on the unloaded EDMS. Slight delay on signatures relative to departure of the barge due to a swap of a loaded and unloaded barge with limited dock space. WM representative present for entire duration.
251	166	2/5/2014	14:20	2/5/14	14:42	2/5/14	17:52	2/6/14	0:06				872.36	457.23	415.13	415.13	Electronic	
252	100	2/5/2014	22:40	2/5/14	23:05	2/6/14	2:35	2/6/14	3:20				717.11	316.56	400.55	400.55	Electronic	Loaded EDM averaged for 9 minutes. Midnight draft readings applicable. Barge unloaded 2/5/14 from 23:05 to 11:59, tons offloaded 221.09. Barge unloaded 2/6/14 from 00:53 to 2:35 tons offloaded 179.46.
253	101	2/5/2014	11:51	2/6/14	10:00	2/6/14	13:32	2/6/14	15:53				812.58	378.65	433.93	433.93	Electronic	Start crane offloading entered as 19:27 corrected to 10:00. Rob Livesay 21:22 2/6/14.
254	104	2/6/2014	1:20	2/6/14	3:20	2/6/14	7:19	2/6/14	10:45				573.03	176.98	396.06	396.06	Electronic	Delay in offloaded siganture, EDM record reviewed with WM representative prior to signature. Ice on deck.
255	135	2/6/2014	2:56	2/6/14	13:54	2/6/14	16:15	2/6/14	18:49				902.97	505.23	397.74	397.74	Electronic	Barge 135 outboard barge in top photo. Unloaded barge was removed prior to signatures on the EDM, WM were notified and arrived as soon as possible after the barge departed. The EDM record was reviewed.
256	166	2/6/2014	10:41	2/8/14	5:59	2/8/14	10:28	2/10/14	11:54				881.04	459.76	421.28	421.28	Electronic	
257	100	2/6/2014	15:51	2/6/14	18:17	2/6/14	19:49	2/7/14	0:25				758.05	330.61	427.43	427.43	Electronic	
258	104	2/6/2014	18:46	2/7/14	21:45	2/8/14	4:52	2/10/14	15:02				543.96	177.51	366.45	366.45	Electronic	Barge 104 outboard barge in picture. Barge offloaded 2/7/2014 from 21:45 to 22:08 tons offloaded: 102.71. Barge offloaded 2/8/2014 from 01:45 to 04:52 tons offloaded: 263.74
259	101	2/7/2014	4:27	2/7/14	15:53	2/7/14	18:03	2/11/14	0:25				845.57	375.83	469.74	469.74	Electronic	
260	100	2/7/2014	6:11	2/7/14	18:27	2/7/14	21:30	2/10/14	11:10				685.82	318.08	367.74	367.74	Electronic	Barge 100 outboard barge in top and bottom photos.
261	135	2/10/2014	14:56	2/10/14	15:20	2/10/14	17:20	2/10/14	19:35	862.19	500.22	361.97	872.40	508.92	363.49	363.49	Electronic	Signature on loaded electronic and manual draft measurements was delayed relative to the barge arrival. WM representative was not available for the incoming barge but all drafts were photodocumented and reviewed with WM representative prior to signing for the incoming load.
262	166	2/10/2014	19:30	2/10/14	19:47	2/10/14	21:31	2/10/14	22:34	853.86	457.86	396.00	850.25	460.43	389.82	389.82	Electronic	Loaded and unloaded manual D (lcf) and electronic D (lcf) agree to <.1ft. EDM will be used to report tons offloaded.

BOEING PLANT 2 PROJECT CS2																		
Load #	Barge #	Arrival		Start Offload		Complete Offload		Departure		Tons (manual)			Tons (electronic)			Billing Tons	Tonnage Determination	Comments
		Date	Time	Date	Time	Date	Time	Date	Time	Gross	Tare	Net	Gross	Tare	Net			
263	100	2/10/2014	22:15	2/11/14	1:24	2/11/14	4:29	2/11/14	5:14	741.18	313.11	428.07	748.11	320.17	427.94	427.94	Electronic	Barge arrived with < 1 ft free board. Loaded and unloaded manual D (lcf) and electronic D (lcf) agree to <.1 ft. EDM will be used to report tons offloaded.
264	104	2/11/2014	0:08	2/11/14	5:21	2/11/14	9:08	2/11/14	11:59	555.26	174.35	380.91	558.99	176.56	382.43	382.43	Electronic	Delay in signatures for the unloaded barge relative to scow removal time. All manual draft measurements were photodocumented and reviewed with the WM representative prior to signing.
265	166	2/11/2014	2:31	2/11/14	20:45	2/12/14	2:03	2/12/14	2:25				886.25	465.86	420.39	420.39	Electronic	Midnight reading applicable. Crane offloaded 251.05 tons from 20:45 to 22:19 2/11/14. Crane offloaded 169.34 tons from 00:47 to 2:03 2/12/14.
266	101	2/11/2014	4:30	2/11/14	10:05	2/11/14	14:13	2/11/14	15:07	838.77	365.73	473.04	845.03	363.76	481.26	481.26	Electronic	Barge 101 outboard barge in top photo.
267	135	2/11/2014	11:53	2/11/14	14:47	2/11/14	17:27	2/11/14	18:59				876.12	510.89	365.23	365.23	Electronic	
268	100	2/11/2014	14:57	2/11/14	17:48	2/11/14	20:09	2/11/14	22:14				617.48	329.09	288.39	288.39	Electronic	
269	104	2/11/2014	18:51	2/12/14	4:00	2/12/14	6:54	2/12/14	12:48				539.29	186.85	352.44	352.44	Electronic	
270	101	2/11/2014	21:52	2/15/14	23:00	2/16/14	4:51	2/17/14	13:14				808.69	370.14	438.56	438.56	Electronic	Midnight readings applicable. Crane offloaded barge 2/15/14 from 23:00 to 23:30: tons offloaded 193.85. Crane offloaded barge 2/16/14 from 1:38 to 4: 51: tons offloaded 244.71. Signatures on the unloaded draft measurements were delayed from the barge departure. The EDM was recorded immediately after the completion of offloading. There were no WM representatives present at that time. The barge was removed and returned to the dredge area without signatures on the load. Subsequently, the load and EDM were reviewed by Boeing and WM representatives prior to signing off on the load.
271	135	2/11/2014	23:40	2/15/14	17:00	2/15/14	20:09	2/17/14	16:20				864.77	506.48	358.29	358.29	Electronic	Pumping for dewatering at the TTD was done on 2/15/2014.
272	100	2/12/2014	3:24	2/12/14	7:21	2/12/14	11:38	2/12/14	11:55				700.67	322.39	378.28	378.28	Electronic	Barge 100 outboard barge in top photo. The signature on the load for the oubound barge was delayed from the time of the barge departure from the TTD. The WM and Boeing representatives reviewed the EDM logs and photodocumentation of the barge prior to signing off on the load.
273	166	2/12/2014	11:36	2/12/14	14:01	2/12/14	16:21	2/12/14	16:44				875.81	457.14	418.67	418.67	Electronic	The signatures of the loaded barge were delayed relative to the unloading start time. Photodocumentation and EDM logs were reviewed by Boeing and WM representative prior to signing for the load.
274	100	2/12/2014	16:51	2/13/14	13:28	2/13/14	15:41	2/13/14	19:48				757.71	317.52	440.19	440.19	Electronic	
275	104	2/12/2014	19:45	2/13/14	16:09	2/13/14	17:55	2/14/14	13:00				565.40	173.77	391.63	391.63	Electronic	Barge 104, Load 275 is the outboard barge in the Loaded picture. Barge 104, Load 275 is the inboard barge in unloaded picture.
276	166	2/13/2014	19:40	2/15/14	13:56	2/15/14	16:31	2/17/14	12:32				853.53	454.11	399.43	399.43	Electronic	Load 276 underwent dewatering at the TTD three different times. The first dewatering event duration is reported.
277	100	2/15/2014	12:55	2/15/14	20:35	2/15/14	22:12	2/18/14	1:44				653.53	321.20	332.33	332.33	Electronic	
278	104	2/17/2014	16:08	2/17/14	16:30	2/17/14	18:22	2/17/14	20:57	552.79	178.19	374.60	550.85	174.97	375.89	375.89	Electronic	
279	166	2/17/2014	20:48	2/17/14	21:05	2/17/14	23:24	2/18/14	5:42	887.29	467.02	420.27	878.38	457.23	421.15	421.15	Electronic	
280	101	2/18/2014	1:15	2/18/14	1:58	2/18/14	7:10	2/18/14	13:46	806.37	383.42	422.95	805.76	381.43	424.33	424.33	Electronic	
281	104	2/18/2014	5:27	2/18/14	8:02	2/18/14	12:08	2/19/14	5:01				552.78	174.95	377.83	377.83	Electronic	
282	100	2/18/2014	13:35	2/18/14	13:49	2/18/14	16:00	2/18/14	16:50	739.77	314.37	425.40	742.22	320.45	421.77	421.77	Electronic	
283	166	2/18/2014	16:35	2/18/14	16:52	2/18/14	19:15	2/18/14	20:40				900.14	456.90	443.24	443.24	Electronic	
284	101	2/18/2014	20:41	2/18/14	20:51	2/18/14	22:40	2/19/14	1:29				823.71	364.34	459.36	459.36	Electronic	
285	100	2/19/2014	1:19	2/19/14	1:40	2/19/14	5:21	2/19/14	23:10				693.86	318.92	374.94	374.94	Electronic	
286	166	2/19/2014	4:38	2/19/14	6:14	2/19/14	10:20	2/19/14	10:17				875.76	461.18	414.58	414.58	Electronic	
287	135	2/19/2014	10:50	2/19/14	11:15	2/19/14	14:10	2/19/14	15:45	788.33	510.91	277.42	787.66	507.74	279.92	279.92	Electronic	
288	104	2/19/2014	15:35	2/19/14	17:52	2/19/14	19:10	2/19/14	20:48				540.22	181.37	358.84	358.84	Electronic	Significant amount of water upon arrival ~20%. Delayed unloading until Lafarge pumped off.
289	100	2/19/2014	20:45	2/19/14	21:00	2/19/14	23:03	2/20/14	0:58				742.41	315.54	426.87	426.87	Electronic	
290	135	2/19/2014	22:00	2/20/14	1:40	2/20/14	4:29	2/20/14	5:52				813.18	504.99	308.19	308.19	Electronic	
291	104	2/20/2014	0:51	2/20/14	5:29	2/20/14	9:45	2/20/14	15:55				543.55	174.94	368.61	368.61	Electronic	Outboard Barge is 104 in loaded picture.
292	166	2/20/2014	5:47	2/20/14	13:36	2/20/14	15:09	2/21/14	0:33				897.50	450.36	447.13	447.13	Electronic	
293	100	2/20/2014	15:45	2/20/14	16:07	2/20/14	18:00	2/20/14	21:14				734.24	313.63	420.61	420.61	Electronic	
294	101	2/20/2014	21:07	2/20/14	21:24	2/21/14	1:47	2/21/14	4:35				806.34	368.82	437.52	437.52	Electronic	
295	104	2/21/2014	0:29	2/21/14	2:40	2/21/14	6:07	2/21/14	13:40				508.89	176.96	331.92	331.92	Electronic	
296	100	2/21/2014	4:25	2/21/14	7:15	2/21/14	10:15	2/25/14	3:00				705.15	330.71	374.44	374.44		
297	135	2/21/2014	1:30:48 PM	2/21/14	13:46	2/21/14	16:05	2/21/14	20:31				854.07	500.06	354.02	354.02	Electronic	
298	101	2/21/2014	8:24:18 PM	2/22/14	1:46	2/22/14	5:04	2/24/14	11:00				794.23	375.30	418.93	418.93	Electronic	
299	104	2/22/2014	4:29:33 AM	2/22/14	6:18	2/22/14	9:00	2/25/14	21:07				372.66	178.97	193.70	193.70	Electronic	The signatures for the loaded and unloaded EDMs were delayed and decoupled from offload start and end. WM representatives were not present at the time off offloading.
300	166.00	2/25/2014	8:57:30 PM			3/6/14	13:53	3/6/14	4:43	876.21	447.86	428.35	858.85	438.59	420.26	420.26	Electronic	Replaced original picture with picture taken on 2/26 in daylight.
301	101.00	3/3/2014	5:58:53 PM					3/7/14	11:57				464.35	392.76	71.59	71.59	Electronic	Barge 101 is ouboard in picture. Manual draft readings were not collected due to barge approach tie-off outside the existing barge. - Barge taken back to Slip 4 on March 7th before being released. Therefore, no unloaded picture available. Draft readings taken from electronic record.
302	101.00	3/14/2014	8:46:41 AM	3/14/14	9:07	3/14/14	11:04	3/14/14	11:15	397.78	361.75	36.03				36.03	Electronic	Electronic equipment removed from barge so manual readings taken. Draft markings ended above water level so measuring line used to subtract from 8' mark. - Hand cleaned barge (shovels) of material but still has several inches of water in the bow.

BOEING PLANT 2 PROJECT									
No.	Truck	Driver	Date	Time	Gross Weight	Tare Weight	Net Weight	Total Tons	Cumulative Tons
	Total Loads Received			29		Cumulative Tons		899.71	
1	R-57	Shane	2/27/2014	7:30	102,548	42,480	60,068	30.03	30
2	R-57	Shane	2/27/2014	9:57	98,980	42,480	56,500	28.25	58
3	R-57	John	2/27/2014	11:54	106,900	42,480	64,420	32.21	90
4	R-57	Shane	2/27/2014	13:47	106,720	42,480	64,240	32.12	123
5	R-57	John	2/27/2014	13:32	106,940	42,480	64,460	32.23	155
6	R-61	Shane	2/27/2014	10:37	105,440	41,700	63,740	31.87	187
7	R-61	John	2/27/2014	12:47	107,420	41,700	65,720	32.86	220
8	R-61	Shane	2/27/2014	14:35	106,180	41,700	64,480	32.24	252
9	R-10	Matt	3/4/2014	8:00	102,560	39,860	62,700	31.35	283
10	R-13	Kylie	3/4/2014	8:32	107,640	43,340	64,300	32.15	315
11	R-10	Matt	3/4/2014	10:00	103,420	39,700	63,720	31.86	347
12	R-13	Kylie	3/4/2014	11:06	106,340	43,060	63,280	31.64	379
13	R-10	Matt	3/4/2014	11:50	102,640	39,340	63,300	31.65	410
14	R13	Kylie	3/4/2014	12:54	107,580	42,740	64,840	32.42	443
15	R-52	Mark	3/12/2014	8:30	103,460	40,940	62,520	31.26	474
16	R-51	Tye	3/12/2014	8:30	109,668	40,880	68,788	34.39	509
17	R-52	Mark	3/12/2014	10:10	108,120	41,240	66,880	33.44	542
18	R-51	Tye	3/12/2014	10:30	108,500	40,860	67,640	33.82	576
19	R-52	Mark	3/12/2014	11:30	105,340	41,160	64,180	32.09	608
20	R-51	Tye	3/12/2014	11:56	105,160	40,800	64,360	32.18	640
21	R-52	Mark	3/12/2014	12:45	104,620	42,640	61,980	30.99	671
22	R-51	Tye	3/12/2014	13:18	101,580	40,800	60,780	30.39	701
23	R-52	Mark	3/12/2014	14:15	101,680	40,580	61,100	30.55	732
24	R-51	Tye	3/12/2014	15:15	107,200	40,720	66,480	33.24	765
25	R-51	Tye	3/13/2014	8:07	104,600	40,820	63,780	31.89	797
26	R-58	Justin	3/13/2014	8:25	106,300	42,180	64,120	32.06	829
27	R-51	Tye	3/13/2014	9:35	106,060	40,780	65,280	32.64	862
28	R-58	Justin	3/13/2014	10:10	108,760	42,060	66,700	33.35	895
29*	R-51	Tye	3/13/2014	10:30	56,120	47,060	9,060	4.53	900

* 30-ton minimum load required

BOEING PLANT 2 PROJECT								6.10% Current Stabilization Ratio		
Total Stabilizer Added		3,980.82 tons	Waste Bulk Bag Material Added		300.00 tons	Stabilizer Purchased from Lafarge		3,209.51 tons	WMSS Cement Deliveries	471.31 tons
No.	BOL	Product Code	STABILIZER TYPE	Load Date	Car Number	Metric Tons	Short Tons	Comments		
1	5332236	CD100007701	CKD	1/3/2014	51010667	10.00 TM	11.02 TS			
2	5332237	CD100007701	CKD	1/3/2014	51010705	25.00 TM	27.56 TS			
3	5332239	CD100007701	CKD	1/3/2014	51010726	22.00 TM	24.25 TS			
4	5332242	CD100007701	CKD	1/4/2014	51010764	25.00 TM	27.56 TS			
5	5332243	CD100007701	CKD	1/4/2014	51010838	27.00 TM	29.76 TS			
6	5330109	CD100007701	CKD	1/6/2014	51001405	25.14 TM	27.71 TS			
7	5330055	CD100007701	CKD	1/6/2014	51001426	75.00 TM	82.67 TS			
8	5332245	CD100007701	CKD	1/6/2014	51010901	25.00 TM	27.56 TS			
9	5330579	CD100007701	CKD	1/7/2014	50994706	22.68 TM	25.00 TS			
10	5330582	CD100007701	CKD	1/7/2014	50994706	23.16 TM	25.53 TS			
11	5330600	CD100007701	CKD	1/7/2014	50994706	22.68 TM	25.00 TS			
12	5330240	CD100007701	CKD	1/7/2014	51001221	25.00 TM	27.56 TS			
13	5330196	CD100007701	CKD	1/7/2014	51001373	25.00 TM	27.56 TS			
14	5330738	CD100007701	CKD	1/8/2014	50997570	23.29 TM	25.67 TS			
15	5330798	CD100007701	CKD	1/8/2014	50997570	22.73 TM	25.05 TS			
16	5330849	CD100007701	CKD	1/8/2014	50997570	14.56 TM	16.05 TS			
17	5331329	CD100007701	CKD	1/8/2014	50997570	22.68 TM	25.00 TS			
18	5331335	CD100007701	CKD	1/9/2014	50997570	16.38 TM	18.05 TS			
19	5331837	CD100007701	CKD	1/9/2014	50997570	22.91 TM	25.25 TS			
20	5331998	CD100007701	CKD	1/9/2014	50997570	22.59 TM	24.90 TS			
21	5332184	CD100007701	CKD	1/9/2014	50997570	22.91 TM	25.25 TS			
22	5332226	CD100007701	CKD	1/9/2014	50997570	23.54 TM	25.95 TS			
23	5332247	CD100007701	CKD	1/9/2014	50997570	23.38 TM	25.77 TS			
24	5332257	CD100007701	CKD	1/9/2014	50997570	24.13 TM	26.60 TS			
25	5332535	CD100007701	CKD	1/10/2014	50997570	22.91 TM	25.25 TS			
26	5332905	CD100007701	CKD	1/10/2014	50997570	23.32 TM	25.70 TS			
27	5333277	CD100007701	CKD	1/10/2014	50997570	24.06 TM	26.52 TS			
28	5333199	CD100007701	CKD	1/10/2014	51017238	88.91 TM	98.00 TS			
29	5333451	CD100007701	CKD	1/12/2014	50997570	24.72 TM	27.25 TS			
30	5333480	CD100007701	CKD	1/12/2014	51020905	22.40 TM	24.69 TS			
31	5333489	CD100007701	CKD	1/12/2014	51020915	23.15 TM	25.52 TS			
32	5334380	CD100007701	CKD	1/13/2014	50997570	18.81 TM	20.73 TS			
33	5334579	CD100007701	CKD	1/13/2014	50997570	22.27 TM	24.55 TS			
34	5334644	CD100007701	CKD	1/13/2014	50997570	22.82 TM	25.15 TS			
35	5334676	CD100007701	CKD	1/13/2014	50997570	22.73 TM	25.06 TS			
36	5335467	CD100007701	CKD	1/14/2014	50997570	23.50 TM	25.90 TS			
37	5335614	CD100007701	CKD	1/14/2014	50997570	22.96 TM	25.31 TS			
38	5335851	CD100007701	CKD	1/14/2014	50997570	22.70 TM	25.02 TS			
39	5336525	CD100007701	CKD	1/15/2014	50997570	23.59 TM	26.00 TS			
40	5336683	CD100007701	CKD	1/15/2014	50997570	23.00 TM	25.35 TS			
41	5337482	CD100007701	CKD	1/16/2014	50997570	22.97 TM	25.32 TS			
42	5339107	CD100007701	CKD	1/17/2014	50997570	16.44 TM	18.12 TS			
43	5339187	CD100007701	CKD	1/17/2014	50997570	22.25 TM	24.52 TS			
44	5339257	CD100007701	CKD	1/17/2014	50997570	22.71 TM	25.03 TS			
45	5339215	CD100007701	CKD	1/17/2014	51017238	24.55 TM	27.06 TS			

BOEING PLANT 2 PROJECT								6.10% Current Stabilization Ratio		
Total Stabilizer Added		3,980.82 tons	Waste Bulk Bag Material Added		300.00 tons	Stabilizer Purchased from Lafarge		3,209.51 tons	WMSS Cement Deliveries	471.31 tons
No.	BOL	Product Code	STABILIZER TYPE	Load Date	Car Number	Metric Tons	Short Tons	Comments		
46	5339354	CD100007701	CKD	1/18/2014	50997570	9.57 TM	10.55 TS			
47	5339377	CD100007701	CKD	1/18/2014	50997570	23.41 TM	25.80 TS			
48	5339412	CD100007701	CKD	1/18/2014	50997570	22.91 TM	25.25 TS			
49	5339434	CD100007701	CKD	1/18/2014	50997570	23.32 TM	25.70 TS			
50	5339486	CD100007701	CKD	1/18/2014	50997570	24.70 TM	27.23 TS			
51	5340471	CD100007701	CKD	1/20/2014	50997570	22.91 TM	25.25 TS			
52	5341721	CD100007701	CKD	1/21/2014	50997570	22.88 TM	25.22 TS			
53	5341735	CD100007701	CKD	1/21/2014	50997570	22.96 TM	25.31 TS			
54	5342393	CD100007701	CKD	1/22/2014	50997570	23.00 TM	25.35 TS			
55	5342474	CD100007701	CKD	1/22/2014	50997570	22.77 TM	25.10 TS			
56	5343202	CD100007701	CKD	1/23/2014	50997570	12.47 TM	13.75 TS			
57	5344288	CD100007701	CKD	1/25/2014	51017238	88.91 TM	98.00 TS			
58	5344328	CD100007701	CKD	1/26/2014	51017238	69.06 TM	76.12 TS			
59	5345152	CD100007701	CKD	1/27/2014	51017238	52.84 TM	58.25 TS			
60	5346559	CD100007701	CKD	1/29/2014	51017238	77.70 TM	85.65 TS			
61	5347488	CD100007701	CKD	1/31/2014	51017238	66.21 TM	72.98 TS			
62	5348583	CD100007701	CKD	1/31/2014	51017238	63.65 TM	70.16 TS			
63	5348812	CD100007701	CKD	2/1/2014	51017238	56.70 TM	62.50 TS			
64	5349839	CD100007701	CKD	2/3/2014	51017238	86.39 TM	95.23 TS			
65	5350590	1N100007703	Portland Cement	2/4/2014	51203833	47.63 TM	52.50 TS	Replaces original BOL 5350590		
66	5350590	F1100009708	Type C Fly Ash	2/4/2014	51203833	47.63 TM	52.50 TS	Replaces original BOL 5350590		
67	5354175	1N100007703	Portland Cement	2/5/2014	51223191	46.72 TM	51.50 TS	Replaces BOLs 5351372, 5351362, 5351367		
68	5354175	F1100009708	Type C Fly Ash	2/5/2014	51223191	46.72 TM	51.50 TS	Replaces BOLs 5351372, 5351362, 5351367		
69	5352271	1N100007703	Portland Cement	2/6/2014	51204322	22.93 TM	25.28 TS			
70	5354173	F1100009708	Type C Fly Ash	2/10/2014	51204335	61.24 TM	67.50 TS	Created to replace M943284		
71	5354877	1N100007703	Portland Cement	2/11/2014	51204322	45.36 TM	50.00 TS			
72	5354887	F1100009708	Type C Fly Ash	2/11/2014	51204335	45.36 TM	50.00 TS			
73	5354906	1N100007703	Portland Cement	2/11/2014	51204322	45.36 TM	50.00 TS			
74	5354908	F1100009708	Type C Fly Ash	2/11/2014	51204335	45.36 TM	50.00 TS			
75	5356099	1N100007703	Portland Cement	2/13/2014	51204322	32.89 TM	36.26 TS			
76	5356102	F1100009708	Type C Fly Ash	2/13/2014	51204335	33.34 TM	36.76 TS			
77	5356940	1N100007703	Portland Cement	2/14/2014	51204322	27.22 TM	30.00 TS			
78	5356954	1N100007703	Portland Cement	2/14/2014	51204322	27.22 TM	30.00 TS			
79	5356966	1N100007703	Portland Cement	2/14/2014	51204322	27.22 TM	30.00 TS	Changed to Flyash Type C on bill, not changed in system		
80	5356935	F1100009708	Type C Fly Ash	2/14/2014	51204335	27.22 TM	30.00 TS			
81	5358111	1N100007703	Portland Cement	2/16/2014	51204322	27.22 TM	30.00 TS			
82	5358113	F1100009708	Type C Fly Ash	2/16/2014	51204335	27.22 TM	30.00 TS			
83	5358115	1N100007703	Portland Cement	2/16/2014	51204322	27.22 TM	30.00 TS			
84	5358116	F1100009708	Type C Fly Ash	2/16/2014	51204335	27.22 TM	30.00 TS			
85	5361015	1N100007703	Portland Cement	2/19/2014	51204322	49.90 TM	55.00 TS			
86	5361021	F1100009708	Type C Fly Ash	2/19/2014	51204335	49.90 TM	55.00 TS			
87	5360945	1N100007703	Portland Cement	2/19/2014	51204322	50.85 TM	56.05 TS			
88	5360950	F1100009708	Type C Fly Ash	2/19/2014	51204335	52.52 TM	57.89 TS			
89	5384172	F1100009708	Type C Fly Ash	3/19/2014	51204335	45.36 TM	50.00 TS			

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD							Rail Car Unloaded at CRL			
Total Cars	650	Total Tons Shipped	70,215.99	Avg/Day	1262.04		Total Tons to Date	70,574.31		
Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons	Date Received at CRL	Rail Car Number		Tons
1	1	1/3/2014	JTLX	241	214,900	107.45	1/7/2014	JTLX	241	112.53
2	2	1/3/2014	JTLX	237	216,120	108.06	1/7/2014	JTLX	237	112.6
3	3	1/3/2014	JTLX	242	217,080	108.54	1/7/2014	JTLX	242	116.77
4	4	1/3/2014	JTLX	64	216,440	108.22	1/7/2014	JTLX	64	99.89
5	1	1/4/2014	CIGX	803242	214,720	107.36	1/9/2014	CIGX	803242	111.85
6	2	1/4/2014	CIGX	803234	215,640	107.82	1/9/2014	CIGX	803234	110.75
7	3	1/4/2014	CEFX	31760	214,460	107.23	1/9/2014	CEFX	31760	109.23
8	4	1/4/2014	CEFX	31427	215,860	107.93	1/9/2014	CEFX	31427	110.5
9	5	1/4/2014	CEFX	31977	214,040	107.02	1/10/2014	CEFX	31977	105.78
10	6	1/4/2014	CEFX	31711	216,700	108.35	1/10/2014	CEFX	31711	110.39
11	7	1/4/2014	CEFX	30526	215,780	107.89	1/10/2014	CEFX	30526	108.04
12	8	1/4/2014	CEFX	31805	216,400	108.20	1/10/2014	CEFX	31805	110.78
13	1	1/6/2014	CEFX	35285	214,085	107.04	1/11/2014	CEFX	35285	110.73
14	2	1/6/2014	CEFX	32218	216,740	108.37	1/11/2014	CEFX	32218	110.4
15	3	1/6/2014	CEFX	30425	216,740	108.37	1/11/2014	CEFX	30425	112.8
16	4	1/6/2014	CEFX	31826	218,000	109.00	1/11/2014	CEFX	31826	110.33
17	5	1/6/2014	CEFX	31752	215,400	107.70	1/11/2014	CEFX	31752	107.55
18	6	1/6/2014	CEFX	31818	217,640	108.82	1/11/2014	CEFX	31818	108.75
19	7	1/6/2014	CEFX	31686	216,120	108.06	1/11/2014	CEFX	31686	108.28
20	8	1/6/2014	CEFX	31591	216,640	108.32	1/11/2014	CEFX	31591	109
21	9	1/6/2014	CEFX	33435	216,640	108.32	1/11/2014	CEFX	33435	111.68
22	10	1/6/2014	CEFX	31587	216,340	108.17	1/13/2014	CEFX	31587	108.88
23	11	1/6/2014	CEFX	31678	216,960	108.48	1/11/2014	CEFX	31678	109.85
24	12	1/6/2014	CEFX	31979	213,980	106.99	1/11/2014	CEFX	31979	108.95
25	13	1/6/2014	CEFX	31996	216,140	108.07	1/11/2014	CEFX	31996	110.83
26	1	1/7/2014	CEFX	30423	216,100	108.05	1/16/2014	CEFX	30423	109.05
27	2	1/7/2014	CIGX	803223	216,480	108.24	1/13/2014	CIGX	803223	111.58
28	3	1/7/2014	CEFX	35313	215,540	107.77	1/13/2014	CEFX	35313	112.68
29	4	1/7/2014	CIGX	803222	216,600	108.30	1/13/2014	CIGX	803222	111.18
30	5	1/7/2014	CIGX	803224	217,420	108.71	1/13/2014	CIGX	803224	114.08
31	6	1/7/2014	JTLX	247	216,440	108.22	1/13/2014	JTLX	247	110.2
32	7	1/7/2014	CEFX	31569	216,760	108.38	1/13/2014	CEFX	31569	110.33
33	8	1/7/2014	CEFX	30898	217,580	108.79	1/13/2014	CEFX	30898	109.48
34	9	1/7/2014	JTLX	95	218,100	109.05	1/13/2014	JTLX	95	112.4
35	10	1/7/2014	CEFX	31933	217,580	108.79	1/13/2014	CEFX	31933	105.98
36	11	1/7/2014	CEFX	31765	218,000	109.00	1/13/2014	CEFX	31765	108.88
37	12	1/7/2014	CEFX	31964	218,680	109.34	1/13/2014	CEFX	31964	110
38	13	1/7/2014	CEFX	30941	213,320	106.66	1/13/2014	CEFX	30941	90.49
39	1	1/8/2014	JTLX	255	217,040	108.52	1/14/2014	JTLX	255	115.4
40	2	1/8/2014	JTLX	41	205,080	102.54	1/14/2014	JTLX	41	110.2
41	3	1/8/2014	CEFX	35292	216,300	108.15	1/14/2014	CEFX	35292	111.55
42	4	1/8/2014	DJLX	98540	216,480	108.24	1/14/2014	DJLX	98540	110.3
43	5	1/8/2014	CEFX	31807	217,680	108.84	1/14/2014	CEFX	31807	109.1
44	6	1/8/2014	CEFX	30497	216,420	108.21	1/14/2014	CEFX	30497	111.15
45	7	1/8/2014	CEFX	31814	217,420	108.71	1/14/2014	CEFX	31814	106.35
46	8	1/8/2014	CEFX	30995	216,400	108.20	1/11/2014	CEFX	30995	109.98
47	9	1/8/2014	CEFX	35310	216,580	108.29	1/11/2014	CEFX	35310	111.25
48	10	1/8/2014	JTLX	251	215,420	107.71	1/11/2014	JTLX	251	114.78
49	1	1/9/2014	CEFX	30490	216,520	108.26	1/17/2014	CEFX	30490	108.45
50	2	1/9/2014	CEFX	30509	215,280	107.64	1/17/2014	CEFX	30509	108.9
51	3	1/9/2014	CEFX	30426	215,260	107.63	1/17/2014	CEFX	30426	107.8

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD							Rail Car Unloaded at CRL			
Total Cars	650	Total Tons Shipped	70,215.99	Avg/Day	1262.04		Total Tons to Date	70,574.31		
Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons	Date Received at CRL	Rail Car Number		Tons
52	4	1/9/2014	DJLX	98507	215,680	107.84	1/16/2014	DJLX	98507	113.55
53	5	1/9/2014	JTLX	98	215,820	107.91	1/16/2014	JTLX	98	112.95
54	6	1/9/2014	CEFX	30940	216,460	108.23	1/17/2014	CEFX	30940	107.9
55	7	1/9/2014	CEFX	32189	216,420	108.21	1/17/2014	CEFX	32189	107.25
56	8	1/9/2014	CEFX	30438	215,380	107.69	1/14/2014	CEFX	30438	108.8
57	9	1/9/2014	CEFX	31599	216,700	108.35	1/14/2014	CEFX	31599	110.3
58	1	1/10/2014	CEFX	31846	215,640	107.82	1/16/2014	CEFX	31846	118.1
59	2	1/10/2014	CIGX	802114	215,200	107.60	1/16/2014	CIGX	802114	107.88
60	3	1/10/2014	CEFX	32181	215,000	107.50	1/16/2014	CEFX	32181	113.95
61	4	1/10/2014	CEFX	31834	215,220	107.61	1/16/2014	CEFX	31834	103.25
62	5	1/10/2014	CEFX	30529	216,500	108.25	1/16/2014	CEFX	30529	108.73
63	6	1/10/2014	CEFX	30429	216,340	108.17	1/16/2014	CEFX	30429	108.55
64	7	1/10/2014	JTLX	100	214,660	107.33	1/17/2014	JTLX	100	111.15
65	8	1/10/2014	JTLX	233	216,160	108.08	1/17/2014	JTLX	233	113.03
66	9	1/10/2014	CEFX	35297	216,860	108.43	1/16/2014	CEFX	35297	111.4
67	10	1/10/2014	CEFX	35320	215,000	107.50	1/16/2014	CEFX	35320	109.05
68	1	1/11/2014	CEFX	30473	216,060	108.03	1/16/2014	CEFX	30473	108.2
69	2	1/11/2014	DJLX	98546	215,100	107.55	1/16/2014	DJLX	98546	109.35
70	3	1/11/2014	DJLX	98500	215,380	107.69	1/16/2014	DJLX	98500	111.18
71	4	1/11/2014	CIGX	803236	215,680	107.84	1/16/2014	CIGX	803236	109.75
72	5	1/11/2014	CEFX	30998	215,500	107.75	1/16/2014	CEFX	30998	135.21
73	6	1/11/2014	CEFX	30577	215,100	107.55	1/16/2014	CEFX	30577	100.7
74	1	1/12/2014	CEFX	30460	216,660	108.33	1/20/2014	CEFX	30460	109.6
75	2	1/12/2014	CEFX	30989	215,920	107.96	1/20/2014	CEFX	30989	108.65
76	3	1/12/2014	CEFX	30520	217,680	108.84	1/20/2014	CEFX	30520	109.68
77	4	1/12/2014	CEFX	30553	215,020	107.51	1/20/2014	CEFX	30553	107.4
78	5	1/12/2014	CEFX	31533	216,600	108.30	1/20/2014	CEFX	31533	108.65
79	6	1/12/2014	CEFX	30549	216,920	108.46	1/20/2014	CEFX	30549	108.23
80	7	1/12/2014	CEFX	31870	214,980	107.49	1/20/2014	CEFX	31870	107.58
81	8	1/12/2014	CEFX	30452	214,240	107.12	1/20/2014	CEFX	30452	106.88
82	9	1/12/2014	CEFX	31584	215,660	107.83	1/20/2014	CEFX	31584	106.75
83	10	1/12/2014	CEFX	30420	216,380	108.19	1/20/2014	CEFX	30420	107.7
84	1	1/13/2014	CIGX	803246	216,720	108.36	1/20/2014	CIGX	803246	109.63
85	2	1/13/2014	CEFX	31930	215,620	107.81	1/20/2014	CEFX	31930	107.5
86	3	1/13/2014	JTLX	237	216,300	108.15	1/20/2014	JTLX	237	111.88
87	4	1/13/2014	JTLX	241	217,160	108.58	1/20/2014	JTLX	241	106.83
88	5	1/13/2014	JTLX	64	216,640	108.32	1/20/2014	JTLX	64	107.65
89	6	1/13/2014	JTLX	242	217,040	108.52	1/20/2014	JTLX	242	108.15
90	7	1/13/2014	GCCX	700065	215,700	107.85	1/20/2014	GCCX	700065	109.05
91	8	1/13/2014	CIGX	802103	216,880	108.44	1/20/2014	CIGX	802103	107.23
92	9	1/13/2014	GCCX	700008	216,480	108.24	1/20/2014	GCCX	700008	107.48
93	10	1/13/2014	CIGX	802078	216,880	108.44	1/20/2014	CIGX	802078	107.18
94	11	1/13/2014	GCCX	80001	210,240	105.12	1/20/2014	GCCX	80001	102.83
95	12	1/13/2014	GCCX	80017	210,500	105.25	1/20/2014	GCCX	80017	103.75
96	13	1/13/2014	GCCX	80024	210,000	105.00	1/20/2014	GCCX	80024	102.85
97	14	1/13/2014	GCCX	80051	209,980	104.99	1/20/2014	GCCX	80051	102.63
98	15	1/13/2014	NRLX	585655	210,610	105.31	1/20/2014	NRLX	585655	103.4
99	16	1/13/2014	CIGX	802097	217,460	108.73	1/20/2014	CIGX	802097	104.08
100	17	1/13/2014	GCCX	700046	216,260	108.13	1/20/2014	GCCX	700046	108.58
101	18	1/13/2014	CIGX	802126	217,480	108.74	1/20/2014	CIGX	802126	107.3
102	1	1/14/2014	CIGX	802098	216,880	108.44	1/20/2014	CIGX	802098	110.08

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD

Total Cars: 650 | Total Tons Shipped: 70,215.99 | Avg/Day: 1262.04

Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons
103	2	1/14/2014	GCCX	80006	216,740	108.37
104	3	1/14/2014	CIGX	803234	216,240	108.12
105	4	1/14/2014	CIGX	803242	217,920	108.96
106	5	1/14/2014	CEFX	31427	216,940	108.47
107	6	1/14/2014	CEFX	31760	216,400	108.20
108	7	1/14/2014	CEFX	31805	216,520	108.26
109	8	1/14/2014	CEFX	30526	216,840	108.42
110	9	1/14/2014	CEFX	31977	216,000	108.00
111	10	1/14/2014	CEFX	30995	216,420	108.21
112	11	1/14/2014	CEFX	31678	216,160	108.08
113	12	1/14/2014	CEFX	31711	216,860	108.43
114	13	1/14/2014	CEFX	35285	217,220	108.61
115	14	1/14/2014	CEFX	32218	216,320	108.16
116	15	1/14/2014	CEFX	31996	215,980	107.99
117	16	1/14/2014	CEFX	31979	216,660	108.33
118	17	1/14/2014	CEFX	31826	217,160	108.58
119	1	1/15/2014	CEFX	31591	217,000	108.50
120	2	1/15/2014	JTLX	251	217,680	108.84
121	3	1/15/2014	CEFX	30425	217,000	108.50
122	4	1/15/2014	CEFX	35310	216,200	108.10
123	5	1/15/2014	CEFX	31818	215,060	107.53
124	6	1/15/2014	GCCX	700030	202,660	101.33
125	1	1/16/2014	CEFX	30516	215,380	107.69
126	2	1/16/2014	CEFX	31634	215,300	107.65
127	3	1/16/2014	CEFX	30565	216,140	108.07
128	1	1/17/2014	CEFX	35290	216,420	108.21
129	2	1/17/2014	CIGX	803229	216,760	108.38
130	3	1/17/2014	CEFX	35312	217,000	108.50
131	4	1/17/2014	CEFX	31686	215,140	107.57
132	5	1/17/2014	CEFX	33435	217,200	108.60
133	6	1/17/2014	CEFX	31752	217,700	108.85
134	7	1/17/2014	CEFX	30438	215,000	107.50
135	8	1/17/2014	CEFX	31599	216,620	108.31
136	9	1/17/2014	JTLX	41	215,020	107.51
137	10	1/17/2014	JTLX	255	216,040	108.02
138	11	1/17/2014	DJLX	98540	216,040	108.02
139	12	1/17/2014	CEFX	35292	216,080	108.04
140	13	1/17/2014	CEFX	30941	215,980	107.99
141	14	1/17/2014	JTLX	48	216,400	108.20
142	15	1/17/2014	CEFX	35315	216,000	108.00
143	16	1/17/2014	DJLX	98530	216,300	108.15
144	17	1/17/2014	CIGX	803244	215,220	107.61
145	18	1/17/2014	CEFX	35301	216,300	108.15
146	19	1/17/2014	CEFX	30451	215,980	107.99
147	20	1/17/2014	CEFX	35296	216,760	108.38
148	21	1/17/2014	JTLX	69	217,620	108.81
149	22	1/17/2014	JTLX	76	215,180	107.59
150	23	1/17/2014	CEFX	31590	215,080	107.54
151	24	1/17/2014	JTLX	248	215,820	107.91
152	1	1/18/2014	CEFX	31814	216,700	108.35
153	2	1/18/2014	CEFX	30497	214,460	107.23

Rail Car Unloaded at CRL

Total Tons to Date: 70,574.31

Date Received at CRL	Rail Car Number		Tons
1/20/2014	GCCX	80006	110.13
1/21/2014	CIGX	803234	107.7
1/21/2014	CIGX	803242	108.53
1/21/2014	CEFX	31427	107.43
1/21/2014	CEFX	31760	104.6
1/21/2014	CEFX	31805	105.55
1/21/2014	CEFX	30526	105.55
1/21/2014	CEFX	31977	104.45
1/21/2014	CEFX	30995	101.78
1/21/2014	CEFX	31678	103.65
1/21/2014	CEFX	31711	104.5
1/21/2014	CEFX	35285	106.38
1/21/2014	CEFX	32218	104.5
1/21/2014	CEFX	31996	103.8
1/21/2014	CEFX	31979	103.73
1/21/2014	CEFX	31826	103.73
1/21/2014	CEFX	31591	107.23
1/21/2014	JTLX	251	109.93
1/21/2014	CEFX	30425	107.53
1/21/2014	CEFX	35310	108.85
1/21/2014	CEFX	31818	106.65
1/21/2014	GCCX	700030	101.38
1/22/2014	CEFX	30516	106.75
1/22/2014	CEFX	31634	106.35
1/22/2014	CEFX	30565	107.1
1/22/2014	CEFX	35290	106.58
1/22/2014	CIGX	803229	108.73
1/22/2014	CEFX	35312	114.05
1/22/2014	CEFX	31686	106.45
1/22/2014	CEFX	33435	109.75
1/22/2014	CEFX	31752	108.1
1/23/2014	CEFX	30438	106.33
1/23/2014	CEFX	31599	106.9
1/23/2014	JTLX	41	110.9
1/23/2014	JTLX	255	111.8
1/23/2014	DJLX	98540	110.9
1/23/2014	CEFX	35292	109.45
1/22/2014	CEFX	30941	109.68
1/22/2014	JTLX	48	111.18
1/22/2014	CEFX	35315	114.73
1/22/2014	DJLX	98530	109.75
1/22/2014	CIGX	803244	108.75
1/22/2014	CEFX	35301	116.68
1/22/2014	CEFX	30451	108.9
1/22/2014	CEFX	35296	110.95
1/22/2014	JTLX	69	109.7
1/22/2014	JTLX	76	108.03
1/22/2014	CEFX	31590	107.35
1/22/2014	JTLX	248	110.15
1/23/2014	CEFX	31814	108.6
1/23/2014	CEFX	30497	107.75

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD							Rail Car Unloaded at CRL			
Total Cars	650	Total Tons Shipped	70,215.99	Avg/Day	1262.04		Total Tons to Date	70,574.31		
Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons	Date Received at CRL	Rail Car Number		Tons
154	3	1/18/2014	CEFX	31807	215,420	107.71	1/23/2014	CEFX	31807	106.88
155	4	1/18/2014	CEFX	31765	216,420	108.21	1/23/2014	CEFX	31765	108.23
156	5	1/18/2014	CEFX	31933	216,580	108.29	1/23/2014	CEFX	31933	106.6
157	6	1/18/2014	JTLX	95	214,860	107.43	1/23/2014	JTLX	95	108.15
158	7	1/18/2014	CEFX	31964	216,760	108.38	1/23/2014	CEFX	31964	107.3
159	8	1/18/2014	CEFX	31587	214,520	107.26	1/23/2014	CEFX	31587	106.33
160	9	1/18/2014	CEFX	30898	216,100	108.05	1/23/2014	CEFX	30898	111.6
161	10	1/18/2014	CEFX	35313	215,740	107.87	1/23/2014	CEFX	35313	114
162	11	1/18/2014	CIGX	803223	215,520	107.76	1/23/2014	CIGX	803223	107.58
163	12	1/18/2014	CIGX	803224	216,280	108.14	1/23/2014	CIGX	803224	108.08
164	13	1/18/2014	CIGX	803222	213,440	106.72	1/23/2014	CIGX	803222	108.28
165	14	1/18/2014	CEFX	31569	216,400	108.20	1/23/2014	CEFX	31569	119.2
166	15	1/18/2014	JTLX	247	216,640	108.32	1/23/2014	JTLX	247	109
167	1	1/20/2014	CIGX	802114	215,560	107.78	1/23/2014	CIGX	802114	108.8
168	2	1/20/2014	CEFX	35297	215,540	107.77	1/23/2014	CEFX	35297	108.45
169	3	1/20/2014	DJLX	98507	216,920	108.46	1/24/2014	DJLX	98507	107.73
170	4	1/20/2014	GCCX	700069	217,020	108.51	1/24/2014	GCCX	700069	78.8
171	5	1/20/2014	DJLX	98500	217,200	108.60	1/24/2014	DJLX	98500	108.7
172	6	1/20/2014	JTLX	98	216,060	108.03	1/24/2014	JTLX	98	107.13
173	7	1/20/2014	CEFX	31846	216,460	108.23	1/24/2014	CEFX	31846	105.6
174	8	1/20/2014	CEFX	31834	217,120	108.56	1/24/2014	CEFX	31834	107
175	9	1/20/2014	GCCX	80004	205,680	102.84	1/24/2014	GCCX	80004	102.9
176	10	1/20/2014	GCCX	700006	203,060	101.53	1/24/2014	GCCX	700006	109.48
177	11	1/20/2014	CEFX	30577	217,680	108.84	1/24/2014	CEFX	30577	109.68
178	12	1/20/2014	DJLX	98546	217,140	108.57	1/24/2014	DJLX	98546	106.9
179	13	1/20/2014	CEFX	30423	216,080	108.04	1/24/2014	CEFX	30423	108.08
180	14	1/20/2014	CEFX	30429	216,960	108.48	1/24/2014	CEFX	30429	106.98
181	15	1/20/2014	CEFX	30998	216,260	108.13	1/24/2014	CEFX	30998	109.1
182	16	1/20/2014	CEFX	32181	217,080	108.54	1/24/2014	CEFX	32181	107.65
183	17	1/20/2014	GCCX	700032	203,200	101.60	1/24/2014	GCCX	700032	102.8
184	18	1/20/2014	CIGX	802080	215,620	107.81	1/23/2014	CIGX	802080	112.25
185	19	1/20/2014	GCCX	700067	215,260	107.63	1/23/2014	GCCX	700067	110.78
186	20	1/20/2014	GCCX	80034	216,500	108.25	1/27/2014	GCCX	80034	107.8
187	21	1/20/2014	GCCX	700041	215,680	107.84	1/23/2014	GCCX	700041	104.5
188	22	1/20/2014	CEFX	30529	216,000	108.00	1/23/2014	CEFX	30529	106.38
189	23	1/20/2014	CIGX	803236	217,640	108.82	1/23/2014	CIGX	803236	109.95
190	24	1/20/2014	CEFX	35320	215,920	107.96	1/23/2014	CEFX	35320	108.3
191	25	1/20/2014	CEFX	30473	215,700	107.85	1/23/2014	CEFX	30473	108.7
192	1	1/21/2014	NRLX	527949	216,840	108.42	1/30/2014	NRLX	527949	109.13
193	2	1/21/2014	GCCX	700001	200,360	100.18	1/30/2014	GCCX	700001	102.9
194	3	1/21/2014	NRLX	526228	217,880	108.94	1/30/2014	NRLX	526228	112.7
195	4	1/21/2014	GCCX	80016	207,140	103.57	1/30/2014	GCCX	80016	103.93
196	5	1/21/2014	CIGX	802099	217,320	108.66	1/30/2014	CIGX	802099	110.38
197	6	1/21/2014	NRLX	526233	217,820	108.91	1/30/2014	NRLX	526233	108.65
198	7	1/21/2014	GCCX	700010	200,160	100.08	1/30/2014	GCCX	700010	100.88
199	8	1/21/2014	GCCX	80000	208,900	104.45	1/30/2014	GCCX	80000	104.99
200	9	1/21/2014	GCCX	700013	207,740	103.87	1/30/2014	GCCX	700013	100.65
201	10	1/21/2014	CIGX	802111	215,680	107.84	1/30/2014	CIGX	802111	110.05
202	11	1/21/2014	GCCX	700029	202,200	101.10	1/30/2014	GCCX	700029	100.8
203	12	1/21/2014	CIGX	802107	216,900	108.45	1/30/2014	CIGX	802107	105.2
204	13	1/21/2014	NRLX	527970	216,020	108.01	1/30/2014	NRLX	527970	109

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD							Rail Car Unloaded at CRL			
Total Cars	650	Total Tons Shipped	70,215.99	Avg/Day	1262.04		Total Tons to Date	70,574.31		
Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons	Date Received at CRL	Rail Car Number		Tons
205	14	1/21/2014	CIGX	802087	216,700	108.35	1/30/2014	CIGX	802087	106.1
206	15	1/21/2014	GCCX	80019	206,860	103.43	1/30/2014	GCCX	80019	104.9
207	16	1/21/2014	CIGX	802132	216,560	108.28	1/30/2014	CIGX	802132	109.23
208	1	1/22/2014	CIGX	802105	217,620	108.81	1/27/2014	CIGX	802105	108.08
209	2	1/22/2014	CIGX	802104	216,660	108.33	1/27/2014	CIGX	802104	108.88
210	3	1/22/2014	CIGX	802096	217,280	108.64	1/27/2014	CIGX	802096	108.61
211	4	1/22/2014	GCCX	80046	209,000	104.50	1/27/2014	GCCX	80046	102.1
212	5	1/22/2014	GCCX	80015	209,080	104.54	1/27/2014	GCCX	80015	102.5
213	6	1/22/2014	CIGX	802129	217,480	108.74	1/27/2014	CIGX	802129	109.18
214	7	1/22/2014	CIGX	803264	216,880	108.44	1/27/2014	CIGX	803264	106.1
215	8	1/22/2014	CIGX	802118	217,600	108.80	1/27/2014	CIGX	802118	108.68
216	9	1/22/2014	CEFX	30940	216,020	108.01	1/27/2014	CEFX	30940	107.5
217	10	1/22/2014	CIGX	802085	216,160	108.08	1/27/2014	CIGX	802085	108.63
218	11	1/22/2014	JTLX	100	216,440	108.22	1/27/2014	JTLX	100	106.54
219	12	1/22/2014	CEFX	32189	217,260	108.63	1/27/2014	CEFX	32189	107.33
220	1	1/23/2014	CEFX	30490	215,740	107.87	1/28/2014	CEFX	30490	105.4
221	2	1/23/2014	JTLX	233	216,100	108.05	1/28/2014	JTLX	233	103.9
222	3	1/23/2014	CEFX	30426	217,960	108.98	1/29/2014	CEFX	30426	109.05
223	4	1/23/2014	CEFX	30509	217,580	108.79	1/29/2014	CEFX	30509	109.2
224	5	1/23/2014	CITX	184601	215,840	107.92	1/28/2014	CITX	184601	109.5
225	6	1/23/2014	CITX	184575	216,100	108.05	1/28/2014	CITX	184575	108.2
226	7	1/23/2014	CITX	184640	216,580	108.29	1/28/2014	CITX	184640	105.7
227	8	1/23/2014	CITX	184632	215,040	107.52	1/28/2014	CITX	184632	105.2
228	9	1/23/2014	CITX	184702	215,160	107.58	1/28/2014	CITX	184702	106.93
229	10	1/23/2014	CITX	184698	215,560	107.78	1/28/2014	CITX	184698	107.45
230	11	1/23/2014	CITX	184600	216,780	108.39	1/28/2014	CITX	184600	106.65
231	12	1/23/2014	CITX	184626	215,000	107.50	1/28/2014	CITX	184626	105.75
232	13	1/23/2014	CITX	184637	215,940	107.97	1/29/2014	CITX	184637	107.25
233	14	1/23/2014	CITX	184624	215,440	107.72	1/29/2014	CITX	184624	108.2
234	1	1/24/2014	CIGX	802097	215,480	107.74	1/28/2014	CIGX	802097	112
235	2	1/24/2014	NRLX	585655	215,320	107.66	1/28/2014	NRLX	585655	109.4
236	3	1/24/2014	JTLX	241	216,120	108.06	1/29/2014	JTLX	241	106.6
237	4	1/24/2014	JTLX	237	216,760	108.38	1/29/2014	JTLX	237	110.1
238	5	1/24/2014	JTLX	242	217,000	108.50	1/29/2014	JTLX	242	114
239	6	1/24/2014	CEFX	31870	215,740	107.87	1/29/2014	CEFX	31870	109.85
240	7	1/24/2014	CEFX	30452	216,380	108.19	1/29/2014	CEFX	30452	109.63
241	8	1/24/2014	CEFX	31930	216,300	108.15	1/29/2014	CEFX	31930	109
242	9	1/24/2014	CIGX	803246	215,380	107.69	1/28/2014	CIGX	803246	108.68
243	10	1/24/2014	CEFX	31584	216,040	108.02	1/29/2014	CEFX	31584	110.85
244	1	1/25/2014	CEFX	30420	217,060	108.53	1/29/2014	CEFX	30420	109.9
245	2	1/25/2014	CEFX	31533	216,960	108.48	1/29/2014	CEFX	31533	108.85
246	3	1/25/2014	CIGX	802126	216,000	108.00	1/30/2014	CIGX	802126	111.83
247	4	1/25/2014	GCCX	700046	215,660	107.83	1/30/2014	GCCX	700046	112.53
248	5	1/25/2014	CIGX	802098	217,380	108.69	1/30/2014	CIGX	802098	110.5
249	6	1/25/2014	GCCX	80006	209,800	104.90	1/31/2014	GCCX	80006	105.45
250	7	1/25/2014	JTLX	64	217,780	108.89	1/31/2014	JTLX	64	111.2
251	8	1/25/2014	CIGX	802078	216,920	108.46	1/31/2014	CIGX	802078	110.95
252	9	1/25/2014	CIGX	803242	216,060	108.03	1/30/2014	CIGX	803242	110.33
253	10	1/25/2014	CIGX	803234	216,360	108.18	1/30/2014	CIGX	803234	110.18
254	11	1/25/2014	CEFX	30526	215,680	107.84	1/30/2014	CEFX	30526	108
255	12	1/25/2014	CEFX	31805	215,420	107.71	1/30/2014	CEFX	31805	107.85

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD							Rail Car Unloaded at CRL			
Total Cars	650	Total Tons Shipped	70,215.99	Avg/Day	1262.04		Total Tons to Date	70,574.31		
Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons	Date Received at CRL	Rail Car Number		Tons
256	13	1/25/2014	CEFX	31760	216,860	108.43	1/30/2014	CEFX	31760	108.4
257	14	1/25/2014	GCCX	700030	201,360	100.68	1/30/2014	GCCX	700030	107.9
258	15	1/25/2014	CEFX	30460	216,760	108.38	1/30/2014	CEFX	30460	107.58
259	16	1/25/2014	CEFX	30989	216,320	108.16	1/30/2014	CEFX	30989	108.98
260	17	1/25/2014	CEFX	30520	216,080	108.04	1/30/2014	CEFX	30520	109.3
261	18	1/25/2014	CEFX	30553	215,760	107.88	1/30/2014	CEFX	30553	109.23
262	19	1/25/2014	CIGX	802103	214,460	107.23				
263	20	1/25/2014	CEFX	31979	216,780	108.39	1/31/2014	CEFX	31979	109.53
264	1	1/26/2014	CEFX	31996	216,200	108.10	1/31/2014	CEFX	31996	106.3
265	2	1/26/2014	CEFX	31826	216,380	108.19	1/30/2014	CEFX	31826	107.53
266	3	1/26/2014	CEFX	31591	218,760	109.38	1/30/2014	CEFX	31591	107.45
267	4	1/26/2014	JTLX	251	217,600	108.80	1/31/2014	JTLX	251	112.18
268	5	1/26/2014	CEFX	30425	215,940	107.97	1/31/2014	CEFX	30425	106.88
269	6	1/26/2014	CEFX	30549	216,840	108.42	1/31/2014	CEFX	30549	110.75
270	1	1/27/2014	CEFX	35290	217,780	108.89	1/31/2014	CEFX	35290	115.13
271	2	1/27/2014	CIGX	803229	218,220	109.11	1/31/2014	CIGX	803229	112.53
272	3	1/27/2014	CEFX	35312	216,440	108.22	1/31/2014	CEFX	35312	123.35
273	4	1/27/2014	CEFX	31752	217,100	108.55	1/31/2014	CEFX	31752	108.5
274	5	1/27/2014	CIGX	802114	217,620	108.81	1/31/2014	CIGX	802114	113
275	6	1/27/2014	CEFX	31686	217,220	108.61	1/31/2014	CEFX	31686	110.43
276	7	1/27/2014	CEFX	30473	217,280	108.64	1/31/2014	CEFX	30473	109.08
277	8	1/27/2014	CEFX	35320	217,100	108.55	1/31/2014	CEFX	35320	108.03
278	9	1/27/2014	CEFX	30565	217,300	108.65	1/31/2014	CEFX	30565	105.85
279	10	1/27/2014	CEFX	31427	217,620	108.81	1/31/2014	CEFX	31427	112.18
280	11	1/27/2014	CEFX	30516	217,460	108.73	1/31/2014	CEFX	30516	109.75
281	12	1/27/2014	CEFX	31634	217,380	108.69	1/31/2014	CEFX	31634	109.45
282	13	1/27/2014	CEFX	803244	217,880	108.94	1/31/2014	CIGX	803244	111.95
283	14	1/27/2014	CEFX	31590	218,520	109.26	1/31/2014	CEFX	31590	112.6
284	1	1/28/2014	CEFX	30451	217,300	108.65	2/3/2014	CEFX	30451	108.53
285	2	1/28/2014	CEFX	35301	217,160	108.58	2/3/2014	CEFX	35301	114.6
286	3	1/28/2014	CEFX	30941	217,220	108.61	2/3/2014	CEFX	30941	108.15
287	4	1/28/2014	CEFX	35296	217,540	108.77	2/3/2014	CEFX	35296	108.7
288	5	1/28/2014	GCCX	80051	209,940	104.97	2/3/2014	GCCX	80051	104.73
289	6	1/28/2014	GCCX	80001	208,460	104.23	2/3/2014	GCCX	80001	104.85
290	7	1/28/2014	JTLX	248	218,180	109.09	2/3/2014	JTLX	248	112.15
291	8	1/28/2014	JTLX	76	217,980	108.99	2/3/2014	JTLX	76	111.75
292	9	1/28/2014	GCCX	80017	209,600	104.80	2/3/2014	GCCX	80017	111.43
293	10	1/28/2014	CEFX	31678	217,500	108.75	2/3/2014	CEFX	31678	110.33
294	11	1/28/2014	CEFX	35285	217,900	108.95	2/3/2014	CEFX	35285	108.58
295	12	1/28/2014	CEFX	32218	217,740	108.87	2/3/2014	CEFX	32218	103.73
296	1	1/29/2014	CEFX	31711	217,860	108.93	2/3/2014	CEFX	31711	110.48
297	2	1/29/2014	CEFX	31818	218,380	109.19	2/3/2014	CEFX	31818	110.93
298	3	1/29/2014	CEFX	35310	216,800	108.40	2/3/2014	CEFX	35310	111.65
299	4	1/29/2014	CEFX	30995	215,300	107.65	2/3/2014	CEFX	30995	105.38
300	5	1/29/2014	DJLX	98530	216,960	108.48	2/3/2014	DJLX	98530	112.2
301	6	1/29/2014	CEFX	35315	216,620	108.31	2/3/2014	CEFX	35315	114.08
302	7	1/29/2014	CEFX	35292	217,140	108.57	2/3/2014	CEFX	35292	110.63
303	8	1/29/2014	DJLX	98540	217,320	108.66	2/3/2014	DJLX	98540	108.75
304	9	1/29/2014	CEFX	30497	217,540	108.77	2/3/2014	CEFX	30497	106.23
305	10	1/29/2014	CEFX	31814	217,880	108.94	2/3/2014	CEFX	31814	107
306	11	1/29/2014	CEFX	31765	216,540	108.27	2/3/2014	CEFX	31765	106.28

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD

Total Cars: 650 | Total Tons Shipped: 70,215.99 | Avg/Day: 1262.04

Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons
307	12	1/29/2014	CEFX	31807	216,780	108.39
308	13	1/29/2014	CEFX	31599	218,000	109.00
309	14	1/29/2014	CEFX	30438	217,000	108.50
310	15	1/29/2014	CEFX	31964	217,420	108.71
311	16	1/29/2014	DJLX	98507	217,780	108.89
312	17	1/29/2014	CEFX	33435	217,440	108.72
313	18	1/29/2014	CEFX	31977	216,500	108.25
314	19	1/29/2014	GCCX	80024	209,120	104.56
315	20	1/29/2014	JTLX	69	217,060	108.53
316	1	1/30/2014	GCCX	700008	216,340	108.17
317	2	1/30/2014	GCCX	700065	215,500	107.75
318	3	1/30/2014	CITX	184630	215,900	107.95
319	4	1/30/2014	CITX	184642	215,740	107.87
320	5	1/30/2014	CEFX	31834	215,780	107.89
321	6	1/30/2014	CEFX	31846	215,320	107.66
322	7	1/30/2014	GCCX	700069	215,100	107.55
323	8	1/30/2014	GCCX	700006	215,360	107.68
324	9	1/30/2014	GCCX	700032	215,140	107.57
325	10	1/30/2014	CEFX	31587	215,620	107.81
326	11	1/30/2014	CEFX	35297	215,600	107.80
327	12	1/30/2014	GCCX	700041	214,820	107.41
328	1	1/31/2014	CIGX	803236	215,640	107.82
329	2	1/31/2014	CEFX	30529	215,840	107.92
330	3	1/31/2014	CEFX	31933	216,880	108.44
331	4	1/31/2014	JTLX	95	215,580	107.79
332	5	1/31/2014	CITX	184581	215,840	107.92
333	6	1/31/2014	CITX	184612	216,180	108.09
334	7	1/31/2014	CITX	184707	216,120	108.06
335	8	1/31/2014	CEFX	30940	216,300	108.15
336	9	1/31/2014	CEFX	32189	216,020	108.01
337	10	1/31/2014	JTLX	100	215,660	107.83
338	11	1/31/2014	CIGX	802118	215,340	107.67
339	12	1/31/2014	CIGX	803264	215,340	107.67
340	13	1/31/2014	GCCX	80034	206,700	103.35
341	14	1/31/2014	CITX	184690	215,800	107.90
342	15	1/31/2014	CIGX	803222	215,160	107.58
343	16	1/31/2014	CEFX	31569	215,680	107.84
344	17	1/31/2014	JTLX	247	215,180	107.59
345	18	1/31/2014	CEFX	30898	216,100	108.05
346	19	1/31/2014	CEFX	35313	215,140	107.57
347	20	1/31/2014	CIGX	803223	215,760	107.88
348	21	1/31/2014	CIGX	803224	215,640	107.82
349	1	2/1/2014	GCCX	700067	216,920	108.46
350	2	2/1/2014	CITX	184601	216,080	108.04
351	3	2/1/2014	CITX	184575	215,740	107.87
352	4	2/1/2014	CITX	184600	215,040	107.52
353	5	2/1/2014	CITX	184626	216,080	108.04
354	6	2/1/2014	CITX	184702	215,760	107.88
355	7	2/1/2014	CITX	184698	215,980	107.99
356	8	2/1/2014	JTLX	233	215,680	107.84
357	9	2/1/2014	CEFX	30490	216,000	108.00

Rail Car Unloaded at CRL

Total Tons to Date: 70,574.31

Date Received at CRL	Rail Car Number		Tons
2/3/2014	CEFX	31807	106.53
2/3/2014	CEFX	31599	107.6
2/3/2014	CEFX	30438	107.55
2/3/2014	CEFX	31964	108.98
2/3/2014	DJLX	98507	110.35
2/3/2014	CEFX	33435	110.38
2/3/2014	CEFX	31977	106.2
2/3/2014	GCCX	80024	107.43
2/3/2014	JTLX	69	105.65
2/3/2014	GCCX	700008	109.83
2/3/2014	GCCX	700065	104.3
2/5/2014	CITX	184630	106.1
2/5/2014	CITX	184642	107.88
2/5/2014	CEFX	31834	110.98
2/5/2014	CEFX	31846	106.7
2/5/2014	GCCX	700069	108.98
2/5/2014	GCCX	700006	112.23
2/5/2014	GCCX	700032	109.8
2/5/2014	CEFX	31587	108.38
2/5/2014	CEFX	35297	108.95
2/5/2014	GCCX	700041	109.33
2/5/2014	CIGX	803236	109.33
2/5/2014	CEFX	30529	106.35
2/5/2014	CEFX	31933	106.15
2/5/2014	JTLX	95	110.4
2/13/2014	CITX	184581	100.3
2/13/2014	CITX	184612	102.65
2/13/2014	CITX	184707	104.18
2/13/2014	CEFX	30940	106.28
2/13/2014	CEFX	32189	105.1
2/13/2014	JTLX	100	110.15
2/13/2014	CIGX	802118	108.93
2/13/2014	CIGX	803264	103.1
2/13/2014	GCCX	80034	102.13
2/13/2014	CITX	184690	110.8
2/13/2014	CIGX	803222	106.8
2/13/2014	CEFX	31569	108.2
2/13/2014	JTLX	247	106.6
2/13/2014	CEFX	30898	107.2
2/13/2014	CEFX	35313	111.7
2/14/2014	CIGX	803223	105.4
2/14/2014	CIGX	803224	105.98
2/11/2014	GCCX	700067	111.9
2/11/2014	CITX	184601	103.95
2/11/2014	CITX	184575	108.63
2/11/2014	CITX	184600	107.3
2/11/2014	CITX	184626	106.9
2/11/2014	CITX	184702	108.45
2/11/2014	CITX	184698	108.88
2/11/2014	JTLX	233	105.35
2/11/2014	CEFX	30490	109.4

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD							Rail Car Unloaded at CRL			
Total Cars	650	Total Tons Shipped	70,215.99	Avg/Day	1262.04		Total Tons to Date	70,574.31		
Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons	Date Received at CRL	Rail Car Number		Tons
358	10	2/1/2014	CITX	184640	215,160	107.58	2/11/2014	CITX	184640	107.18
359	11	2/1/2014	CITX	184632	215,500	107.75	2/11/2014	CITX	184632	107.38
360	12	2/1/2014	GCCX	80046	206,160	103.08	2/11/2014	GCCX	80046	104.48
361	13	2/1/2014	CIGX	802096	215,820	107.91	2/11/2014	CIGX	802096	109
362	14	2/1/2014	CIGX	802129	215,600	107.80	2/11/2014	CIGX	802129	107.8
363	15	2/1/2014	CIGX	802104	215,860	107.93	2/11/2014	CIGX	802104	109.25
364	16	2/1/2014	CIGX	802105	215,800	107.90	2/11/2014	CIGX	802105	108.1
365	17	2/1/2014	CIGX	802085	215,200	107.60	2/13/2014	CIGX	802085	102.2
366	18	2/1/2014	CEFX	30429	215,020	107.51	2/13/2014	CEFX	30429	103.7
367	19	2/1/2014	DJLX	98546	215,500	107.75	2/13/2014	DJLX	98546	105.9
368	20	2/1/2014	CEFX	30577	216,400	108.20	2/13/2014	CEFX	30577	109.15
369	21	2/1/2014	JTLX	98	216,560	108.28	2/11/2014	JTLX	98	111.18
370	22	2/1/2014	DJLX	98500	216,000	108.00	2/11/2014	DJLX	98500	109.38
371	23	2/1/2014	CEFX	32181	215,300	107.65	2/11/2014	CEFX	32181	106.85
372	1	2/2/2014	CEFX	30998	217,680	108.84	2/12/2014	CEFX	30998	108.2
373	2	2/2/2014	JTLX	48	217,660	108.83	2/12/2014	JTLX	48	108
374	3	2/2/2014	JTLX	255	217,600	108.80	2/12/2014	JTLX	255	110.7
375	4	2/2/2014	JTLX	41	218,020	109.01	2/12/2014	JTLX	41	109.58
376	5	2/2/2014	CEFX	30423	217,340	108.67	2/12/2014	CEFX	30423	105.55
377	1	2/4/2014	CEFX	30452	217,480	108.74	2/12/2014	CEFX	30452	108.28
378	2	2/4/2014	CEFX	31870	217,240	108.62	2/12/2014	CEFX	31870	110.08
379	3	2/4/2014	CIGX	803246	217,240	108.62	2/12/2014	CIGX	803246	108.75
380	4	2/4/2014	CEFX	31930	217,020	108.51	2/12/2014	CEFX	31930	109.1
381	5	2/4/2014	CIGX	802097	218,600	109.30	2/12/2014	CIGX	802097	109.95
382	6	2/4/2014	CEFX	31584	217,380	108.69	2/12/2014	CEFX	31584	109
383	7	2/4/2014	CEFX	30426	217,500	108.75	2/12/2014	CEFX	30426	107.4
384	8	2/4/2014	CEFX	30509	217,740	108.87	2/12/2014	CEFX	30509	107.35
385	9	2/4/2014	JTLX	241	217,840	108.92	2/14/2014	JTLX	241	106.45
386	10	2/4/2014	NRLX	585655	217,780	108.89	2/12/2014	NRLX	585655	109.6
387	11	2/4/2014	CITX	184624	218,040	109.02	2/14/2014	CITX	184624	105.25
388	12	2/4/2014	CITX	184637	217,880	108.94	2/14/2014	CITX	184637	106.05
389	13	2/4/2014	CITX	184644	218,220	109.11	2/12/2014	CITX	184644	107.05
390	14	2/4/2014	CITX	184636	217,680	108.84	2/12/2014	CITX	184636	108.73
391	1	2/5/2014	CITX	184645	217,420	108.71	2/12/2014	CITX	184645	109.48
392	2	2/5/2014	CITX	184584	215,980	107.99	2/12/2014	CITX	184584	109.45
393	3	2/5/2014	CITX	184582	216,220	108.11	2/14/2014	CITX	184582	109.55
394	4	2/5/2014	CITX	184603	217,720	108.86	2/14/2014	CITX	184603	108.25
395	5	2/5/2014	CEFX	31752	217,240	108.62	2/14/2014	CEFX	31752	107.6
396	6	2/5/2014	CIGX	803244	217,320	108.66	2/14/2014	CIGX	803244	110.5
397	7	2/5/2014	CEFX	30460	217,360	108.68	2/14/2014	CEFX	30460	112.43
398	8	2/5/2014	CEFX	31805	218,100	109.05	2/14/2014	CEFX	31805	106.2
399	9	2/5/2014	CIGX	802098	217,160	108.58	2/14/2014	CIGX	802098	109.3
400	10	2/5/2014	CIGX	802126	218,140	109.07	2/14/2014	CIGX	802126	115.95
401	11	2/5/2014	CEFX	31591	217,600	108.80	2/14/2014	CEFX	31591	108.4
402	12	2/5/2014	CEFX	31826	217,360	108.68	2/14/2014	CEFX	31826	116.65
403	13	2/5/2014	CEFX	31533	216,920	108.46	2/14/2014	CEFX	31533	108.53
404	14	2/5/2014	CEFX	30420	216,360	108.18	2/14/2014	CEFX	30420	106.45
405	15	2/5/2014	NRLX	526228	217,420	108.71	2/14/2014	NRLX	526228	110.58
406	16	2/5/2014	JTLX	242	218,300	109.15	2/14/2014	JTLX	242	112.48
407	17	2/5/2014	CEFX	30425	216,700	108.35	2/14/2014	CEFX	30425	107.73
408	18	2/5/2014	JTLX	251	217,140	108.57	2/14/2014	JTLX	251	107.08

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD							Rail Car Unloaded at CRL			
Total Cars	650	Total Tons Shipped	70,215.99	Avg/Day	1262.04		Total Tons to Date	70,574.31		
Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons	Date Received at CRL	Rail Car Number		Tons
409	19	2/5/2014	JTLX	237	217,900	108.95	2/14/2014	JTLX	237	111.05
410	20	2/5/2014	CEFX	30516	217,220	108.61	2/14/2014	CEFX	30516	108.85
411	1	2/6/2014	CEFX	31590	216,080	108.04	3/12/2014	CEFX	31590	99.4
412	2	2/6/2014	CITX	184613	215,380	107.69	3/12/2014	CITX	184613	104.13
413	1	2/7/2014	NRLX	527970	216,760	108.38	2/15/2014	NRLX	527970	112.45
414	2	2/7/2014	JTLX	64	216,440	108.22	2/14/2014	JTLX	64	110.45
415	3	2/7/2014	CEFX	31634	215,780	107.89	2/15/2014	CEFX	31634	106.6
416	4	2/7/2014	CEFX	30565	215,840	107.92	2/15/2014	CEFX	30565	108.35
417	5	2/7/2014	CEFX	31427	215,280	107.64	2/15/2014	CEFX	31427	108.95
418	6	2/7/2014	CEFX	30473	216,200	108.10	2/15/2014	CEFX	30473	107.98
419	7	2/7/2014	CEFX	35320	215,660	107.83	2/15/2014	CEFX	35320	108.45
420	8	2/7/2014	CEFX	31686	216,180	108.09	2/14/2014	CEFX	31686	111.68
421	9	2/7/2014	CEFX	35312	216,280	108.14	2/14/2014	CEFX	35312	113.93
422	10	2/7/2014	CEFX	30549	216,460	108.23	2/14/2014	CEFX	30549	109.03
423	11	2/7/2014	CEFX	31996	215,500	107.75	2/14/2014	CEFX	31996	108.05
424	12	2/7/2014	CEFX	31979	216,900	108.45	2/14/2014	CEFX	31979	108.68
425	13	2/7/2014	CIGX	802114	216,720	108.36	2/15/2014	CIGX	802114	111.7
426	14	2/7/2014	CIGX	803229	217,900	108.95	2/15/2014	CIGX	803229	111.83
427	15	2/7/2014	CEFX	35290	217,700	108.85	2/14/2014	CEFX	35290	112
428	16	2/7/2014	CITX	184696	216,600	108.30	2/15/2014	CITX	184696	109.13
429	17	2/7/2014	CITX	184680	216,460	108.23	2/15/2014	CITX	184680	106.95
430	18	2/7/2014	CITX	184693	215,860	107.93	2/14/2014	CITX	184693	107.18
431	19	2/7/2014	CEFX	31760	216,900	108.45	2/14/2014	CEFX	31760	107.85
432	20	2/7/2014	CEFX	30553	216,240	108.12	2/14/2014	CEFX	30553	110.55
433	21	2/7/2014	CEFX	30520	217,020	108.51	2/14/2014	CEFX	30520	106.65
434	22	2/7/2014	CEFX	30989	217,760	108.88	2/15/2014	CEFX	30989	108.4
435	23	2/7/2014	CEFX	30526	216,020	108.01	2/15/2014	CEFX	30526	108.95
436	24	2/7/2014	CIGX	803234	216,440	108.22	2/15/2014	CIGX	803234	110.6
437	25	2/7/2014	CIGX	803242	215,240	107.62	2/15/2014	CIGX	803242	108.3
438	26	2/7/2014	NRLX	526233	216,380	108.19	2/15/2014	NRLX	526233	113.6
439	1	2/8/2014	GCCX	80006	209,320	104.66	2/15/2014	GCCX	80006	115.2
440	2	2/8/2014	CEFX	30451	216,840	108.42	2/18/2014	CEFX	30451	109.35
441	3	2/8/2014	CEFX	35301	216,900	108.45	2/18/2014	CEFX	35301	113.3
442	4	2/8/2014	CIGX	802087	215,620	107.81	2/18/2014	CIGX	802087	113.38
443	5	2/8/2014	CIGX	802078	217,280	108.64	2/18/2014	CIGX	802078	112.78
444	1	2/10/2014	CITX	184590	217,460	108.73	2/15/2014	CITX	184590	110.18
445	2	2/10/2014	CITX	184701	217,100	108.55	2/15/2014	CITX	184701	110.75
446	3	2/10/2014	DJLX	98507	217,520	108.76	2/15/2014	DJLX	98507	111.95
447	4	2/10/2014	CEFX	31599	217,760	108.88	2/15/2014	CEFX	31599	110.65
448	5	2/10/2014	CEFX	32218	217,840	108.92	2/18/2014	CEFX	32218	106.5
449	6	2/10/2014	CEFX	30497	217,560	108.78	2/15/2014	CEFX	30497	107.73
450	7	2/10/2014	CEFX	35296	217,620	108.81	2/15/2014	CEFX	35296	112.48
451	8	2/10/2014	CEFX	35285	217,960	108.98	2/15/2014	CEFX	35285	114.3
452	9	2/10/2014	JTLX	76	218,220	109.11	2/15/2014	JTLX	76	111.95
453	10	2/10/2014	CEFX	30941	217,440	108.72	2/15/2014	CEFX	30941	107.38
454	1	2/11/2014	JTLX	248	215,580	107.79	2/15/2014	JTLX	248	110.85
455	2	2/11/2014	CEFX	31678	216,400	108.20	2/15/2014	CEFX	31678	109.3
456	3	2/11/2014	NRLX	527936	216,080	108.04	2/15/2014	NRLX	527936	112.45
457	4	2/11/2014	CIGX	802106	215,220	107.61	2/15/2014	CIGX	802106	108.93
458	5	2/11/2014	CEFX	35310	217,600	108.80	2/18/2014	CEFX	35310	116.03
459	6	2/11/2014	CIGX	802103	217,520	108.76	2/18/2014	CIGX	802103	109.33

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD

Total Cars 650 | Total Tons Shipped 70,215.99 | Avg/Day 1262.04

Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons
460	7	2/11/2014	CEFX	31711	217,240	108.62
461	8	2/11/2014	CEFX	30995	216,720	108.36
462	9	2/11/2014	CEFX	30438	217,120	108.56
463	10	2/11/2014	CEFX	31818	218,040	109.02
464	1	2/12/2014	CEFX	31846	215,940	107.97
465	2	2/12/2014	CITX	184630	216,880	108.44
466	3	2/12/2014	CITX	184642	216,520	108.26
467	4	2/12/2014	CEFX	31587	217,380	108.69
468	5	2/12/2014	CEFX	33435	216,700	108.35
469	6	2/12/2014	DJLX	98540	215,520	107.76
470	7	2/12/2014	CEFX	35292	215,980	107.99
471	1	2/15/2014	JTLX	48	216,200	108.10
472	2	2/15/2014	CEFX	31584	217,320	108.66
473	3	2/15/2014	NRLX	526001	217,620	108.81
474	4	2/15/2014	CEFX	30998	216,360	108.18
475	5	2/15/2014	CEFX	31834	215,740	107.87
476	6	2/15/2014	CEFX	31933	215,740	107.87
477	7	2/15/2014	JTLX	95	215,760	107.88
478	8	2/15/2014	CEFX	35297	215,080	107.54
479	9	2/15/2014	CEFX	31807	216,360	108.18
480	10	2/15/2014	CEFX	31765	217,100	108.55
481	11	2/15/2014	CEFX	31814	216,820	108.41
482	12	2/15/2014	CEFX	35315	217,120	108.56
483	13	2/15/2014	DJLX	98530	216,640	108.32
484	14	2/15/2014	CEFX	31964	217,120	108.56
485	15	2/15/2014	JTLX	69	216,860	108.43
486	16	2/15/2014	CEFX	31977	215,920	107.96
487	17	2/15/2014	CIGX	803236	215,880	107.94
488	18	2/15/2014	CEFX	30529	216,660	108.33
489	19	2/15/2014	CITX	184644	216,000	108.00
490	20	2/15/2014	CIGX	802097	215,320	107.66
491	21	2/15/2014	CEFX	30509	215,180	107.59
492	22	2/15/2014	CEFX	30426	217,180	108.59
493	23	2/15/2014	NRLX	585655	216,240	108.12
494	24	2/15/2014	CEFX	31870	217,140	108.57
495	25	2/15/2014	CEFX	30452	215,040	107.52
496	26	2/15/2014	CEFX	31930	215,080	107.54
497	27	2/15/2014	CIGX	803246	217,220	108.61
498	1	2/16/2014	JTLX	41	217,080	108.54
499	2	2/16/2014	JTLX	255	215,720	107.86
500	3	2/16/2014	CEFX	30423	215,120	107.56
501	4	2/16/2014	CITX	184645	216,340	108.17
502	5	2/16/2014	CITX	184584	216,820	108.41
503	6	2/16/2014	CITX	184636	217,600	108.80
504	7	2/16/2014	CIGX	802096	215,600	107.80
505	8	2/16/2014	CIGX	802129	217,480	108.74
506	9	2/16/2014	CEFX	32181	215,600	107.80
507	10	2/16/2014	JTLX	98	215,800	107.90
508	1	2/17/2014	CIGX	802104	217,460	108.73
509	2	2/17/2014	DJLX	98500	217,740	108.87
510	3	2/17/2014	CIGX	802105	217,820	108.91

Rail Car Unloaded at CRL

Total Tons to Date 70,574.31

Date Received at CRL	Rail Car Number		Tons
2/18/2014	CEFX	31711	107.55
2/18/2014	CEFX	30995	106.45
2/18/2014	CEFX	30438	106.83
2/18/2014	CEFX	31818	107.73
2/18/2014	CEFX	31846	115.93
2/18/2014	CITX	184630	113.43
2/18/2014	CITX	184642	112.28
2/18/2014	CEFX	31587	112.58
2/18/2014	CEFX	33435	113.03
2/18/2014	DJLX	98540	112.23
2/18/2014	CEFX	35292	113.85
2/21/2014	JTLX	48	105.25
2/21/2014	CEFX	31584	104.13
2/21/2014	NRLX	526001	120.03
2/21/2014	CEFX	30998	107.93
2/21/2014	CEFX	31834	129.55
2/21/2014	CEFX	31933	120.28
2/21/2014	JTLX	95	120.63
2/21/2014	CEFX	35297	117.15
2/21/2014	CEFX	31807	105
2/21/2014	CEFX	31765	107.15
2/21/2014	CEFX	31814	104.35
2/21/2014	CEFX	35315	112.78
2/21/2014	DJLX	98530	108.4
2/21/2014	CEFX	31964	108.78
2/21/2014	JTLX	69	107.05
2/21/2014	CEFX	31977	110.1
2/21/2014	CIGX	803236	109.7
2/21/2014	CEFX	30529	115.65
2/21/2014	CITX	184644	104.65
2/21/2014	CIGX	802097	119.75
2/20/2014	CEFX	30509	103.3
2/21/2014	CEFX	30426	107.78
2/21/2014	NRLX	585655	112
2/21/2014	CEFX	31870	105.48
2/21/2014	CEFX	30452	104.93
2/21/2014	CEFX	31930	107.23
2/21/2014	CIGX	803246	109.38
2/21/2014	JTLX	41	113.6
2/21/2014	JTLX	255	109.6
2/21/2014	CEFX	30423	105.95
2/21/2014	CITX	184645	111.55
2/21/2014	CITX	184584	110.7
2/21/2014	CITX	184636	107.85
2/21/2014	CIGX	802096	107.75
2/21/2014	CIGX	802129	112.93
2/21/2014	CEFX	32181	107.5
2/21/2014	JTLX	98	111.85
2/24/2014	CIGX	802104	108.98
2/24/2014	DJLX	98500	109.8
2/24/2014	CIGX	802105	111.78

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD							Rail Car Unloaded at CRL			
Total Cars	650	Total Tons Shipped	70,215.99	Avg/Day	1262.04		Total Tons to Date	70,574.31		
Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons	Date Received at CRL	Rail Car Number		Tons
511	4	2/17/2014	CEFX	31569	217,720	108.86	2/24/2014	CEFX	31569	108.63
512	5	2/17/2014	CITX	184581	218,720	109.36	2/24/2014	CITX	184581	107.95
513	6	2/17/2014	CITX	184707	217,900	108.95	2/24/2014	CITX	184707	111.28
514	7	2/17/2014	JTLX	247	218,060	109.03	2/24/2014	JTLX	247	108.25
515	8	2/17/2014	CEFX	32189	218,160	109.08	2/24/2014	CEFX	32189	108.25
516	9	2/17/2014	CEFX	30940	217,560	108.78	2/24/2014	CEFX	30940	108.68
517	10	2/17/2014	CEFX	30898	216,920	108.46	2/24/2014	CEFX	30898	109.15
518	11	2/17/2014	CIGX	802118	217,220	108.61	2/24/2014	CIGX	802118	109.03
519	12	2/17/2014	CITX	184575	219,880	109.94	2/24/2014	CITX	184575	109.7
520	13	2/17/2014	CITX	184601	218,660	109.33	2/24/2014	CITX	184601	111.8
521	14	2/17/2014	CITX	184626	217,740	108.87	2/24/2014	CITX	184626	108.45
522	15	2/17/2014	CITX	184600	218,140	109.07	2/24/2014	CITX	184600	113.18
523	16	2/17/2014	CITX	184698	217,040	108.52	2/24/2014	CITX	184698	109.65
524	1	2/18/2014	CITX	184702	216,200	108.10	2/24/2014	CITX	184702	112.75
525	2	2/18/2014	CITX	184690	216,690	108.35	2/24/2014	CITX	184690	108.5
526	3	2/18/2014	CEFX	35313	216,620	108.31	2/24/2014	CEFX	35313	112.58
527	4	2/18/2014	CIGX	803222	216,860	108.43	2/24/2014	CIGX	803222	110.2
528	5	2/18/2014	JTLX	233	216,300	108.15	2/24/2014	JTLX	233	107.9
529	6	2/18/2014	CITX	184640	218,040	109.02	2/24/2014	CITX	184640	107.73
530	7	2/18/2014	CEFX	30490	217,340	108.67	2/24/2014	CEFX	30490	107.48
531	8	2/18/2014	CITX	184632	217,860	108.93	2/24/2014	CITX	184632	105.83
532	9	2/18/2014	CEFX	30549	216,960	108.48	2/24/2014	CEFX	30549	109.85
533	10	2/18/2014	CEFX	31686	217,060	108.53	2/24/2014	CEFX	31686	109.9
534	11	2/18/2014	CEFX	31996	217,280	108.64	2/24/2014	CEFX	31996	104.1
535	12	2/18/2014	CEFX	31979	217,760	108.88	2/24/2014	CEFX	31979	107.6
536	13	2/18/2014	CEFX	35312	217,120	108.56	2/24/2014	CEFX	35312	113.2
537	14	2/18/2014	CITX	184693	217,340	108.67	2/24/2014	CITX	184693	110.5
538	15	2/18/2014	CEFX	35290	218,040	109.02	2/24/2014	CEFX	35290	107.15
539	16	2/18/2014	CITX	184579	219,380	109.69	2/24/2014	CITX	184579	110.1
540	17	2/18/2014	CEFX	31760	218,200	109.10	2/24/2014	CEFX	31760	109.25
541	18	2/18/2014	CITX	184629	217,460	108.73	2/24/2014	CITX	184629	102.2
542	19	2/18/2014	CITX	184611	218,320	109.16	2/24/2014	CITX	184611	108.55
543	20	2/18/2014	CITX	184697	217,400	108.70	2/24/2014	CITX	184697	109.05
544	21	2/18/2014	CITX	184703	217,600	108.80	2/24/2014	CITX	184703	105.05
545	1	2/19/2014	CITX	184691	217,300	108.65	2/25/2014	CITX	184691	109.2
546	2	2/19/2014	CITX	184682	217,320	108.66	2/25/2014	CITX	184682	107.45
547	3	2/19/2014	CITX	184641	217,260	108.63	2/25/2014	CITX	184641	104.85
548	4	2/19/2014	CEFX	30516	216,900	108.45	2/25/2014	CEFX	30516	107.25
549	5	2/19/2014	JTLX	237	215,780	107.89	2/25/2014	JTLX	237	107.65
550	6	2/19/2014	JTLX	251	217,260	108.63	2/25/2014	JTLX	251	108
551	7	2/19/2014	CEFX	30425	216,140	108.07	2/25/2014	CEFX	30425	109.9
552	8	2/19/2014	CITX	184624	215,840	107.92	2/25/2014	CITX	184624	108.12
553	9	2/19/2014	CIGX	803224	216,840	108.42	2/25/2014	CIGX	803224	108.15
554	10	2/19/2014	CITX	803223	215,600	107.80	2/25/2014	CIGX	803223	107.75
555	11	2/19/2014	CITX	184637	215,400	107.70	2/25/2014	CITX	184637	105.3
556	12	2/19/2014	CITX	184582	215,340	107.67	2/25/2014	CITX	184582	113
557	13	2/19/2014	JTLX	241	216,540	108.27	2/25/2014	JTLX	241	107
558	14	2/19/2014	CITX	184603	216,280	108.14	2/25/2014	CITX	184603	107.7
559	15	2/19/2014	CEFX	31805	216,160	108.08	2/25/2014	CEFX	31805	106.88
560	16	2/19/2014	CEFX	30460	215,940	107.97	2/25/2014	CEFX	30460	105.83
561	17	2/19/2014	CIGX	802126	215,780	107.89	2/25/2014	CIGX	802126	105.45

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD							Rail Car Unloaded at CRL			
Total Cars	650	Total Tons Shipped	70,215.99	Avg/Day	1262.04		Total Tons to Date	70,574.31		
Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons	Date Received at CRL	Rail Car Number		Tons
562	18	2/19/2014	CIGX	802098	216,220	108.11	2/25/2014	CIGX	802098	102.8
563	1	2/20/2014	CEFX	31826	215,080	107.54	2/25/2014	CEFX	31826	107.53
564	2	2/20/2014	CEFX	30420	216,360	108.18	2/25/2014	CEFX	30420	107.73
565	3	2/20/2014	CEFX	31533	216,580	108.29	2/25/2014	CEFX	31533	108.23
566	4	2/20/2014	JTLX	242	216,660	108.33	2/25/2014	JTLX	242	106.4
567	5	2/20/2014	CIGX	802085	215,200	107.60	2/25/2014	CIGX	802085	104.5
568	6	2/20/2014	CIGX	802106	215,860	107.93	2/25/2014	CIGX	802106	109.65
569	7	2/20/2014	CITX	184701	216,220	108.11	2/25/2014	CITX	184701	108.2
570	8	2/20/2014	NRLX	526233	216,420	108.21	2/25/2014	NRLX	526233	108.63
571	9	2/20/2014	NRLX	527970	217,140	108.57	2/25/2014	NRLX	527970	110.3
572	10	2/20/2014	CITX	184696	215,460	107.73	2/25/2014	CITX	184696	106.45
573	11	2/20/2014	CITX	184680	216,380	108.19	2/25/2014	CITX	184680	105.15
574	12	2/20/2014	CEFX	30473	216,480	108.24	2/25/2014	CEFX	30473	107.2
575	13	2/20/2014	CEFX	35320	216,020	108.01	2/25/2014	CEFX	35320	107.03
576	14	2/20/2014	CEFX	30526	215,300	107.65	2/25/2014	CEFX	30526	105.15
577	15	2/20/2014	CIGX	803234	219,180	109.59	2/25/2014	CIGX	803234	106.18
578	1	2/21/2014	CITX	184590	217,540	108.77	2/25/2014	CITX	184590	107.25
579	2	2/21/2014	CEFX	31599	215,160	107.58	2/28/2014	CEFX	31599	109.78
580	3	2/21/2014	CEFX	30941	215,900	107.95	2/28/2014	CEFX	30941	108.25
581	4	2/21/2014	JTLX	76	215,740	107.87	2/28/2014	JTLX	76	109.48
582	5	2/21/2014	CEFX	30497	215,440	107.72	2/28/2014	CEFX	30497	113.58
583	6	2/21/2014	JTLX	248	215,960	107.98	2/28/2014	JTLX	248	110.25
584	7	2/21/2014	CEFX	31678	215,640	107.82	2/25/2014	CEFX	31678	107.08
585	8	2/21/2014	GCCX	700065	224,000	112.00	2/25/2014	GCCX	700065	116.3
586	9	2/21/2014	GCCX	700046	224,100	112.05	2/25/2014	GCCX	700046	115.14
587	10	2/21/2014	NRLX	527936	216,780	108.39	2/25/2014	NRLX	527936	109.6
588	11	2/21/2014	CEFX	35285	216,660	108.33	2/25/2014	CEFX	35285	111.4
589	12	2/21/2014	CEFX	35296	215,980	107.99	2/25/2014	CEFX	35296	119
590	13	2/21/2014	GCCX	80001	206,620	103.31	2/25/2014	GCCX	80001	106.08
591	14	2/21/2014	GCCX	80051	206,960	103.48	2/25/2014	GCCX	80051	102.13
592	15	2/21/2014	GCCX	80017	205,360	102.68	2/25/2014	GCCX	80017	120.53
593	16	2/21/2014	CITX	184608	215,100	107.55	2/25/2014	CITX	184608	106.48
594	1	2/22/2014	CEFX	30429	216,640	108.32	2/28/2014	CEFX	30429	106.78
595	2	2/22/2014	DJLX	98546	216,720	108.36	2/28/2014	DJLX	98546	107.93
596	3	2/22/2014	CEFX	30577	215,700	107.85	2/28/2014	CEFX	30577	105.85
597	4	2/22/2014	CIGX	803264	216,620	108.31	2/28/2014	CIGX	803264	105.8
598	5	2/22/2014	CITX	184612	215,960	107.98	2/28/2014	CITX	184612	112
599	6	2/22/2014	JTLX	100	215,020	107.51	2/28/2014	JTLX	100	111.63
600	7	2/22/2014	CIGX	802114	216,900	108.45	2/28/2014	CIGX	802114	106.48
601	8	2/22/2014	CIGX	803229	217,360	108.68	2/28/2014	CIGX	803229	107.3
602	9	2/22/2014	CEFX	30553	215,600	107.80	2/28/2014	CEFX	30553	105.78
603	10	2/22/2014	CEFX	30520	215,880	107.94	2/28/2014	CEFX	30520	107.5
604	11	2/22/2014	JTLX	64	215,500	107.75	2/28/2014	JTLX	64	114.85
605	12	2/22/2014	NRLX	526228	215,300	107.65	2/28/2014	NRLX	526228	110.05
606	13	2/22/2014	CIGX	803244	216,160	108.08	3/3/2014	CIGX	803244	106.13
607	14	2/22/2014	CEFX	31752	215,020	107.51	3/3/2014	CEFX	31752	104.3
608	1	2/24/2014	CEFX	35301	217,800	108.90	3/3/2014	CEFX	35301	110.75
609	2	2/24/2014	CEFX	30451	217,600	108.80	3/3/2014	CEFX	30451	109.83
610	3	2/24/2014	CIGX	802087	217,480	108.74	3/3/2014	CIGX	802087	110.9
611	4	2/24/2014	CEFX	32218	217,760	108.88	3/3/2014	CEFX	32218	108.18
612	5	2/24/2014	CITX	184578	219,660	109.83	3/3/2014	CITX	184578	108.83

BOEING PLANT 2 PROJECT CS2

Rail Cars Loaded at TTD							Rail Car Unloaded at CRL			
Total Cars	650	Total Tons Shipped	70,215.99	Avg/Day	1262.04		Total Tons to Date	70,574.31		
Cars Loaded	Rail Cars Loaded / day	Load Date	Rail Car		Net Weight	Tons	Date Received at CRL	Rail Car Number		Tons
613	6	2/24/2014	CEFX	31591	218,040	109.02	3/5/2014	CEFX	31591	106.32
614	7	2/24/2014	CITX	184638	218,160	109.08	3/3/2014	CITX	184638	106.25
615	8	2/24/2014	CITX	184686	217,060	108.53	3/3/2014	CITX	184686	107
616	9	2/24/2014	CITX	184593	217,480	108.74	3/3/2014	CITX	184593	108.48
617	10	2/24/2014	CITX	184643	218,360	109.18	3/3/2014	CITX	184643	107.65
618	11	2/24/2014	DJLX	98507	217,800	108.90	3/3/2014	DJLX	98507	102.25
619	12	2/24/2014	CITX	184634	217,740	108.87	3/3/2014	CITX	184634	106.5
620	1	2/28/2013	CITX	184639	218,020	109.01	3/5/2014	CITX	184639	109.98
621	1	3/3/2014	JTLX	98	216,420	108.21	3/8/2014	JTLX	98	111.93
622	2	3/3/2014	CEFX	32181	217,840	108.92	3/8/2014	CEFX	32181	116.88
623	3	3/3/2014	CEFX	31826	216,740	108.37	3/8/2014	CEFX	31826	111.4
624	4	3/3/2014	CEFX	30420	215,960	107.98	3/8/2014	CEFX	30420	109
625	5	3/3/2014	CIGX	803234	215,200	107.60	3/8/2014	CIGX	803234	109.95
626	1	3/4/2014	CITX	184645	216,840	108.42	3/10/2014	CITX	184645	108.2
627	2	3/4/2014	CITX	184584	215,660	107.83	3/10/2014	CITX	184584	109.8
628	1	3/5/2014	CIGX	802085	216,560	108.28	3/10/2014	CIGX	802085	112.68
629	2	3/5/2014	CEFX	31533	215,600	107.80	3/10/2014	CEFX	31533	109.38
630	3	3/5/2014	CIGX	802106	215,140	107.57	3/12/2014	CIGX	802106	111.4
631	4	3/5/2014	JTLX	242	216,520	108.26	3/12/2014	JTLX	242	117.3
632	5	3/5/2014	CITX	184701	216,200	108.10	3/10/2014	CITX	184701	110.43
633	6	3/5/2014	NRLX	526233	215,620	107.81	3/10/2014	NRLX	526233	109.55
634	7	3/5/2014	NRLX	527970	216,080	108.04	3/10/2014	NRLX	527970	109.6
635	1	3/6/2014	GCCX	80024	207,980	103.99	3/12/2014	GCCX	80024	62.6
636	2	3/6/2014	CEFX	31979	215,880	107.94	3/12/2014	CEFX	31979	108.9
637	3	3/6/2014	JTLX	41	215,640	107.82	3/12/2014	JTLX	41	110.1
638	4	3/6/2014	CEFX	30423	216,280	108.14	3/12/2014	CEFX	30423	106.3
639	1	3/11/2014	GCCX	80046	207,500	103.75	3/18/2014	GCCX	80046	111.3
640	2	3/11/2014	CITX	184616	209,940	104.97	3/18/2014	CITX	184616	102.55
641	1	3/12/2014	CEFX	31996	215,240	107.62	3/18/2014	CEFX	31996	109.13
642	1	3/13/2014	CITX	184579	216,180	108.09	3/18/2014	CITX	184579	112.1
643	2	3/13/2014	CIGX	802081	214,000	107.00	3/18/2014	CIGX	802081	111.18
644	1	3/19/2014	CEFX	35290	217,160	108.58	3/24/2014	CEFX	35290	111.71
645	2	3/19/2014	CITX	184693	216,180	108.09	3/24/2014	CITX	184693	110.63
646	1	3/20/2014	JTLX	255	216,880	108.44	3/24/2014	JTLX	255	110.48
647	2	3/20/2014	CIGX	802096	218,200	109.10	3/24/2014	CIGX	802096	111.63
648	1	3/24/2014	CITX	184636	216,900	108.45	4/1/2014	CITX	184636	108.35
649	2	3/24/2014	JTLX	233	216,740	108.37	4/1/2014	JTLX	233	109
650	3	3/24/2014	CEFX	35312	215,900	107.95	4/1/2014	CEFX	35312	108.3

DREDGE SEDIMENT PROFILE

Columbia Ridge Landfill

18177 Cedar Springs Lane, Arlington Oregon 97812

Profile # 106810WA

PERMIT TO DISPOSE OF NON-HAZARDOUS MATERIALS

This permit authorizes disposal of Customer's waste materials in accordance with the Industrial Waste & Disposal Services Agreement dated _____ _____.

EXPIRES: 12/27/2014

GENERATOR: THE BOEING COMPANY

DESCRIPTION: ***BOEING PLANT 2 SOUTHERN DUWAMISH SEDIMENT OTHER AREA (DSOA) - SOLIDIFIED***	**VOLUME:** ***90,000 tons***
☒**SPECIAL WASTE** ☒**PCS** ☒**CLEAN-UP MATERIAL**	
LOCATION: ***TUKWILLA, WASHINGTON 7755 E. MARGINAL WAY***	**COUNTY:*** ***King***
CONTACT: ***DAN MCCORMACK LYNN GROCHALA (FLOYD/SNIDER)***	**PHONE:** ***206-290-6558 206-292-2078***
	FAX : ***dan.c.mccormack@boeing.com lynn.grochala@floydsnider.com***

BILLING: ***Landfill account WMNS***	**PO#:** ***N/A***	**JOB#:** ***N/A***

TYPE OF DISPOSAL/ SPECIAL HANDLING/LOAD TYPE: ***BULK, BENEFICIAL, CO-MINGLE, NO FREE LIQUIDS, SEDIMENTS FROM SOUTHERN DSOA DREDGE AREA REPRESENTED BY SAMPLES SUBMITTED BY FLOYD/DNIDER IN MEMO DATED 9/25/2013 FOR SEASON 2 DREDGE, TABLES 1A,B, 2A, B, 3A, B, C, D, E, 4A, B, 5A, B***

****

ALL LOADS MUST BE SCHEDULED 24 HOURS IN ADVANCE.
CONTACT GREG AT 541-454-3220

APPROVED: ***KRISTIN CASTNER*** DATE: ***04/07/14 7:52:28 PM***

A COPY OF THIS PERMIT MUST BE SHOWN BY EACH DRIVER

WASTE MANAGEMENT

HAZARDOUS WASTE IS STRICTLY PROHIBITED

RETURN WATER SOLIDS PROFILE

Wenatchee Landfill

191 Webb Road Wenatchee, Washington 98802

PERMIT # 106813WA

Tracking Number **792**

PERMIT TO DISPOSE OF NON-HAZARDOUS MATERIALS

This permit authorizes disposal of Customer's waste materials in accordance with the Industrial Waste & Disposal Services Agreement dated ___ _____.

EXPIRES: 2/3/2014

GENERATOR: BOEING PLANT 2 - PL200149

DESCRIPTION: ***PLANT 2 DUWAMISH SEDIMENT SOUTH SHORELINE SOIL/SEDIMENT, PCB < 37 PPM;DEWATERED SEDIMENTS FROM THE DREDGE RETURN WATER SYSTEM***	**TONS:** ***3000***
☒ **SPECIAL WASTE** ☐ **PCS**	
LOCATION: ***TUKWILLA, WASHINGTON 7755 E. MARGINAL WAY S.***	**COUNTY:*** ***King***
CONTACT: ***KEVAN MCCASLIN***	**PHONE:** ***360-265-5281***
	FAX: ***kmccaslin@wm.com***

BILLING: ***Landfill account WMNS***	**PO#:**	**JOB#:** ***N/A***

We accept business checks, cash, or charge(with prior approval)

SPECIAL HANDLING : ***NOTE:***

APPROVED: ***KRISTIN CASTNER*** DATE: ***02/14/14 2:59:52 PM***

A COPY OF THIS PERMIT MUST BE SHOWN BY EACH DRIVER

THERE IS A MINIMUM ONE (1) TON CHARGE ON ALL SPECIAL WASTES

WASTE MANAGEMENT

HAZARDOUS WASTE IS STRICTLY PROHIBITED

TRANSLOAD DISCHARGE AND WATER TREATMENT

Boeing Dredge Project Season 2 Water Discharge

DATE DISCHARGED	TECHNICIAN	RELEASED BY SAMPLE NUMBER	DISCHARGED FROM TANK NUMBER / Process Flow	GALLONS IN TANK	GALLONS DISCHARGED	GALLONS DISCHARGED PER DAY	CUMLATIVE GALLONS DISCHARGED	COMMENTS
13-Jan-14	Brad Burson	WM-BD-14-0001-Pre GAC WM-BD-14-0002 Mid GAC WM-BD-14-0003 Post GAC	Frac Tank	18,010	9,070		9,070	
13-Jan-14	Brad Burson		241936	5,400	5,400		14,470	
13-Jan-14	Brad Burson		242107	4,690	4,690	19,160	19,160	
14-Jan-14	William Morris		Frac Tank	18,010	18,010	18,010	37,170	
15-Jan-14	William Morris		Process flow	3,440	3,440	3,440	40,610	150 gallons to fill pressure washer for Decontamination
16-Jan-14	Brad Burson		Process flow	9,160	9,160		49,770	
16-Jan-14	Brad Burson		241936	5,410	5,410		55,180	
16-Jan-14	William Morris		Process flow	9,160	9,160	23,730	64,340	
17-Jan-14	William Morris		Process flow	9,640	9,640	9,640	73,980	
20-Jan-14	William Morris	WM-BD-14-0004 WM-BD-14-0005	Process flow	20,130	20,130	20,130	94,110	
27-Jan-14	William Morris	WM-BD-13-0006 WM-BD-14-0007	Process flow	11,740	11,740	11,740	105,850	
28-Jan-14	William Morris		Process flow	5,660	5,660	5,660	111,510	
29-Jan-14	William Morris		Process flow	20,590	20,590		132,100	
29-Jan-14	Brad Burson		241936	4,340	4,340	24,930	136,440	
30-Jan-14	William Morris		Process flow	12,980	12,980		149,420	
30-Jan-14	Brad Burson		241936	5,520	5,520		154,940	
30-Jan-14	Brad Burson		Process flow	6,390	6,390	24,890	161,330	
31-Jan-14	William Morris		Process flow	14,190	14,190		175,520	
31-Jan-14	Brad Burson		Process flow	6,970	6,970	21,160	182,490	
3-Feb-14	William Morris	WM-BD-14-0008 WM-BD-14-0009	Process flow	15,880	15,880		198,370	150 gallons to fill pressure washer for Decontamination
3-Feb-14	Brad Burson		Process flow	5,480	5,480	21,360	203,850	
4-Feb-14	William Morris		241936	5,040	5,040		208,890	
4-Feb-14	William Morris		Process flow	15,040	15,040	20,080	223,930	
8-Feb-14	William Morris		Process flow	6,790	6,790	6,790	230,720	
10-Feb-14	William Morris	WM-BD-14-0010 WM-BD-14-0011	Process flow	20,860	20,860	20,860	251,580	
11-Feb-14	Brad Burson		Process flow	10,280	10,280	10,280	261,860	
12-Feb-14	William Morris		Process flow	15,270	15,270		277,130	
12-Feb-14	William Morris		241936	4,730	4,730	20,000	281,860	
14-Feb-14	Brad Burson		Process flow	16,000	16,000	16,000	297,860	
15-Feb-14	Kevan McCaslin		Process flow	7,950	7,950	7,950	305,810	
17-Feb-14	William Morris	WM-BD-14-0012 WM-BD-14-0013	Process flow	23,630	23,630	23,630	329,440	
18-Feb-14	Brad Burson		Process flow	8,810	8,810		338,250	
18-Feb-14	William Morris		Process flow	10,050	10,050	18,860	348,300	150 gallons to fill pressure washer for Decontamination
19-Feb-14	William Morris		241936	3,360	3,360	3,360	351,660	

Boeing Dredge Project Season 2 Water Discharge

DATE DISCHARGED	TECHNICIAN	RELEASED BY SAMPLE NUMBER	DISCHARGED FROM TANK NUMBER / Process Flow	GALLONS IN TANK	GALLONS DISCHARGED	GALLONS DISCHARGED PER DAY	CUMLATIVE GALLONS DISCHARGED	COMMENTS
19-Feb-14	William Morris		242107	4,570	4,570	4,570	356,230	200 gallons to fill pressure washer for Decontamination
24-Feb-14	William Morris	WM-BD-14-0014 WM-BD-14-0015	Process flow	13,170	13,170	13,170	369,400	400 gallons to fill pressure washer for Decontamination
25-Feb-14	William Morris		Process flow	1,730	1,730	1,730	371,130	600 gallons to fill pressure washer for Decontamination
3-Mar-14	William Morris	WM-BD-14-0016 WM-BD-14-0017	Process flow	8,520	8,520	8,520	379,650	500 gallons for decontamination of equipment
4-Mar-14	William Morris		242107	3,590	3,590		383,240	
4-Mar-14	William Morris		Process flow	4,300	4,300	7,890	387,540	
5-Mar-14	William Morris		Process flow	23,740	23,740	23,740	411,280	
6-Mar-14	Michael Reese		Process flow	11,950	11,950	11,950	423,230	
8-Mar-14	Michael Reese		Process flow	3,070	3,070	3,070	426,300	
9-Mar-14	Michael Reese		Process flow	9,930	9,930	9,930	436,230	
10-Mar-14	William Morris	WM-BD-14-0018 WM-BD-14-0019 WM-BD-14-0020 WM-BD-14-0021 (WM-BD-14-0021 is a dup for WM-BD-14-0019)	Process flow	1,310	1,310		437,540	
10-Mar-14	William Morris		241936	4,690	4,690	6,000	442,230	
13-Mar-14	William Morris		242107	4,000	4,000		446,230	
13-Mar-14	William Morris		241936	4,690	4,690	8,690	450,920	
14-Mar-14	William Morris		Process flow	17,240	17,240	17,240	468,160	
17-Mar-14	William Morris	WM-BD-14-0022 WM-BD-14-0023	Process flow	8,130	8,130	8,130	476,290	
19-Mar-14	William Morris		Process flow	20,740	20,740	20,740	497,030	
20-Mar-14	William Morris		Process flow	15,560	15,560	15,560	512,590	
21-Mar-14	William Morris		Process flow	17,440	17,440	17,440	530,030	
24-Mar-14	William Morris	WM-BD-14-0024 WM-BD-14-0025	Process flow	2,060	2,060	2,060	478,350	
28-Mar-14	Michael Reese		241936	4,590			478,350	4590 gallons used for decon 3/17-3/28
31-Mar-14	William Morris	WM-BD-14-0026 WM-BD-14-0027	Process flow	7,400	7,400	7,400	485,750	

Boeing Dredge Project Season 2 Water Treatment

DATE	BEGIN TIME	END TIME	FLOW METER (G x 10) BEGINNING	FLOW METER (G x 10) ENDING	GALLONS TREATED	CUMULATIVE GALLONS TREATED	INTO TANK NUMBER	SAMPLING METHOD	SAMPLE NUMBER	SAMPLING FOR	SAMPLES TAKEN FROM TANK NUMBER	Lab Analytical Results	Self monitoring / In-house Results	Comments
9-Jan-14	12:45	13:45	673,080	673,620	5,400	5,400	241936	Composite	WM-BD-14-0001-Pre GAC WM-BD-14-0002 Mid GAC WM-BD-14-0003 Post GAC	PCB, SS, pH	Process flow	PCB - ND PCB - ND PCB - ND	Initial samples pH - 8.91 SS - ND	
9-Jan-14	13:45	14:40	673,620	674,089	4,690	10,090	242107	Composite		SS, pH	Process flow			
11-Jan-14	19:09	19:59	674,089	675,890	18,010	28,100	Frac tank	Composite		SS, pH	Process flow		pH - 8.09 SS - N/D	
13-Jan-14	15:34	16:31	675,890	676,797	9,070	37,170	Frac tank	Composite		SS, pH	Process flow		pH - 8.09 SS - N/D	
14-Jan-14	11:00	12:30	676,797	677,338	5,410	42,580	241936							
14-Jan-14	12:30	13:50	677,338	677,795	4,570	47,150	242107	Composite		SS, pH	Process flow		pH - 8.12 SS - N/D	SMF backwash performed after this treatment
15-Jan-14	12:00	12:45	677,795	678,139	3,440	50,590	Discharge	Composite		SS, pH	Process flow		pH - 8.15 SS - N/D	
16-Jan-14	0:38	3:44	678,139	679,055	9,160	59,750	Discharge							
16-Jan-14	15:45	18:08	679,055	679,971	9,160	68,910	Discharge	Composite		SS, pH	Process flow		pH - 8.10 SS - N/D	
17-Jan-14	14:25	16:40	679,971	680,935	9,640	78,550	Discharge	Composite		SS, pH	Process flow		pH - 8.11 SS - N/D	
20-Jan-14	10:55	15:43	680,935	682,948	20,130	98,680	Discharge	Composite	WM-BD-14-0004 WM-BD-14-0005	PCB, SS, pH	Process flow	PCB - ND PCB - ND	pH - 8.09 SS - N/D	
27-Jan-14	9:00	11:43	682,948	684,122	11,740	110,420	Discharge	Composite	WM-BD-13-0006 WM-BD-14-0007	PCB, SS, pH	Process flow	PCB - ND PCB - ND	pH - 8.09 SS - N/D	SMF backwash performed after this treatment
28-Jan-14	11:15	12:50	684,122	684,688	5,660	116,080	Discharge	Composite		SS, pH	Process flow		pH - 8.12 SS - N/D	
28-Jan-14	13:15	14:40	684,688	685,122	4,340	120,420	241936	Composite		SS, pH	Process flow		pH - 8.12 SS - N/D	
29-Jan-14	7:25	10:00	685,122	686,129	10,070	130,490	Discharge	Composite		SS,pH	Process flow			
29-Jan-14	13:40	16:30	686,129	687,181	10,520	141,010	Discharge						pH - 8.31 SS - N/D	
30-Jan-14	19:25	21:00	687,181	687,733	5,520	146,530	241936							
30-Jan-14	11:20	15:30	687,733	689,031	12,980	159,510	Discharge	Composite		SS,pH	Process flow			
30-Jan-14	21:44	23:26	689,031	689,670	6,390	165,900	Discharge						pH - 8.22 SS - N/D	
31-Jan-14	13:30	16:45	689,670	691,089	14,190	180,090	Discharge	Composite		SS,pH	Process flow		pH - 8.33 SS - N/D	
31-Jan-14	21:36	23:25	691,089	691,786	6,970	187,060	Discharge							
1-Feb-14	20:30	22:15	691,786	692,290	5,040	192,100	241936	Composite		SS,pH	Process flow		pH - 8.33 SS - N/D	
3-Feb-14	7:00	12:42	692,290	693,878	15,880	207,980	Discharge	Composite	WM-BD-14-0008 WM-BD-14-0009	PCB,SS,pH	Process flow	PCB - ND PCB - ND	pH - 8.33 SS - N/D	SMF backwash performed after this treatment
3-Feb-14	19:37	21:55	693,878	694,426	5,480	213,460	Discharge							
4-Feb-14	13:11	19:10	694,426	695,930	15,040	228,500	Discharge	Composite		SS,pH	Process flow		pH - 8.34 SS - N/D	
8-Feb-14	15:45	17:10	695,930	696,609	6,790	235,290	Discharge	Composite		SS,pH	Process flow		pH - 8.42 SS - N/D	
10-Feb-14	8:45	16:10	696,609	698,695	20,860	256,150	Discharge	Composite	WM-BD-14-0010 WM-BD-14-0011	PCB,SS,pH	Process flow	PCB - ND PCB - ND	pH - 7.96 SS - N/D	SMF backwash performed after this treatment
10-Feb-14	20:00	21:45	698,695	699,168	4,730	260,880	241936							
11-Feb-14	16:45	23:51	699,168	700,196	10,280	271,160	Discharge	Composite		SS,pH	Process flow		pH - 7.98 SS - N/D	
12-Feb-14	6:42	16:10	700,196	701,723	15,270	286,430	Discharge	Composite		SS,pH	Process flow		pH - 8.01 SS - N/D	
14-Feb-14	9:45	16:30	701,723	703,223	15,000	301,430	Discharge	Composite		SS,pH	Process flow		pH - 8.33 SS - N/D	
14-Feb-14	16:45	18:15	703,223	703,323	1,000	302,430	Discharge							
15-Feb-14	10:00	11:00	703,323	703,659	3,360	305,790	241936	Composite		SS,pH	Process flow		pH - 8.56 SS - N/D	
15-Feb-14	11:30	14:00	703,659	704,454	7,950	313,740	Discharge							

Boeing Dredge Project Season 2 Water Treatment

DATE	BEGIN TIME	END TIME	FLOW METER (G x 10) BEGINNING	FLOW METER (G x 10) ENDING	GALLONS TREATED	CUMULATIVE GALLONS TREATED	INTO TANK NUMBER	SAMPLING METHOD	SAMPLE NUMBER	SAMPLING FOR	SAMPLES TAKEN FROM TANK NUMBER	Lab Analytical Results	Self monitoring / In-house Results	Comments
17-Feb-14	8:00	15:50	704,454	706,817	23,630	337,370	Discharge	Composite	WM-BD-14-0012 WM-BD-14-0013	PCB,SS,pH	Process flow	PCB - ND PCB - 0.14 ug/L	pH - 8.90 SS - N/D	SMF backwash performed after this treatment
18-Feb-14	2:49	5:30	706,817	707,698	8,810	346,180	Discharge	Composite		SS,pH	Process flow		pH - 8.25 SS - 2 ml/L	
18-Feb-14	14:30	17:45	707,698	708,703	10,050	356,230	Discharge							
20-Feb-14	15:12	16:08	708,703	709,172	4,690	360,920	241936	Composite		SS,pH	Process flow		pH - 8.1 SS - N/D	
20-Feb-14	16:08	17:00	709,172	709,531	3,590	364,510	242107							
24-Feb-14	9:45	15:30	709,531	710,848	13,170	377,680	Discharge	Composite	WM-BD-14-0014 WM-BD-14-0015	PCB,SS,pH	Process flow	PCB - ND PCB - ND	pH - 8.05 SS - N/D	SMF backwash performed after this treatment
25-Feb-14	12:00	12:40	710,848	711,021	1,730	379,410	Discharge	Composite		SS	Process flow		SS - N/D	
3-Mar-14	9:00	12:30	711,021	711,873	8,520	387,930	Discharge	Composite	WM-BD-14-0016 WM-BD-14-0017	PCB,SS,pH	Process flow	PCB - 0.13 ug/L PCB - 0.13 ug/L	pH - 8.35 SS - 1 ml/L	
4-Mar-14	11:00	13:30	711,873	712,303	4,300	392,230	Discharge	Composite		SS,pH	Process flow		pH - 8.23 SS - N/D	
5-Mar-14	7:30	17:30	712,303	714,677	23,740	415,970	Discharge	Composite		SS,pH	Process flow		pH - 8.12 SS - N/D	
6-Mar-14	8:30	14:00	714,677	715,872	11,950	427,920	Discharge	Composite		SS,pH	Process flow		pH - 8.24 SS - N/D	
8-Mar-14	12:00	13:30	715,872	716,179	3,070	430,990	Discharge	Composite		SS,pH	Process flow		pH - 8.31 SS - N/D	
9-Mar-14	12:00	16:00	716,179	717,172	9,930	440,920	Discharge	Composite		SS,pH	Process flow		pH - 8.42 SS - N/D	
10-Mar-14	9:00	10:30	717,172	717,572	4,000	444,920	242107							
10-Mar-14	11:35	13:00	717,572	718,041	4,690	449,610	241936							
10-Mar-14	14:20	14:55	718,041	718,172	1,310	450,920	Discharge	Composite	WM-BD-14-0018 WM-BD-14-0019 WM-BD-14-0020 WM-BD-14-0021 (WM-BD-14-0021 is a dup for WM-BD-14-0019)	PCB,SS,pH	Process flow	PCB - 0.098 ug/L PCB -ND PCB -ND PCB -ND	pH - 8.57 SS - N/D	SMF backwash performed after this treatment
14-Mar-14	7:15	14:30	718,172	719,896	17,240	468,160	Discharge	Composite		SS,pH	Process flow		pH - 8.28 SS - N/D	
17-Mar-14	8:30	9:45	720,860	721,319	4,590	472,750	241936	Composite	WM-BD-14-0022 WM-BD-14-0023	PCB,SS,pH	Process flow	PCB -ND PCB -ND	pH - 8.25 SS - N/D	
17-Mar-14	9:45	12:18	721,319	722,132	8,130	480,880	Discharge							
24-Mar-14	10:15	10:40	728,245	728,451	2,060	482,940	Discharge	Composite	WM-BD-14-0024 WM-BD-14-0025	PCB,SS,pH	Process flow	PCB -ND PCB -ND	pH - 8.44 SS - N/D	SMF backwash performed after this treatment
31-Mar-14	8:30	11:00	730,468	730,898	4,300	487,240	241936	Composite	WM-BD-14-0026 WM-BD-14-0027	PCB,SS,pH	Process flow	PCB -ND PCB -ND	pH - 7.62 SS - N/D	
31-Mar-14	11:00	14:30	730,898	731,638	7,400	494,640	Discharge							SMF backwash performed after this treatment

TRANSLOAD STORMWATER ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-41894-1
Client Project/Site: Boeing Dredge

For:
Waste Management
13225 NE 126th Place
Kirkland, Washington 98034

Attn: Kevan McCaslin

Pamela R. Johnson

Authorized for release by:
1/13/2014 2:29:03 PM

Pam Johnson, Project Manager I
(253)922-2310 x112
pamr.johnson@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-41894-1

Job ID: 580-41894-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 1/9/2014 3:43 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.7º C.

GC Semi VOA - Method 8082
In analytical batch 151969 surrogate recovery for the following samples (LCS 580-151915/2-A), (LCSD 580-151915/3-A), (MB 580-151915/1-A), WM-BD-14-0001 Pre GAC (580-41894-1) from preparation batch 151915 was outside of acceptance limits. There was insufficient sample to perform a re-extraction; therefore, the data have been qualified "X" and reported.

In analytical batch 151969, the QC and samples (LCS 580-151915/2-A), (LCSD 580-151915/3-A), (MB 580-151915/1-A), WM-BD-14-0001 Pre GAC (580-41894-1), WM-BD-14-0002 Mid GAC (580-41894-2), WM-BD-14-0003 Post GAC (580-41894-3) from preparation batch 151915 were diluted and reanalyzed due to the sample being at concentrated to 2ml , causing the surrogates to be too high to be calculated correctly. The data have been qualified "X" and reported.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Definitions/Glossary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-41894-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-41894-1

Client Sample ID: WM-BD-14-0001 Pre GAC

Lab Sample ID: 580-41894-1

Date Collected: 01/09/14 12:57

Matrix: Water

Date Received: 01/09/14 15:43

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		01/10/14 10:32	01/10/14 15:34	1
PCB-1221	ND		0.095		ug/L		01/10/14 10:32	01/10/14 15:34	1
PCB-1232	ND		0.095		ug/L		01/10/14 10:32	01/10/14 15:34	1
PCB-1242	ND		0.095		ug/L		01/10/14 10:32	01/10/14 15:34	1
PCB-1248	ND		0.095		ug/L		01/10/14 10:32	01/10/14 15:34	1
PCB-1254	ND		0.095		ug/L		01/10/14 10:32	01/10/14 15:34	1
PCB-1260	ND		0.095		ug/L		01/10/14 10:32	01/10/14 15:34	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RADL

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*	*X*	*60 - 150*	*01/10/14 10:32*	*01/13/14 10:47*	*5*
DCB Decachlorobiphenyl	*54*		*40 - 135*	*01/10/14 10:32*	*01/13/14 10:47*	*5*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-41894-1

Client Sample ID: WM-BD-14-0002 Mid GAC

Lab Sample ID: 580-41894-2

Date Collected: 01/09/14 12:59

Matrix: Water

Date Received: 01/09/14 15:43

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094		ug/L		01/10/14 10:32	01/10/14 15:47	1
PCB-1221	ND		0.094		ug/L		01/10/14 10:32	01/10/14 15:47	1
PCB-1232	ND		0.094		ug/L		01/10/14 10:32	01/10/14 15:47	1
PCB-1242	ND		0.094		ug/L		01/10/14 10:32	01/10/14 15:47	1
PCB-1248	ND		0.094		ug/L		01/10/14 10:32	01/10/14 15:47	1
PCB-1254	ND		0.094		ug/L		01/10/14 10:32	01/10/14 15:47	1
PCB-1260	ND		0.094		ug/L		01/10/14 10:32	01/10/14 15:47	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RADL

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*60 - 150*	*01/10/14 10:32*	*01/13/14 11:01*	*5*
DCB Decachlorobiphenyl	*74*		*40 - 135*	*01/10/14 10:32*	*01/13/14 11:01*	*5*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-41894-1

Client Sample ID: WM-BD-14-0003 Post GAC

Lab Sample ID: 580-41894-3

Date Collected: 01/09/14 13:02

Matrix: Water

Date Received: 01/09/14 15:43

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094		ug/L		01/10/14 10:32	01/10/14 16:01	1
PCB-1221	ND		0.094		ug/L		01/10/14 10:32	01/10/14 16:01	1
PCB-1232	ND		0.094		ug/L		01/10/14 10:32	01/10/14 16:01	1
PCB-1242	ND		0.094		ug/L		01/10/14 10:32	01/10/14 16:01	1
PCB-1248	ND		0.094		ug/L		01/10/14 10:32	01/10/14 16:01	1
PCB-1254	ND		0.094		ug/L		01/10/14 10:32	01/10/14 16:01	1
PCB-1260	ND		0.094		ug/L		01/10/14 10:32	01/10/14 16:01	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RADL

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*60 - 150*	*01/10/14 10:32*	*01/13/14 11:15*	*5*
DCB Decachlorobiphenyl	*81*		*40 - 135*	*01/10/14 10:32*	*01/13/14 11:15*	*5*

QC Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-41894-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-151915/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 151934 — **Prep Batch: 151915**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		01/10/14 10:32	01/10/14 14:52	1
PCB-1221	ND		0.10		ug/L		01/10/14 10:32	01/10/14 14:52	1
PCB-1232	ND		0.10		ug/L		01/10/14 10:32	01/10/14 14:52	1
PCB-1242	ND		0.10		ug/L		01/10/14 10:32	01/10/14 14:52	1
PCB-1248	ND		0.10		ug/L		01/10/14 10:32	01/10/14 14:52	1
PCB-1254	ND		0.10		ug/L		01/10/14 10:32	01/10/14 14:52	1
PCB-1260	ND		0.10		ug/L		01/10/14 10:32	01/10/14 14:52	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RADL

Lab Sample ID: MB 580-151915/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 151969 — **Prep Batch: 151915**

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene - RADL	*45*	*X*	*60 - 150*	*01/10/14 10:32*	*01/13/14 10:05*	*5*
DCB Decachlorobiphenyl - RADL	*68*		*40 - 135*	*01/10/14 10:32*	*01/13/14 10:05*	*5*

Lab Sample ID: LCS 580-151915/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 151969 — **Prep Batch: 151915**

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene - RADL	*44*	*X*	*60 - 150*
DCB Decachlorobiphenyl - RADL	*69*		*40 - 135*

Lab Sample ID: LCSD 580-151915/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 151969 — **Prep Batch: 151915**

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene - RADL	*49*	*X*	*60 - 150*
DCB Decachlorobiphenyl - RADL	*71*		*40 - 135*

Lab Chronicle

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-41894-1

Client Sample ID: WM-BD-14-0001 Pre GAC

Lab Sample ID: 580-41894-1

Date Collected: 01/09/14 12:57

Matrix: Water

Date Received: 01/09/14 15:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			151915	01/10/14 10:32	RBD	TAL SEA
Total/NA	Analysis	8082		1	151934	01/10/14 15:34	CGM	TAL SEA
Total/NA	Prep	3510C	RADL		151915	01/10/14 10:32	RBD	TAL SEA
Total/NA	Analysis	8082	RADL	5	151969	01/13/14 10:47	SGH	TAL SEA

Client Sample ID: WM-BD-14-0002 Mid GAC

Lab Sample ID: 580-41894-2

Date Collected: 01/09/14 12:59

Matrix: Water

Date Received: 01/09/14 15:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			151915	01/10/14 10:32	RBD	TAL SEA
Total/NA	Analysis	8082		1	151934	01/10/14 15:47	CGM	TAL SEA
Total/NA	Prep	3510C	RADL		151915	01/10/14 10:32	RBD	TAL SEA
Total/NA	Analysis	8082	RADL	5	151969	01/13/14 11:01	SGH	TAL SEA

Client Sample ID: WM-BD-14-0003 Post GAC

Lab Sample ID: 580-41894-3

Date Collected: 01/09/14 13:02

Matrix: Water

Date Received: 01/09/14 15:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			151915	01/10/14 10:32	RBD	TAL SEA
Total/NA	Analysis	8082		1	151934	01/10/14 16:01	CGM	TAL SEA
Total/NA	Prep	3510C	RADL		151915	01/10/14 10:32	RBD	TAL SEA
Total/NA	Analysis	8082	RADL	5	151969	01/13/14 11:15	SGH	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-41894-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

Sample Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-41894-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-41894-1	WM-BD-14-0001 Pre GAC	Water	01/09/14 12:57	01/09/14 15:43
580-41894-2	WM-BD-14-0002 Mid GAC	Water	01/09/14 12:59	01/09/14 15:43
580-41894-3	WM-BD-14-0003 Post GAC	Water	01/09/14 13:02	01/09/14 15:43

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush

☐ Short Hold

Chain of Custody Record

Client: Waste Management	Client Contact: Kevan McCaslin	Date: 1-9-14	Chain of Custody Number: 21440
Address: 1634 Hwy 531	Telephone Number (Area Code)/Fax Number: 360-265-5281	Lab Number: 41894	Page 1 of 1
City: Minden; State: LA; Zip Code: 71055	Sampler: KDM	Lab Contact:	
Project Name and Location (State): Boeing Dredge	Billing Contact: Kevan McCaslin		
Contract/Purchase Order/Quote No.: ~~Kevan McCaslin~~			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Carb	MeOH	Analysis (Attach list if more space is needed):	Special Instructions/ Conditions of Receipt
WM-BD-14-0001 Pre GAC	1-9-14	1257		X									X	X		EPA Method 8082
WM-BD-14-0002 Mid GAC	1-9-14	1259		X									X	X		Detection Limit
WM-BD-14-0003 Post GAC	1-9-14	1302		X									X	X		0.1 ug/L
																client drop Sm Blu/wh gel 1/tub
																A 1TB = 6.7/6.9 w/o

580-41894 Chain of Custody

Cooler: ☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☒ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Kevan McCaslin	1-9-14	1543	1. Received By Sign/Print: Tom Blankinship / BlanKinship	1/9/14	1543
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 580-41894-1

Login Number: 41894

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom X

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-42017-1
Client Project/Site: Boeing Dredge

For:
Waste Management
13225 NE 126th Place
Kirkland, Washington 98034

Attn: Kevan McCaslin

Pamela R. Johnson

Authorized for release by:
1/23/2014 1:52:47 PM

Pam Johnson, Project Manager I
(253)922-2310 x112
pamr.johnson@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42017-1

Job ID: 580-42017-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 1/21/2014 12:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.2º C.

GC Semi VOA - Method 8082
In analytical batch 152542 the following samples WM-BD-14-0004MG (580-42017-1), WM-BD-14-0005DG (580-42017-2) from preparation batch 152495 contained more than one Aroclor with insufficient separation to quantify individually. The PCBs present are quantified as the predominant Aroclor:

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Definitions/Glossary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42017-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42017-1

Client Sample ID: WM-BD-14-0004MG

Lab Sample ID: 580-42017-1

Date Collected: 01/20/14 11:22

Matrix: Water

Date Received: 01/21/14 12:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		01/22/14 11:39	01/23/14 08:41	1
PCB-1221	ND		0.095		ug/L		01/22/14 11:39	01/23/14 08:41	1
PCB-1232	ND		0.095		ug/L		01/22/14 11:39	01/23/14 08:41	1
PCB-1242	ND		0.095		ug/L		01/22/14 11:39	01/23/14 08:41	1
PCB-1248	ND		0.095		ug/L		01/22/14 11:39	01/23/14 08:41	1
PCB-1254	ND		0.095		ug/L		01/22/14 11:39	01/23/14 08:41	1
PCB-1260	ND		0.095		ug/L		01/22/14 11:39	01/23/14 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*60 - 150*	*01/22/14 11:39*	*01/23/14 08:41*	*1*
DCB Decachlorobiphenyl	*67*		*40 - 135*	*01/22/14 11:39*	*01/23/14 08:41*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42017-1

Client Sample ID: WM-BD-14-0005DG

Lab Sample ID: 580-42017-2

Date Collected: 01/20/14 11:23

Matrix: Water

Date Received: 01/21/14 12:15

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094		ug/L		01/22/14 11:39	01/23/14 08:54	1
PCB-1221	ND		0.094		ug/L		01/22/14 11:39	01/23/14 08:54	1
PCB-1232	ND		0.094		ug/L		01/22/14 11:39	01/23/14 08:54	1
PCB-1242	ND		0.094		ug/L		01/22/14 11:39	01/23/14 08:54	1
PCB-1248	ND		0.094		ug/L		01/22/14 11:39	01/23/14 08:54	1
PCB-1254	ND		0.094		ug/L		01/22/14 11:39	01/23/14 08:54	1
PCB-1260	ND		0.094		ug/L		01/22/14 11:39	01/23/14 08:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*60 - 150*	*01/22/14 11:39*	*01/23/14 08:54*	*1*
DCB Decachlorobiphenyl	*57*		*40 - 135*	*01/22/14 11:39*	*01/23/14 08:54*	*1*

QC Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42017-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-152495/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 152542 — **Prep Batch: 152495**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		01/22/14 11:39	01/23/14 07:59	1
PCB-1221	ND		0.10		ug/L		01/22/14 11:39	01/23/14 07:59	1
PCB-1232	ND		0.10		ug/L		01/22/14 11:39	01/23/14 07:59	1
PCB-1242	ND		0.10		ug/L		01/22/14 11:39	01/23/14 07:59	1
PCB-1248	ND		0.10		ug/L		01/22/14 11:39	01/23/14 07:59	1
PCB-1254	ND		0.10		ug/L		01/22/14 11:39	01/23/14 07:59	1
PCB-1260	ND		0.10		ug/L		01/22/14 11:39	01/23/14 07:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*60 - 150*	*01/22/14 11:39*	*01/23/14 07:59*	*1*
DCB Decachlorobiphenyl	*91*		*40 - 135*	*01/22/14 11:39*	*01/23/14 07:59*	*1*

Lab Sample ID: LCS 580-152495/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 152542 — **Prep Batch: 152495**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.200	0.169		ug/L		85	25 - 145		
PCB-1260			0.200	0.190		ug/L		95	30 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*60 - 150*
DCB Decachlorobiphenyl	*89*		*40 - 135*

Lab Sample ID: LCSD 580-152495/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 152542 — **Prep Batch: 152495**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.200	0.167		ug/L		84	25 - 145	1	27
PCB-1260			0.200	0.207		ug/L		104	30 - 145	9	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*60 - 150*
DCB Decachlorobiphenyl	*96*		*40 - 135*

Lab Chronicle

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42017-1

Client Sample ID: WM-BD-14-0004MG

Lab Sample ID: 580-42017-1

Date Collected: 01/20/14 11:22

Matrix: Water

Date Received: 01/21/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			152495	01/22/14 11:39	ALC	TAL SEA
Total/NA	Analysis	8082		1	152542	01/23/14 08:41	SGH	TAL SEA

Client Sample ID: WM-BD-14-0005DG

Lab Sample ID: 580-42017-2

Date Collected: 01/20/14 11:23

Matrix: Water

Date Received: 01/21/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			152495	01/22/14 11:39	ALC	TAL SEA
Total/NA	Analysis	8082		1	152542	01/23/14 08:54	SGH	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42017-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

Sample Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42017-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42017-1	WM-BD-14-0004MG	Water	01/20/14 11:22	01/21/14 12:15
580-42017-2	WM-BD-14-0005DG	Water	01/20/14 11:23	01/21/14 12:15

TestAmerica

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TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
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www.testamericainc.com

☐ Rush

☐ Short Hold

Chain of Custody Record

1/23/2014

Client: Waste Management	Client Contact: Kevan McCaslin	Date: 1-20-14	Chain of Custody Number: 21445
Address: 1634 Hwy 531	Telephone Number (Area Code)/Fax Number: 360-265-5281	Lab Number: 42017	Page 1 of 1
City: Minden; State: LA; Zip Code: 71055	Sampler: BUM	Lab Contact:	
Project Name and Location (State): Boeing Dredge	Billing Contact: Kevan McCaslin		
Contract/Purchase Order/Quote No.:			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Cool	Analysis (Attach list if more space is needed): PCB (EPA 8082)	Special Instructions/ Conditions of Receipt
WM-BD-14-0004MG	1-20-14	1122		X									X	X	Detection Limit
WM-BD-14-0005DG	1-20-14	1123		X									X	X	0.1 ug/L

580-42017 Chain of Custody

Cooler: ☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☒ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By Sign/Print: Kevan McCaslin	Date: 1-21-14	Time: 1215	1. Received By Sign/Print: KFrest	Date: 1/21/14	Time: 1215
2. Relinquished By Sign/Print	Date	Time	2. Received By Sign/Print	Date	Time
3. Relinquished By Sign/Print	Date	Time	3. Received By Sign/Print	Date	Time

Comments

Cooler/TB (Dig) IR cor 6.2 unc 6.1
Cooler Dsc 5m B/W @ Lab
Wet/Packs Packing Bubble
w/o

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 580-42017-1

Login Number: 42017
List Number: 1
Creator: Luna, Francisco J

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-42082-1
Client Project/Site: Boeing Dredge

For:
Waste Management
13225 NE 126th Place
Kirkland, Washington 98034

Attn: Kevan McCaslin

Pamela R. Johnson

Authorized for release by:
1/29/2014 2:15:51 PM

Pam Johnson, Project Manager I
(253)922-2310 x112
pamr.johnson@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42082-1

Job ID: 580-42082-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 1/27/2014 2:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.8º C.

GC Semi VOA - Method 8082
The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 152725 recovered outside control limits for the following analytes: aroclor 1260. Individual spike recoveries passed acceptance criteria. The data have been qualified "*" and reported.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Definitions/Glossary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42082-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42082-1

Client Sample ID: WM-BD-14-0006 MG

Lab Sample ID: 580-42082-1

Date Collected: 01/27/14 10:25

Matrix: Water

Date Received: 01/27/14 14:10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094		ug/L		01/27/14 16:39	01/29/14 10:34	1
PCB-1221	ND		0.094		ug/L		01/27/14 16:39	01/29/14 10:34	1
PCB-1232	ND		0.094		ug/L		01/27/14 16:39	01/29/14 10:34	1
PCB-1242	ND		0.094		ug/L		01/27/14 16:39	01/29/14 10:34	1
PCB-1248	ND		0.094		ug/L		01/27/14 16:39	01/29/14 10:34	1
PCB-1254	ND		0.094		ug/L		01/27/14 16:39	01/29/14 10:34	1
PCB-1260	ND	*	0.094		ug/L		01/27/14 16:39	01/29/14 10:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*60 - 150*	*01/27/14 16:39*	*01/29/14 10:34*	*1*
DCB Decachlorobiphenyl	*51*		*40 - 135*	*01/27/14 16:39*	*01/29/14 10:34*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42082-1

Client Sample ID: WM-BD-14-0007 DG

Lab Sample ID: 580-42082-2

Date Collected: 01/27/14 10:26

Matrix: Water

Date Received: 01/27/14 14:10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094		ug/L		01/27/14 16:39	01/29/14 10:48	1
PCB-1221	ND		0.094		ug/L		01/27/14 16:39	01/29/14 10:48	1
PCB-1232	ND		0.094		ug/L		01/27/14 16:39	01/29/14 10:48	1
PCB-1242	ND		0.094		ug/L		01/27/14 16:39	01/29/14 10:48	1
PCB-1248	ND		0.094		ug/L		01/27/14 16:39	01/29/14 10:48	1
PCB-1254	ND		0.094		ug/L		01/27/14 16:39	01/29/14 10:48	1
PCB-1260	ND	*	0.094		ug/L		01/27/14 16:39	01/29/14 10:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*103*		*60 - 150*	*01/27/14 16:39*	*01/29/14 10:48*	*1*
DCB Decachlorobiphenyl	*81*		*40 - 135*	*01/27/14 16:39*	*01/29/14 10:48*	*1*

QC Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42082-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-152725/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 152815 — **Prep Batch: 152725**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		01/27/14 16:39	01/29/14 09:53	1
PCB-1221	ND		0.10		ug/L		01/27/14 16:39	01/29/14 09:53	1
PCB-1232	ND		0.10		ug/L		01/27/14 16:39	01/29/14 09:53	1
PCB-1242	ND		0.10		ug/L		01/27/14 16:39	01/29/14 09:53	1
PCB-1248	ND		0.10		ug/L		01/27/14 16:39	01/29/14 09:53	1
PCB-1254	ND		0.10		ug/L		01/27/14 16:39	01/29/14 09:53	1
PCB-1260	ND		0.10		ug/L		01/27/14 16:39	01/29/14 09:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*113*		*60 - 150*	*01/27/14 16:39*	*01/29/14 09:53*	*1*
DCB Decachlorobiphenyl	*111*		*40 - 135*	*01/27/14 16:39*	*01/29/14 09:53*	*1*

Lab Sample ID: LCS 580-152725/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 152815 — **Prep Batch: 152725**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.200	0.214		ug/L		107	25 - 145
PCB-1260	0.200	0.185		ug/L		92	30 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*102*		*60 - 150*
DCB Decachlorobiphenyl	*83*		*40 - 135*

Lab Sample ID: LCSD 580-152725/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 152815 — **Prep Batch: 152725**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.200	0.245		ug/L		122	25 - 145	13	27
PCB-1260	0.200	0.234	*	ug/L		117	30 - 145	23	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*119*		*60 - 150*
DCB Decachlorobiphenyl	*108*		*40 - 135*

Lab Chronicle

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42082-1

Client Sample ID: WM-BD-14-0006 MG

Lab Sample ID: 580-42082-1

Date Collected: 01/27/14 10:25

Matrix: Water

Date Received: 01/27/14 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			152725	01/27/14 16:39	ALC	TAL SEA
Total/NA	Analysis	8082		1	152815	01/29/14 10:34	SGH	TAL SEA

Client Sample ID: WM-BD-14-0007 DG

Lab Sample ID: 580-42082-2

Date Collected: 01/27/14 10:26

Matrix: Water

Date Received: 01/27/14 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			152725	01/27/14 16:39	ALC	TAL SEA
Total/NA	Analysis	8082		1	152815	01/29/14 10:48	SGH	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42082-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14 *
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42082-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42082-1	WM-BD-14-0006 MG	Water	01/27/14 10:25	01/27/14 14:10
580-42082-2	WM-BD-14-0007 DG	Water	01/27/14 10:26	01/27/14 14:10

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Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush

☐ Short Hold

Chain of Custody Record

1/29/2014

Client: Waste Management	Client Contact: Kevan McCaslin	Date: 1-27-14	Chain of Custody Number: 20756
Address: 1634 Hwy 531	Telephone Number (Area Code)/Fax Number: 360-265-5281	Lab Number: 42082	Page 1 of 1
City: Minden; State: LA; Zip Code: 71055	Sampler: BVM	Lab Contact:	
Project Name and Location (State): Boeing Dredge	Billing Contact: Kevan McCaslin		
Contract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed): PCB (EPA 8082)

Special Instructions/ Conditions of Receipt

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Cool	PCB (EPA 8082)	Special Instructions/ Conditions of Receipt
WM-BD-14-0006 MG	1-27-14	1025		X										X	X	Detection Limit
WM-BD-14-0007 DG	1-27-14	1026		X										X	X	0.1 ug/L

580-42082 Chain of Custody

Cooler/TB Dig/IR cor 10.8 unc 10.9
Cooler Dsc _____ @ Lab 14:10
Wet/Packs Packing _____
w/o

Cooler: ☐ Yes ☐ No Cooler Temp: _____	Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☒ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify):

1. Relinquished By Sign/Print: Kevan McCaslin	Date: 1-27-14	Time: 1100	1. Received By Sign/Print: R.T. McDaniel	Date: 1-27-14	Time: 12:35
2. Relinquished By Sign/Print:	Date:	Time:	2. Received By Sign/Print:	Date:	Time:
3. Relinquished By Sign/Print:	Date:	Time:	3. Received By Sign/Print:	Date:	Time:

Comments:

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 580-42082-1

Login Number: 42082

List Source: TestAmerica Seattle

List Number: 1

Creator: Luna, Francisco J

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-42161-1
Client Project/Site: Boeing Dredge

For:
Waste Management
13225 NE 126th Place
Kirkland, Washington 98034

Attn: Kevan McCaslin

Pamela R. Johnson

Authorized for release by:
2/5/2014 12:29:10 PM

Pam Johnson, Project Manager I
(253)922-2310 x112
pamr.johnson@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42161-1

Job ID: 580-42161-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 2/3/2014 2:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9º C.

GC Semi VOA - Method 8082
In analytical batch 153162 surrogate recovery for CCV associated with the following sample(s) from preparation batch 153162 was outside the upper control limit for TCMX surrogate: (CCV 580-153162/11), (LCS 580-153119/2-A), (LCSD 580-153119/3-A), (MB 580-153119/1-A), WM-BD-0008 MG (580-42161-1), WM-BD-0009 DG (580-42161-2). This sample did not contain any target analytes and the batch QC is well within acceptance limits and not affected by the high instrument bias for TCMX; therefore, re-extraction and/or re-analysis was not performed. The data have been qualified "^" and reported.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Definitions/Glossary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42161-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42161-1

Client Sample ID: WM-BD-0008 MG

Lab Sample ID: 580-42161-1

Date Collected: 02/03/14 07:18

Matrix: Water

Date Received: 02/03/14 14:55

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094		ug/L		02/04/14 10:45	02/05/14 09:38	1
PCB-1221	ND		0.094		ug/L		02/04/14 10:45	02/05/14 09:38	1
PCB-1232	ND		0.094		ug/L		02/04/14 10:45	02/05/14 09:38	1
PCB-1242	ND		0.094		ug/L		02/04/14 10:45	02/05/14 09:38	1
PCB-1248	ND		0.094		ug/L		02/04/14 10:45	02/05/14 09:38	1
PCB-1254	ND		0.094		ug/L		02/04/14 10:45	02/05/14 09:38	1
PCB-1260	ND		0.094		ug/L		02/04/14 10:45	02/05/14 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*	^	*60 - 150*	*02/04/14 10:45*	*02/05/14 09:38*	*1*
DCB Decachlorobiphenyl	*51*		*40 - 135*	*02/04/14 10:45*	*02/05/14 09:38*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42161-1

Client Sample ID: WM-BD-0009 DG

Lab Sample ID: 580-42161-2

Date Collected: 02/03/14 07:19

Matrix: Water

Date Received: 02/03/14 14:55

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		02/04/14 10:45	02/05/14 09:51	1
PCB-1221	ND		0.095		ug/L		02/04/14 10:45	02/05/14 09:51	1
PCB-1232	ND		0.095		ug/L		02/04/14 10:45	02/05/14 09:51	1
PCB-1242	ND		0.095		ug/L		02/04/14 10:45	02/05/14 09:51	1
PCB-1248	ND		0.095		ug/L		02/04/14 10:45	02/05/14 09:51	1
PCB-1254	ND		0.095		ug/L		02/04/14 10:45	02/05/14 09:51	1
PCB-1260	ND		0.095		ug/L		02/04/14 10:45	02/05/14 09:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*	^	*60 - 150*	*02/04/14 10:45*	*02/05/14 09:51*	*1*
DCB Decachlorobiphenyl	*58*		*40 - 135*	*02/04/14 10:45*	*02/05/14 09:51*	*1*

QC Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42161-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-153119/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 153162 — **Prep Batch: 153119**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		02/04/14 10:45	02/05/14 08:56	1
PCB-1221	ND		0.10		ug/L		02/04/14 10:45	02/05/14 08:56	1
PCB-1232	ND		0.10		ug/L		02/04/14 10:45	02/05/14 08:56	1
PCB-1242	ND		0.10		ug/L		02/04/14 10:45	02/05/14 08:56	1
PCB-1248	ND		0.10		ug/L		02/04/14 10:45	02/05/14 08:56	1
PCB-1254	ND		0.10		ug/L		02/04/14 10:45	02/05/14 08:56	1
PCB-1260	ND		0.10		ug/L		02/04/14 10:45	02/05/14 08:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*	^	*60 - 150*	*02/04/14 10:45*	*02/05/14 08:56*	*1*
DCB Decachlorobiphenyl	*66*		*40 - 135*	*02/04/14 10:45*	*02/05/14 08:56*	*1*

Lab Sample ID: LCS 580-153119/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 153162 — **Prep Batch: 153119**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.200	0.158		ug/L		79	25 - 145
PCB-1260	0.200	0.136		ug/L		68	30 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*101*	^	*60 - 150*
DCB Decachlorobiphenyl	*65*		*40 - 135*

Lab Sample ID: LCSD 580-153119/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 153162 — **Prep Batch: 153119**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.200	0.138		ug/L		69	25 - 145	13	27
PCB-1260	0.200	0.148		ug/L		74	30 - 145	9	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*108*	^	*60 - 150*
DCB Decachlorobiphenyl	*75*		*40 - 135*

Lab Chronicle

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42161-1

Client Sample ID: WM-BD-0008 MG

Lab Sample ID: 580-42161-1

Date Collected: 02/03/14 07:18

Matrix: Water

Date Received: 02/03/14 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			153119	02/04/14 10:45	ALC	TAL SEA
Total/NA	Analysis	8082		1	153162	02/05/14 09:38	SGH	TAL SEA

Client Sample ID: WM-BD-0009 DG

Lab Sample ID: 580-42161-2

Date Collected: 02/03/14 07:19

Matrix: Water

Date Received: 02/03/14 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1	153162	02/05/14 09:51	SGH	TAL SEA
Total/NA	Prep	3510C			153119	02/04/14 10:45	ALC	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42161-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42161-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42161-1	WM-BD-0008 MG	Water	02/03/14 07:18	02/03/14 14:55
580-42161-2	WM-BD-0009 DG	Water	02/03/14 07:19	02/03/14 14:55

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush

☐ Short Hold

Chain of Custody Record

Client: WASTE MANAGEMENT	Client Contact: KEVAN McCASLIN	Date: 2-3-14	Chain of Custody Number: 20757
Address: 1634 HWY 531	Telephone Number (Area Code)/Fax Number: 360-265-5281	Lab Number: 42161	Page 1 of 1
City: MINDEN; State: LA; Zip Code: 71055	Sampler: WVM	Lab Contact:	
Project Name and Location (State): BOEING DREDGE	Billing Contact: KEVAN McCASLIN		
Contract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed): PCB (EPA 8082)

Special Instructions/ Conditions of Receipt

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	cool	PCB (EPA 8082)	Special Instructions/ Conditions of Receipt
WM-BD-14-0008 MG	2-3-14	0918		X									X	X	DETECTION LIMIT
WM-BD-14-0009 DG	2-3-14	0719		X									X	X	0.1 ug/L

580-42161 Chain of Custody

Lab Court @ lab 1455
Sm. Blu/whi
gel/bub
IR = 3.9 / 4.3 %

Cooler: ☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☒ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By Sign/Print: William Morris	Date: 2-3-14	Time: 0916	1. Received By Sign/Print: Tom / Blankinship	Date: 2/3/14	Time: 1415
2. Relinquished By Sign/Print	Date	Time	2. Received By Sign/Print	Date	Time
3. Relinquished By Sign/Print	Date	Time	3. Received By Sign/Print	Date	Time

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 580-42161-1

Login Number: 42161

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom X

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-42229-1
Client Project/Site: Boeing Dredge

For:
Waste Management
13225 NE 126th Place
Kirkland, Washington 98034

Attn: Kevan McCaslin

Pamela R. Johnson

Authorized for release by:
2/12/2014 3:54:01 PM

Pam Johnson, Project Manager I
(253)922-2310 x112
pamr.johnson@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42229-1

Job ID: 580-42229-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 2/10/2014 2:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.1º C.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Definitions/Glossary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42229-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42229-1

Client Sample ID: WM-BD-14-0010MG

Lab Sample ID: 580-42229-1

Date Collected: 02/10/14 10:25

Matrix: Water

Date Received: 02/10/14 14:30

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		02/11/14 09:27	02/12/14 13:45	1
PCB-1221	ND		0.095		ug/L		02/11/14 09:27	02/12/14 13:45	1
PCB-1232	ND		0.095		ug/L		02/11/14 09:27	02/12/14 13:45	1
PCB-1242	ND		0.095		ug/L		02/11/14 09:27	02/12/14 13:45	1
PCB-1248	ND		0.095		ug/L		02/11/14 09:27	02/12/14 13:45	1
PCB-1254	ND		0.095		ug/L		02/11/14 09:27	02/12/14 13:45	1
PCB-1260	ND		0.095		ug/L		02/11/14 09:27	02/12/14 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*60 - 150*	*02/11/14 09:27*	*02/12/14 13:45*	*1*
DCB Decachlorobiphenyl	*62*		*40 - 135*	*02/11/14 09:27*	*02/12/14 13:45*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42229-1

Client Sample ID: WM-BD-14-0011DG

Lab Sample ID: 580-42229-2

Date Collected: 02/10/14 10:27

Matrix: Water

Date Received: 02/10/14 14:30

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094		ug/L		02/11/14 09:27	02/12/14 13:58	1
PCB-1221	ND		0.094		ug/L		02/11/14 09:27	02/12/14 13:58	1
PCB-1232	ND		0.094		ug/L		02/11/14 09:27	02/12/14 13:58	1
PCB-1242	ND		0.094		ug/L		02/11/14 09:27	02/12/14 13:58	1
PCB-1248	ND		0.094		ug/L		02/11/14 09:27	02/12/14 13:58	1
PCB-1254	ND		0.094		ug/L		02/11/14 09:27	02/12/14 13:58	1
PCB-1260	ND		0.094		ug/L		02/11/14 09:27	02/12/14 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*60 - 150*	*02/11/14 09:27*	*02/12/14 13:58*	*1*
DCB Decachlorobiphenyl	*72*		*40 - 135*	*02/11/14 09:27*	*02/12/14 13:58*	*1*

QC Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42229-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-153446/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 153533 — **Prep Batch: 153446**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		02/11/14 09:27	02/12/14 13:03	1
PCB-1221	ND		0.10		ug/L		02/11/14 09:27	02/12/14 13:03	1
PCB-1232	ND		0.10		ug/L		02/11/14 09:27	02/12/14 13:03	1
PCB-1242	ND		0.10		ug/L		02/11/14 09:27	02/12/14 13:03	1
PCB-1248	ND		0.10		ug/L		02/11/14 09:27	02/12/14 13:03	1
PCB-1254	ND		0.10		ug/L		02/11/14 09:27	02/12/14 13:03	1
PCB-1260	ND		0.10		ug/L		02/11/14 09:27	02/12/14 13:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*60 - 150*	*02/11/14 09:27*	*02/12/14 13:03*	*1*
DCB Decachlorobiphenyl	*93*		*40 - 135*	*02/11/14 09:27*	*02/12/14 13:03*	*1*

Lab Sample ID: LCS 580-153446/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 153533 — **Prep Batch: 153446**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.200	0.169		ug/L		84	25 - 145		
PCB-1260			0.200	0.192		ug/L		96	30 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*60 - 150*
DCB Decachlorobiphenyl	*86*		*40 - 135*

Lab Sample ID: LCSD 580-153446/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 153533 — **Prep Batch: 153446**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.200	0.155		ug/L		77	25 - 145	9	27
PCB-1260			0.200	0.186		ug/L		93	30 - 145	3	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*60 - 150*
DCB Decachlorobiphenyl	*85*		*40 - 135*

Lab Chronicle

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42229-1

Client Sample ID: WM-BD-14-0010MG

Lab Sample ID: 580-42229-1

Date Collected: 02/10/14 10:25

Matrix: Water

Date Received: 02/10/14 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			153446	02/11/14 09:27	ALC	TAL SEA
Total/NA	Analysis	8082		1	153533	02/12/14 13:45	CGM	TAL SEA

Client Sample ID: WM-BD-14-0011DG

Lab Sample ID: 580-42229-2

Date Collected: 02/10/14 10:27

Matrix: Water

Date Received: 02/10/14 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			153446	02/11/14 09:27	ALC	TAL SEA
Total/NA	Analysis	8082		1	153533	02/12/14 13:58	CGM	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42229-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42229-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42229-1	WM-BD-14-0010MG	Water	02/10/14 10:25	02/10/14 14:30
580-42229-2	WM-BD-14-0011DG	Water	02/10/14 10:27	02/10/14 14:30

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush

☐ Short Hold

Chain of Custody Record

Client: Waste Management	Client Contact: Kevan McCaslin	Date: 2-10-14	Chain of Custody Number: 20758
Address: 1634 Hwy 531	Telephone Number (Area Code)/Fax Number: 360-265-5281	Lab Number: 42229	Page 1 of 1
City: Minden; State: LA; Zip Code: 71055	Sampler: bvm	Lab Contact:	
Project Name and Location (State): Boeing Dredge	Billing Contact: Kevan McCaslin		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Cor	Analysis (Attach list if more space is needed): PCB (EPA 8082)	Special Instructions/ Conditions of Receipt
WM-BD-14-0010MG	2-10-14	1025		X									X	X	MDL 0.1 ug/L
WM-BD-14-0011DG	2-10-14	1027		X									X	X	MDL 0.1 ug/L

580-42229 Chain of Custody

~~Cooler/TB~~ Dig/IR cor 5.1 unc 5.7
Cooler Dsc 5m Red/wht @ Lab 1430
Wet/Packs Packing Other
w/0

Cooler: ☐ Yes ☐ No Cooler Temp: _____	Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☒ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By Sign/Print	2-10-14	11:10	1. Received By Sign/Print: Francisco Luna, Jr	2/10/14	1252
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 580-42229-1

Login Number: 42229

List Source: TestAmerica Seattle

List Number: 1

Creator: McDaniel, Ronald T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-42326-1
Client Project/Site: Boeing Dredge

For:
Waste Management
13225 NE 126th Place
Kirkland, Washington 98034

Attn: Kevan McCaslin

Pamela R. Johnson

Authorized for release by:
2/19/2014 3:04:48 PM

Pam Johnson, Project Manager I
(253)922-2310 x112
pamr.johnson@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42326-1

Job ID: 580-42326-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 2/17/2014 2:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.4º C.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42326-1

Client Sample ID: WM-BD-140012MG

Lab Sample ID: 580-42326-1

Date Collected: 02/17/14 10:27

Matrix: Water

Date Received: 02/17/14 14:55

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:44	1
PCB-1221	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:44	1
PCB-1232	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:44	1
PCB-1242	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:44	1
PCB-1248	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:44	1
PCB-1254	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:44	1
PCB-1260	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*60 - 150*	*02/18/14 09:47*	*02/19/14 10:44*	*1*
DCB Decachlorobiphenyl	*63*		*40 - 135*	*02/18/14 09:47*	*02/19/14 10:44*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42326-1

Client Sample ID: WM-BD-140013DG

Lab Sample ID: 580-42326-2

Date Collected: 02/17/14 10:29

Matrix: Water

Date Received: 02/17/14 14:55

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:58	1
PCB-1221	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:58	1
PCB-1232	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:58	1
PCB-1242	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:58	1
PCB-1248	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:58	1
PCB-1254	ND		0.095		ug/L		02/18/14 09:47	02/19/14 10:58	1
PCB-1260	**0.14**		0.095		ug/L		02/18/14 09:47	02/19/14 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*60 - 150*	*02/18/14 09:47*	*02/19/14 10:58*	*1*
DCB Decachlorobiphenyl	*56*		*40 - 135*	*02/18/14 09:47*	*02/19/14 10:58*	*1*

QC Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42326-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-153829/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 153896 — **Prep Batch: 153829**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		02/18/14 09:47	02/19/14 10:03	1
PCB-1221	ND		0.10		ug/L		02/18/14 09:47	02/19/14 10:03	1
PCB-1232	ND		0.10		ug/L		02/18/14 09:47	02/19/14 10:03	1
PCB-1242	ND		0.10		ug/L		02/18/14 09:47	02/19/14 10:03	1
PCB-1248	ND		0.10		ug/L		02/18/14 09:47	02/19/14 10:03	1
PCB-1254	ND		0.10		ug/L		02/18/14 09:47	02/19/14 10:03	1
PCB-1260	ND		0.10		ug/L		02/18/14 09:47	02/19/14 10:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*60 - 150*	*02/18/14 09:47*	*02/19/14 10:03*	*1*
DCB Decachlorobiphenyl	*96*		*40 - 135*	*02/18/14 09:47*	*02/19/14 10:03*	*1*

Lab Sample ID: LCS 580-153829/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 153896 — **Prep Batch: 153829**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.200	0.141		ug/L		70	25 - 145		
PCB-1260			0.200	0.170		ug/L		85	30 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*62*		*60 - 150*
DCB Decachlorobiphenyl	*80*		*40 - 135*

Lab Sample ID: LCSD 580-153829/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 153896 — **Prep Batch: 153829**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.200	0.157		ug/L		78	25 - 145	11	27
PCB-1260			0.200	0.177		ug/L		88	30 - 145	4	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*60 - 150*
DCB Decachlorobiphenyl	*91*		*40 - 135*

Lab Chronicle

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42326-1

Client Sample ID: WM-BD-140012MG

Lab Sample ID: 580-42326-1

Date Collected: 02/17/14 10:27

Matrix: Water

Date Received: 02/17/14 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			153829	02/18/14 09:47	ALC	TAL SEA
Total/NA	Analysis	8082		1	153896	02/19/14 10:44	SGH	TAL SEA

Client Sample ID: WM-BD-140013DG

Lab Sample ID: 580-42326-2

Date Collected: 02/17/14 10:29

Matrix: Water

Date Received: 02/17/14 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			153829	02/18/14 09:47	ALC	TAL SEA
Total/NA	Analysis	8082		1	153896	02/19/14 10:58	SGH	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42326-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-15

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42326-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42326-1	WM-BD-140012MG	Water	02/17/14 10:27	02/17/14 14:55
580-42326-2	WM-BD-140013DG	Water	02/17/14 10:29	02/17/14 14:55

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☐ Rush

☐ Short Hold

Chain of Custody Record

2/19/2014

Client: Waste Management	Client Contact: Kevan McCaslin	Date: 2-17-14	Chain of Custody Number: 20759
Address: 1634 Hwy 531	Telephone Number (Area Code)/Fax Number: 360-265-5281	Lab Number: 42326	Page 1 of 1
City: Minden; State: LA; Zip Code: 71055	Sampler: bvm	Lab Contact:	
Project Name and Location (State): Boeing Dredge	Billing Contact: Kevan McCaslin		
Contract/Purchase Order/Quote No.:			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Cool	Analysis (Attach list if more space is needed): PCB (EPA 8082)	Special Instructions/ Conditions of Receipt
WM-BD-14 0012 MG	2-17-14	1027		X									X	X	MDL 0.1 ug/L
WM-BD-14 0013 DG	2-17-14	1029		X									X	X	MDL 0.1 ug/L

580-42326 Chain of Custody

~~Cooler/TB~~ Dig/IR cor 2.4°C unc 3.4°C
Cooler Dsc Shed Green/WM@ Lab 1455
Wet/Packs Packing other
w/o

Cooler: ☐ Yes ☐ No Cooler Temp: _____	Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☒ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By Sign/Print: William Morris	2-17-14	11:35	1. Received By Sign/Print: Francisco Luna, Jr	2/17/14	1415
2. Relinquished By Sign/Print:			2. Received By Sign/Print:		
3. Relinquished By Sign/Print:			3. Received By Sign/Print:		

Comments:

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 580-42326-1

Login Number: 42326

List Source: TestAmerica Seattle

List Number: 1

Creator: McDaniel, Ronald T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-42447-1
Client Project/Site: Boeing Dredge

For:
Waste Management
13225 NE 126th Place
Kirkland, Washington 98034

Attn: Kevan McCaslin

Pamela R. Johnson

Authorized for release by:
2/27/2014 4:00:26 PM

Pam Johnson, Project Manager I
(253)922-2310 x112
pamr.johnson@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42447-1

Job ID: 580-42447-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 2/24/2014 1:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.7º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42447-1

Client Sample ID: WM-BD-14-0014 MG

Lab Sample ID: 580-42447-1

Date Collected: 02/24/14 11:37

Matrix: Water

Date Received: 02/24/14 13:50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.099		ug/L		02/25/14 17:47	02/26/14 11:48	1
PCB-1221	ND		0.099		ug/L		02/25/14 17:47	02/26/14 11:48	1
PCB-1232	ND		0.099		ug/L		02/25/14 17:47	02/26/14 11:48	1
PCB-1242	ND		0.099		ug/L		02/25/14 17:47	02/26/14 11:48	1
PCB-1248	ND		0.099		ug/L		02/25/14 17:47	02/26/14 11:48	1
PCB-1254	ND		0.099		ug/L		02/25/14 17:47	02/26/14 11:48	1
PCB-1260	ND		0.099		ug/L		02/25/14 17:47	02/26/14 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*60 - 150*	*02/25/14 17:47*	*02/26/14 11:48*	*1*
DCB Decachlorobiphenyl	*122*		*40 - 135*	*02/25/14 17:47*	*02/26/14 11:48*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42447-1

Client Sample ID: WM-BD-14-0015 DG

Lab Sample ID: 580-42447-2

Date Collected: 02/24/14 11:38

Matrix: Water

Date Received: 02/24/14 13:50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094		ug/L		02/25/14 17:47	02/26/14 12:15	1
PCB-1221	ND		0.094		ug/L		02/25/14 17:47	02/26/14 12:15	1
PCB-1232	ND		0.094		ug/L		02/25/14 17:47	02/26/14 12:15	1
PCB-1242	ND		0.094		ug/L		02/25/14 17:47	02/26/14 12:15	1
PCB-1248	ND		0.094		ug/L		02/25/14 17:47	02/26/14 12:15	1
PCB-1254	ND		0.094		ug/L		02/25/14 17:47	02/26/14 12:15	1
PCB-1260	ND		0.094		ug/L		02/25/14 17:47	02/26/14 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*60 - 150*	*02/25/14 17:47*	*02/26/14 12:15*	*1*
DCB Decachlorobiphenyl	*69*		*40 - 135*	*02/25/14 17:47*	*02/26/14 12:15*	*1*

QC Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42447-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-154242/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 154246 — **Prep Batch: 154242**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		02/25/14 17:47	02/26/14 11:20	1
PCB-1221	ND		0.10		ug/L		02/25/14 17:47	02/26/14 11:20	1
PCB-1232	ND		0.10		ug/L		02/25/14 17:47	02/26/14 11:20	1
PCB-1242	ND		0.10		ug/L		02/25/14 17:47	02/26/14 11:20	1
PCB-1248	ND		0.10		ug/L		02/25/14 17:47	02/26/14 11:20	1
PCB-1254	ND		0.10		ug/L		02/25/14 17:47	02/26/14 11:20	1
PCB-1260	ND		0.10		ug/L		02/25/14 17:47	02/26/14 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*60 - 150*	*02/25/14 17:47*	*02/26/14 11:20*	*1*
DCB Decachlorobiphenyl	*108*		*40 - 135*	*02/25/14 17:47*	*02/26/14 11:20*	*1*

Lab Sample ID: LCS 580-154242/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 154246 — **Prep Batch: 154242**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.200	0.173		ug/L		87	25 - 145		
PCB-1260			0.200	0.203		ug/L		101	30 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*79*		*60 - 150*
DCB Decachlorobiphenyl	*103*		*40 - 135*

Lab Sample ID: LCSD 580-154242/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 154246 — **Prep Batch: 154242**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.200	0.193		ug/L		96	25 - 145	11	27
PCB-1260			0.200	0.210		ug/L		105	30 - 145	3	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*60 - 150*
DCB Decachlorobiphenyl	*99*		*40 - 135*

Lab Chronicle

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42447-1

Client Sample ID: WM-BD-14-0014 MG

Lab Sample ID: 580-42447-1

Date Collected: 02/24/14 11:37

Matrix: Water

Date Received: 02/24/14 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			154242	02/25/14 17:47	ALC	TAL SEA
Total/NA	Analysis	8082		1	154246	02/26/14 11:48	SGH	TAL SEA

Client Sample ID: WM-BD-14-0015 DG

Lab Sample ID: 580-42447-2

Date Collected: 02/24/14 11:38

Matrix: Water

Date Received: 02/24/14 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			154242	02/25/14 17:47	ALC	TAL SEA
Total/NA	Analysis	8082		1	154246	02/26/14 12:15	SGH	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42447-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14 *
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-15

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42447-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42447-1	WM-BD-14-0014 MG	Water	02/24/14 11:37	02/24/14 13:50
580-42447-2	WM-BD-14-0015 DG	Water	02/24/14 11:38	02/24/14 13:50

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www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

2/27/2014

Client: Waste Management	Client Contact: Reagan McCaslin	Date: 2-17-14	Chain of Custody Number: 20760
Address: 1634 Hwy 531	Telephone Number (Area Code)/Fax Number: 360-265-5281	Lab Number: 42447	Page 1 of 1
City: Minden; State: LA; Zip Code: 71055	Sampler: SVM	Lab Contact:	
Project Name and Location (State): Roeing Dredge	Billing Contact: Reagan McCaslin		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): PCB (EPA Method 8082)

Special Instructions/ Conditions of Receipt

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	PCB (EPA Method 8082)		
WM-RD-14-0014 MG	2-24-14	1137		X									X	X	MDL 0.1 ug/L
WM-RD-14-0015 DG	2-24-14	1138		X									X	X	MDL 0.1 ug/L

580-42447 Chain of Custody

Cooler/TB Dig/IR cor 3.7°C unc 4.3°C
Cooler Dsc Med Red/Wh.Tape@ Lab 14445
Wet/Packs Packing N/A
W/O

Cooler	Possible Hazard Identification	Sample Disposal	
☐ Yes ☐ No Cooler Temp: ____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☐ Archive For ____ Months	☐ Disposal By Lab (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☒ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other ____

QC Requirements (Specify): FL

1. Relinquished By Sign/Print: William Morris	Date: 2-24-14	Time: 1225	1. Received By Sign/Print: / Francisco Luna, Jr	Date: 2/24/14	Time: 1350
2. Relinquished By Sign/Print	Date	Time	2. Received By Sign/Print	Date	Time
3. Relinquished By Sign/Print	Date	Time	3. Received By Sign/Print	Date	Time

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 580-42447-1

Login Number: 42447

List Source: TestAmerica Seattle

List Number: 1

Creator: McDaniel, Ronald T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-42566-1
Client Project/Site: Boeing Dredge

For:
Waste Management
13225 NE 126th Place
Kirkland, Washington 98034

Attn: Kevan McCaslin

Authorized for release by:
3/6/2014 4:04:20 PM
Ai Pham, Project Manager I
(253)922-2310
ai.pham@testamericainc.com

Designee for

Pam Johnson, Project Manager I
(253)922-2310 x112
pamr.johnson@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42566-1

Job ID: 580-42566-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 3/3/2014 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.5º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42566-1

Client Sample ID: WM-BD-0016 MG

Lab Sample ID: 580-42566-1

Date Collected: 03/03/14 11:15

Matrix: Water

Date Received: 03/03/14 17:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:50	1
PCB-1221	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:50	1
PCB-1232	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:50	1
PCB-1242	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:50	1
PCB-1248	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:50	1
PCB-1254	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:50	1
PCB-1260	**0.13**		0.10		ug/L		03/05/14 10:26	03/06/14 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*60 - 150*	*03/05/14 10:26*	*03/06/14 11:50*	*1*
DCB Decachlorobiphenyl	*59*		*40 - 135*	*03/05/14 10:26*	*03/06/14 11:50*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42566-1

Client Sample ID: WM-BD-0017 DG

Lab Sample ID: 580-42566-2

Date Collected: 03/03/14 11:16

Matrix: Water

Date Received: 03/03/14 17:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094		ug/L		03/05/14 10:26	03/06/14 12:04	1
PCB-1221	ND		0.094		ug/L		03/05/14 10:26	03/06/14 12:04	1
PCB-1232	ND		0.094		ug/L		03/05/14 10:26	03/06/14 12:04	1
PCB-1242	ND		0.094		ug/L		03/05/14 10:26	03/06/14 12:04	1
PCB-1248	ND		0.094		ug/L		03/05/14 10:26	03/06/14 12:04	1
PCB-1254	ND		0.094		ug/L		03/05/14 10:26	03/06/14 12:04	1
PCB-1260	**0.13**		0.094		ug/L		03/05/14 10:26	03/06/14 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*60 - 150*	*03/05/14 10:26*	*03/06/14 12:04*	*1*
DCB Decachlorobiphenyl	*68*		*40 - 135*	*03/05/14 10:26*	*03/06/14 12:04*	*1*

QC Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42566-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-154636/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 154696 — **Prep Batch: 154636**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:08	1
PCB-1221	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:08	1
PCB-1232	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:08	1
PCB-1242	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:08	1
PCB-1248	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:08	1
PCB-1254	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:08	1
PCB-1260	ND		0.10		ug/L		03/05/14 10:26	03/06/14 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*60 - 150*	*03/05/14 10:26*	*03/06/14 11:08*	*1*
DCB Decachlorobiphenyl	*88*		*40 - 135*	*03/05/14 10:26*	*03/06/14 11:08*	*1*

Lab Sample ID: LCS 580-154636/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 154696 — **Prep Batch: 154636**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.200	0.123		ug/L		62	25 - 145
PCB-1260	0.200	0.168		ug/L		84	30 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*60 - 150*
DCB Decachlorobiphenyl	*88*		*40 - 135*

Lab Sample ID: LCSD 580-154636/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 154696 — **Prep Batch: 154636**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.200	0.138		ug/L		69	25 - 145	12	27
PCB-1260	0.200	0.175		ug/L		88	30 - 145	4	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*60 - 150*
DCB Decachlorobiphenyl	*87*		*40 - 135*

Lab Chronicle

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42566-1

Client Sample ID: WM-BD-0016 MG

Lab Sample ID: 580-42566-1

Date Collected: 03/03/14 11:15

Matrix: Water

Date Received: 03/03/14 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			154636	03/05/14 10:26	ALC	TAL SEA
Total/NA	Analysis	8082		1	154696	03/06/14 11:50	SGH	TAL SEA

Client Sample ID: WM-BD-0017 DG

Lab Sample ID: 580-42566-2

Date Collected: 03/03/14 11:16

Matrix: Water

Date Received: 03/03/14 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			154636	03/05/14 10:26	ALC	TAL SEA
Total/NA	Analysis	8082		1	154696	03/06/14 12:04	SGH	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42566-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14 *
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-15

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42566-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42566-1	WM-BD-0016 MG	Water	03/03/14 11:15	03/03/14 17:00
580-42566-2	WM-BD-0017 DG	Water	03/03/14 11:16	03/03/14 17:00

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☐ Rush
☐ Short Hold

Chain of Custody Record

3/6/2014

Client: Waste Management	Client Contact: Kevan McCaslin	Date: 3-3-14	Chain of Custody Number: 21446
Address: 1634 Hwy 531	Telephone Number (Area Code)/Fax Number: 360-265-5281	Lab Number: 425566	Page 1 of 1
City: Minden; State: LA; Zip Code: 71055	Sampler: WM	Lab Contact:	
Project Name and Location (State): Boeing Dredge	Billing Contact: Kevan McCaslin		
Contract/Purchase Order/Quote No.:			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Cool	Analysis (Attach list if more space is needed): PCB (EPA method 8082)	Special Instructions/ Conditions of Receipt
WM-BD-0016 MG	3-3-14	11:15		X									X	X	MDL 0.1 ug/L
WM-BD-0017 DG	3-3-14	11:16		X									X	X	MDL 0.1 ug/L

580-42566 Chain of Custody

Cooler/TB Dig/IR cor 5.5 unc 6.3
Cooler Dsc m-1 Blue/white @ Lab 100
Wet/Packs Packing other
w/o

Cooler: ☐ Yes ☐ No Cooler Temp: _____	Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☒ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify):

	Sign/Print	Date	Time
1. Relinquished By	William Morris	3-3-14	11:55
2. Relinquished By			
3. Relinquished By			

	Sign/Print	Date	Time
1. Received By	Francisco Luna, Jr.	3/3/14	1535
2. Received By			
3. Received By			

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 580-42566-1

Login Number: 42566

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom X

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-42669-1
Client Project/Site: Boeing Dredge

For:
Waste Management
13225 NE 126th Place
Kirkland, Washington 98034

Attn: Kevan McCaslin

Authorized for release by:
3/13/2014 11:50:50 AM
Kim Presley, Project Management Assistant I
(253)922-2310
kim.presley@testamericainc.com

Designee for

Pam Johnson, Project Manager I
(253)922-2310 x112
pamr.johnson@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42669-1

Job ID: 580-42669-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 3/11/2014 3:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.2º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42669-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42669-1

Client Sample ID: WM-BD-14-0018 PG

Lab Sample ID: 580-42669-1

Date Collected: 03/10/14 14:23

Matrix: Water

Date Received: 03/11/14 15:45

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		03/12/14 11:16	03/13/14 09:49	1
PCB-1221	ND		0.095		ug/L		03/12/14 11:16	03/13/14 09:49	1
PCB-1232	ND		0.095		ug/L		03/12/14 11:16	03/13/14 09:49	1
PCB-1242	ND		0.095		ug/L		03/12/14 11:16	03/13/14 09:49	1
PCB-1248	ND		0.095		ug/L		03/12/14 11:16	03/13/14 09:49	1
PCB-1254	ND		0.095		ug/L		03/12/14 11:16	03/13/14 09:49	1
PCB-1260	**0.098**		0.095		ug/L		03/12/14 11:16	03/13/14 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*60 - 150*	*03/12/14 11:16*	*03/13/14 09:49*	*1*
DCB Decachlorobiphenyl	*54*		*40 - 135*	*03/12/14 11:16*	*03/13/14 09:49*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42669-1

Client Sample ID: WM-BD-14-0019 MG

Lab Sample ID: 580-42669-2

Date Collected: 03/10/14 14:25

Matrix: Water

Date Received: 03/11/14 15:45

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:03	1
PCB-1221	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:03	1
PCB-1232	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:03	1
PCB-1242	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:03	1
PCB-1248	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:03	1
PCB-1254	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:03	1
PCB-1260	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*60 - 150*	*03/12/14 11:16*	*03/13/14 10:03*	*1*
DCB Decachlorobiphenyl	*55*		*40 - 135*	*03/12/14 11:16*	*03/13/14 10:03*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42669-1

Client Sample ID: WM-BD-14-0020 DG

Lab Sample ID: 580-42669-3

Date Collected: 03/10/14 14:27

Matrix: Water

Date Received: 03/11/14 15:45

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:16	1
PCB-1221	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:16	1
PCB-1232	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:16	1
PCB-1242	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:16	1
PCB-1248	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:16	1
PCB-1254	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:16	1
PCB-1260	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*60 - 150*	*03/12/14 11:16*	*03/13/14 10:16*	*1*
DCB Decachlorobiphenyl	*55*		*40 - 135*	*03/12/14 11:16*	*03/13/14 10:16*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42669-1

Client Sample ID: WM-BD-14-0021 MG

Lab Sample ID: 580-42669-4

Date Collected: 03/10/14 14:25

Matrix: Water

Date Received: 03/11/14 15:45

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:30	1
PCB-1221	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:30	1
PCB-1232	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:30	1
PCB-1242	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:30	1
PCB-1248	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:30	1
PCB-1254	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:30	1
PCB-1260	ND		0.095		ug/L		03/12/14 11:16	03/13/14 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*60 - 150*	*03/12/14 11:16*	*03/13/14 10:30*	*1*
DCB Decachlorobiphenyl	*55*		*40 - 135*	*03/12/14 11:16*	*03/13/14 10:30*	*1*

QC Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42669-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-155048/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155052 — **Prep Batch: 155048**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		03/12/14 11:16	03/13/14 09:09	1
PCB-1221	ND		0.10		ug/L		03/12/14 11:16	03/13/14 09:09	1
PCB-1232	ND		0.10		ug/L		03/12/14 11:16	03/13/14 09:09	1
PCB-1242	ND		0.10		ug/L		03/12/14 11:16	03/13/14 09:09	1
PCB-1248	ND		0.10		ug/L		03/12/14 11:16	03/13/14 09:09	1
PCB-1254	ND		0.10		ug/L		03/12/14 11:16	03/13/14 09:09	1
PCB-1260	ND		0.10		ug/L		03/12/14 11:16	03/13/14 09:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*60 - 150*	*03/12/14 11:16*	*03/13/14 09:09*	*1*
DCB Decachlorobiphenyl	*91*		*40 - 135*	*03/12/14 11:16*	*03/13/14 09:09*	*1*

Lab Sample ID: LCS 580-155048/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155052 — **Prep Batch: 155048**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.200	0.183		ug/L		91	25 - 145		
PCB-1260			0.200	0.192		ug/L		96	30 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*82*		*60 - 150*
DCB Decachlorobiphenyl	*78*		*40 - 135*

Lab Sample ID: LCSD 580-155048/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155052 — **Prep Batch: 155048**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.200	0.180		ug/L		90	25 - 145	1	27
PCB-1260			0.200	0.193		ug/L		96	30 - 145	0	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*60 - 150*
DCB Decachlorobiphenyl	*81*		*40 - 135*

Lab Chronicle

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42669-1

Client Sample ID: WM-BD-14-0018 PG — Lab Sample ID: 580-42669-1

Date Collected: 03/10/14 14:23 — **Matrix: Water**
Date Received: 03/11/14 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			155048	03/12/14 11:16	ALC	TAL SEA
Total/NA	Analysis	8082		1	155052	03/13/14 09:49	SGH	TAL SEA

Client Sample ID: WM-BD-14-0019 MG — Lab Sample ID: 580-42669-2

Date Collected: 03/10/14 14:25 — **Matrix: Water**
Date Received: 03/11/14 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			155048	03/12/14 11:16	ALC	TAL SEA
Total/NA	Analysis	8082		1	155052	03/13/14 10:03	SGH	TAL SEA

Client Sample ID: WM-BD-14-0020 DG — Lab Sample ID: 580-42669-3

Date Collected: 03/10/14 14:27 — **Matrix: Water**
Date Received: 03/11/14 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			155048	03/12/14 11:16	ALC	TAL SEA
Total/NA	Analysis	8082		1	155052	03/13/14 10:16	SGH	TAL SEA

Client Sample ID: WM-BD-14-0021 MG — Lab Sample ID: 580-42669-4

Date Collected: 03/10/14 14:25 — **Matrix: Water**
Date Received: 03/11/14 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			155048	03/12/14 11:16	ALC	TAL SEA
Total/NA	Analysis	8082		1	155052	03/13/14 10:30	SGH	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42669-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14 *
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-15

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42669-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42669-1	WM-BD-14-0018 PG	Water	03/10/14 14:23	03/11/14 15:45
580-42669-2	WM-BD-14-0019 MG	Water	03/10/14 14:25	03/11/14 15:45
580-42669-3	WM-BD-14-0020 DG	Water	03/10/14 14:27	03/11/14 15:45
580-42669-4	WM-BD-14-0021 MG	Water	03/10/14 14:25	03/11/14 15:45

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush

☐ Short Hold

Chain of Custody Record

Client: Waste Management	Client Contact: Kevan McCosin	Date: 3-10-14	Chain of Custody Number: 21447
Address: 1684 Hwy 531	Telephone Number (Area Code)/Fax Number: 360-265-5281	Lab Number: 42669	Page 1 of 1
City: Minden; State: LA; Zip Code: 71055	Sampler: GUM	Lab Contact:	
Project Name and Location (State): Boeing Freedyne	Billing Contact: Kevan McCosin		
Contract/Purchase Order/Quote No.:			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Cool	PCB (EPA Method 8082)	Special Instructions/ Conditions of Receipt
WM-BD-~~0018~~ 14-0018 PG	3-10-14	14:23		X									X	X	MDL 0.1 ug/L
WM-BD-14-0019 MG	3-10-14	14:25		X									X	X	MDL 0.1 ug/L
WM-BD-14-0020 DG	3-10-14	14:27		X									X	X	MDL 0.1 ug/L
WM-BD-14-0021 MG	3-10-14	14:25		X									X	X	MDL 0.1 ug/L

580-42669 Chain of Custody

~~Cooler/TB~~ Dig/IR cor 5.2 unc 5.6
Cooler Dsc Med Red/White @ Lab 1545
Wet/Packs Packing Other
w/o

Cooler	Possible Hazard Identification	Sample Disposal	
☐ Yes ☐ No Cooler Temp: ____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☐ Archive For ____ Months	☐ Disposal By Lab (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☒ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other ____

QC Requirements (Specify):

1. Relinquished By Sign/Print: William Minnis	Date: 3/11/14	Time: 7:13	1. Received By Sign/Print: Francisco Luna, Jr.	Date: 3/11/14	Time: 1435
2. Relinquished By Sign/Print:	Date:	Time:	2. Received By Sign/Print:	Date:	Time:
3. Relinquished By Sign/Print:	Date:	Time:	3. Received By Sign/Print:	Date:	Time:

Comments:

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 580-42669-1

Login Number: 42669

List Source: TestAmerica Seattle

List Number: 1

Creator: McDaniel, Ronald T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-42781-1
Client Project/Site: Boeing Dredge

For:
Waste Management
13225 NE 126th Place
Kirkland, Washington 98034

Attn: Kevan McCaslin

Authorized for release by:
3/19/2014 5:14:50 PM
Melissa Armstrong, Project Manager II
(253)922-2310 x135
melissa.armstrong@testamericainc.com

Designee for

Pam Johnson, Project Manager I
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42781-1

Job ID: 580-42781-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 3/18/2014 2:36 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.4º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42781-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42781-1

Client Sample ID: WM-BD-14-0022-MG

Lab Sample ID: 580-42781-1

Date Collected: 03/17/14 14:17

Matrix: Water

Date Received: 03/18/14 14:36

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:26	1
PCB-1221	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:26	1
PCB-1232	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:26	1
PCB-1242	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:26	1
PCB-1248	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:26	1
PCB-1254	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:26	1
PCB-1260	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*60 - 150*	*03/18/14 16:36*	*03/19/14 11:26*	*1*
DCB Decachlorobiphenyl	*75*		*40 - 135*	*03/18/14 16:36*	*03/19/14 11:26*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42781-1

Client Sample ID: WM-BD-14-0023-DG

Lab Sample ID: 580-42781-2

Date Collected: 03/17/14 14:19

Matrix: Water

Date Received: 03/18/14 14:36

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:40	1
PCB-1221	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:40	1
PCB-1232	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:40	1
PCB-1242	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:40	1
PCB-1248	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:40	1
PCB-1254	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:40	1
PCB-1260	ND		0.095		ug/L		03/18/14 16:36	03/19/14 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*60 - 150*	*03/18/14 16:36*	*03/19/14 11:40*	*1*
DCB Decachlorobiphenyl	*70*		*40 - 135*	*03/18/14 16:36*	*03/19/14 11:40*	*1*

QC Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42781-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-155411/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155438 — **Prep Batch: 155411**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		03/18/14 16:36	03/19/14 10:44	1
PCB-1221	ND		0.10		ug/L		03/18/14 16:36	03/19/14 10:44	1
PCB-1232	ND		0.10		ug/L		03/18/14 16:36	03/19/14 10:44	1
PCB-1242	ND		0.10		ug/L		03/18/14 16:36	03/19/14 10:44	1
PCB-1248	ND		0.10		ug/L		03/18/14 16:36	03/19/14 10:44	1
PCB-1254	ND		0.10		ug/L		03/18/14 16:36	03/19/14 10:44	1
PCB-1260	ND		0.10		ug/L		03/18/14 16:36	03/19/14 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*60 - 150*	*03/18/14 16:36*	*03/19/14 10:44*	*1*
DCB Decachlorobiphenyl	*83*		*40 - 135*	*03/18/14 16:36*	*03/19/14 10:44*	*1*

Lab Sample ID: LCS 580-155411/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155438 — **Prep Batch: 155411**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.200	0.172		ug/L		86	25 - 145		
PCB-1260			0.200	0.190		ug/L		95	30 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*82*		*60 - 150*
DCB Decachlorobiphenyl	*80*		*40 - 135*

Lab Sample ID: LCSD 580-155411/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155438 — **Prep Batch: 155411**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.200	0.181		ug/L		90	25 - 145	5	27
PCB-1260			0.200	0.195		ug/L		97	30 - 145	3	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*60 - 150*
DCB Decachlorobiphenyl	*76*		*40 - 135*

Lab Chronicle

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42781-1

Client Sample ID: WM-BD-14-0022-MG

Lab Sample ID: 580-42781-1

Date Collected: 03/17/14 14:17

Matrix: Water

Date Received: 03/18/14 14:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			155411	03/18/14 16:36	ALC	TAL SEA
Total/NA	Analysis	8082		1	155438	03/19/14 11:26	SGH	TAL SEA

Client Sample ID: WM-BD-14-0023-DG

Lab Sample ID: 580-42781-2

Date Collected: 03/17/14 14:19

Matrix: Water

Date Received: 03/18/14 14:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			155411	03/18/14 16:36	ALC	TAL SEA
Total/NA	Analysis	8082		1	155438	03/19/14 11:40	SGH	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42781-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14 *
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-15

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42781-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42781-1	WM-BD-14-0022-MG	Water	03/17/14 14:17	03/18/14 14:36
580-42781-2	WM-BD-14-0023-DG	Water	03/17/14 14:19	03/18/14 14:36

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Tacoma, WA 98424
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Fax 253-922-5047
www.testamericainc.com

☑ Rush
☐ Short Hold

Chain of Custody Record

Client: GEOENGINEERS	Client Contact: STEVE HELVEY	Date: 3/17/14	Chain of Custody Number: 22917
Address: 1101 S. FAUCETT #200	Telephone Number (Area Code)/Fax Number: 253.383.4940	Lab Number	Page 1 of 5
City: TACOMA; State: WA; Zip Code: 98402	Sampler: BMB	Lab Contact	
Project Name and Location (State): SCHNITZER STEEL	Billing Contact		
Contract/Purchase Order/Quote No.: GEI # 1209-002-09			

Analysis (Attach list if more space is needed): (1) NWTPH-Dx; (2) RCRA-8060, RCP-8270, TCLP METALS, HOLD

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	NWTPH-Dx	RCRA-8060	RCP-8270	TCLP METALS	HOLD	Special Instructions/ Conditions of Receipt
SST1-03/17/14-1A	03/17/14	0917				X	1										X	(1) W/ SILICA GEL CLEANUP
SST1-03/17/14-1F		0920															X	
SST1-03/17/14-1C		0923															X	(2) ARSENIC, BARIUM, CADMIUM, CHROMIUM, LEAD, SELENIUM, SILVER, MERCURY, COPPER, NICKEL, ZINC
SST1-03/17/14-1H		0925															X	
SST1-03/17/14-C1-1		0930											X	X	X	X		
SST1-03/17/14-1E		0940															X	
SST1-03/17/14-1B		0945															X	
SST1-03/17/14-1G		0947															X	
SST1-03/17/14-1D		0950															X	
SST1-03/17/14-C1-2		0955											X	X	X	X		
SST1-03/17/14-2A		1010															X	
SST1-03/17/14-2F		1015															X	

580-42781 Chain of Custody

Cooler: ☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By Sign/Print: BRANDON BLAKEWELL	3/17/14	1510	1. Received By Sign/Print: RIT McDANIEL	3-17-14	1510
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments: IR 10.4 LG BLU WH ICE NONE W/ CLIENT D.O. 10.9 | 4.1 LG BLU WH ICE NONE W/O CLIENT D.O. 9.5 9.5

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 580-42781-1

Login Number: 42781

List Source: TestAmerica Seattle

List Number: 1

Creator: McDaniel, Ronald T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-42876-1
Client Project/Site: Boeing Dredge

For:
Waste Management
13225 NE 126th Place
Kirkland, Washington 98034

Attn: Kevan McCaslin

Authorized for release by:
3/27/2014 5:06:19 PM
Cathy Gamble, Project Management Assistant I
(253)922-2310
cathy.gamble@testamericainc.com

Designee for

Pam Johnson, Project Manager I
(253)922-2310 x112
pamr.johnson@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42876-1

Job ID: 580-42876-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 3/24/2014 1:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.2º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42876-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42876-1

Client Sample ID: WM-BD-14-0024-MG

Lab Sample ID: 580-42876-1

Date Collected: 03/24/14 11:38

Matrix: Water

Date Received: 03/24/14 13:30

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		03/25/14 15:31	03/26/14 19:39	1
PCB-1221	ND		0.095		ug/L		03/25/14 15:31	03/26/14 19:39	1
PCB-1232	ND		0.095		ug/L		03/25/14 15:31	03/26/14 19:39	1
PCB-1242	ND		0.095		ug/L		03/25/14 15:31	03/26/14 19:39	1
PCB-1248	ND		0.095		ug/L		03/25/14 15:31	03/26/14 19:39	1
PCB-1254	ND		0.095		ug/L		03/25/14 15:31	03/26/14 19:39	1
PCB-1260	ND		0.095		ug/L		03/25/14 15:31	03/26/14 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*60 - 150*	*03/25/14 15:31*	*03/26/14 19:39*	*1*
DCB Decachlorobiphenyl	*71*		*40 - 135*	*03/25/14 15:31*	*03/26/14 19:39*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42876-1

Client Sample ID: WM-BD-14-0025-DG

Lab Sample ID: 580-42876-2

Date Collected: 03/24/14 11:39

Matrix: Water

Date Received: 03/24/14 13:30

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094		ug/L		03/25/14 15:31	03/26/14 19:52	1
PCB-1221	ND		0.094		ug/L		03/25/14 15:31	03/26/14 19:52	1
PCB-1232	ND		0.094		ug/L		03/25/14 15:31	03/26/14 19:52	1
PCB-1242	ND		0.094		ug/L		03/25/14 15:31	03/26/14 19:52	1
PCB-1248	ND		0.094		ug/L		03/25/14 15:31	03/26/14 19:52	1
PCB-1254	ND		0.094		ug/L		03/25/14 15:31	03/26/14 19:52	1
PCB-1260	ND		0.094		ug/L		03/25/14 15:31	03/26/14 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*60 - 150*	*03/25/14 15:31*	*03/26/14 19:52*	*1*
DCB Decachlorobiphenyl	*76*		*40 - 135*	*03/25/14 15:31*	*03/26/14 19:52*	*1*

QC Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42876-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-155840/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155942 — **Prep Batch: 155840**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		03/25/14 15:31	03/26/14 18:59	1
PCB-1221	ND		0.10		ug/L		03/25/14 15:31	03/26/14 18:59	1
PCB-1232	ND		0.10		ug/L		03/25/14 15:31	03/26/14 18:59	1
PCB-1242	ND		0.10		ug/L		03/25/14 15:31	03/26/14 18:59	1
PCB-1248	ND		0.10		ug/L		03/25/14 15:31	03/26/14 18:59	1
PCB-1254	ND		0.10		ug/L		03/25/14 15:31	03/26/14 18:59	1
PCB-1260	ND		0.10		ug/L		03/25/14 15:31	03/26/14 18:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*60 - 150*	*03/25/14 15:31*	*03/26/14 18:59*	*1*
DCB Decachlorobiphenyl	*58*		*40 - 135*	*03/25/14 15:31*	*03/26/14 18:59*	*1*

Lab Sample ID: LCS 580-155840/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155942 — **Prep Batch: 155840**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.200	0.169		ug/L		85	25 - 145		
PCB-1260			0.200	0.181		ug/L		91	30 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*96*		*60 - 150*
DCB Decachlorobiphenyl	*64*		*40 - 135*

Lab Sample ID: LCSD 580-155840/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 155942 — **Prep Batch: 155840**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.200	0.170		ug/L		85	25 - 145	1	27
PCB-1260			0.200	0.181		ug/L		90	30 - 145	0	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*90*		*60 - 150*
DCB Decachlorobiphenyl	*64*		*40 - 135*

Lab Chronicle

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42876-1

Client Sample ID: WM-BD-14-0024-MG

Lab Sample ID: 580-42876-1

Date Collected: 03/24/14 11:38

Matrix: Water

Date Received: 03/24/14 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			155840	03/25/14 15:31	RBL	TAL SEA
Total/NA	Analysis	8082		1	155942	03/26/14 19:39	EKK	TAL SEA

Client Sample ID: WM-BD-14-0025-DG

Lab Sample ID: 580-42876-2

Date Collected: 03/24/14 11:39

Matrix: Water

Date Received: 03/24/14 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			155840	03/25/14 15:31	RBL	TAL SEA
Total/NA	Analysis	8082		1	155942	03/26/14 19:52	EKK	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42876-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14 *
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-15

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42876-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42876-1	WM-BD-14-0024-MG	Water	03/24/14 11:38	03/24/14 13:30
580-42876-2	WM-BD-14-0025-DG	Water	03/24/14 11:39	03/24/14 13:30

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Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

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☐ Short Hold

Chain of Custody Record

Client: WASTE MANAGEMENT	Client Contact: KEVAN McCASLIN	Date: 3/24/14	Chain of Custody Number: 21449
Address: 1634 HWY 531	Telephone Number (Area Code)/Fax Number: 360-265-5281	Lab Number: 42876	Page 1 of 1
City: MINDEN; State: LA; Zip Code: 71055	Sampler: WVM	Lab Contact:	
Project Name and Location (State): BOEING DREDGE	Billing Contact: KEVAN McCASLIN		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): PCB (EPA METHOD 8082)

Special Instructions/ Conditions of Receipt

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	COOL	PCB	Special Instructions/ Conditions of Receipt
WM-BD-14-0024-MG	3/24/14	11:38		X									X	X	MDL 0.1 ug/L
WM-BD-14-0025-DG	3/24/14	11:39		X									X	X	MDL 0.1 ug/L

580-42876 Chain of Custody

~~Cooler/TB~~ Dig/IR cor 5.2°C unc 5.3°C
Cooler Dsc Med Sed/Water @ Lab 1330
Wet/Packs Packing Other
W/O

Cooler: ☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☒ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By Sign/Print: William Morris	3/24/14	12:00	1. Received By Sign/Print: Francisco Lunes Jr.	3/24/14	~~1345~~ 1245
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 580-42876-1

Login Number: 42876

List Source: TestAmerica Seattle

List Number: 1

Creator: McDaniel, Ronald T

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-42985-1
Client Project/Site: Boeing Dredge

For:
Waste Management
13225 NE 126th Place
Kirkland, Washington 98034

Attn: Kevan McCaslin

Authorized for release by:
4/2/2014 5:41:31 PM
Kim Presley, Project Management Assistant I
(253)922-2310
kim.presley@testamericainc.com

Designee for

Pam Johnson, Project Manager I
(253)922-2310 x112
pamr.johnson@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42985-1

Job ID: 580-42985-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 3/31/2014 2:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 6.0º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42985-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42985-1

Client Sample ID: WM-BD-14-0026-MG

Lab Sample ID: 580-42985-1

Date Collected: 03/31/14 12:00

Matrix: Water

Date Received: 03/31/14 14:45

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.095		ug/L		04/01/14 11:53	04/02/14 13:53	1
PCB-1221	ND		0.095		ug/L		04/01/14 11:53	04/02/14 13:53	1
PCB-1232	ND		0.095		ug/L		04/01/14 11:53	04/02/14 13:53	1
PCB-1242	ND		0.095		ug/L		04/01/14 11:53	04/02/14 13:53	1
PCB-1248	ND		0.095		ug/L		04/01/14 11:53	04/02/14 13:53	1
PCB-1254	ND		0.095		ug/L		04/01/14 11:53	04/02/14 13:53	1
PCB-1260	ND		0.095		ug/L		04/01/14 11:53	04/02/14 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*60 - 150*	*04/01/14 11:53*	*04/02/14 13:53*	*1*
DCB Decachlorobiphenyl	*59*		*40 - 135*	*04/01/14 11:53*	*04/02/14 13:53*	*1*

Client Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42985-1

Client Sample ID: WM-BD-14-0027-DG

Lab Sample ID: 580-42985-2

Date Collected: 03/31/14 12:05

Matrix: Water

Date Received: 03/31/14 14:45

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094		ug/L		04/01/14 11:53	04/02/14 14:06	1
PCB-1221	ND		0.094		ug/L		04/01/14 11:53	04/02/14 14:06	1
PCB-1232	ND		0.094		ug/L		04/01/14 11:53	04/02/14 14:06	1
PCB-1242	ND		0.094		ug/L		04/01/14 11:53	04/02/14 14:06	1
PCB-1248	ND		0.094		ug/L		04/01/14 11:53	04/02/14 14:06	1
PCB-1254	ND		0.094		ug/L		04/01/14 11:53	04/02/14 14:06	1
PCB-1260	ND		0.094		ug/L		04/01/14 11:53	04/02/14 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*60 - 150*	*04/01/14 11:53*	*04/02/14 14:06*	*1*
DCB Decachlorobiphenyl	*62*		*40 - 135*	*04/01/14 11:53*	*04/02/14 14:06*	*1*

QC Sample Results

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42985-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-156241/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 156312 — **Prep Batch: 156241**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		04/01/14 11:53	04/02/14 13:13	1
PCB-1221	ND		0.10		ug/L		04/01/14 11:53	04/02/14 13:13	1
PCB-1232	ND		0.10		ug/L		04/01/14 11:53	04/02/14 13:13	1
PCB-1242	ND		0.10		ug/L		04/01/14 11:53	04/02/14 13:13	1
PCB-1248	ND		0.10		ug/L		04/01/14 11:53	04/02/14 13:13	1
PCB-1254	ND		0.10		ug/L		04/01/14 11:53	04/02/14 13:13	1
PCB-1260	ND		0.10		ug/L		04/01/14 11:53	04/02/14 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*60 - 150*	*04/01/14 11:53*	*04/02/14 13:13*	*1*
DCB Decachlorobiphenyl	*82*		*40 - 135*	*04/01/14 11:53*	*04/02/14 13:13*	*1*

Lab Sample ID: LCS 580-156241/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 156312 — **Prep Batch: 156241**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.200	0.163		ug/L		82	25 - 145		
PCB-1260			0.200	0.192		ug/L		96	30 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*60 - 150*
DCB Decachlorobiphenyl	*82*		*40 - 135*

Lab Sample ID: LCSD 580-156241/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 156312 — **Prep Batch: 156241**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.200	0.147		ug/L		73	25 - 145	10	27
PCB-1260			0.200	0.167		ug/L		83	30 - 145	14	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*66*		*60 - 150*
DCB Decachlorobiphenyl	*74*		*40 - 135*

Lab Chronicle

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42985-1

Client Sample ID: WM-BD-14-0026-MG

Lab Sample ID: 580-42985-1

Date Collected: 03/31/14 12:00

Matrix: Water

Date Received: 03/31/14 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156241	04/01/14 11:53	ALC	TAL SEA
Total/NA	Analysis	8082		1	156312	04/02/14 13:53	EKK	TAL SEA

Client Sample ID: WM-BD-14-0027-DG

Lab Sample ID: 580-42985-2

Date Collected: 03/31/14 12:05

Matrix: Water

Date Received: 03/31/14 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			156241	04/01/14 11:53	ALC	TAL SEA
Total/NA	Analysis	8082		1	156312	04/02/14 14:06	EKK	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42985-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14 *
California	NELAP	9	01115CA	01-31-14 *
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-15

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

Client: Waste Management
Project/Site: Boeing Dredge

TestAmerica Job ID: 580-42985-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-42985-1	WM-BD-14-0026-MG	Water	03/31/14 12:00	03/31/14 14:45
580-42985-2	WM-BD-14-0027-DG	Water	03/31/14 12:05	03/31/14 14:45

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www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

4/2/2014

Client: WASTE MANAGEMENT	Client Contact: KEVAN McCASLIN	Date: 3/31/14	Chain of Custody Number: 21450
Address: 1634 HWY 531	Telephone Number (Area Code)/Fax Number: 360-265-5281	Lab Number: 42985	Page 1 of 1
City: MINDEN; State: LA; Zip Code: 71055	Sampler: WVM	Lab Contact:	Analysis (Attach list if more space is needed):
Project Name and Location (State): BOEING DREDGE	Billing Contact: KEVAN McCASLIN		
Contract/Purchase Order/Quote No.:			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Cool	PCB (EPA METHOD 8082)	Special Instructions/ Conditions of Receipt
WM-BD-14-0026-MG	3/31/14	1200		X									X	X	MDL 0.1 ug/L
WM-BD-14-0027-DG	3/31/14	1205		X									X	X	MDL 0.1 ug/L

580-42985 Chain of Custody

~~Cooler/TB~~ Dig/IR cor 6.0° unc 6.2°
Cooler Dsc Med Red/wet @ Lab 435
Wet/Packs Packing Other
w/o

Cooler: ☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☒ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify):

Relinquished By (Sign/Print)	Date	Time	Received By (Sign/Print)	Date	Time
1. William Morris	3/31/14	1217	1. Francisco Luna, Jr.	3/31/14	1338
2.			2.		
3.			3.		

Comments:

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 580-42985-1

Login Number: 42985

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom X

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	