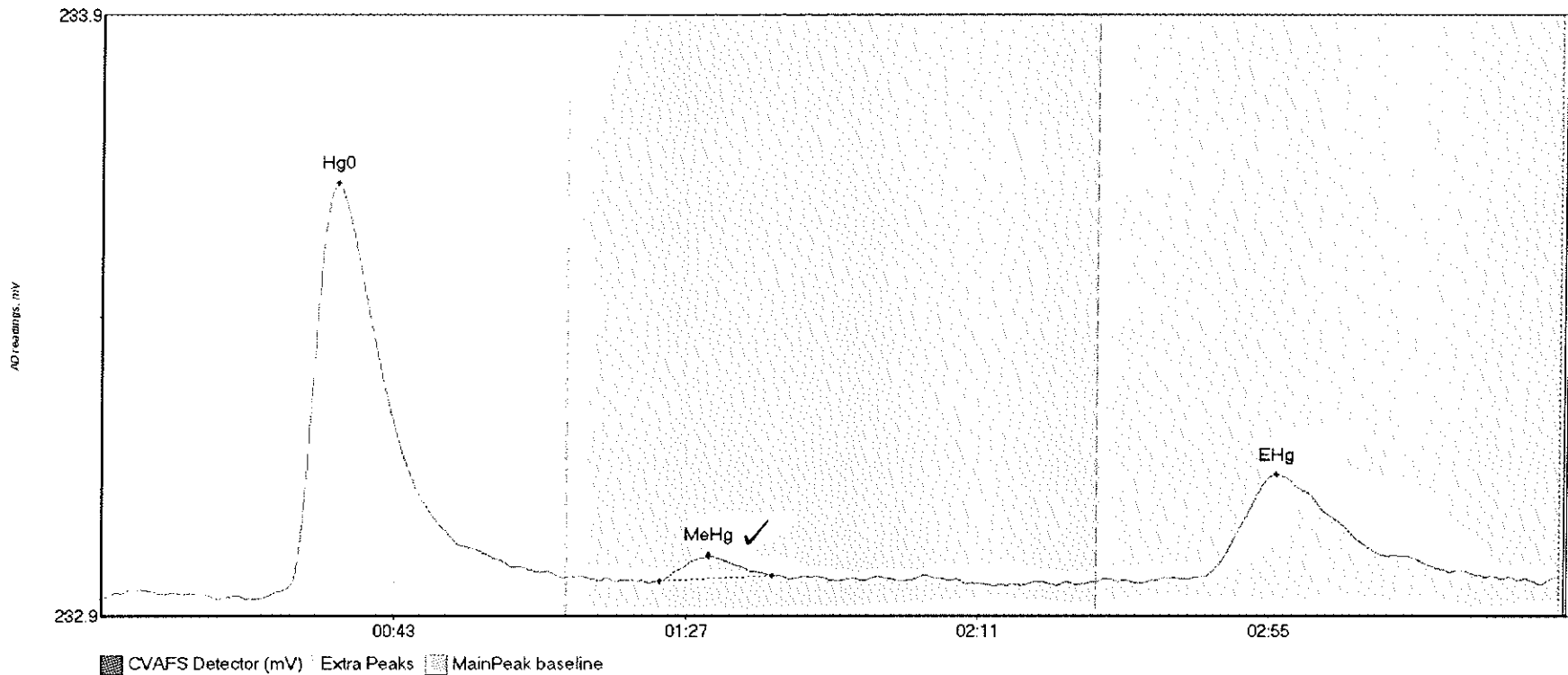
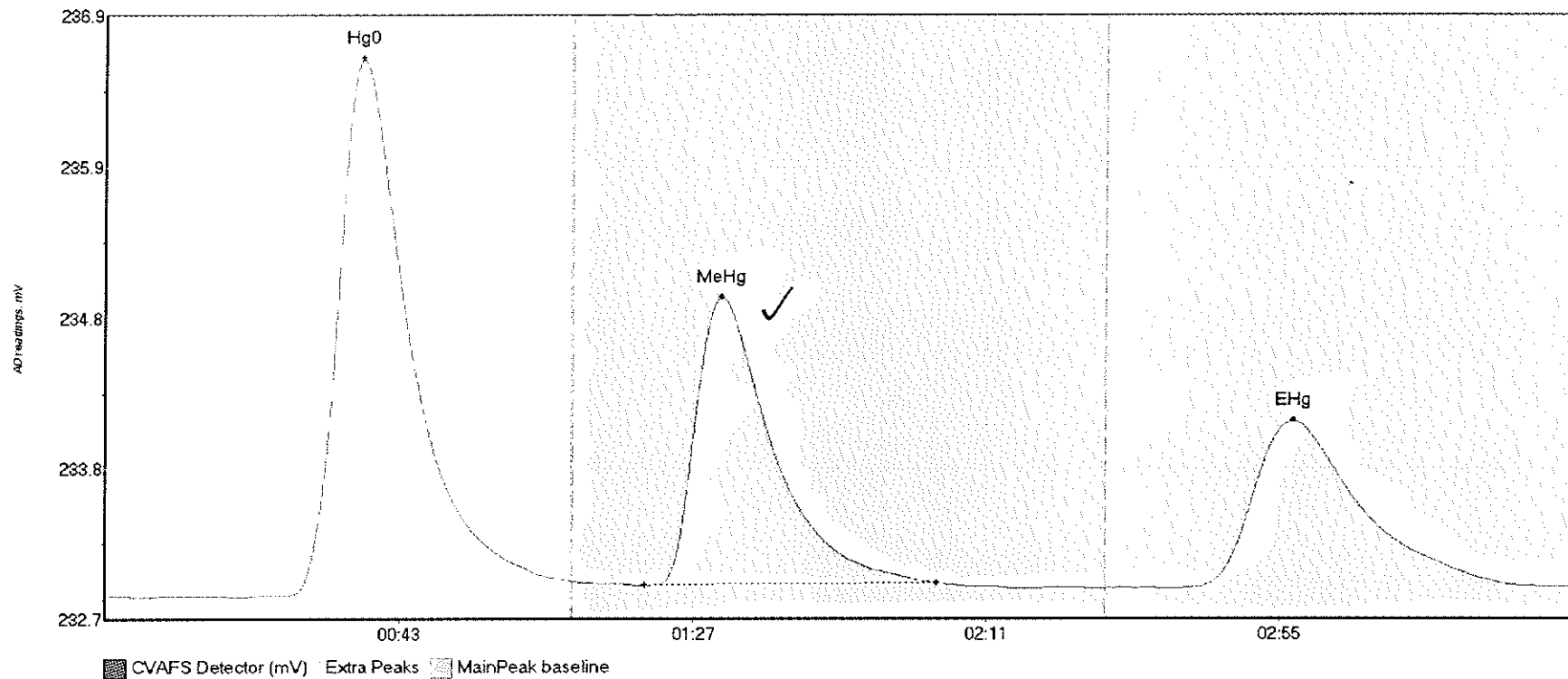


#49: 1610785-05



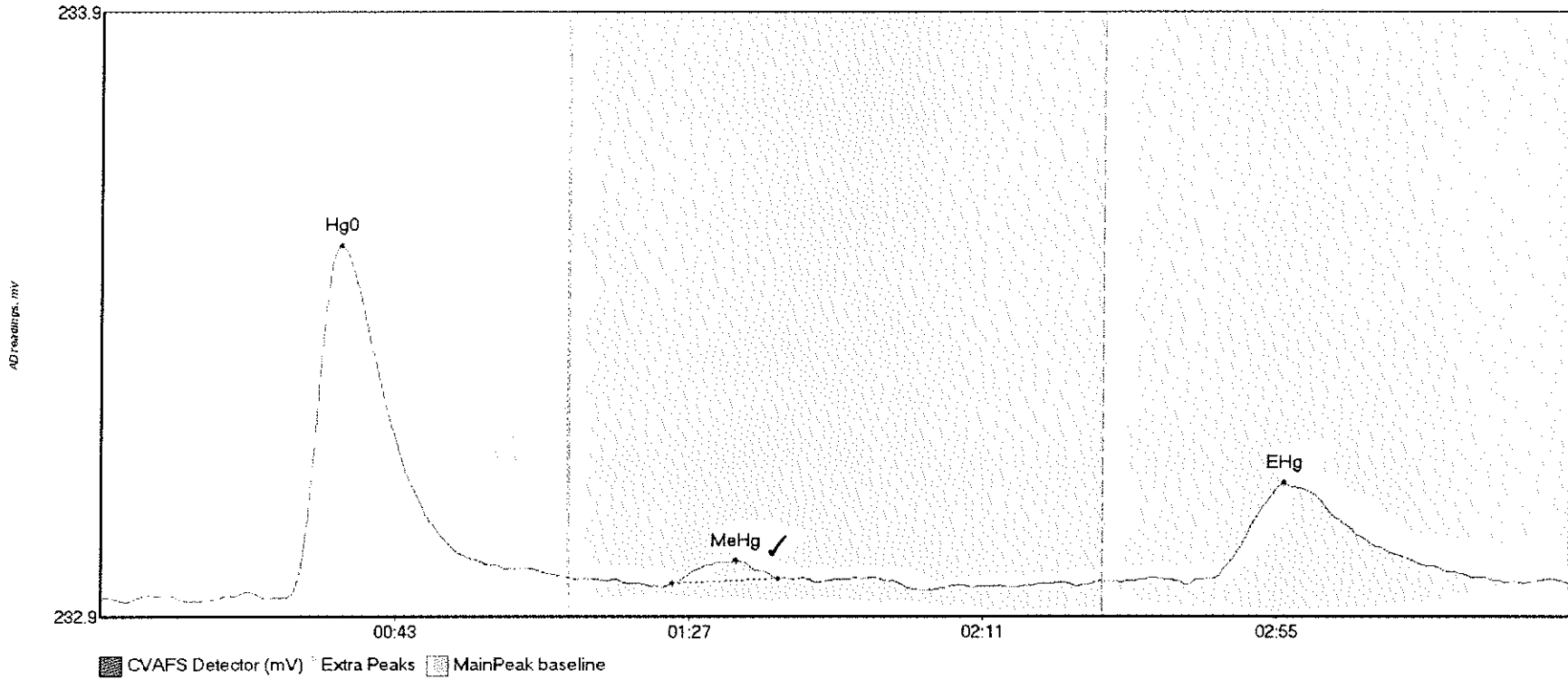
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1610785-05 Hg0	87.816	23.9	69.5	232.90	232.93	35.4	0.691	OK	232.9005	0.00	0.03	
1610785-05 MeHg	3.313	84.0	101.0	232.93	232.94	91.5	0.041	OK	232.9005	0.00	0.03	
1610785-05 EHg	30.761	163.7	211.1	232.93	232.93	177.2	0.174	OK	232.9005	0.00	0.03	

#50: SEQ-CCV3



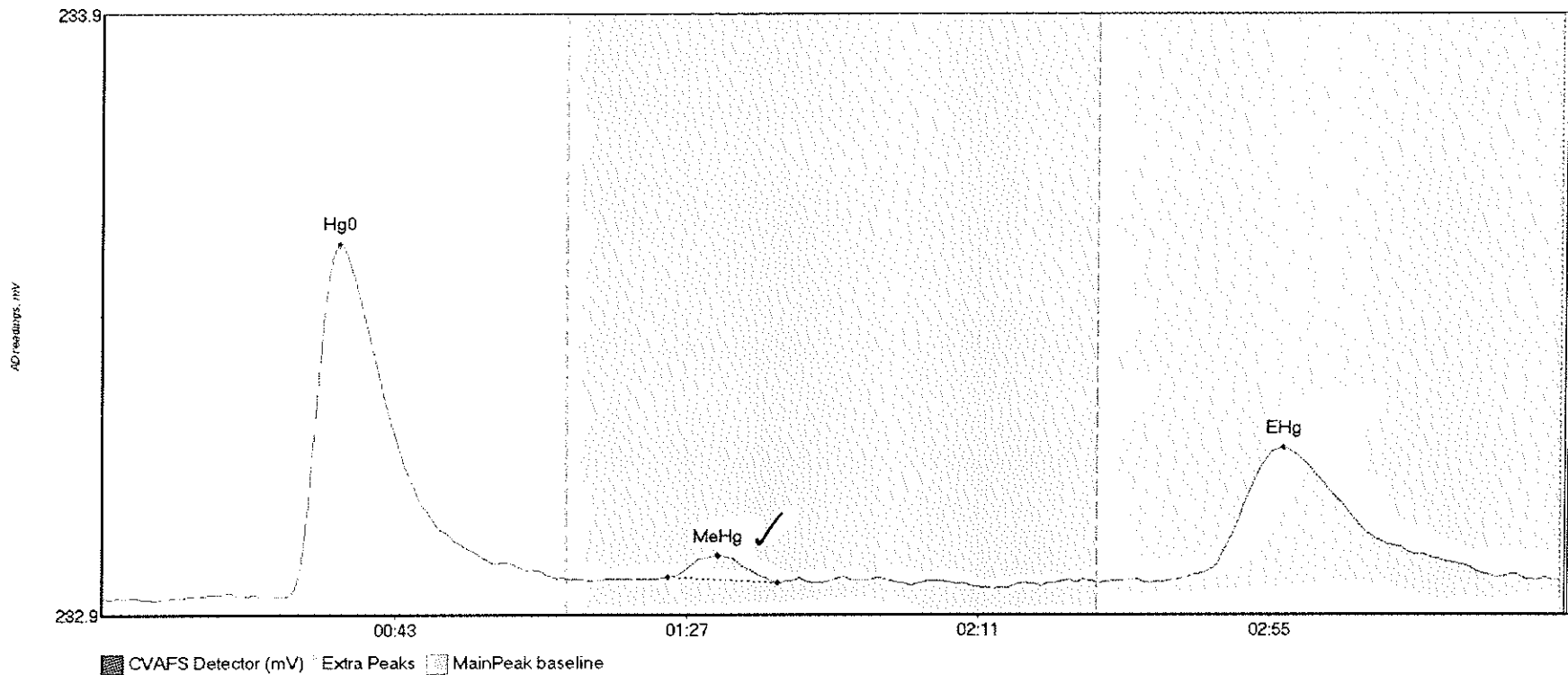
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
SEQ-CCV3 Hg0	461.165	27.6	69.9	232.90	233.00	38.5	3.726	CT	232.9012	0.00	0.07	
SEQ-CCV3 MeHg	267.437	80.7	124.6	232.97	232.99	92.2	2.001	OK	232.9012	0.00	0.07	
SEQ-CCV3 EHg	214.816	161.0	216.0	232.95	232.96	178.0	1.164	OK	232.9012	0.00	0.07	

#51: SEQ-CCB3



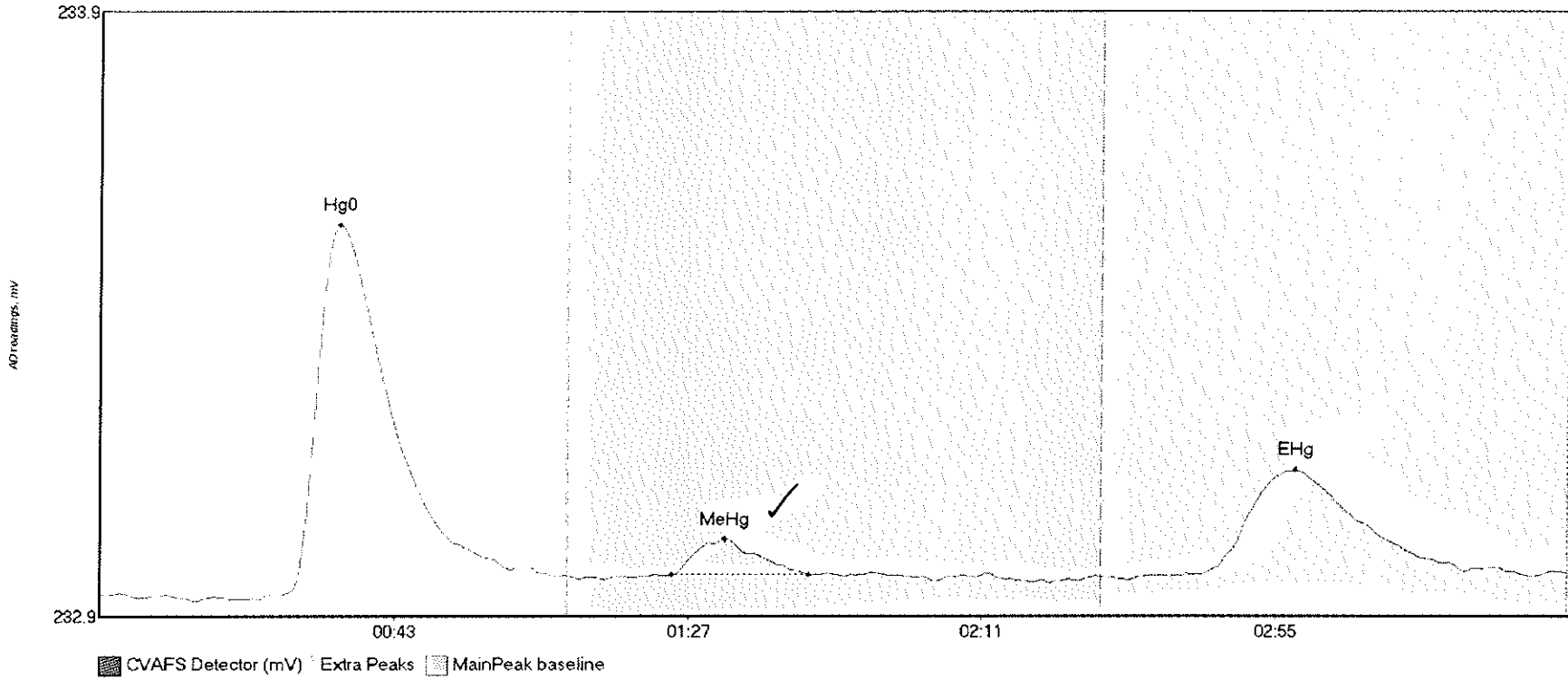
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB3 Hg0	72.963	27.3	69.9	232.90	232.93	35.9	0.582	CF	232.8977	0.00	0.02	
SEQ-CCB3 MeHg	3.307	85.4	101.3	232.92	232.93	95.0	0.039	OK	232.8977	0.00	0.02	
SEQ-CCB3 EHg	28.078	166.5	208.7	232.93	232.93	177.2	0.157	OK	232.8977	0.00	0.02	

#52: 1610786-12



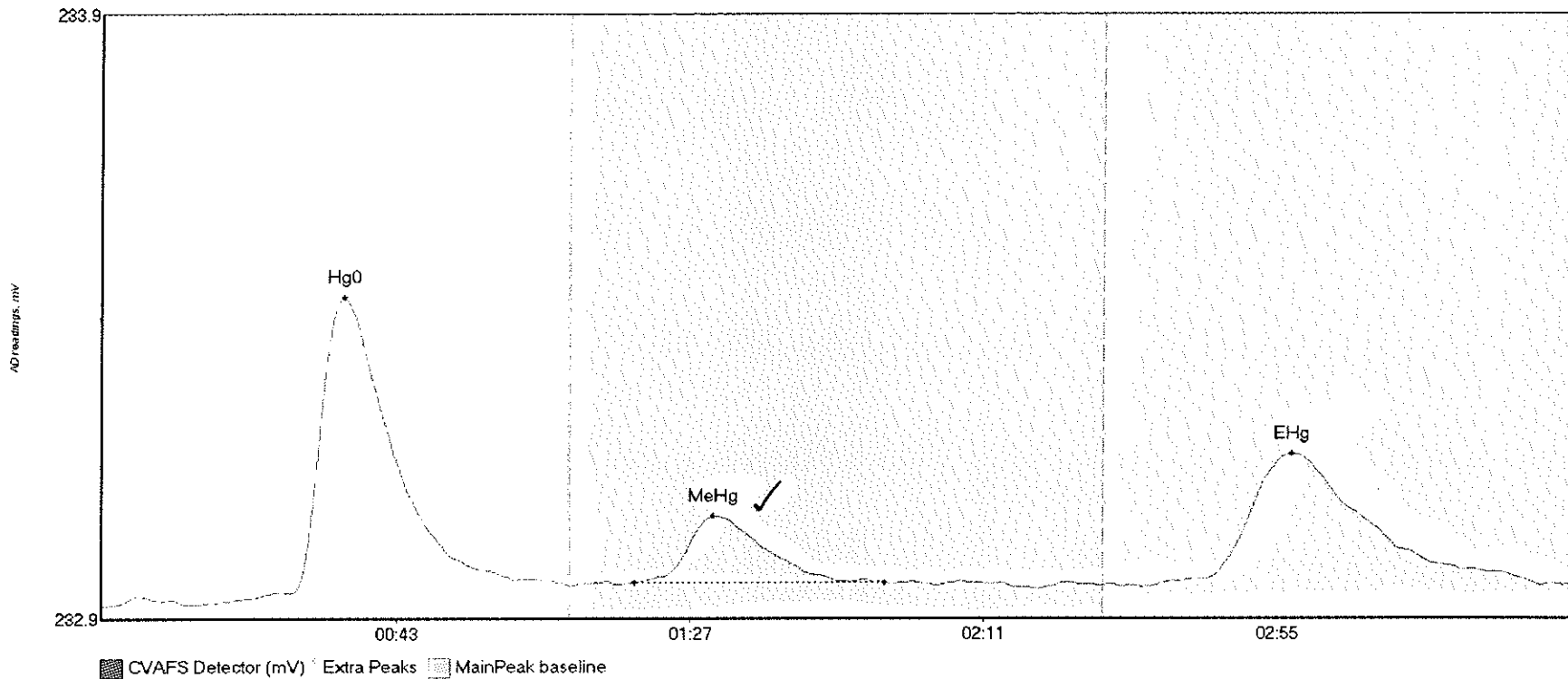
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1610786-12 Hg0	76.021	27.2	69.9	232.90	232.93	35.6	0.587	CT	232.8970	0.00	0.03	
1610786-12 MeHg	3.702	85.2	101.7	232.93	232.92	92.8	0.036	OK	232.8970	0.00	0.03	
1610786-12 EHg	42.882	160.5	214.9	232.93	232.93	178.2	0.223	OK	232.8970	0.00	0.03	

#53: 1610828-10



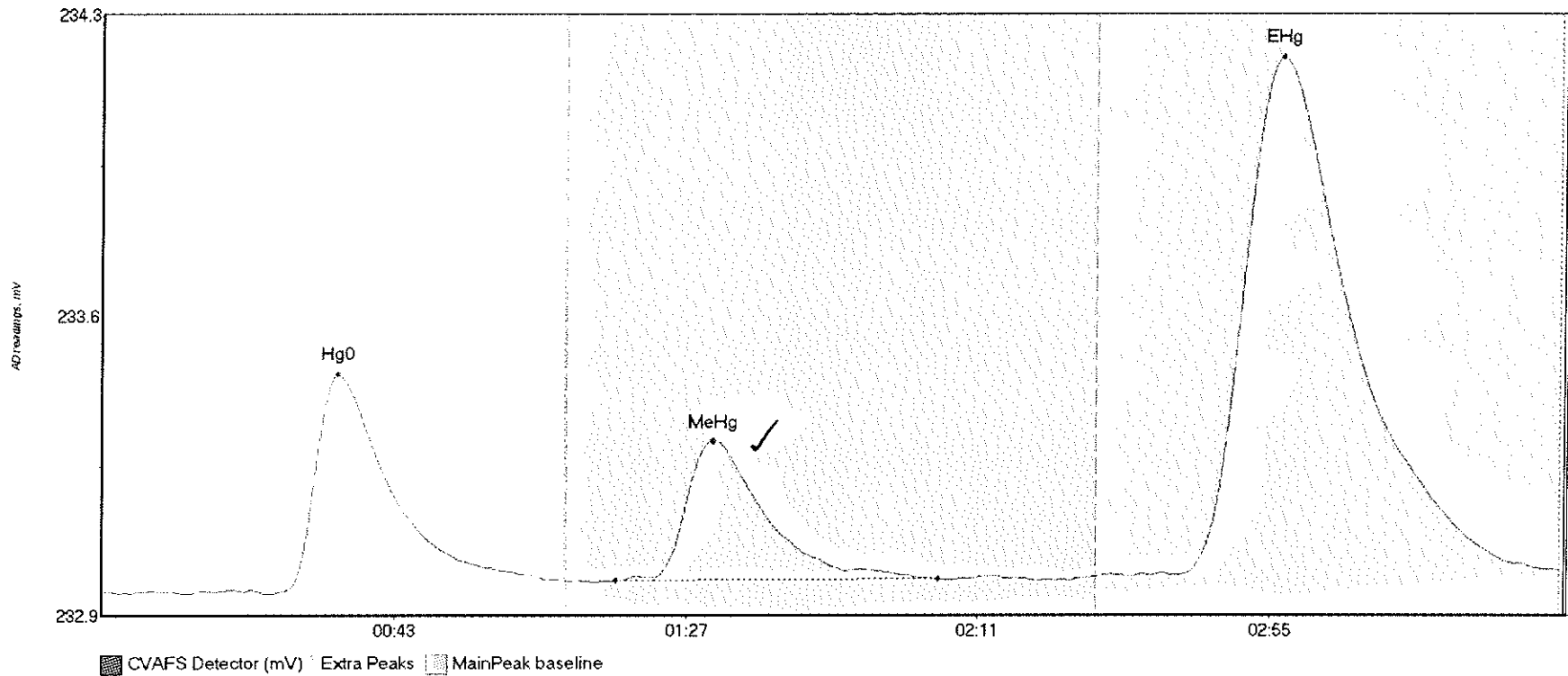
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1610828-10 Hg0	77.829	26.8	68.3	232.89	232.93	35.7	0.614	OK	232.8965	0.00	0.04	
1610828-10 MeHg	6.178	85.4	106.0	232.93	232.93	93.5	0.059	OK	232.8965	0.00	0.04	
1610828-10 EHg	33.920	161.8	214.5	232.93	232.93	179.1	0.174	OK	232.8965	0.00	0.04	

#54: 1610860-12



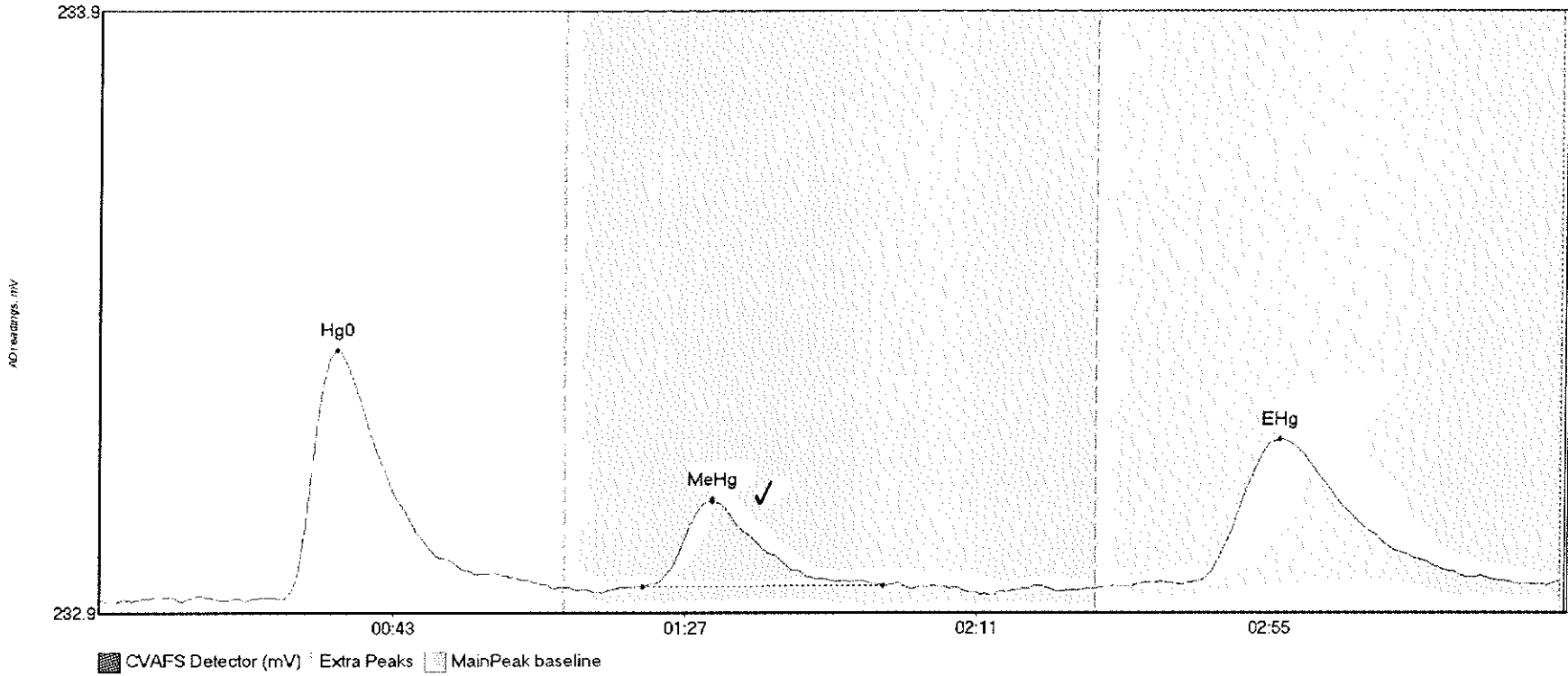
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1610860-12 Hg0	63.356	15.4	69.9	232.90	232.93	36.1	0.508	CT	232.8921	0.00	0.04	
1610860-12 MeHg	14.710	79.8	117.2	232.93	232.93	91.5	0.110	OK	232.8921	0.00	0.04	
1610860-12 EHg	44.808	157.3	215.6	232.93	232.93	178.2	0.219	OK	232.8921	0.00	0.04	

#55: 1610860-13



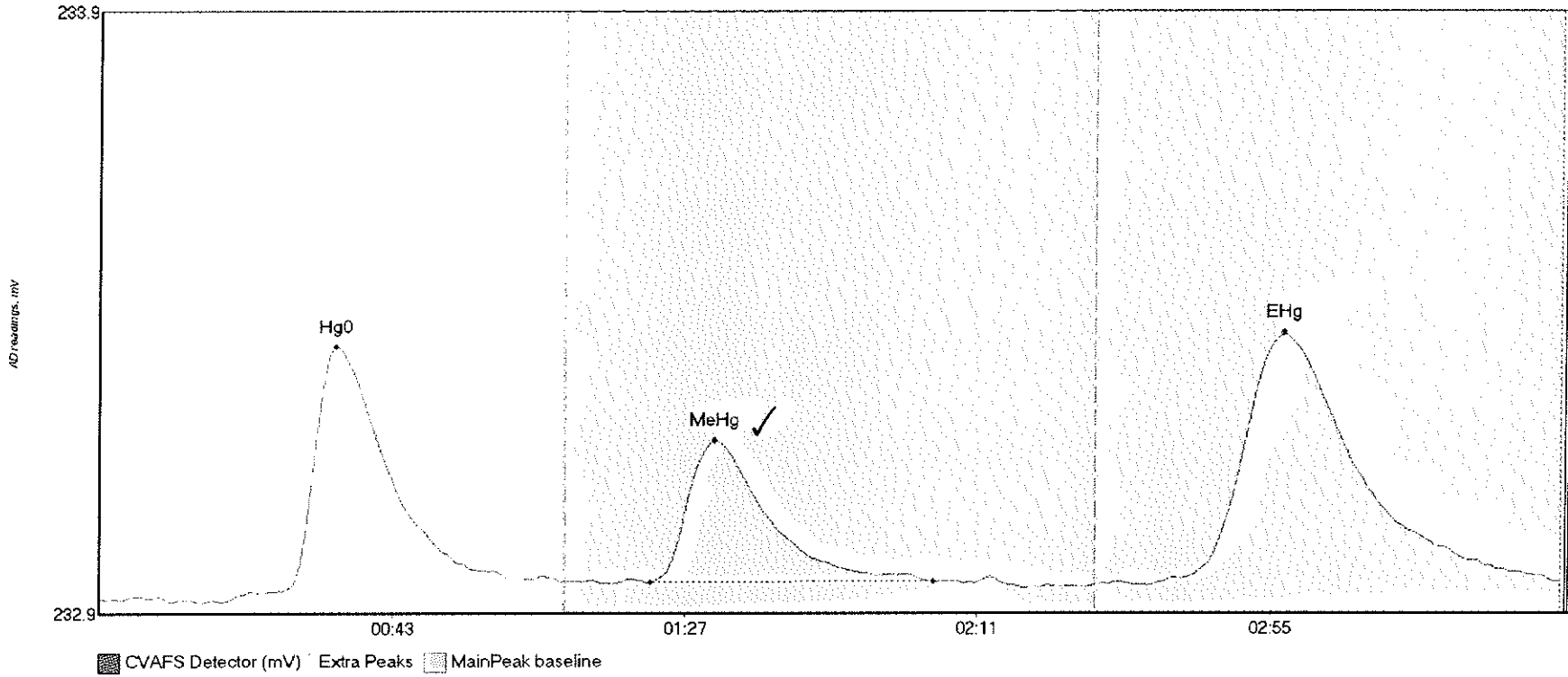
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1610860-13 Hg0	69.403	26.6	69.9	232.91	232.94	35.5	0.536	CF	232.9112	0.00	0.05	
1610860-13 MeHg	47.745	77.5	126.1	232.94	232.94	92.0	0.345	OK	232.9112	0.00	0.05	
1610860-13 EHg	239.161	162.2	219.6	232.95	232.97	177.7	1.269	OK	232.9112	0.00	0.05	

#56: 1610860-14



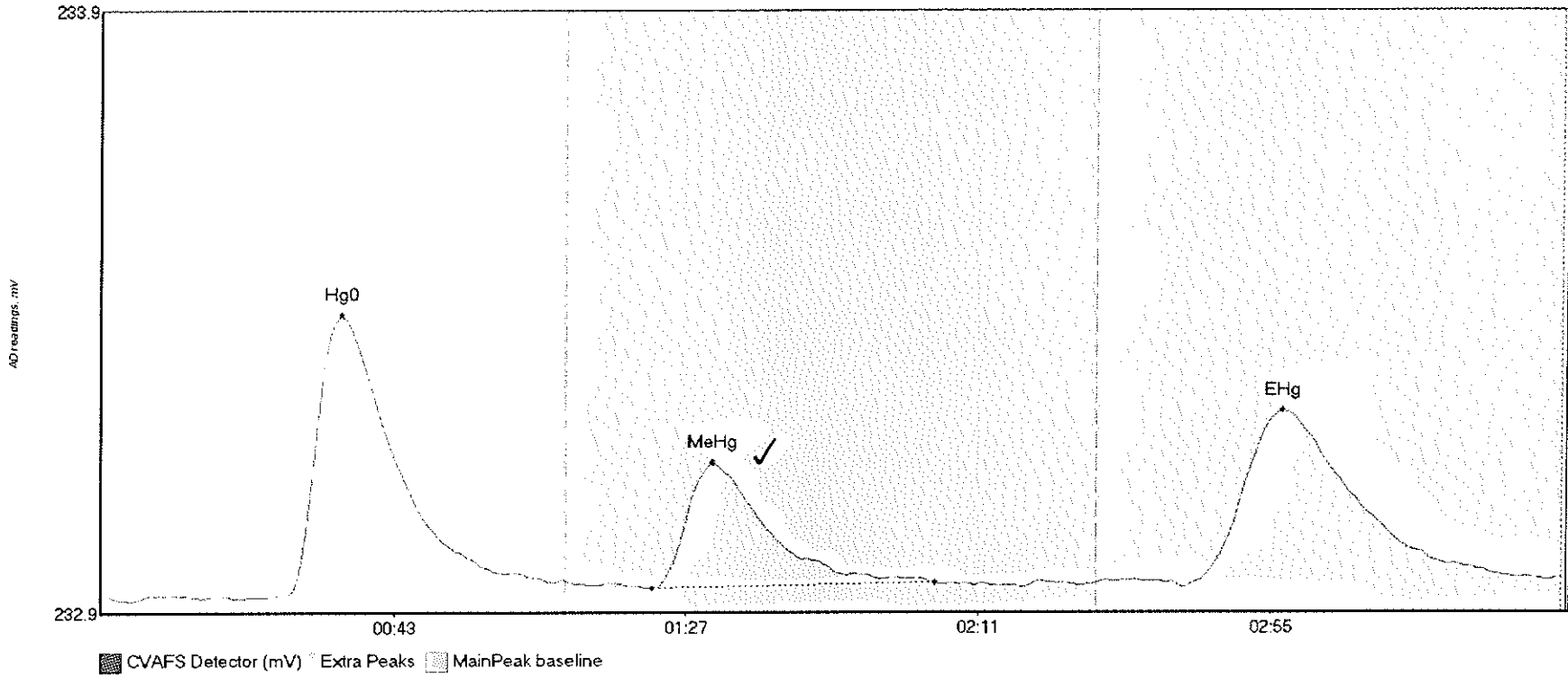
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BJDev	BJShift	Comment
1610860-14 Hg0	53.408	27.2	68.5	232.92	232.94	35.6	0.416	OK	232.9229	0.00	0.03	
1610860-14 MeHg	17.966	81.7	117.9	232.95	232.95	92.1	0.142	OK	232.9229	0.00	0.03	
1610860-14 EHg	46.274	162.5	217.8	232.95	232.95	177.6	0.241	OK	232.9229	0.00	0.03	

#57: 1610860-15



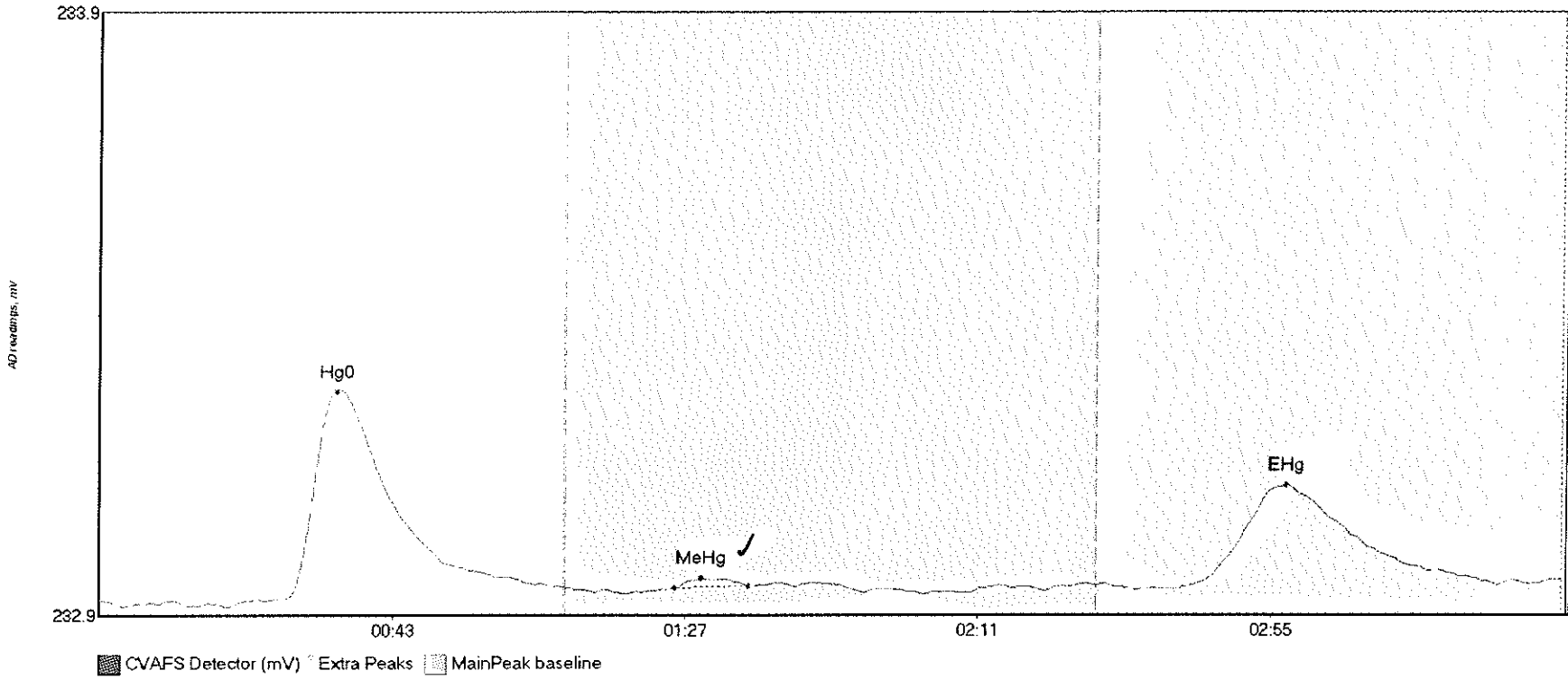
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1610860-15 Hg0	54.792	18.9	69.5	232.93	232.96	35.5	0.425	OK	232.9308	0.00	0.03	
1610860-15 MeHg	32.718	82.9	125.5	232.96	232.96	92.5	0.237	OK	232.9308	0.00	0.03	
1610860-15 EHg	80.340	159.4	218.9	232.96	232.96	178.1	0.413	OK	232.9308	0.00	0.03	

#58: 1610860-16



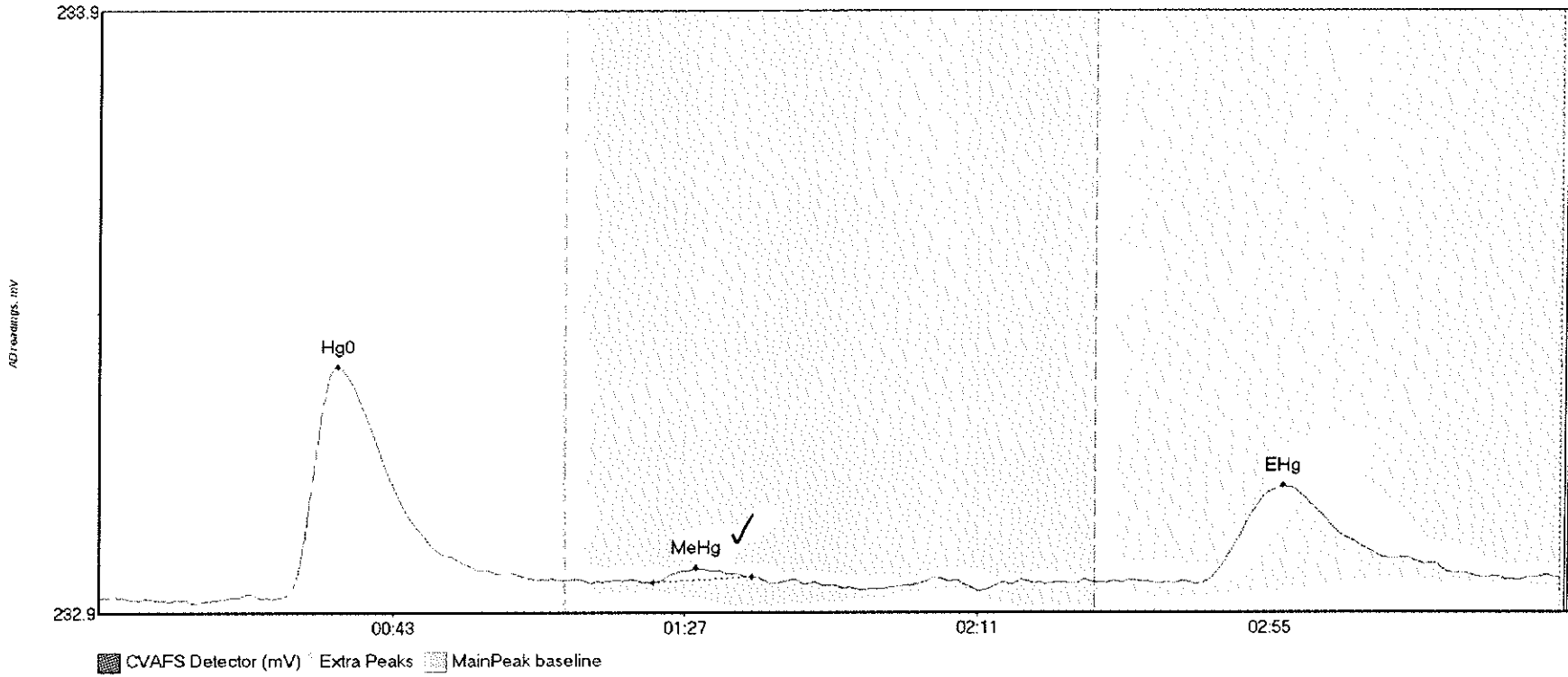
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1610860-16 Hg0	61.144	28.0	68.5	232.94	232.96	36.1	0.463	OK	232.9416	0.00	0.03	
1610860-16 MeHg	28.546	83.0	125.5	232.96	232.96	92.0	0.207	OK	232.9416	0.00	0.03	
1610860-16 EHg	55.795	163.0	217.7	232.96	232.97	177.8	0.293	OK	232.9416	0.00	0.03	

#59: 1610860-17



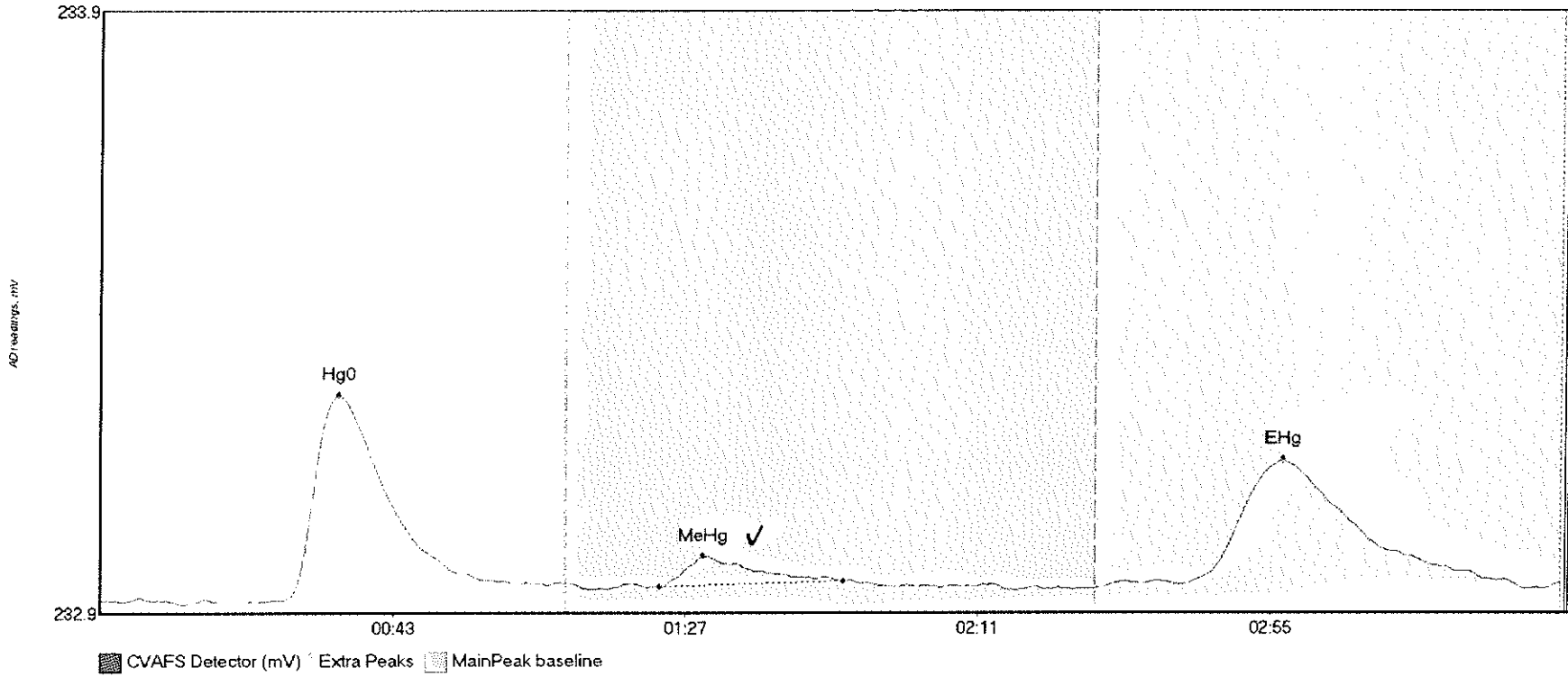
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1610860-17 Hg0	45.099	27.9	69.9	232.95	232.97	35.7	0.349	CT	232.9461	0.00	0.04	
1610860-17 MeHg	1.045	86.4	97.5	232.97	232.97	90.4	0.016	OK	232.9461	0.00	0.04	
1610860-17 EHg	30.179	163.7	208.4	232.97	232.98	178.3	0.167	OK	232.9461	0.00	0.04	

#60: 1610860-18



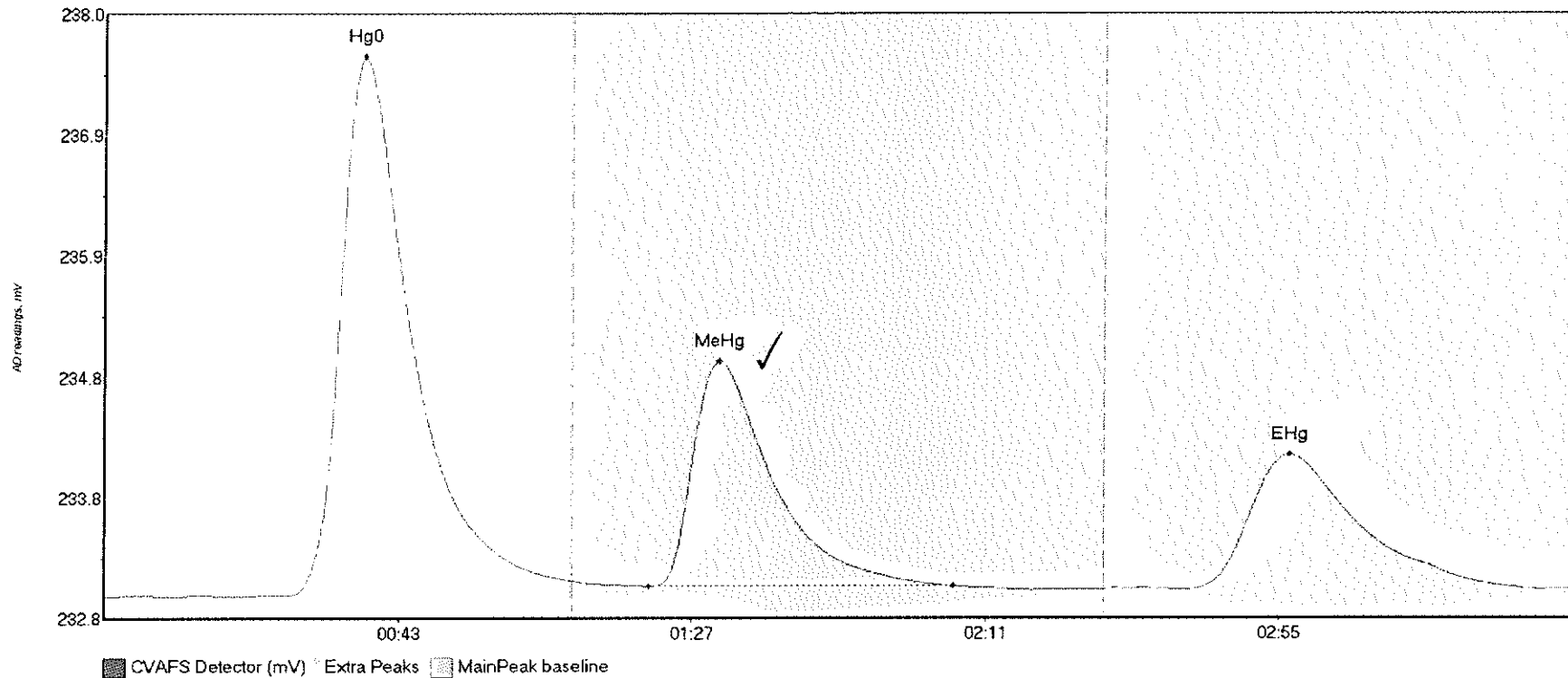
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1610860-18 Hg0	50.440	25.9	69.5	232.94	232.97	35.7	0.387	OK	232.9442	0.00	0.03	
1610860-18 MeHg	1.655	83.3	98.0	232.97	232.98	29.8	0.025	OK	232.9442	0.00	0.03	
1610860-18 EHg	29.184	165.1	212.0	232.97	232.97	178.0	0.162	OK	232.9442	0.00	0.03	

#61: 1611168-01



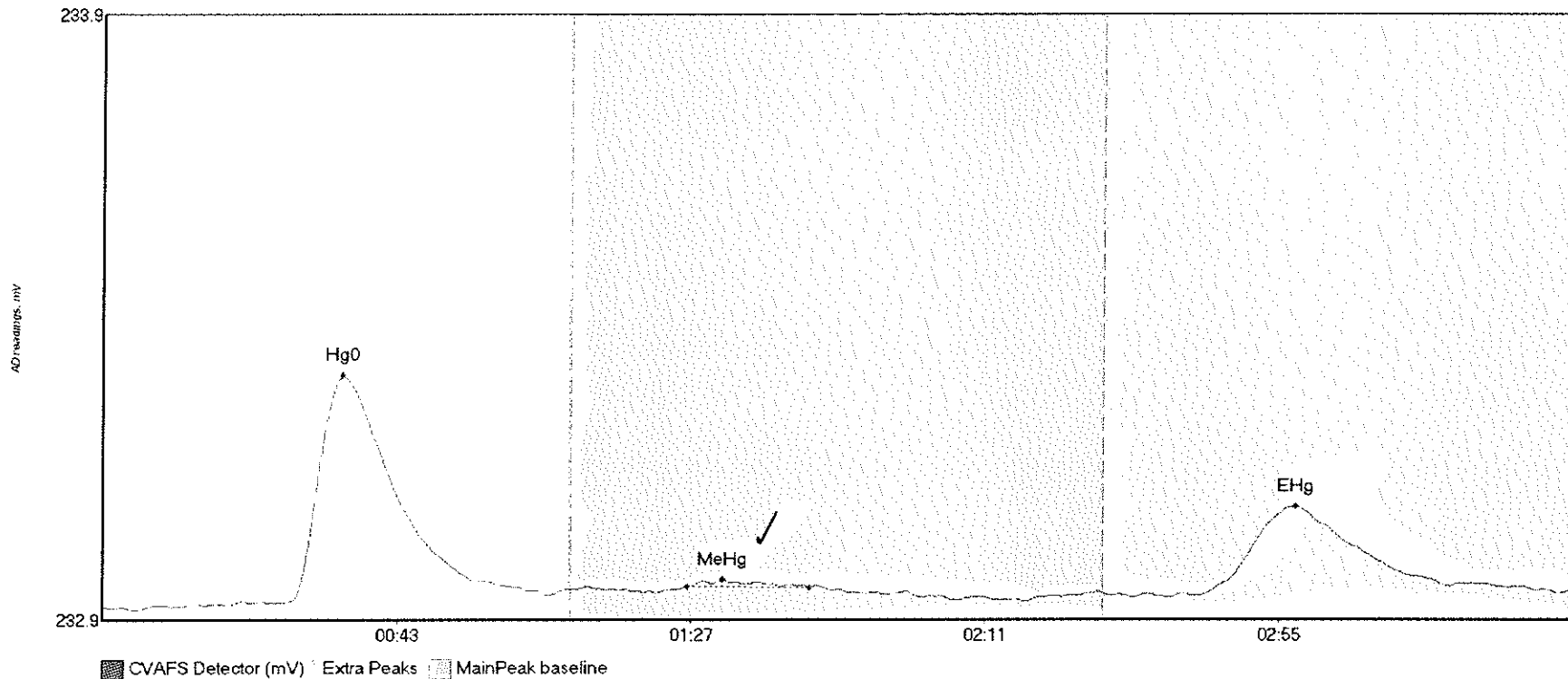
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1611168-01 Hg0	42.368	27.2	67.1	232.95	232.98	35.8	0.343	OK	232.9527	0.00	0.03	
1611168-01 MeHg	5.701	84.2	111.8	232.98	232.99	90.8	0.052	OK	232.9527	0.00	0.03	
1611168-01 EHg	41.510	163.3	214.6	232.98	232.97	177.9	0.205	OK	232.9527	0.00	0.03	

#62: SEQ-CCV4



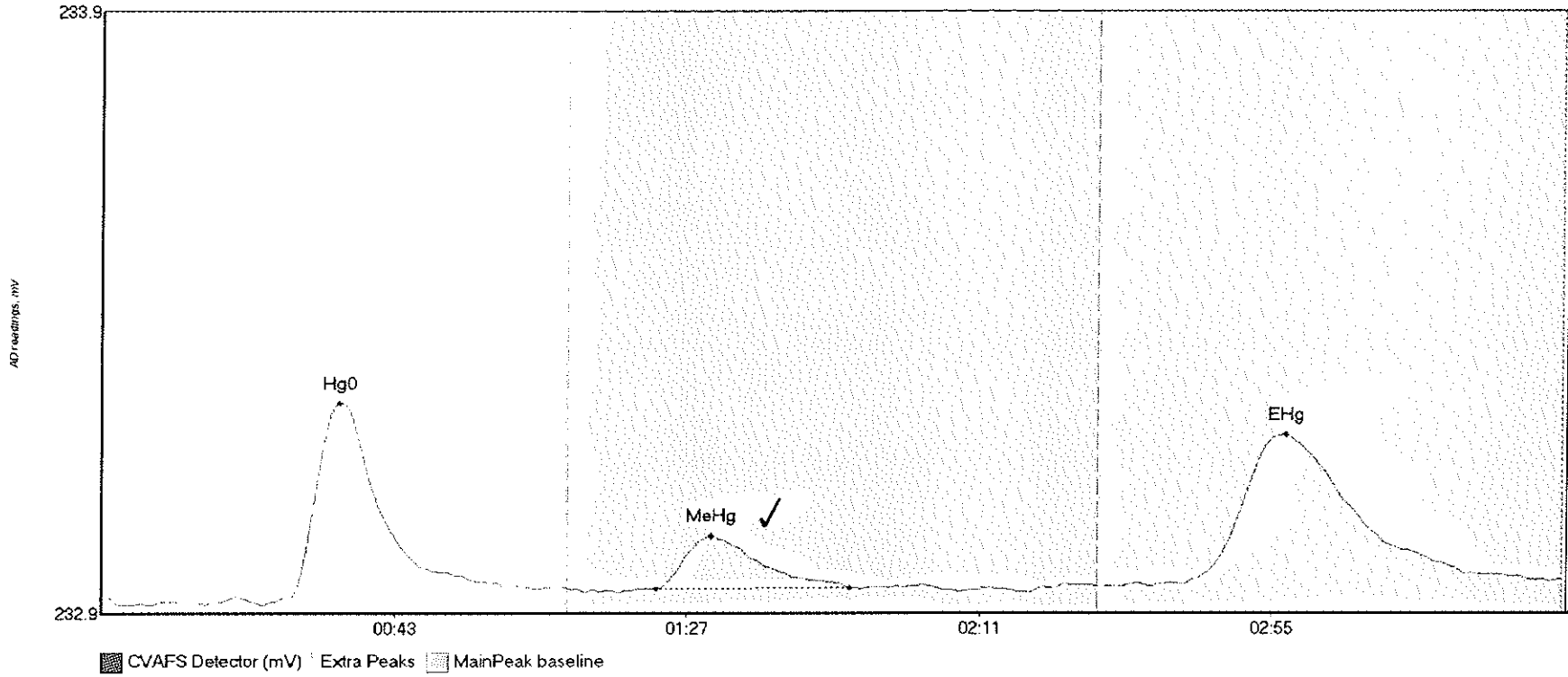
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	557.052	21.8	69.9	232.96	233.09	38.9	4.634	CT	232.9590	0.00	0.07	
SEQ-CCV4 MeHg	266.243	81.6	127.2	233.04	233.05	92.2	1.939	OK	232.9590	0.00	0.07	
SEQ-CCV4 EHg	215.204	162.1	213.3	233.02	233.03	177.6	1.160	OK	232.9590	0.00	0.07	

#63: SEQ-CCB4



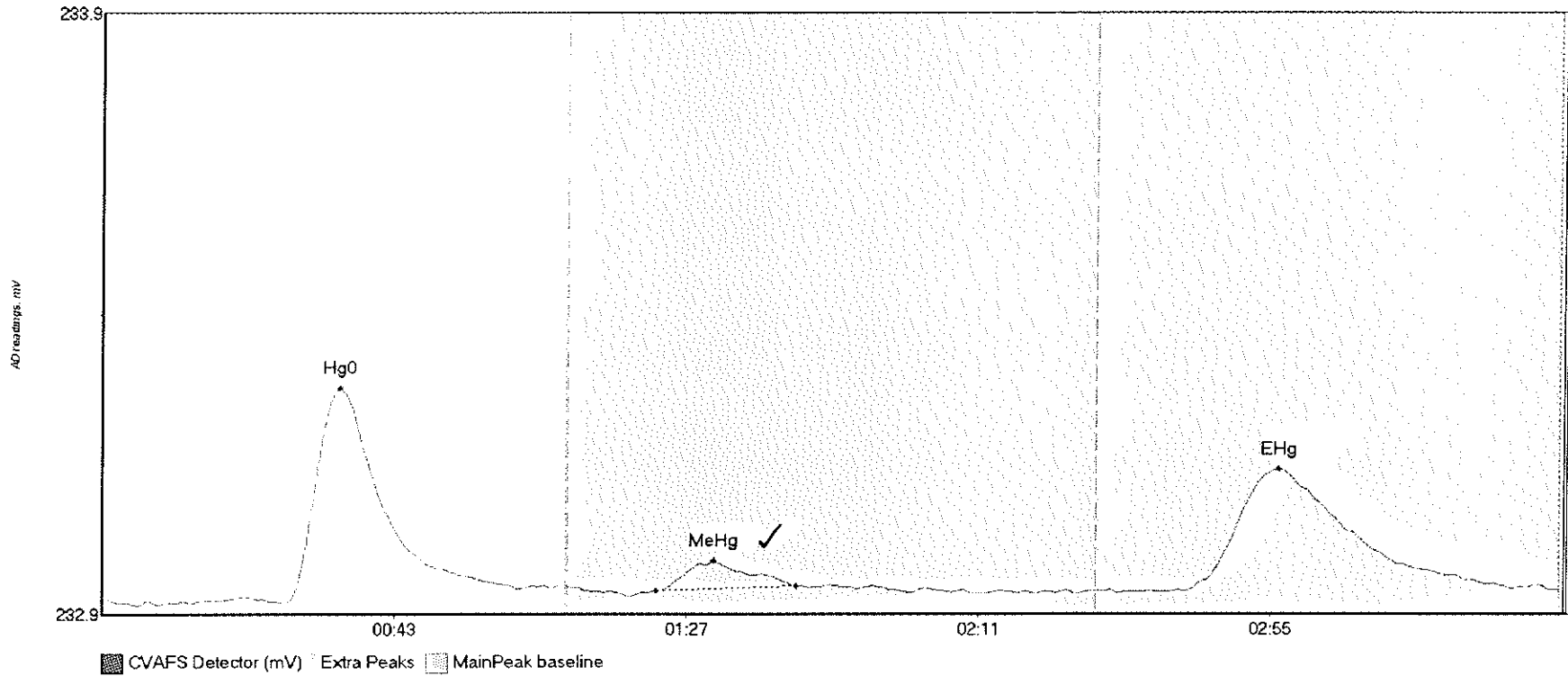
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB4 Hg0	48.930	17.8	66.7	232.95	232.97	35.9	0.379	OK	232.9458	0.00	0.03	
SEQ-CCB4 MeHg	1.049	87.5	105.8	232.98	232.98	92.7	0.011	OK	232.9458	0.00	0.03	
SEQ-CCB4 EHg	27.870	164.3	218.2	232.97	232.97	178.4	0.147	OK	232.9458	0.00	0.03	

#64: F611323-BLK4



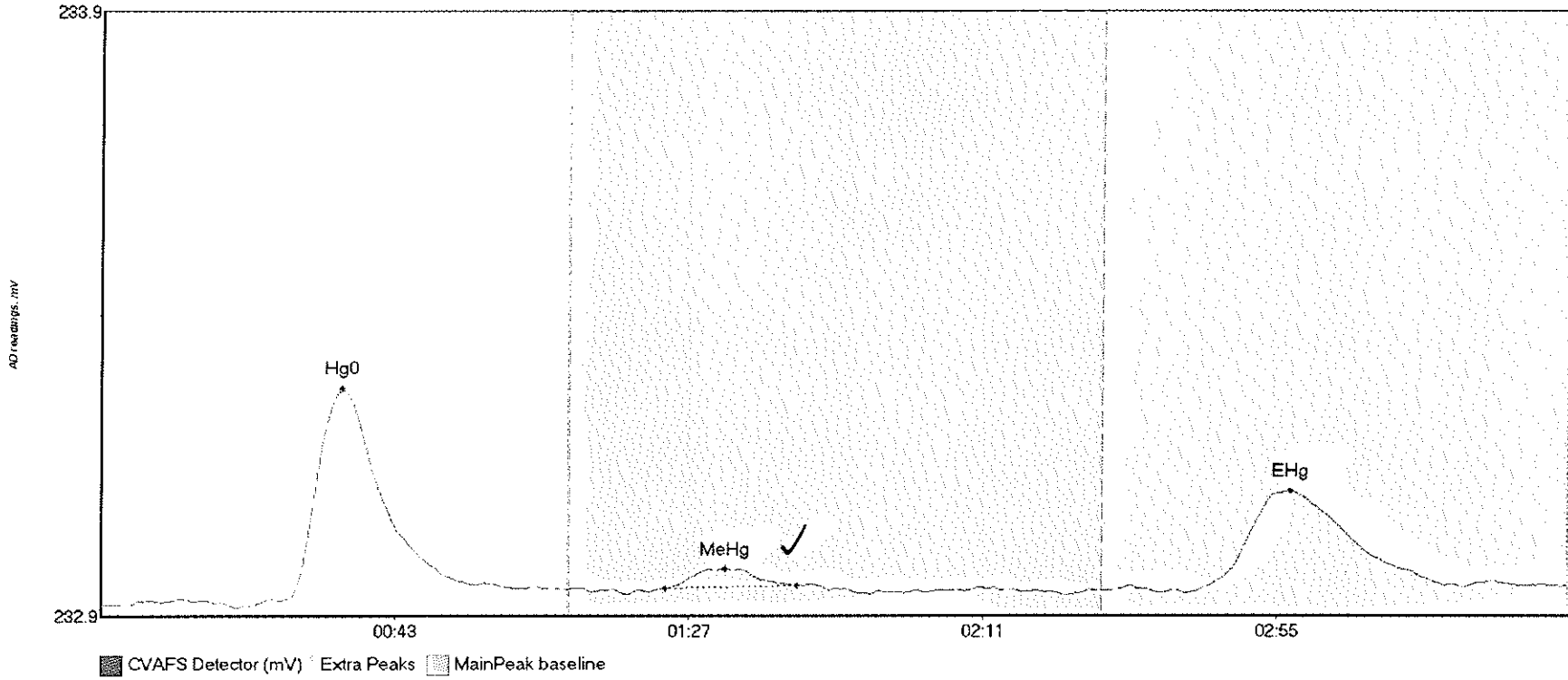
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F611323-BLK4 Hg	34.953	28.3	65.7	232.96	232.98	35.9	0.323	OK	232.9632	0.00	0.03	
F611323-BLK4 Me	11.204	83.5	112.4	232.98	232.98	91.7	0.087	OK	232.9632	0.00	0.03	
F611323-BLK4 EH	47.387	162.9	217.9	232.98	232.99	178.2	0.250	OK	232.9632	0.00	0.03	

#65: F611323-BLK5



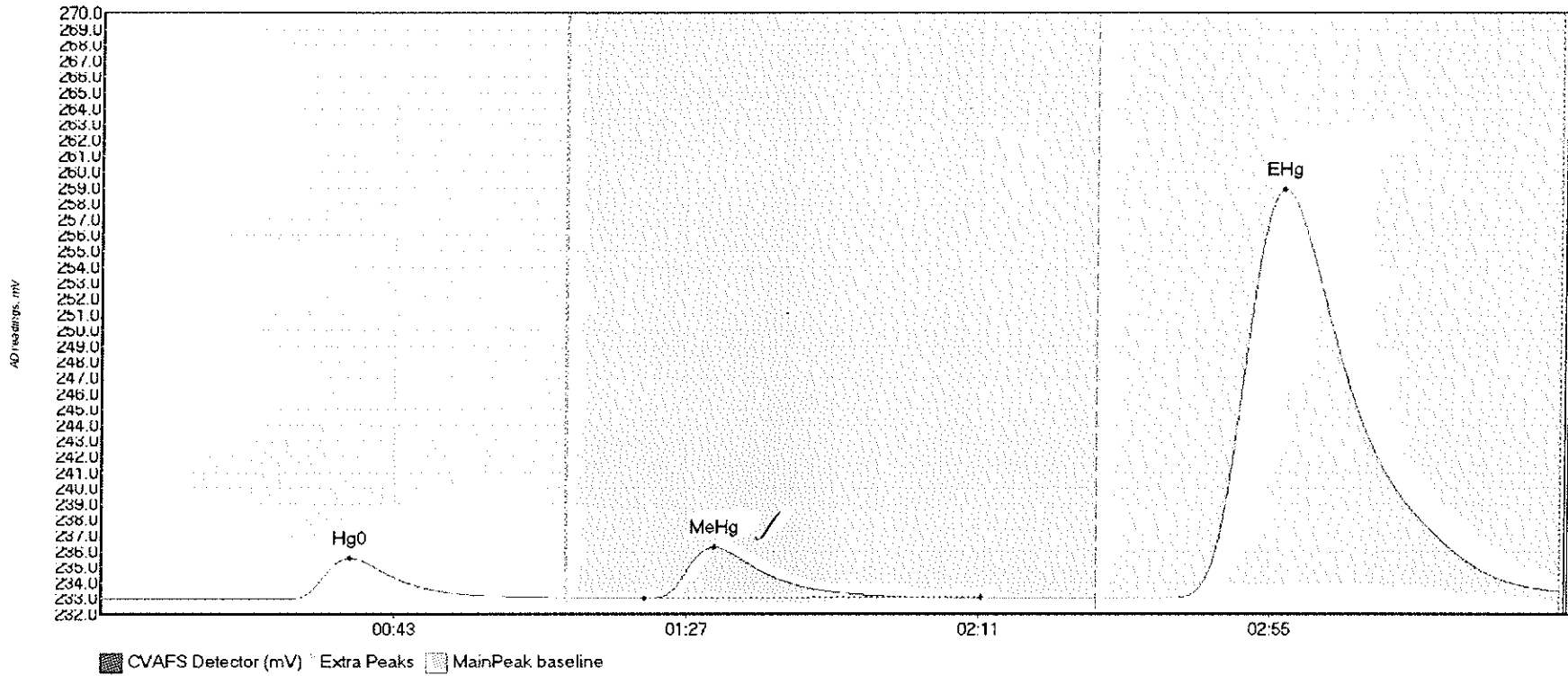
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F611323-BLK5 Hg	40.220	27.7	62.8	232.96	232.99	35.8	0.358	OK	232.9665	0.00	0.02	
F611323-BLK5 Me	4.893	83.4	104.6	232.98	232.99	92.1	0.049	OK	232.9665	0.00	0.02	
F611323-BLK5 EH	38.543	163.4	212.7	232.98	232.99	177.3	0.203	OK	232.9665	0.00	0.02	

#66: F611323-BLK6



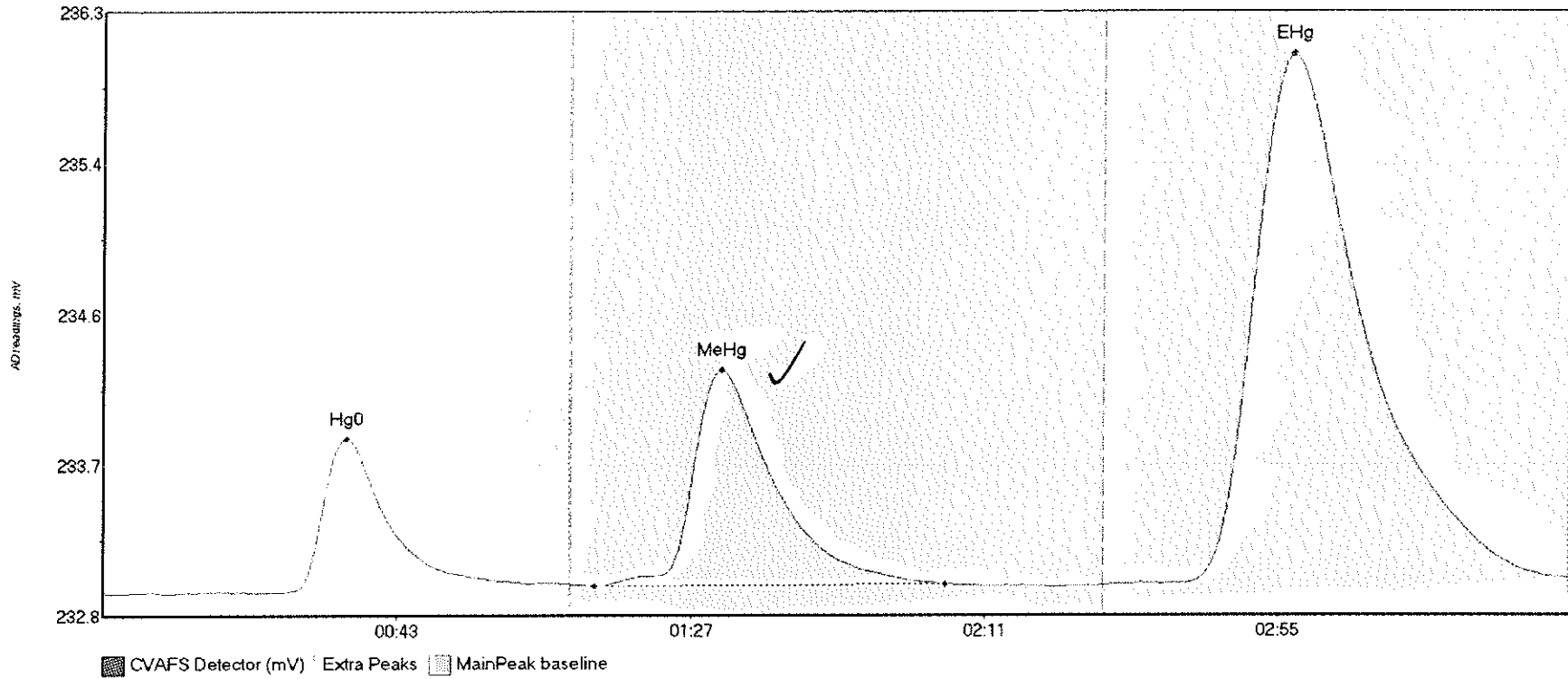
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F611323-BLK6 Hg	41.142	22.4	69.3	232.95	232.97	36.2	0.359	OK	232.9478	0.00	0.03	
F611323-BLK6 Me	3.218	84.4	104.2	232.98	232.98	93.4	0.033	OK	232.9478	0.00	0.03	
F611323-BLK6 EH	28.104	163.6	203.8	232.97	232.98	178.0	0.167	OK	232.9478	0.00	0.03	

#67: 1610865-03RE1



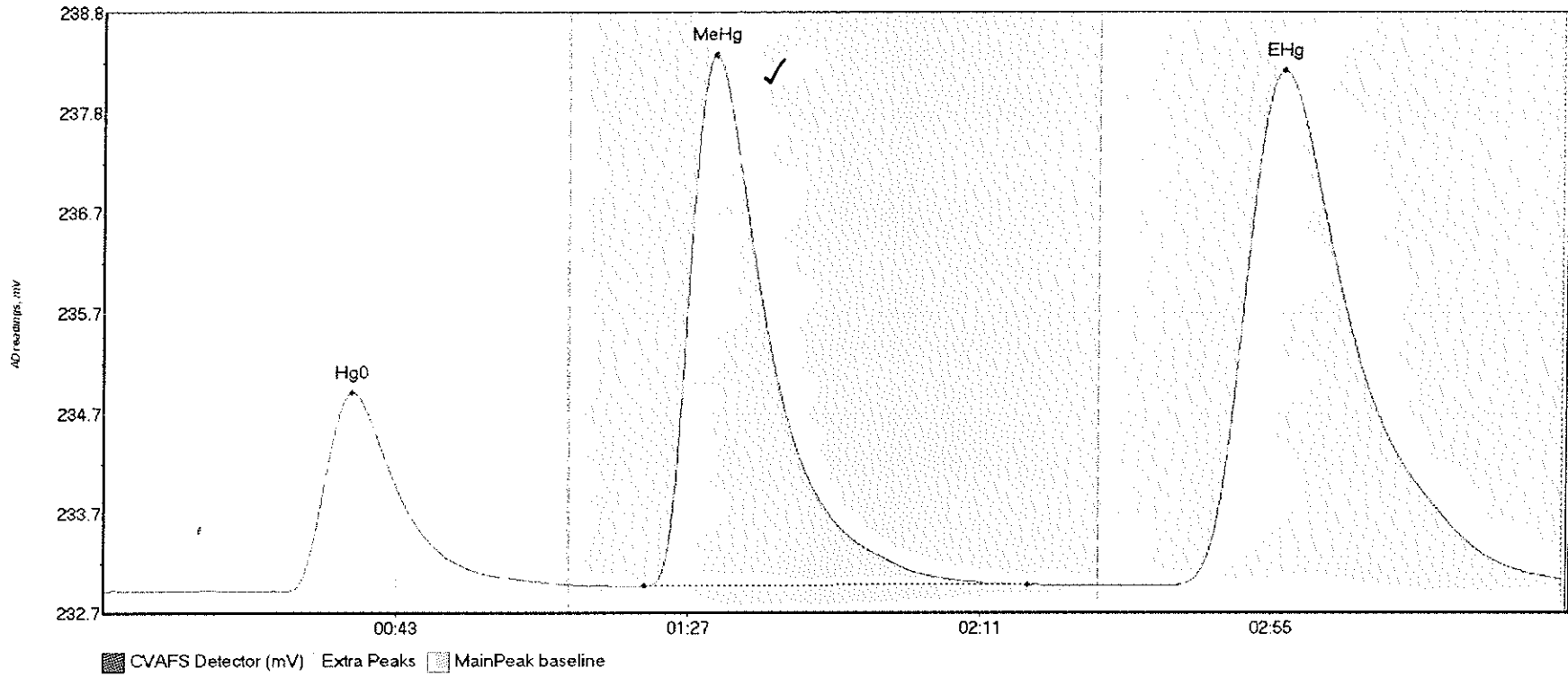
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
1610865-03RE1 H	326.425	25.1	69.9	232.95	233.03	37.5	2.580	CT	232.9468	0.00	0.54	
1610865-03RE1 M	444.716	81.7	132.5	233.01	233.04	92.3	3.212	OK	232.9468	0.00	0.54	
1610865-03RE1 E	4869.207	151.5	219.8	233.01	233.48	178.1	25.872	CT	232.9468	0.00	0.54	

#68: 1611082-01RE1



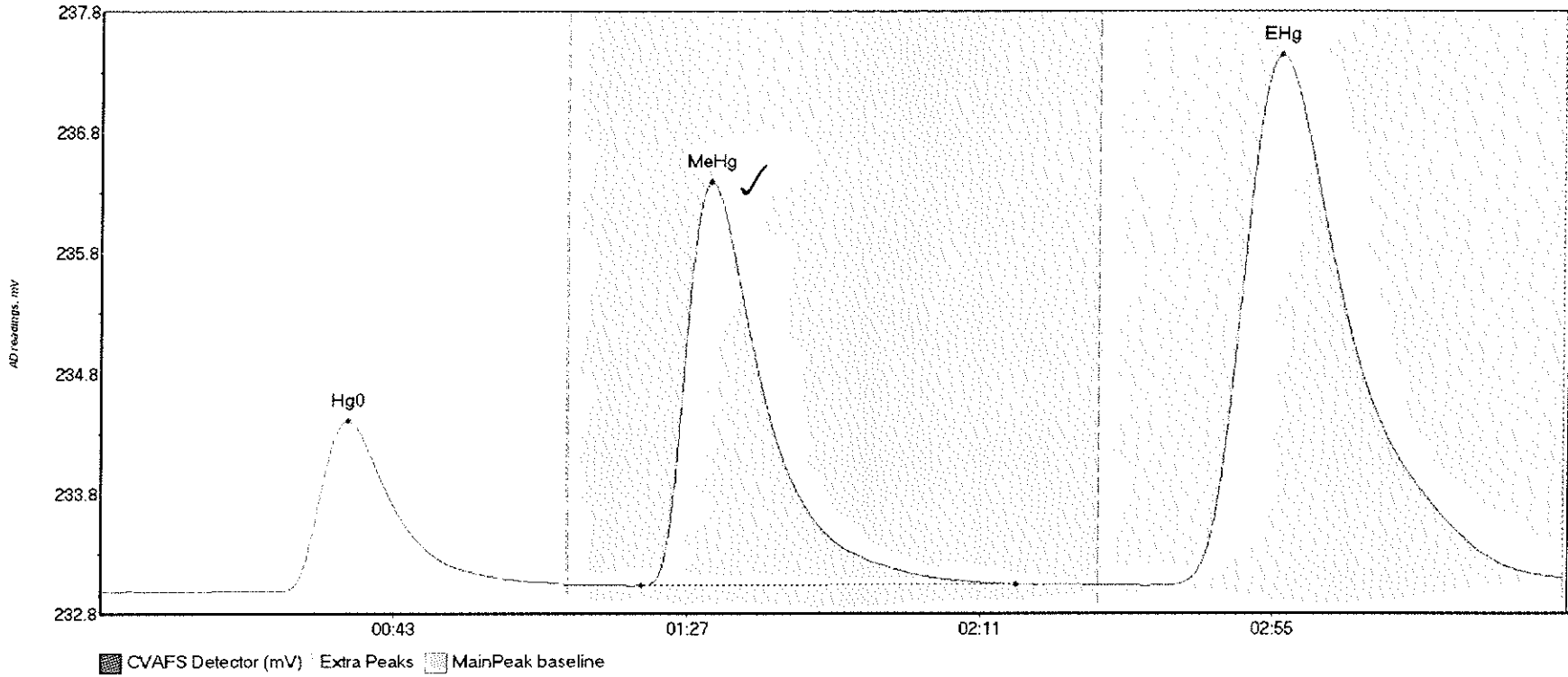
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1611082-01RE1 H	98.576	25.8	69.9	232.95	233.00	36.6	0.890	CT	232.9519	0.00	0.09	
1611082-01RE1 M	174.439	73.6	126.2	232.99	233.00	92.6	1.243	OK	232.9519	0.00	0.09	
1611082-01RE1 E	571.245	153.9	219.8	233.01	233.04	178.2	3.041	CT	232.9519	0.00	0.09	

#69: 1610618-09RE1



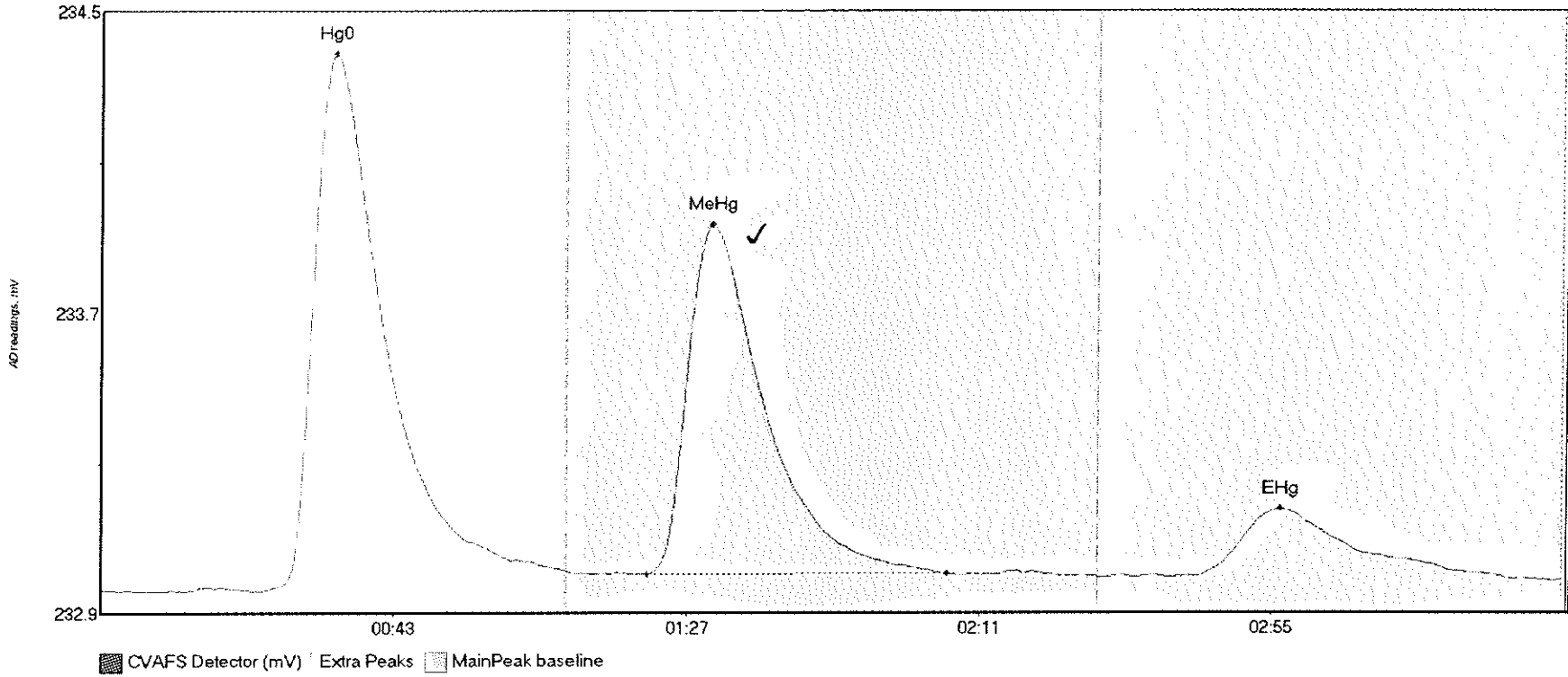
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1610618-09RE1 H	254.323	27.8	69.9	232.96	233.02	37.5	1.994	CT	232.9593	0.00	0.12	
1610618-09RE1 M	742.437	81.4	139.1	233.00	233.02	92.1	5.323	OK	232.9593	0.00	0.12	
1610618-09RE1 E	971.712	161.4	219.8	233.01	233.08	177.7	5.162	CT	232.9593	0.00	0.12	

#70: 1610618-10RE1



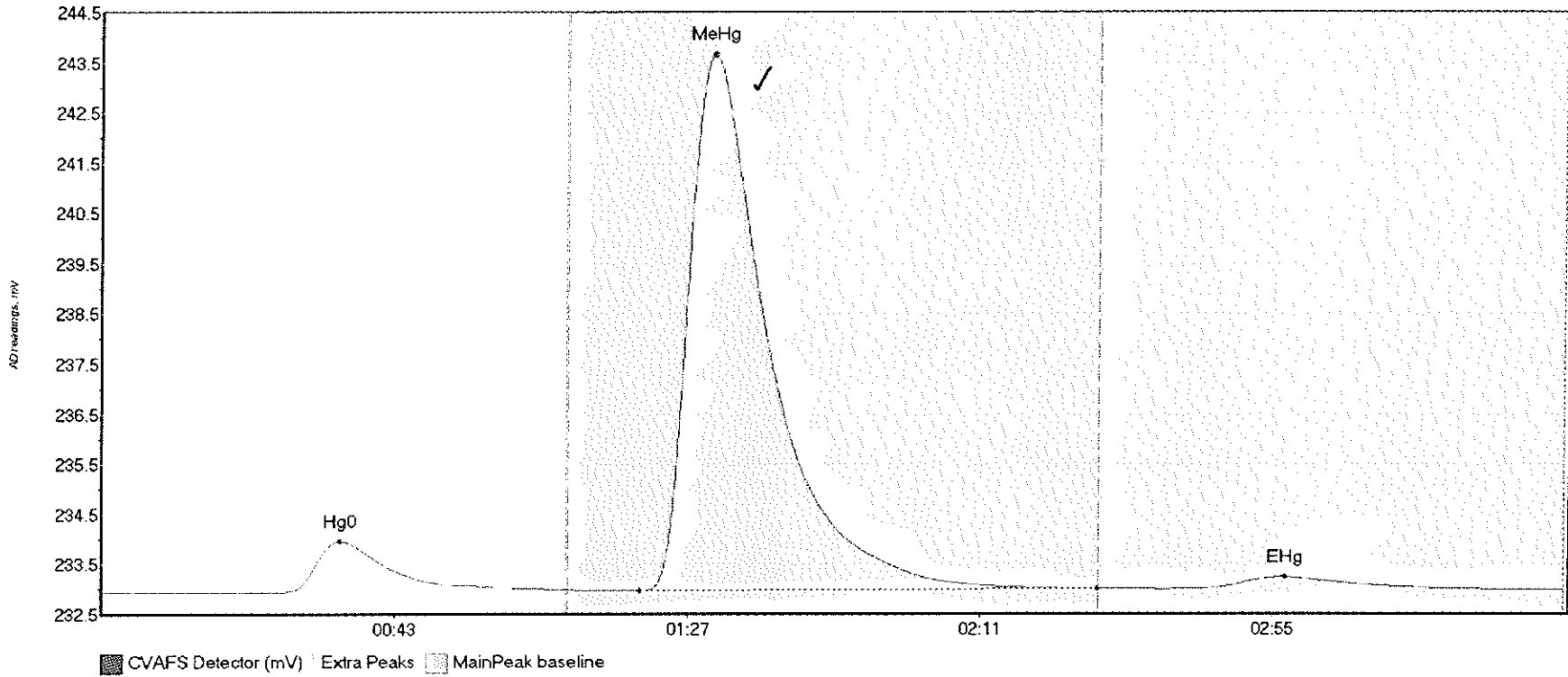
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1610618-10RE1 H	183.190	15.9	69.9	232.96	233.01	37.1	1.430	CT	232.9527	0.00	0.12	
1610618-10RE1 M	467.412	81.0	137.5	233.01	233.02	91.6	3.364	OK	232.9527	0.00	0.12	
1610618-10RE1 E	829.242	160.0	219.8	233.01	233.07	177.2	4.430	CT	232.9527	0.00	0.12	

#71: 1611293-02RE1



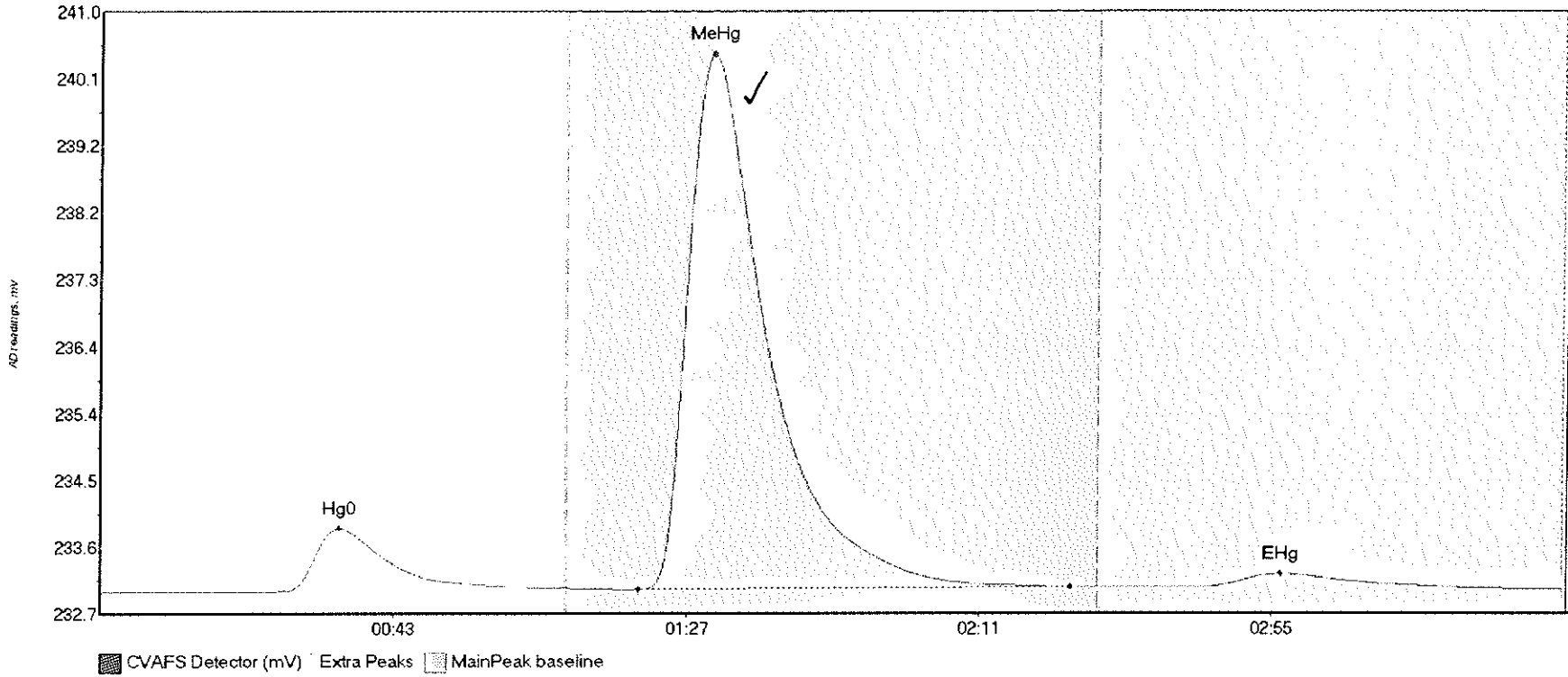
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1611293-02RE1 H	169.487	24.2	69.9	232.95	233.01	35.3	1.391	CT	232.9571	0.00	0.03	
1611293-02RE1 M	122.102	82.0	127.1	233.00	233.00	91.9	0.905	OK	232.9571	0.00	0.03	
1611293-02RE1 E	33.076	164.8	212.5	232.99	232.99	177.5	0.175	OK	232.9571	0.00	0.03	

#72: 1611293-03RE1



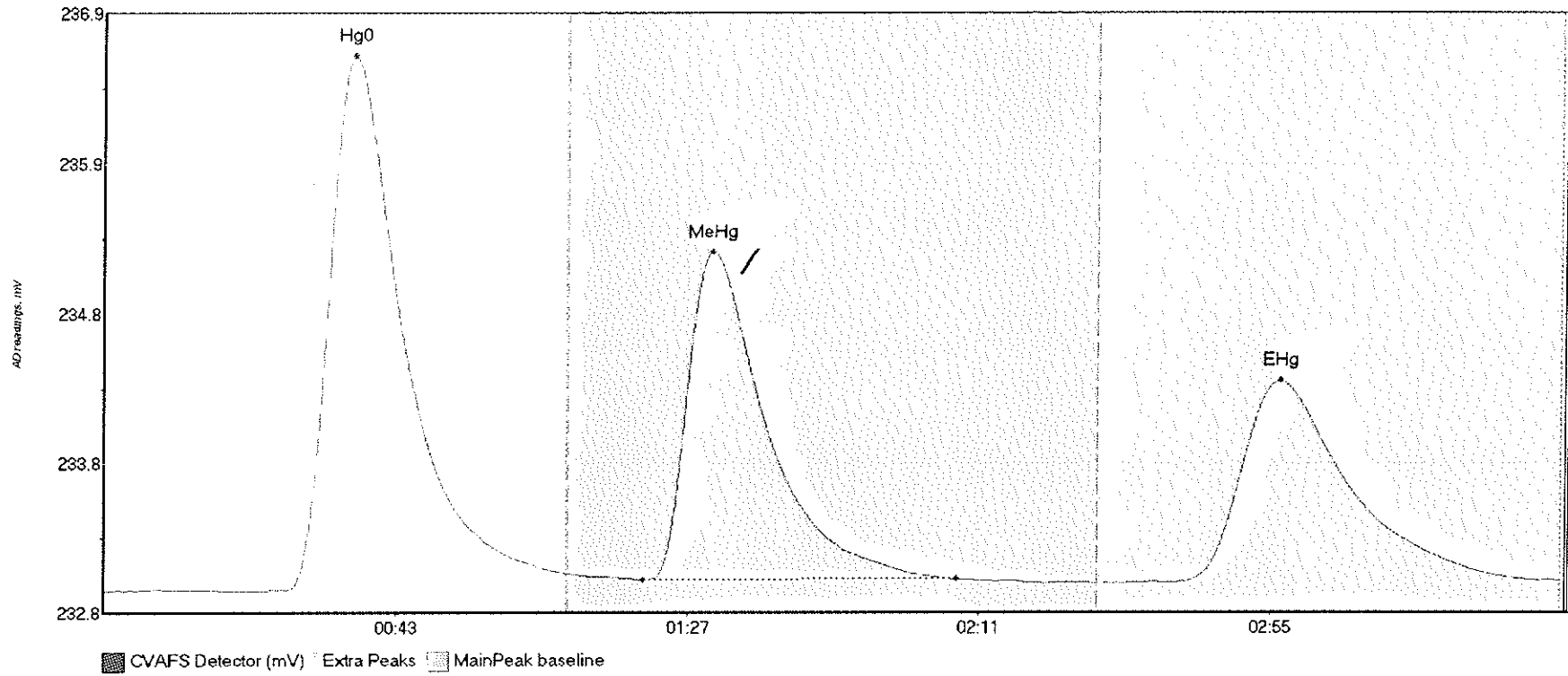
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1611293-03RE1 H	127.585	19.8	69.9	232.95	233.01	35.9	1.027	CT	232.9510	0.00	0.06	
1611293-03RE1 M	1493.533	80.7	149.7	232.99	233.03	92.0	10.677	OK	232.9510	0.00	0.06	
1611293-03RE1 E	39.144	163.9	204.4	233.03	233.03	178.0	0.229	OK	232.9510	0.00	0.06	

#73: 1611293-04RE1



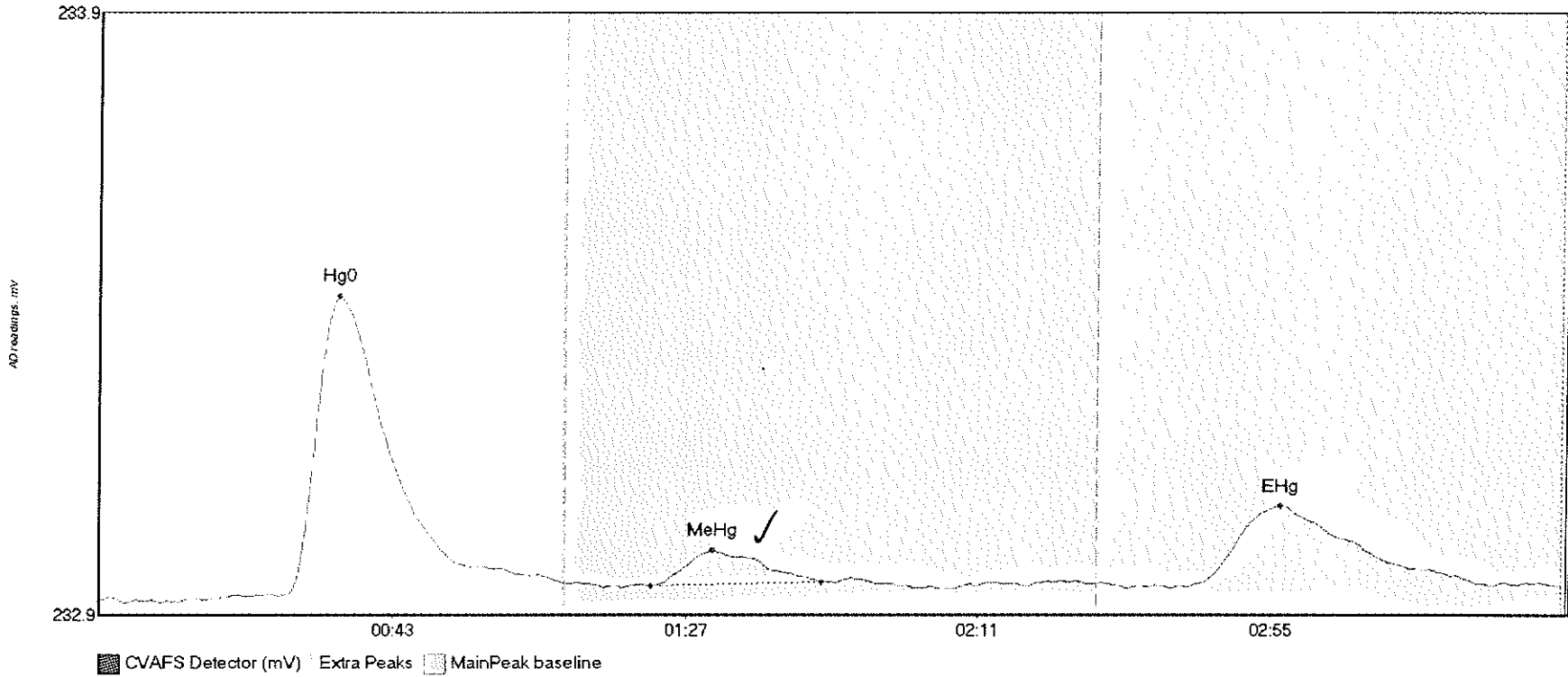
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1611293-04RE1 H	108.303	23.1	67.0	232.96	233.01	35.8	0.886	OK	232.9592	0.00	0.05	
1611293-04RE1 M	1035.579	80.7	145.8	233.00	233.02	92.0	7.414	OK	232.9592	0.00	0.05	
1611293-04RE1 E	31.824	165.3	203.2	233.03	233.02	177.5	0.187	OK	232.9592	0.00	0.05	

#74: SEQ-CCV5



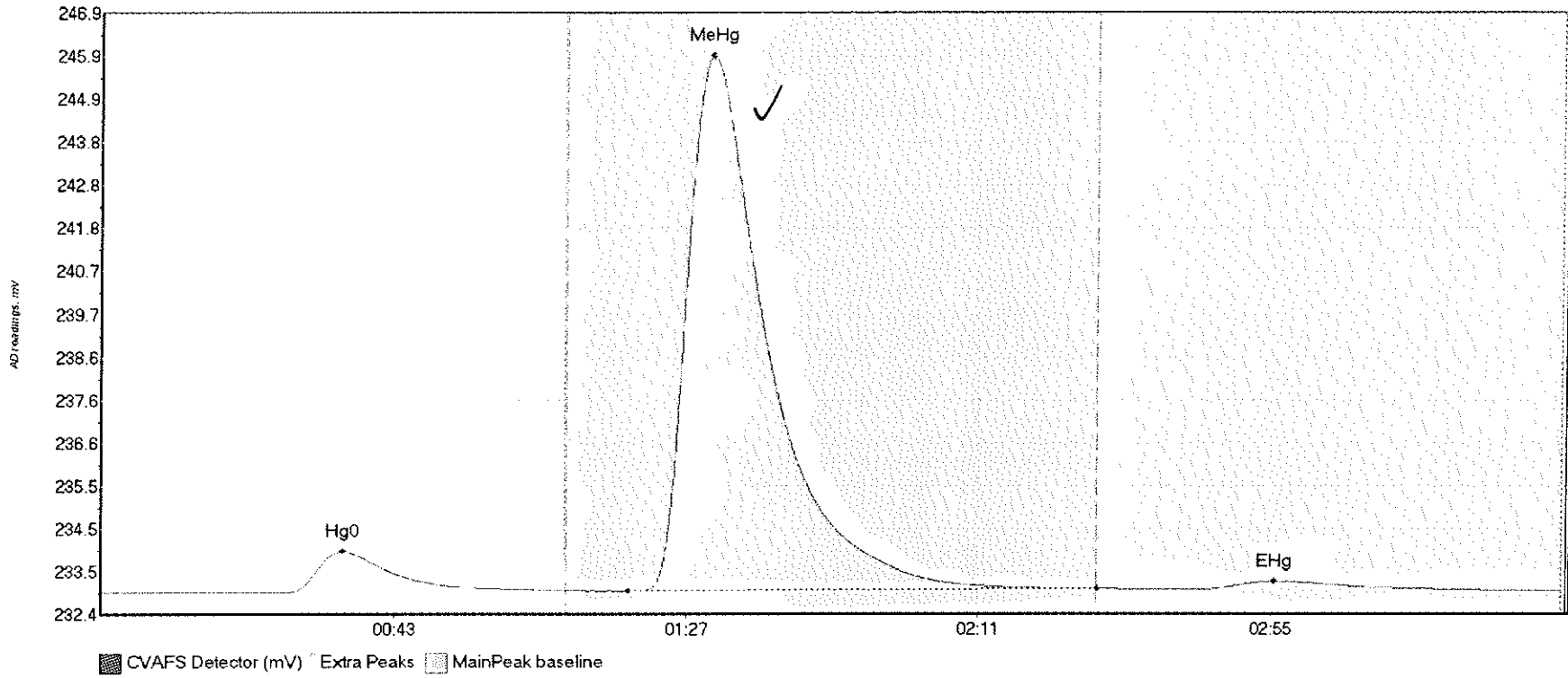
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV5 Hg0	462.400	24.0	69.9	232.95	233.07	37.7	3.633	CT	232.9524	0.00	0.08	
SEQ-CCV5 MeHg	306.086	81.3	129.8	233.03	233.03	91.8	2.232	OK	232.9524	0.00	0.08	
SEQ-CCV5 EHg	255.369	161.3	219.8	233.01	233.03	177.6	1.372	CT	232.9524	0.00	0.08	

#75: SEQ-CCB5



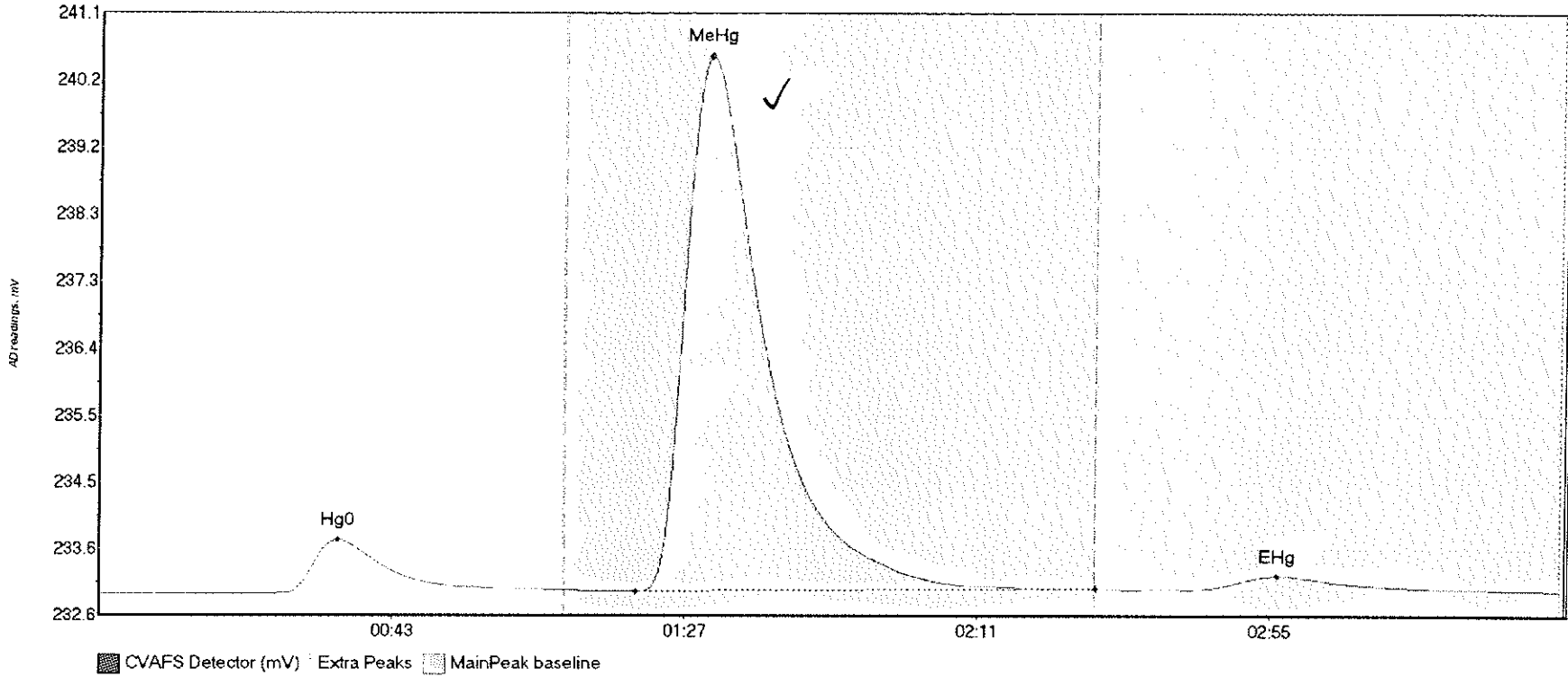
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB5 Hg0	62.575	19.1	69.9	232.97	232.99	35.9	0.499	CT	232.9646	0.00	0.02	
SEQ-CCB5 MeHg	7.189	82.9	108.4	232.99	232.99	92.0	0.058	OK	232.9646	0.00	0.02	
SEQ-CCB5 EHg	24.832	165.3	207.4	232.99	232.99	177.4	0.129	OK	232.9646	0.00	0.02	

#76: 1611293-05RE1



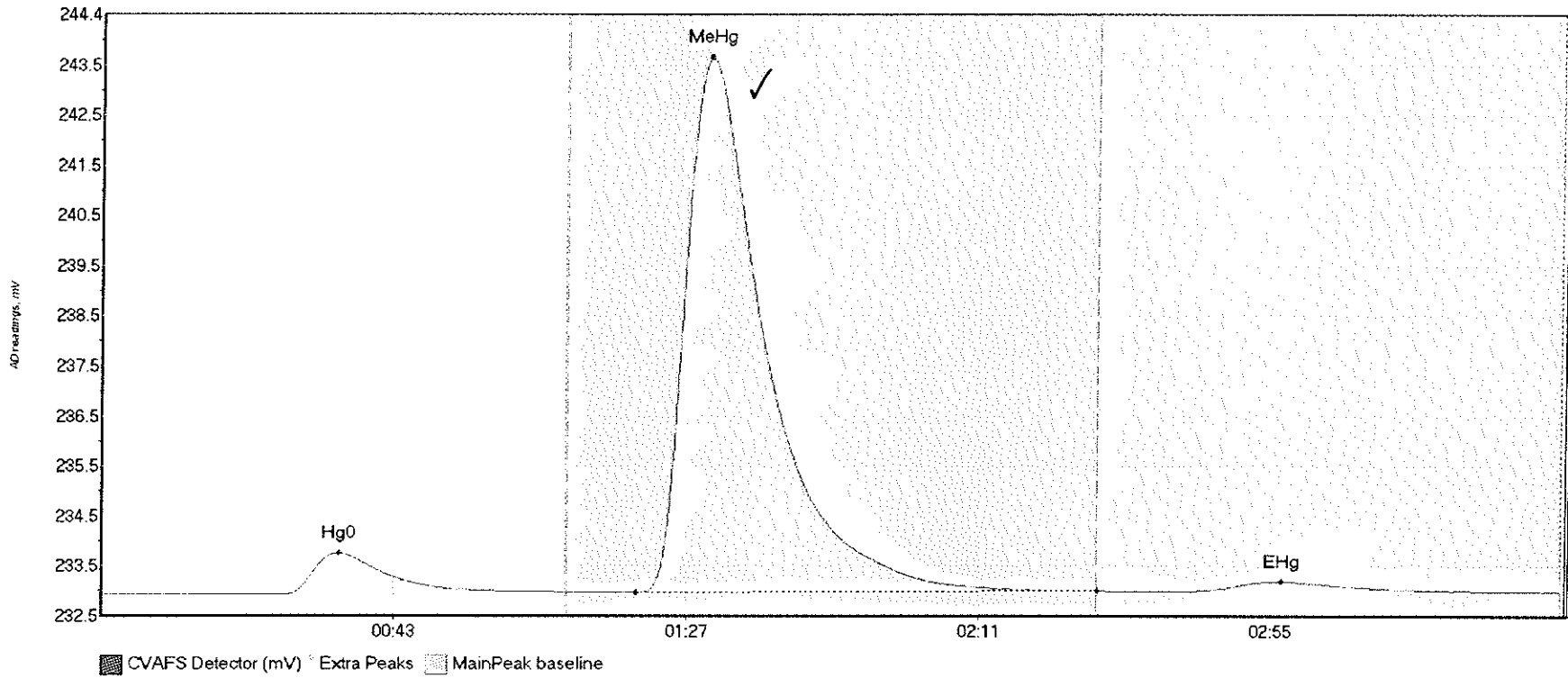
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1611293-05RE1 H	125.869	27.2	69.9	232.96	233.00	36.3	0.994	CT	232.9581	0.00	0.05	
1611293-05RE1 M	1803.850	79.3	150.0	233.00	233.65	91.9	12.903	CT	232.9581	0.00	0.05	
1611293-05RE1 E	28.967	166.2	198.8	233.04	233.04	176.6	0.186	OK	232.9581	0.00	0.05	

#77: 1611293-06RE1



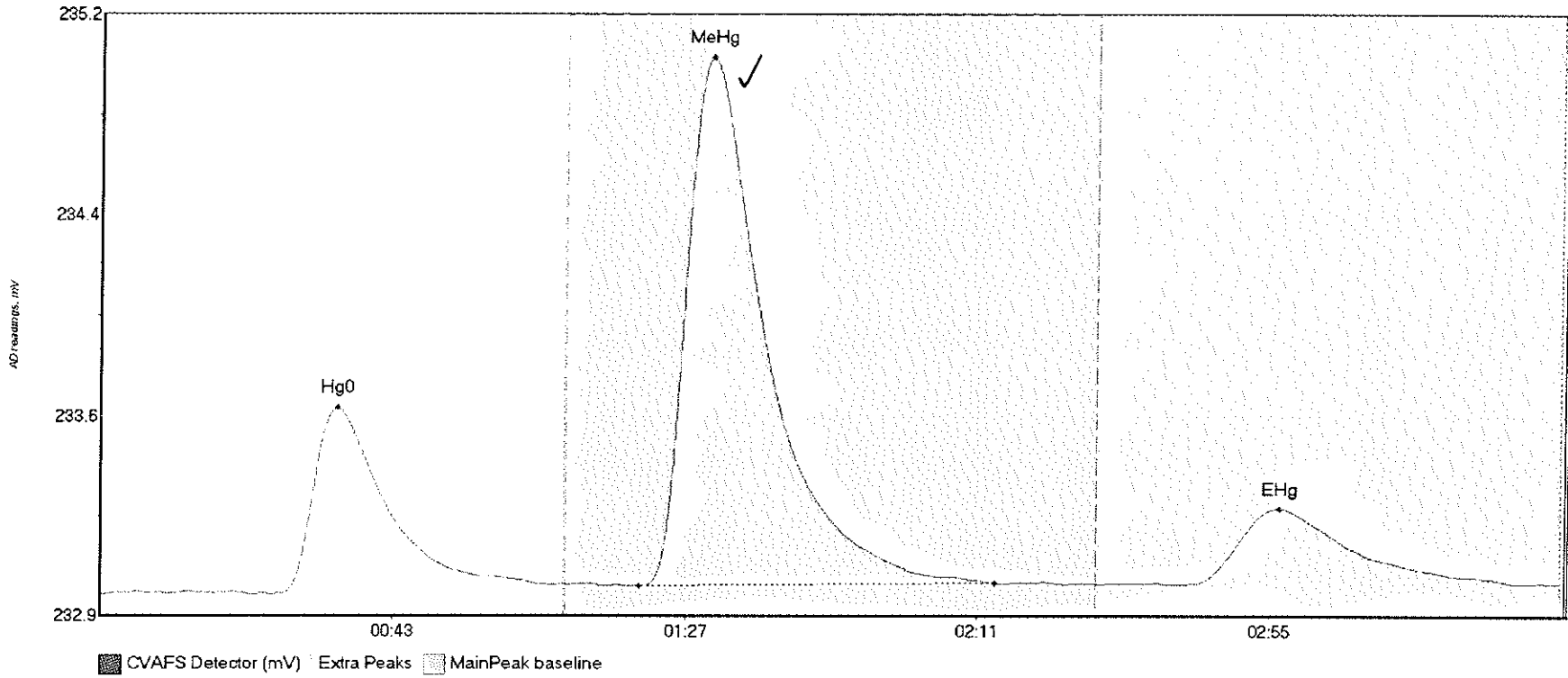
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1611293-06RE1 H	92.087	21.9	69.9	232.95	233.00	35.9	0.757	CT	232.9455	0.00	0.05	
1611293-06RE1 M	1045.260	80.7	150.0	232.98	233.02	91.8	7.530	CT	232.9455	0.00	0.05	
1611293-06RE1 E	31.540	164.0	201.8	233.01	233.02	177.2	0.196	OK	232.9455	0.00	0.05	

#78: 1611293-07RE1



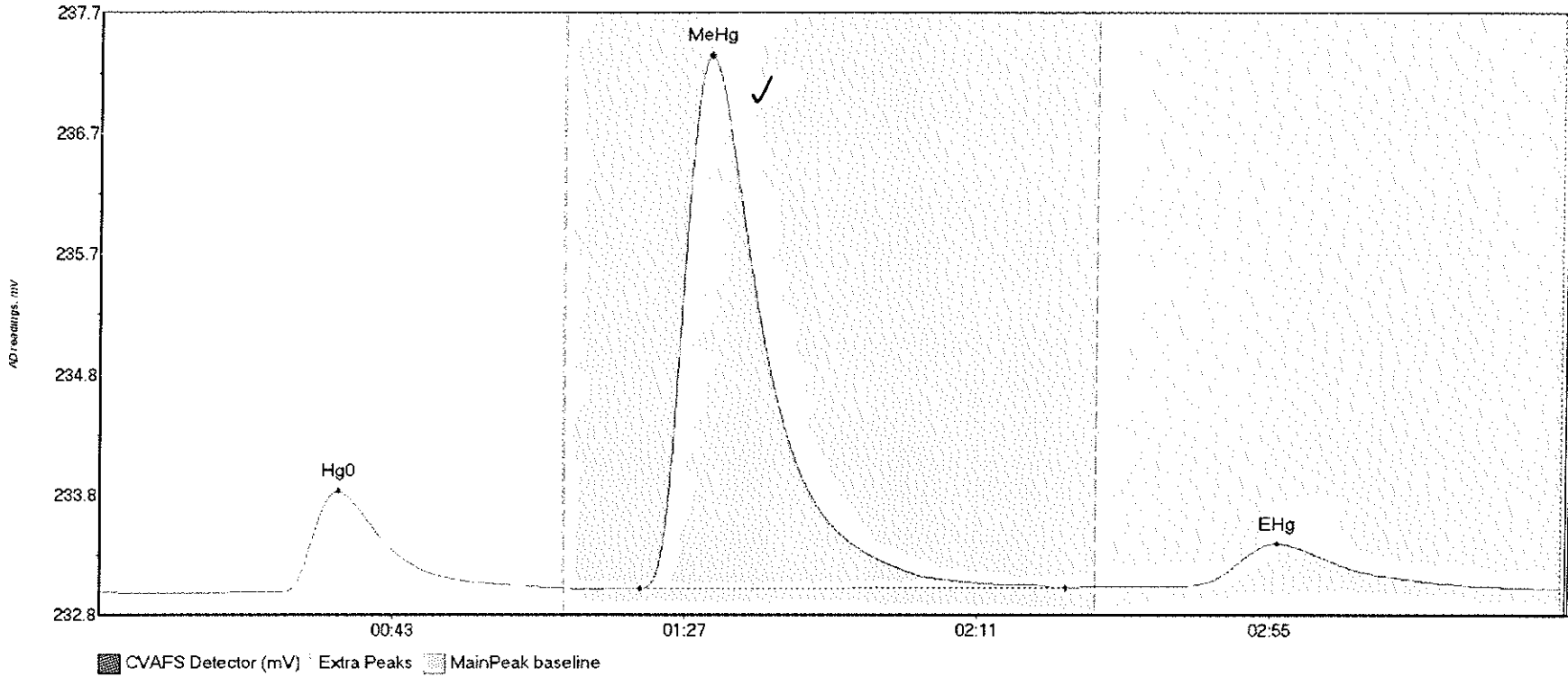
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1611293-07RE1 H	102.469	26.9	69.9	232.96	233.00	35.8	0.821	CT	232.9695	0.00	0.05	
1611293-07RE1 M	1488.796	80.4	150.0	233.00	233.04	91.6	10.595	CT	232.9695	0.00	0.05	
1611293-07RE1 E	32.513	162.6	200.1	233.02	233.04	177.7	0.199	OK	232.9695	0.00	0.05	

#79: F611352-DUP2



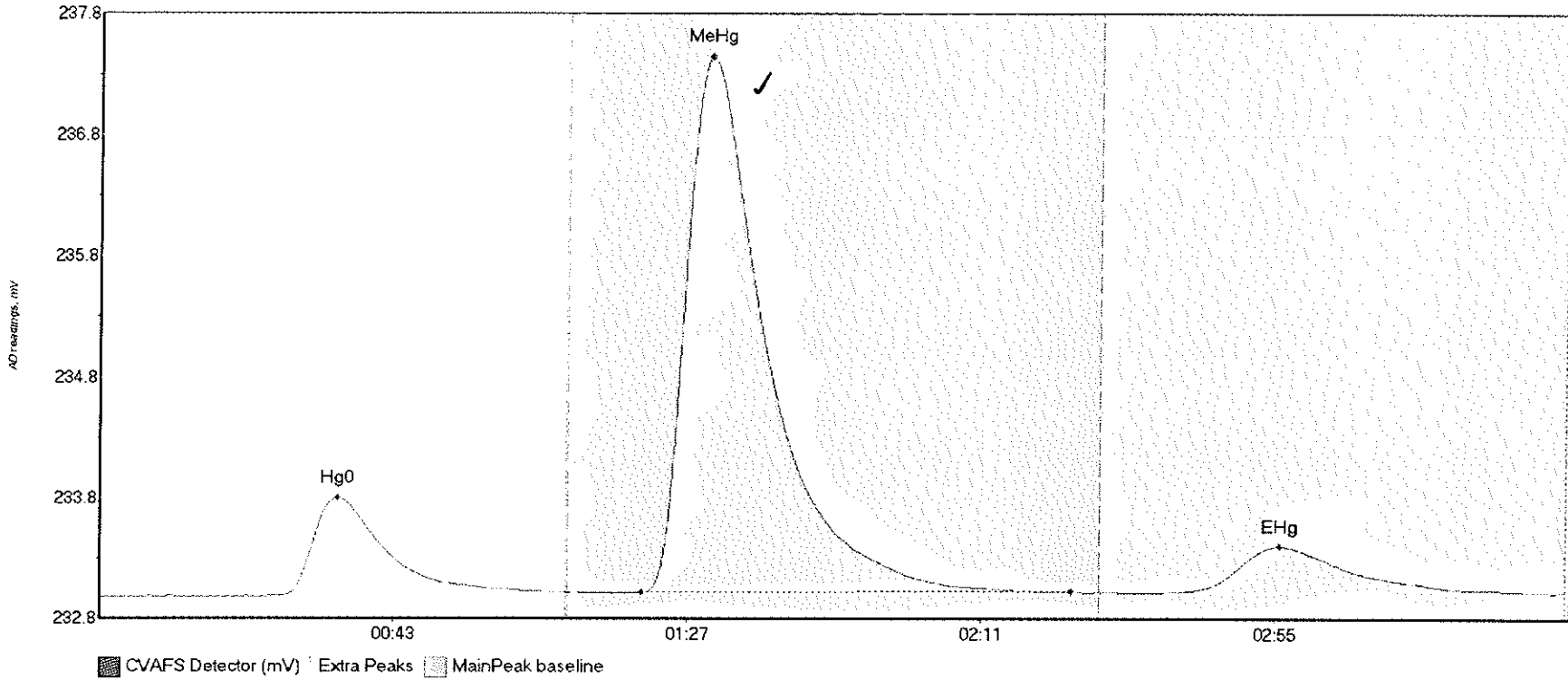
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
F611352-DUP2 Hg	87.915	26.8	68.2	232.96	233.00	35.7	0.706	OK	232.9602	0.00	0.04	
F611352-DUP2 Me	278.368	81.0	134.7	232.99	233.00	91.9	2.003	OK	232.9602	0.00	0.04	
F611352-DUP2 EH	56.259	162.9	213.2	233.00	233.00	177.6	0.290	OK	232.9602	0.00	0.04	

#80: F611352-MS3



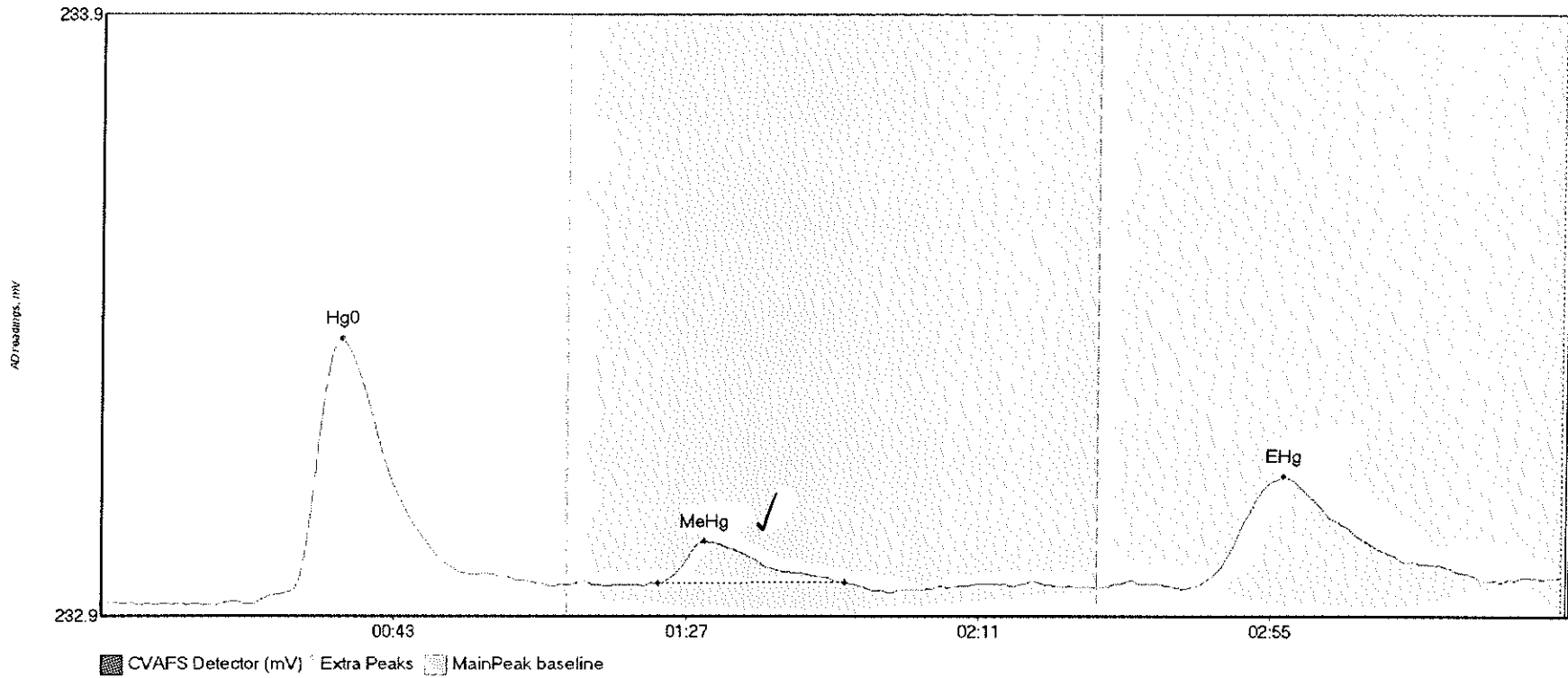
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F611352-MS3 Hg0	103.575	27.2	69.9	232.97	233.01	35.8	0.827	CT	232.9739	0.00	0.03	
F611352-MS3 MeH	613.239	81.4	145.5	233.00	233.01	91.7	4.353	OK	232.9739	0.00	0.03	
F611352-MS3 EHg	61.692	162.9	207.2	233.02	233.02	177.2	0.349	OK	232.9739	0.00	0.03	

#81: F611352-MSD3



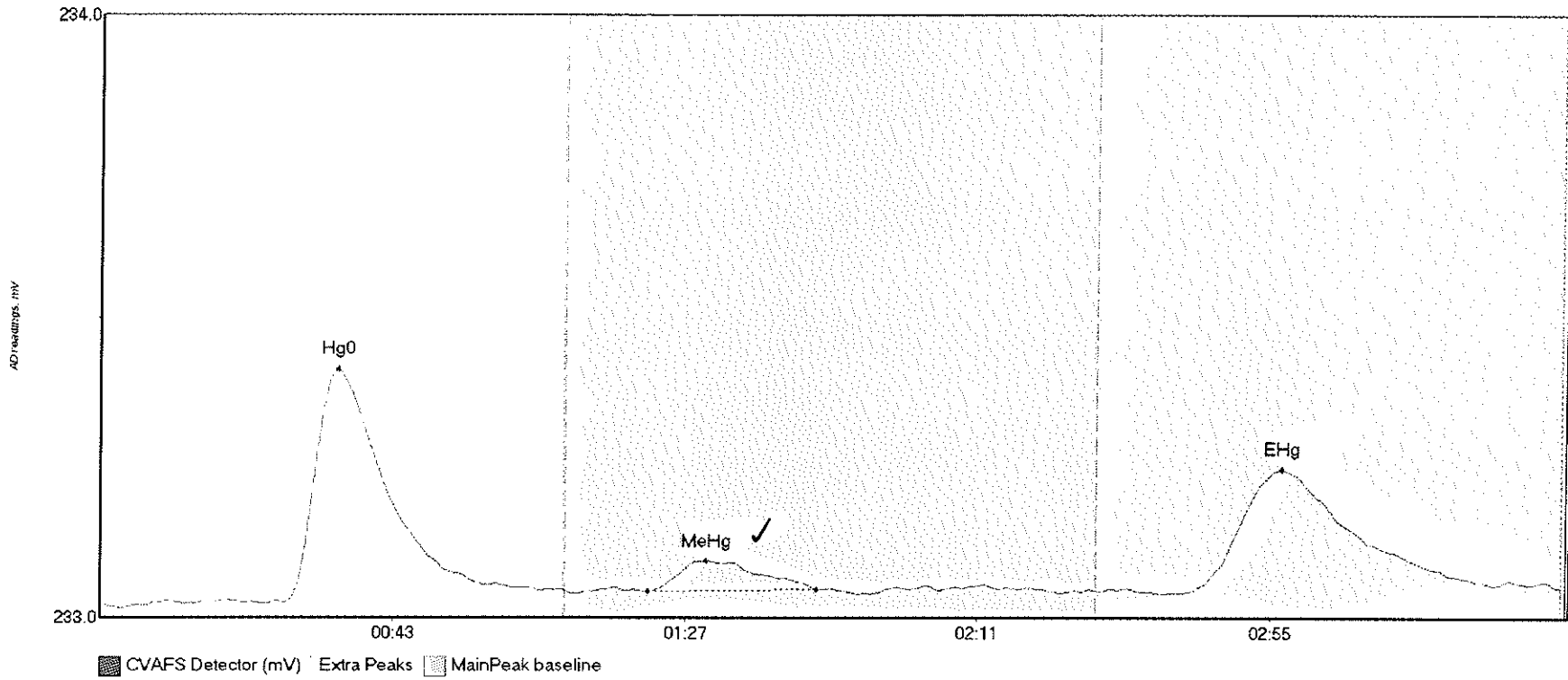
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
F611352-MSD3 Hg	99.055	24.7	69.9	232.98	233.01	35.7	0.814	CT	232.9742	0.00	0.04	
F611352-MSD3 Me	616.444	81.1	145.6	233.01	233.02	91.5	4.420	OK	232.9742	0.00	0.04	
F611352-MSD3 EH	69.965	161.1	214.3	233.01	233.02	176.8	0.379	OK	232.9742	0.00	0.04	

#82: F611352-BLKA



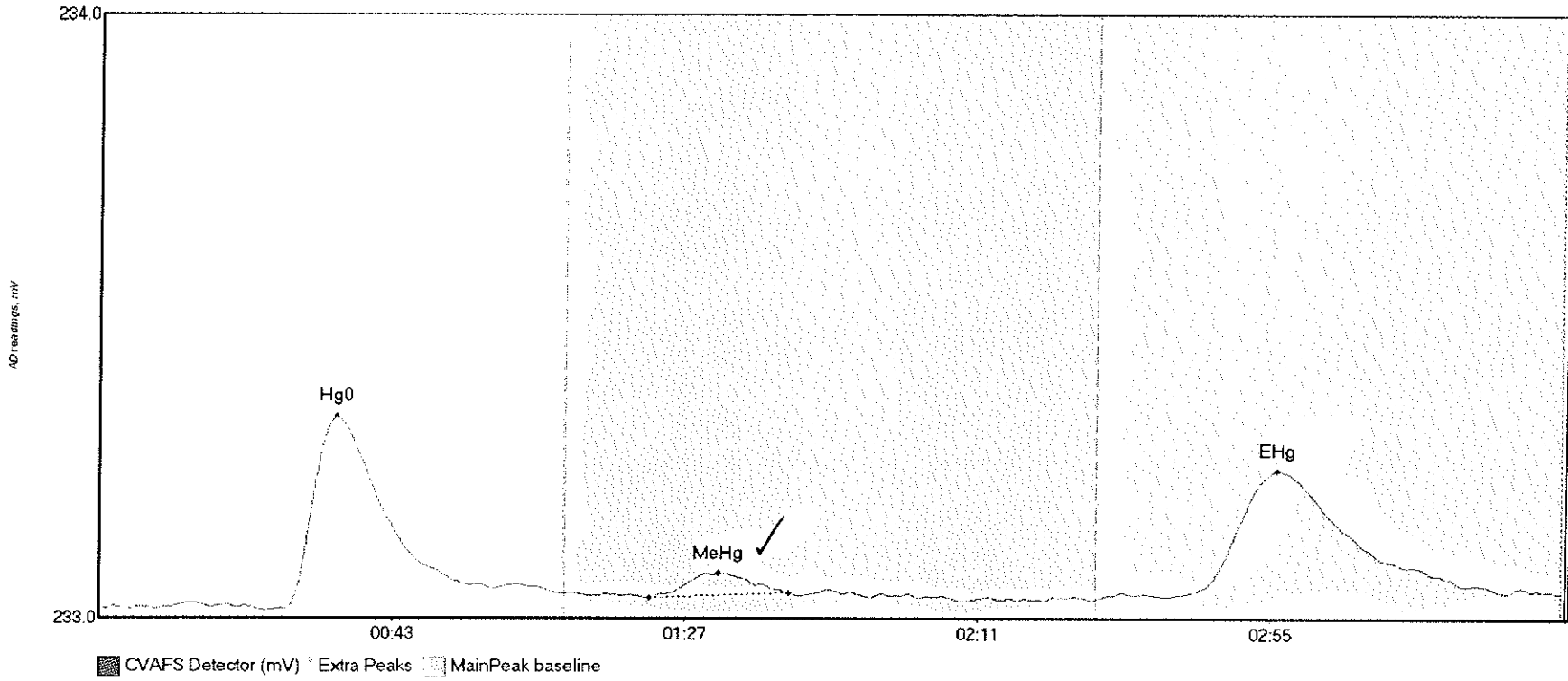
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F611352-BLKA Hg	55.361	22.4	67.7	232.96	232.99	36.1	0.442	OK	232.9635	0.00	0.04	
F611352-BLKA Me	3.894	83.8	111.9	233.00	233.00	90.7	0.071	OK	232.9635	0.00	0.04	
F611352-BLKA EH	34.293	163.2	210.7	232.99	233.00	178.1	0.187	OK	232.9635	0.00	0.04	

#83: F611352-BLKB



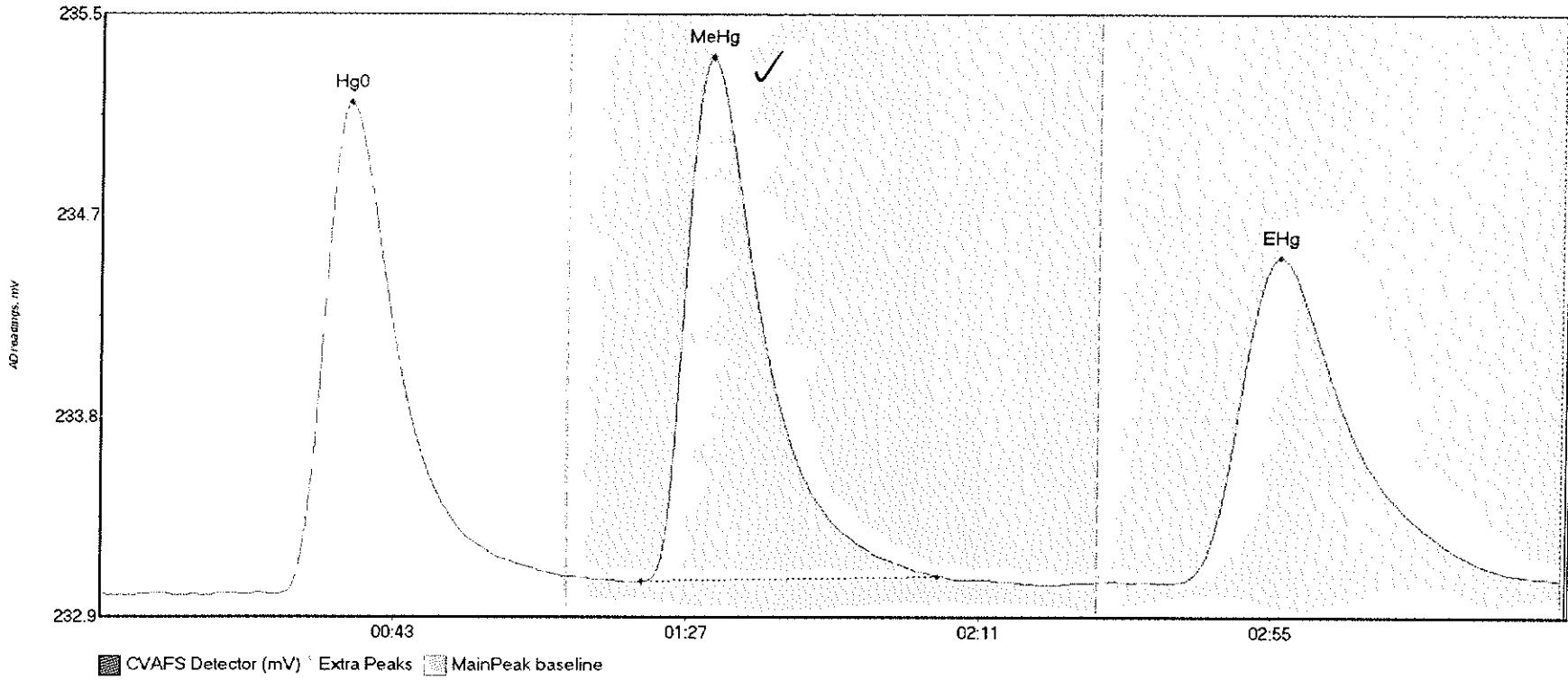
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F611352-BLKB Hg	47.020	27.7	66.3	232.98	233.00	35.7	0.386	OK	232.9721	0.00	0.03	
F611352-BLKB Me	6.851	82.5	107.8	232.99	233.00	91.2	0.050	OK	232.9721	0.00	0.03	
F611352-BLKB EH	39.871	163.5	219.5	232.99	233.00	177.7	0.204	OK	232.9721	0.00	0.03	

#84: F611352-BLKC



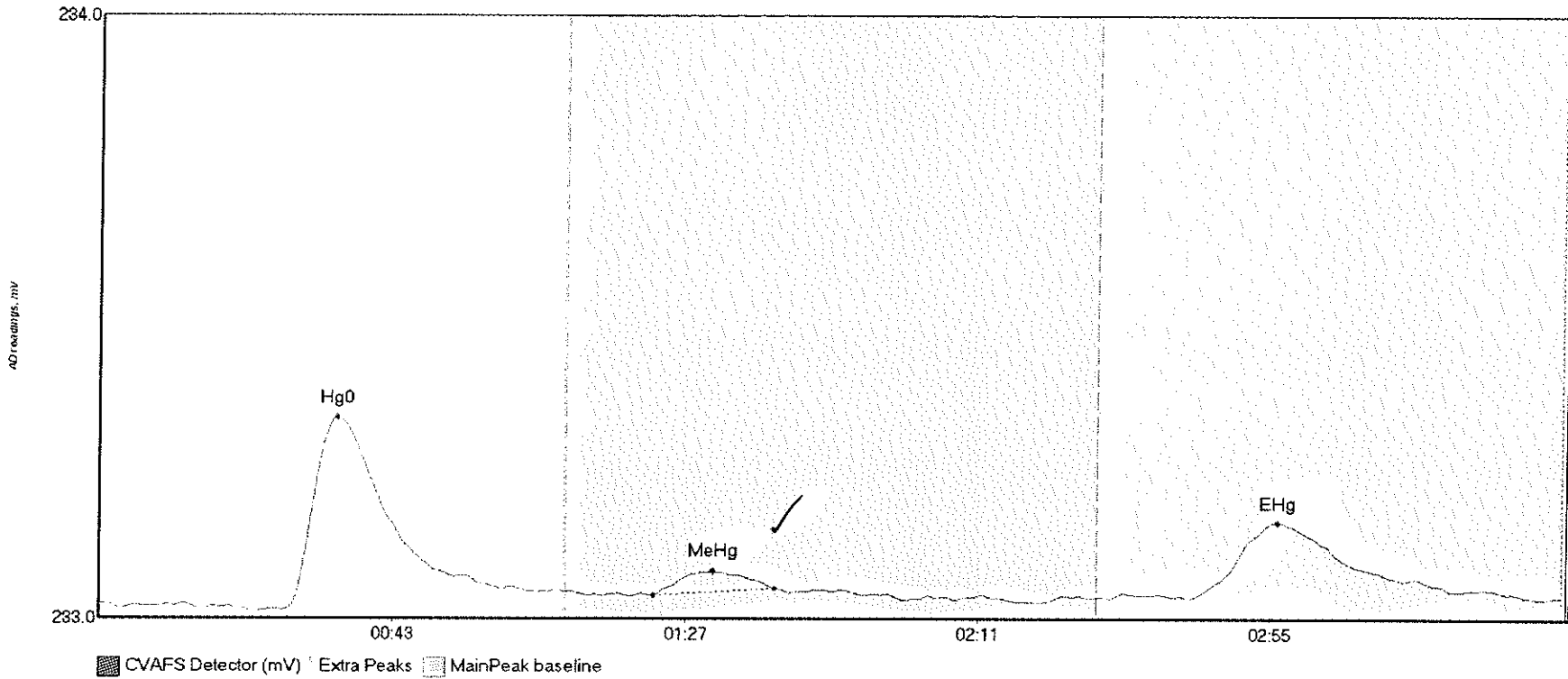
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
F611352-BLKC Hg	40.032	27.7	69.7	232.97	233.00	35.6	0.319	OK	232.9746	0.00	0.03	
F611352-BLKC Me	4.037	82.8	103.6	232.99	233.00	93.0	0.041	OK	232.9746	0.00	0.03	
F611352-BLKC EH	39.802	160.5	219.6	232.99	233.00	176.9	0.209	OK	232.9746	0.00	0.03	

#85: SEQ-CCV6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV6 Hg0	279.847	26.4	69.9	232.97	233.05	37.4	2.185	CF	232.9728	0.00	0.06	
SEQ-CCV6 MeHg	317.056	81.3	125.9	233.03	233.05	91.7	2.331	OK	232.9728	0.00	0.06	
SEQ-CCV6 EHg	271.760	161.0	219.5	233.02	233.04	177.2	1.450	OK	232.9728	0.00	0.06	

#86: SEQ-CCB6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB6 Hg0	40.137	27.3	66.0	232.98	233.01	35.6	0.320	OK	232.9907	0.00	0.01	
SEQ-CCB6 MeHg	3.965	83.1	101.4	233.00	233.02	92.2	0.040	OK	232.9907	0.00	0.01	
SEQ-CCB6 EHg	24.476	163.8	214.7	233.00	233.00	177.2	0.127	OK	232.9907	0.00	0.01	

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2015 Rev 5 (08/06/2015)

Analyst: Ryan Nelson	Sequence #: 6K21024, 6K21025, 6K21026
Reviewer: DAN WEIKART	Dataset ID #: MHg27001-161118-1
Date: 11-21-16	WO #: NA
Batch #(s): F611323, F611352, F611388	Client(s):

• Select the correct preparation method.

Additional Comments:

Analyte	Prep Method	Matrix
<input type="checkbox"/> MHg	SOP2797 MHg Distillation	Water
<input type="checkbox"/> MHg	SOP2986 KOH/MeOH Digest	Tissue
<input type="checkbox"/> MHg	SOP5134 MeCl Extraction	Sed/Soll
<input type="checkbox"/> DMHg	SOP2816 (None Accredited method)	ALL

	Analyst Initials: <i>R</i>	Reviewer Initials: <i>DW</i>
1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been imported?)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
2. Check for transcription errors from Excel spreadsheet (or Prep Bench sheet)/Raw data	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(a) Reviewer: 100% of peak heights checked	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(b) Are there peak height errors?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/>
(c) Error on a sample: Do peak heights, responses, & initial results match corrected data?	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
(d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
(e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries).	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
(f) Check and compare masses (review prep bench sheet)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
(g) Check and compare initial and final volumes	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
(h) Do aliquots and dilutions written on benchsheet match those in Excel?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
(i) Is the pH>3.0 for all distilled samples?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
(j) Is the sequence #, analyst, date, and instrument # on the QC page?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(k) Is the analysis status correct? (analyzed/initial review/reviewed)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(l) Original prep bench sheet added to data package?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
3. High QA? WO#(s)/Client(s): _____	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/>
4. Client specific QC? (if Yes, refer to Project Notes/LIMS)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/>
(a) Have the QC requirements been met for all WO#s?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
5. 20 or fewer samples in batch?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(a) 3 PBs, 1 LCS/LCSD (or BS/BSD), 2 MS/MSD/MD per batch?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(b) 1 CCV and 1 CCB every 10 analytical runs?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
QA/QC Data Checked		
6. The calibration curve included a minimum of 5 Standards	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments: _____		
7. 1st Calibration Standard % Recoveries (65-135%)	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments: _____		
8. RSD CF (≤ 15%)	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____		

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2013 Rev 4 (08/22/2013)

Analyst: Ryan Nelson	Sequence #: 6K21024, 6K21025, 6K21026
Reviewer: 0	Dataset ID #: MHg27001-161118-1
Date: 11/21/2016	WO #: NA
Batch #(s): F611323, F611352, F611388	Client(s): 0

Analyst Initials:

Reviewer Initials:

	Analyst Initials:	Reviewer Initials:
9. ICV % Recoveries 67-133% Comments: <i>Initial ICV was not spiked.</i>	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
10. CCV % Recoveries 67-133% Comments: <i>CCV6 failed. All analyses after CCV5 are not reportable except for blks.</i>	<input checked="" type="checkbox"/> PASS <input checked="" type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
11. Are the absolute value of the ICB and CCBs < PQL? Comments:	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%) Comments:	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
13. LCS/LCSD or BS/BSD RPD (< 25%) Comments:	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
14. Water: Average of Preparation Blanks < 0.045 ng/L and standard deviation of 0.015 ng/L? Comments:	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix? Comments:	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
17. Is the correct 'Source' designated for MD/MS/MSD?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
18. For digested preps: was there a spike witness signature & date on the prep bench sheet?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
19. MD RPD/MT RSD(< 35%) Comments:	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
20. Is there one set of MS/MSD per every 10 samples? Comments:	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
21. MS/MSD RPD(< 35%) Comments:	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
22. MS (AS) % Recoveries (65-130%) Comments:	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
23. MSD (ASD) % Recoveries (65-130%) Comments:	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/>
25. Are all samples within instrument calibration range (or at maximum aliquot size)? Comments:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
26. For instrumental dilutions, is the dilution factor in excel correct? Is the sample volume, diluents, and final volume of the dilution noted on benchsheet?	<input type="checkbox"/> PASS <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
27. Dissolved < Total metals (if applicable) Comments:	<input type="checkbox"/> PASS <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
28. Effluent < Influent metals (visually confirm if needed) Comments:	<input type="checkbox"/> PASS <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2013 Rev 4 (08/22/2013)

Analyst: Ryan Nelson	Sequence #: 6K21024, 6K21025, 6K21026
Reviewer: 0	Dataset ID #: MHg27001-161118-1
Date: 11/21/2016	WO #: NA
Batch #(s): F611323, F611352, F611388	Client(s): 0

Analyst Initials:

Reviewer Initials:

29. Are re-runs noted with reason? Comments: _____	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
30. For failing QC (CCV, CCB, PB, BS/BSD, CAL): Was a bubbler and trap test run before the analytical run continued? Comments: _____	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
31. Do re-run results compare to initial analysis (< 35% RPD)? Comments: _____	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
32. Are qualifiers consistent with the data review flowcharts? Comments: QM-15	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
33. Have non-reportable samples been imported into LIMS and clicked to non-reportable? Comments: _____	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
34. Have re-extracts been created for non-reportable samples?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
35. Narrations in MMO box in LIMS? Comments: _____				
36. Are there any HIGH QA projects within the data? If so, place dataset to the QA office.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		
37. Does the data set need scanning? <u>Files located at:</u> \\Cuprum\gen_admin\Quality Assurance\Training Master\DOCs	<input checked="" type="checkbox"/> YES		<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
38. Date of analyst IDOC/CDOC: <u>2/22/2016</u> IDOC/CDOC within last 12 months?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
39. Date of analyst's SOP reading: <u>6/8/2016</u> Current SOP revision?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
40. Date of LOD: <u>7/7/2016</u> LOD within last 3 months (within 12 months for MDN)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
41. Date of LOQ: <u>7/7/2016</u> LOQ within last 3 months (within 12 months for MDN)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
42. If MDN samples, date of last MDL study: _____				
43. MDL study within last 12 months?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Data can not be reported without a current IDOC/CDOC, LOD or LOQ.				
Additional Comments:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		<input checked="" type="checkbox"/>



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Lab Number: L1634797

Client: AMEC Foster Wheeler E & I, Inc.

ATTN: Rod Pendleton

Project Name: USDC PENOBSCOT

Project Number: 3616166052.04.04

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Sample Delivery Group Information



Sample Delivery Group Form

Laboratory Job number: L1634797

Project Manager: Elizabeth Porta

Review Date: 10/31/2016

Project Number: 3616166052.04.04

Project Name: USDC PENOBSCOT

Received: 10/27/2016 12:15

Client Account: AMEC Foster Wheeler E & I, Inc.

Received by: WM

Samples Delivered by: COURIER

Call Tracker #

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt 8

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPV Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	2.3 - IR Gun	No	No

LIMS Chain of Custody

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 08 2016, 05:58 pm

Login Number: L1634797

Account: AMEC-ME AMEC Foster Wheeler E & I, Inc. Project: 3616166052.04.04

Sample # Client ID Received: 27OCT16 Due Date: 03NOV16
Mat PR Collected Container

L1634797-01 WQ1B-C_102516_SW_10 1 S0 25OCT16 12:30 2-Plastic-Al,19-Vial-D

Please narrate that MS/DUP performed in lieu of MS/MSD due to LIMS limitations L1634797-01 MS
L1634797-01 MSD DPKG-FULL Package Due Date: 11/03/16

DOC-9060,DPKG-FULL,MS/MSD,TOC-9060,TSS-2540

L1634797-02 ES15_102616_SW_10 1 S0 26OCT16 11:00 1-Plastic-Al,6-Vial-D

| Package Due Date: 11/03/16

DOC-9060,TOC-9060,TSS-2540

L1634797-03 WQ-FPT_102616_SW_10 1 S0 26OCT16 11:45 1-Plastic-Al,6-Vial-D

| Package Due Date: 11/03/16

DOC-9060,TOC-9060,TSS-2540

L1634797-04 WQ-ECH_102616_SW_10 1 S0 26OCT16 12:20 1-Plastic-Al,6-Vial-D

| Package Due Date: 11/03/16

DOC-9060,TOC-9060,TSS-2540

L1634797-05 WQ-3-L_102616_SW_10 1 S0 26OCT16 13:20 1-Plastic-Al,6-Vial-D

| Package Due Date: 11/03/16

DOC-9060,TOC-9060,TSS-2540

L1634797-06 WQ-2-C_102616_SW_10 1 S0 26OCT16 14:05 1-Plastic-Al,6-Vial-D

| Package Due Date: 11/03/16

DOC-9060,TOC-9060,TSS-2540

L1634797-07 OV-02_102616_SW_10 1 S0 26OCT16 17:50 1-Plastic-Al,6-Vial-D

| Package Due Date: 11/03/16

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 08 2016, 05:58 pm

Login Number: L1634797

Account: AMEC-ME AMEC Foster Wheeler E & I, Inc. Project: 3616166052.04.04

Sample #	Client ID	Received: 27OCT16 Mat PR Collected	Due Date: 03NOV16 Container
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DOC-9060,TOC-9060,TSS-2540

L1634797-08 EB_102616_SW_QC 1 S0 26OCT16 17:25 6-Vial-D

| Package Due Date: 11/03/16

DOC-9060,TOC-9060

L1634797-09 WQ1B-C_102516_SW_10 1 S0 25OCT16 12:30 10-Vial-D

Report data same as Duplicate of L1634797-01 Package Due Date: 11/03/16

DOC-9060,TOC-9060,TSS-2540

Page 2

Logged By: Elizabeth Porta

Container Tracking

**ALPHA ANALYTICAL LABORATORIES
Container Tracking Report**

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-01A Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-01A Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01A Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01A Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01A1 Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-01A1 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01A1 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01A1 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01A2 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01A2 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01A2 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01A3 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01A3 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01A3 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01B Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-01B Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01B Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01B Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01B1 Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-01B1 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01B1 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01B1 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01B2 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01B2 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01B2 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-01B3 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01B3 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01B3 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01C Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-01C Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01C Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01C Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01C1 Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-01C1 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01C1 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01C1 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01C2 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01C2 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01C2 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01D Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-01D Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01D Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01D Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01D1 Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-01D1 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01D1 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01D1 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01D2 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01D2 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01D2 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-01D3 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01D3 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01D3 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	William McClendon	CUSTODY	CUSTODY	William McClendon
L1634797-01E Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-01E Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01E Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01E Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01E1 Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-01E1 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01E1 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01E1 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01E2 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01E2 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01E2 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01E3 Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-01E3 Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-01E3 Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	William McClendon	CUSTODY	CUSTODY	William McClendon
L1634797-01F Plastic-A1	INTACT	31-OCT-16		RETURN WALK-IN CUSTODY	Christina Mazza	W18-S2-C CUSTODY	W18-S2-C CUSTODY	Christina Mazza
L1634797-01F Plastic-A1	INTACT	30-OCT-16	CUSTODY	WETCHEM	Samantha Garner	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Samantha Garner
L1634797-01F Plastic-A1	INTACT	30-OCT-16	CUSTODY	W1-S2-B CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1634797-01F Plastic-A1	INTACT	29-OCT-16		CUSTODY	Graham Phillips	W1-S2-B CUSTODY	W1-S2-B CUSTODY	Graham Phillips
L1634797-01F Plastic-A1	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-01F1 Plastic-A1	INTACT	31-OCT-16		RETURN WALK-IN CUSTODY	Christina Mazza	W18-S2-C CUSTODY	W18-S2-C CUSTODY	Christina Mazza
L1634797-01F1 Plastic-A1	INTACT	30-OCT-16	CUSTODY	WETCHEM	Samantha Garner	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Samantha Garner
L1634797-01F1 Plastic-A1	INTACT	30-OCT-16	CUSTODY	W1-S2-B CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-01F1 Plastic-A1	INTACT	29-OCT-16		CUSTODY	Graham Phillips	W1-S2-B CUSTODY	W1-S2-B CUSTODY	Graham Phillips
L1634797-01F1 Plastic-A1	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-02A Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-02A Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-02A Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-02A Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-02B Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-02B Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-02B Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-02B Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-02C Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-02C Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-02C Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-02C Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-02D Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-02D Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-02D Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-02D Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-02E Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-02E Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-02E Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-02E Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-02F Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-02F Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-02F Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-02F Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-02G Plastic-A1	EMPTY	30-OCT-16	CUSTODY	WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1634797-02G Plastic-A1	INTACT	30-OCT-16	CUSTODY	W1-S2-B CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1634797-02G Plastic-A1	INTACT	29-OCT-16		CUSTODY	Graham Phillips	W1-S2-B CUSTODY	W1-S2-B CUSTODY	Graham Phillips
L1634797-02G Plastic-A1	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-03A Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-03A Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-03A Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-03A Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-03B Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-03B Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-03B Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-03B Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-03C Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-03C Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-03C Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-03C Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-03D Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-03D Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-03D Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-03D Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-03E Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-03E Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-03E Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-03E Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-03F Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-03F Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-03F Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-03F Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-03G Plastic-A1	EMPTY	31-OCT-16		WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1634797-03G Plastic-A1	INTACT	31-OCT-16	CUSTODY	W1-S2-B CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1634797-03G Plastic-A1	INTACT	29-OCT-16		CUSTODY	Graham Phillips	W1-S2-B CUSTODY	W1-S2-B CUSTODY	Graham Phillips
L1634797-03G Plastic-A1	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-04A Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-04A Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-04A Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-04A Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-04B Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-04B Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-04B Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-04B Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-04C Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-04C Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-04C Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-04C Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-04D Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-04D Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-04D Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-04D Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-04E Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-04E	Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-04E	Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-04E	Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-04F	Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-04F	Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-04F	Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-04F	Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-04G	Plastic-A1	EMPTY	31-OCT-16		WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1634797-04G	Plastic-A1	INTACT	31-OCT-16	CUSTODY	W1-S2-B CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1634797-04G	Plastic-A1	INTACT	29-OCT-16		CUSTODY	Graham Phillips	W1-S2-B CUSTODY	W1-S2-B CUSTODY	Graham Phillips
L1634797-04G	Plastic-A1	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-05A	Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-05A	Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-05A	Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-05A	Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-05B	Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-05B	Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-05B	Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-05B	Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-05C	Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-05C	Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-05C	Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-05C	Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-05D	Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-05D	Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-05D Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-05D Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-05E Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-05E Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-05E Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-05E Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-05F Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-05F Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-05F Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-05F Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-05G Plastic-A1	EMPTY	31-OCT-16		WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1634797-05G Plastic-A1	INTACT	31-OCT-16	CUSTODY	W1-S2-B CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1634797-05G Plastic-A1	INTACT	29-OCT-16		CUSTODY	Graham Phillips	W1-S2-B CUSTODY	W1-S2-B CUSTODY	Graham Phillips
L1634797-05G Plastic-A1	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-06A Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-06A Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-06A Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-06A Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-06B Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-06B Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-06B Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-06B Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-06C Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-06C Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-06C Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-06C Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-06D Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-06D Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-06D Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-06D Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-06E Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-06E Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-06E Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-06E Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-06F Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-06F Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-06F Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-06F Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-06G Plastic-A1	EMPTY	31-OCT-16		WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1634797-06G Plastic-A1	INTACT	31-OCT-16	CUSTODY	W1-S2-B CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1634797-06G Plastic-A1	INTACT	29-OCT-16		CUSTODY	Graham Phillips	W1-S2-B CUSTODY	W1-S2-B CUSTODY	Graham Phillips
L1634797-06G Plastic-A1	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-07A Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-07A Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-07A Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-07A Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-07B Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-07B Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-07B Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-07B Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-07C Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-07C Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-07C Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-07C Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-07D Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-07D Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-07D Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-07D Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-07E Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-07E Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-07E Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-07E Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-07F Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-07F Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-07F Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-07F Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-07G Plastic-A1	EMPTY	31-OCT-16		WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1634797-07G Plastic-A1	INTACT	31-OCT-16	CUSTODY	W1-S2-B CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1634797-07G Plastic-A1	INTACT	29-OCT-16		CUSTODY	Graham Phillips	W1-S2-B CUSTODY	W1-S2-B CUSTODY	Graham Phillips
L1634797-07G Plastic-A1	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-08A Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-08A Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-08A Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-08A Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-08B Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-08B Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-08B Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-08B Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-08C Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-08C Vial-D	INTACT	31-OCT-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-08C Vial-D	INTACT	29-OCT-16		CUSTODY	Sharon Hoffman	WALK-IN CUSTODY	WALK-IN CUSTODY	Sharon Hoffman
L1634797-08C Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-08D Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-08D Vial-D	INTACT	31-OCT-16	CUSTODY	CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-08D Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-08E Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-08E Vial-D	INTACT	31-OCT-16	CUSTODY	CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-08E Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-08F Vial-D	INTACT	01-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-08F Vial-D	INTACT	31-OCT-16	CUSTODY	CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-08F Vial-D	INTACT	28-OCT-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1634797-09A2 Vial-D	INTACT	08-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-09A2 Vial-D	INTACT	08-NOV-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-09A2 Vial-D	INTACT	01-NOV-16	W2-S2-D CUSTODY	CUSTODY	John Figueroa	WALK-IN CUSTODY	WALK-IN CUSTODY	John Figueroa
L1634797-09A2 Vial-D	INTACT	01-NOV-16	LOGIN	LOGIN	Elizabeth Ryan	CUSTODY	CUSTODY	Elizabeth Ryan
L1634797-09A3 Vial-D	INTACT	08-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-09A3 Vial-D	INTACT	08-NOV-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-09A3 Vial-D	INTACT	01-NOV-16	W2-S2-D CUSTODY	CUSTODY	John Figueroa	WALK-IN CUSTODY	WALK-IN CUSTODY	John Figueroa
L1634797-09A3 Vial-D	INTACT	01-NOV-16	LOGIN	LOGIN	Elizabeth Ryan	CUSTODY	CUSTODY	Elizabeth Ryan
L1634797-09B2 Vial-D	INTACT	08-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-09B2 Vial-D	INTACT	08-NOV-16	CUSTODY	WALK-IN	CUSTODY Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-09B2 Vial-D	INTACT	01-NOV-16	W2-S2-D CUSTODY	CUSTODY	John Figueroa	WALK-IN CUSTODY	WALK-IN CUSTODY	John Figueroa
L1634797-09B2 Vial-D	INTACT	01-NOV-16	LOGIN	LOGIN	Elizabeth Ryan	CUSTODY	CUSTODY	Elizabeth Ryan
L1634797-09B3 Vial-D	INTACT	08-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-09B3 Vial-D	INTACT	08-NOV-16	CUSTODY	WALK-IN	CUSTODY Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-09B3 Vial-D	INTACT	01-NOV-16	W2-S2-D CUSTODY	CUSTODY	John Figueroa	WALK-IN CUSTODY	WALK-IN CUSTODY	John Figueroa
L1634797-09B3 Vial-D	INTACT	01-NOV-16	LOGIN	LOGIN	Elizabeth Ryan	CUSTODY	CUSTODY	Elizabeth Ryan
L1634797-09C2 Vial-D	INTACT	08-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-09C2 Vial-D	INTACT	08-NOV-16	CUSTODY	WALK-IN	CUSTODY Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-09C2 Vial-D	INTACT	01-NOV-16	W2-S2-D CUSTODY	CUSTODY	John Figueroa	WALK-IN CUSTODY	WALK-IN CUSTODY	John Figueroa
L1634797-09C2 Vial-D	INTACT	01-NOV-16	LOGIN	LOGIN	Elizabeth Ryan	CUSTODY	CUSTODY	Elizabeth Ryan
L1634797-09D2 Vial-D	INTACT	08-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-09D2 Vial-D	INTACT	08-NOV-16	CUSTODY	WALK-IN	CUSTODY Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-09D2 Vial-D	INTACT	01-NOV-16	W2-S2-D CUSTODY	CUSTODY	John Figueroa	WALK-IN CUSTODY	WALK-IN CUSTODY	John Figueroa
L1634797-09D2 Vial-D	INTACT	01-NOV-16	LOGIN	LOGIN	Elizabeth Ryan	CUSTODY	CUSTODY	Elizabeth Ryan
L1634797-09D3 Vial-D	INTACT	08-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-09D3 Vial-D	INTACT	08-NOV-16	CUSTODY	WALK-IN	CUSTODY Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-09D3 Vial-D	INTACT	01-NOV-16	W2-S2-D CUSTODY	CUSTODY	John Figueroa	WALK-IN CUSTODY	WALK-IN CUSTODY	John Figueroa
L1634797-09D3 Vial-D	INTACT	01-NOV-16	LOGIN	LOGIN	Elizabeth Ryan	CUSTODY	CUSTODY	Elizabeth Ryan
L1634797-09E2 Vial-D	INTACT	08-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-09E2 Vial-D	INTACT	08-NOV-16	CUSTODY	WALK-IN	CUSTODY Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1634797-09E2 Vial-D	INTACT	01-NOV-16	W2-S2-D CUSTODY	CUSTODY	John Figueroa	WALK-IN CUSTODY	WALK-IN CUSTODY	John Figueroa
L1634797-09E2 Vial-D	INTACT	01-NOV-16	LOGIN	LOGIN	Elizabeth Ryan	CUSTODY	CUSTODY	Elizabeth Ryan
L1634797-09E3 Vial-D	INTACT	08-NOV-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1634797-09E3 Vial-D	INTACT	08-NOV-16	CUSTODY	WALK-IN	CUSTODY Deb Whelan	WETCHEM	WETCHEM	Deb Whelan

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1634797-09E3 Vial-D	INTACT	01-NOV-16	W2-S2-D CUSTODY	CUSTODY	John Figueroa	WALK-IN CUSTODY	WALK-IN CUSTODY	John Figueroa
L1634797-09E3 Vial-D	INTACT	01-NOV-16	LOGIN	LOGIN	Elizabeth Ryan	CUSTODY	CUSTODY	Elizabeth Ryan
L1634797-09F1 Vial-D	EMPTY	02-NOV-16		WETCHEM	Minh Ly	CUSTODY	CUSTODY	Minh Ly
L1634797-09F1 Vial-D	INTACT	01-NOV-16	CUSTODY	W2-S2-D CUSTODY	Minh Ly	WETCHEM	WETCHEM	Minh Ly
L1634797-09F1 Vial-D	INTACT	01-NOV-16	W2-S2-D CUSTODY	CUSTODY	John Figueroa	W2-S2-D CUSTODY	W2-S2-D CUSTODY	John Figueroa
L1634797-09F1 Vial-D	INTACT	31-OCT-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta

Communications

Call Tracker Report

Call # 90753

Call #: 90753
Call Date: 11/01/16 11:10
Status: NEED
Date: 11/01/16 11:10
Operator: LPORTA
Type: Live

Contact:
Company: AMEC Foster Wheeler E & I, Inc.
Acct #: AMEC-ME
Project #: 3616166052.04.04
Client Proj: USDC PENOBSCOT
Login #: L1634797

Call Details

King, Denise
Attachments: 1:52 PM

Hi Liz,

Sample WQ1B-C_102516_SW_10_DUP should be logged in as a field duplicate, can you please have this corrected?

Thanks,
Denise King
Senior Environmental Chemist, Environment & Infrastructure, Amec Foster Wheeler
T +1 978 392 5339
M +1 508 789 1738
Denise.king@amecfw.com

Samplel -01 w/ QC was run. Per Denise there was no difference in the field collection of the sample and the Dup. Lab should choose one Replicate and report as field Dup sample - 09. EMP 11/3/16

Chain of Custody



CHAIN OF CUSTODY

PAGE 1 OF 2

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab: 10/27/16

ALPHA Job #: L16034797

Project Information

Project Name: B5DC PONDSCOT

Project Location: PONDSCOT

Project #: 3616166052.04.04

Project Manager: N. WALTER

ALPHA Quote #:

Turn-Around Time Standard RUSH (only confirmed if pre-approved!)

Date Due:

Report Information - Data Deliverables ADEX EMAIL**Billing Information** Same as Client info PO #:**Client Information**

Client: AMEC FOSTER WHEELER

Address: 511 CONGRESS ST

STE 250 PORTLAND ME

Phone: 207-775-5401

Email: DENISE.KING@AMECFW.COM

Additional Project Information:

FIELD FILTERED
PRESERVED - (PRESAMPLE FROM LAB)
~~FED BY~~ COURIER DELIVERY
MATRIX - BRACKISH WATER

PG 1 OF 2

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program Criteria

ANALYSIS	VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2
	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH
	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15
	EPH: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PPI3
	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only
	<input type="checkbox"/> PCB <input type="checkbox"/> PEST
	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint
	DOC SW 846 19060 40ml
	TDC SW 846 19060 40ml
	TSS 2450 19060 40ml
	2450 DLP 40ml
	40ml C

SAMPLE INFO

Filtration
 Field
 Lab to do

Preservation
 Lab to do

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
34797-01	WQ16-C-102516-SW-10	10/25/16	1230	Liquid	K.B
02	ES15-102616-SW-10	10/26/16	1100		
01	WQ16-C-102516-SW-10-DJP	10/25/16	1230		
01	WQ16-C-102516-SW-10-MS	10/25/16	1230		
01	WQ16-C-102516-SW-10-MD	10/25/16	1230		
03	WQ-FPT-102616-SW-10	10/26/16	1145		
04	WQ-ECH-102616-SW-10	10/26/16	1220		
05	WQ-3-L-102616-SW-10		1320		
06	WQ-2-C-102616-SW-10		1405		
07	OV-02-102616-SW-10		1750		

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type

Preservative

A A P

D D N

Relinquished By:

Date/Time

Received By:

Date/Time

[Signature]
Ambrogiant
T. Hurdell

10/27/16 1100
10/27/16 1630
10/27/16

[Signature]
Ambrogiant
T. Hurdell

10/27/16 1215
10/27/16 1630
10/27/16 2000

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 2 OF 2Date Rec'd in Lab: 10/27/16ALPHA Job #: LIC0347978 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300**Project Information**Project Name: USDC POWOSCO**Report Information - Data Deliverables** ADEX EMAIL**Billing Information** Same as Client info PO #:**Client Information**Client: KMCC FOSTER WHEELERAddress: 511 CONGRESS ST
STE 200 PORTLAND MEPhone: 207-775-5401Email: DENISE.KING@KMCCFW.COMProject Location: POWOSCOProject #: 3616166052-04-04Project Manager: N. WALTER

ALPHA Quote #:

Regulatory Requirements & Project Information Requirements Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program _____ Criteria _____**Turn-Around Time** Standard RUSH (only confirmed if pre-approved!)

Date Due:

Additional Project Information:

SEE PG 1PG 2 OF 2

ALPHA Lab ID (Lab Use Only) Sample ID Collection Date Time Sample Matrix Sampler Initials

34797-08 EB-102616-SW-QC 10/26/16 1725 LIQUID FCB

ANALYSIS	
VOC: <input type="checkbox"/> 8280 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	
SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	
METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8	
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	
VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	
PCB: <input type="checkbox"/> PEST	
TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	
<u>DOC SW 646/906</u> <u>1902 AG</u>	
<u>TPC SW 846/906</u> <u>17504</u>	
<u>TSS</u> <u>7042 AG</u>	
<u>TSS</u> <u>17504</u>	
SAMPLE INFO	
Filtration	
<input type="checkbox"/> Field	
<input type="checkbox"/> Lab to do	
Preservation	
<input type="checkbox"/> Lab to do	
Sample Comments	

TOTAL # BOTTLES

3 3
29 32 TOTAL 8 TOTAL

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type

Preservative

A	A	P
D	D	N

Relinquished By:

Date/Time

Received By:

Date/Time

X-B
Amberger
T. Handall10/27/16 1100
10/27/16 1630
10/27/16Amberger
T. Handall
SD10/27/16 1215
10/27/16 1430
10/27/16 2000

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side. FORM NO. 01-01 (rev. 12-Mar-2012)

Wet Chemistry

Total Suspended Solids Analysis

Sample Raw Data

ALPHA ANALYTICAL LABS
WET CHEMISTRY DEPARTMENT
 TOTAL SUSPENDED SOLIDS

Last Change 3/4/13
 File tss.xlt

2540D (PPB)

2540D

Get Samples

Save to LIMS

METHODS

Sample Number: Oven C Product: TSS-2540
 In104 16:00 Analyte: Solids, Total Suspended
 Client: Out 5:55 10/31/16 Analysis Date: 10/30/2016 14:25
 In 11:50 Technician: SG
 Analysis: T S S Out 13:10 Work group: WG947309
 Method: SM 2540D In 15:00 RDL: 5.0 mg/l
 Out 0:18 11/01/16

4

	Sample Number	Symbol	Tare Weight (gm)	Sample Volume (ml)	Net Weight(1) (gm)	Net Weight(2) (gm)	Net Weight(3) (gm)	Net Weight(4) (gm)	RDL MULT.	RESULT mg/l
BLANK	WG947309-1	23	0.43	1000	0.4298	0.4307	0.4304			0.00
DUP	WG947309-2	120	0.4331	500	0.4628	0.4628			2	59.40
SAMP	L1634626-01	121	0.4322	500	0.4595	0.4591			2	53.80
	L1634653-01	122	0.4299	215	0.4292	0.4302	0.4304		5	0.00
	L1634653-02	123	0.4292	290	0.4299	0.4308	0.4305		3	2.41
	L1634653-03	124	0.4324	185	0.4320	0.4331	0.4325		5	0.00
	L1634653-05	125	0.4315	255	0.4318	0.4325	0.4322		4	1.18
SAMP	L1634661-01	126	0.4318	1065	0.4468	0.4472				14.08
SAMP	L1634661-02	127	0.4311	1070	0.4361	0.4364				4.67
SAMP	L1634797-02	128	0.4303	1070	0.4391	0.4391				8.22
SAMP	L1634994-03	129	0.4322	900	0.4320	0.4332	0.4325			0.00
SAMP	L1634994-04	130	0.4319	730	0.4324	0.4329			2	0.68
			DUP-TARE:	0.46280	0.43310	0.02970				64174.59
			Sample-TARE:	0.45950	0.43220	0.02730				59412.40
			DUP weight (g) on the filter:			0.02970				
			Sample weight (g) on the filter:			0.02730				
			Ave weight (g) on the filter:			0.02850				
			DUP%:			104.2				
			Sample%:			95.8				

ALPHA ANALYTICAL LABS
WET CHEMISTRY DEPARTMENT
 TOTAL SUSPENDED SOLIDS

Last Change 3/4/13
 File tss.xlt

2540D (PPB)

2540D

Get Samples

Save to LIMS

METHODS

Sample Number: Oven C Product: TSS-2540
 In104 16:00 Analyte: Solids, Total Suspended
 Client: Out 5:55 10/31/16 Analysis Date: 10/30/2016 14:25
 In 11:50 Technician: SG
 Analysis: T S S Out 13:10 Work group: WG947307
 Method: SM 2540D In 15:00 RDL: 5.0 mg/l
 Out 0:18 11/01/16

3

	Sample Number	Symbol	Tare Weight (gm)	Sample Volume (ml)	Net Weight(1) (gm)	Net Weight(2) (gm)	Net Weight(3) (gm)	Net Weight(4) (gm)	RDL MULT.	RESULT mg/l
BLANK	WG947307-1	23	0.43	1000	0.4298	0.4307	0.4304			0.00
DUP	WG947307-2	24	0.4304	1000	0.4386	0.4397	0.4395			8.20
	L1634436-01	25	0.4305	400	0.4645	0.4648			2	85.00
	L1634463-07	26	0.4319	1070	0.4311	0.4317	0.4317			0.00
	L1634483-02	27	0.4305	1150	0.4324	0.4327				1.65
SAMP	L1634537-09	28	0.4304	300	0.4512	0.4506	0.4512		3	67.33
SAMP	L1634721-01	29	0.429	300	0.4507	0.4514	0.4514		3	72.33
SAMP	L1634723-01	30	0.4304	400	0.4656	0.4661			2	88.00
SAMP	L1634724-01	116	0.4312	300	0.4586	0.4590			3	91.33
SAMP	L1634797-01	117	0.4301	1000	0.4373	0.4374				7.20
	L1634832-01	118	0.4305	750	0.5204	0.5203			2	119.73
SAMP	L1634963-01	119	0.4299	300	0.4784	0.4788			3	161.67
	L1634797-09	24	0.4304	1000	0.4386	0.4397	0.4395			8.20
	DUP-TARE:			0.43970	0.43040	0.00930				21150.78
	Sample-TARE:			0.43740	0.43010	0.00730				16689.53
	DUP weight (g) on the filter:					0.00930				
	Sample weight (g) on the filter:					0.00730				
	Ave weight (g) on the filter:					0.00830				
	DUP%:					112.0				
	Sample%:					88.0				

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 08 2016, 04:24 pm

Work Group: WG947307 for Department: 7 Wet Chemistry

Created: 30-OCT-16 Due: Operator: SG

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1634436-01	FMC 161025	S TSS-2540	WATER	DONE	U	1102	1102	S0	Plastic-A1
L1634463-07	PT-4	S TSS-2540	WATER	DONE	U	1102	1109	S0	Plastic-A1
L1634483-02	0101 COMPOSITE	S TSS-2540	WATER	DONE	U	1102	1102	S0	Plastic-A1
L1634537-09	LEACHATE	S TSS-2540	WATER	DONE	U	1102	1102	S0	Plastic-A1
L1634721-01	WW17-161027-1030	S TSS-2540	WATER	DONE	U	1103	1101	1C	Plastic-A1
L1634723-01	WW18-161027-1230	S TSS-2540	WATER	DONE	U	1103	1101	1C	Plastic-A1
L1634724-01	WW19-161027-1300	S TSS-2540	WATER	DONE	U	1103	1101	1C	Plastic-A1
L1634797-01	WQ1B-C_102516_SW_10	S TSS-2540	WATER	DONE	U	1101	1103	S0	Plastic-A1
L1634797-09	WQ1B-C_102516_SW_10_	S TSS-2540	WATER	DONE	U	1101	1103	S0	Plastic-A1
L1634832-01	20161027 ME-20R	C TSS-2540	WATER	DONE	U	1103	1102	S0	Plastic-A1
L1634963-01	WW20-161028-1400	S TSS-2540	WATER	DONE	U	1104	1102	1C	Plastic-A1
WG947307-1	Laboratory Method Bl	S TSS-2540	WATER	DONE	U				
WG947307-2	Duplicate Sample	S TSS-2540	WATER	DONE	U				

Comments:

WG947307-2 L1634797-01

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 08 2016, 04:24 pm

Work Group: WG947309 for Department: 7 Wet Chemistry

Created: 30-OCT-16 Due: Operator: SG

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1634626-01	566	S TSS-2540	WATER	DONE	U	1102	1104	S0	Plastic-A1
L1634653-01	AF-9B1	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634653-02	CM-9B1	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634653-03	MD-9B1	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634653-05	CM-B92	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634661-01	EFF BLDG SUMP	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634661-02	INF BLDG SUMP	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634797-02	ES15_102616_SW_10	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634994-03	170531	S TSS-2540	WATER	DONE	U	1104	1102	1C	Plastic-A1
L1634994-04	170532	S TSS-2540	WATER	DONE	U	1104	1102	1C	Plastic-A1
WG947309-1	Laboratory Method Bl	S TSS-2540	WATER	DONE	U				
WG947309-2	Duplicate Sample	S TSS-2540	WATER	DONE	U				

Comments:

WG947309-2 L1634626-01

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 08 2016, 04:24 pm

Work Group: WG947534 for Department: 7 Wet Chemistry

Created: 31-OCT-16 Due: Operator: SG

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1634579-01	0101 COMPOSITE	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634627-01	173	S TSS-2540	WATER	DONE	U	1102	1104	S0	Plastic-A1
L1634644-01	COMP WASTE WATER DIS	S TSS-2540	WATER	DONE	U	1102	1110	S0	Plastic-A1
L1634783-01	OUTFALL 001 COMPOSIT	S TSS-2540	WATER	DONE	U	1102	1104	S0	Plastic-A1
L1634797-03	WQ-FPT_102616_SW_10	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634797-04	WQ-ECH_102616_SW_10	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634797-05	WQ-3-L_102616_SW_10	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634797-06	WQ-2-C_102616_SW_10	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634797-07	OV-02_102616_SW_10	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
L1634799-01	EFFLUENT	S TSS-2540	WATER	DONE	U	1102	1103	S0	Plastic-A1
WG947534-1	Laboratory Method Bl	S TSS-2540	WATER	DONE	U				
WG947534-2	Duplicate Sample	S TSS-2540	WATER	DONE	U				

Comments:

WG947534-2 L1634579-01

Organic Carbon Analysis

Sequence Logs

DATE: MON 103116	STOCK STDS ID INFO:	WORKING STDS ID INFO:
ANALYST: ⑧	LOT #'s:	LOT #'s:
CURVE INFO:	2000 PPM CURVE SLN: TDC-050916-C	2 PPM ICV: TDC-103116-CCV
CURVE IN USE: 052516 TDC-4	2000 PPM ICV/LCS/SPK SLN: TDC-050916-W	2 PPM LCS: TDC-103116-CCS
	4000 PPM IC CK STD SLN: TDC-090916-CC	4 PPM SPK: TDC-103116-SPK
	400	10 PPM IC CK STD: TDC-103116-IC

POSITION	SAMPLE	DIL X	PH	COMMENTS	POSITION	SAMPLE	DIL X	PH	COMMENTS
1	DC				21	34797.3	2	2	Sec TOC
2	CCV 2ppm				22	4	2	2	
3	CCV 2ppm				23	5	2	2	↓
4	CCV				24	6	2	2	
5	inb				25	⑧ 8 (EB)	1	2	
6	CCS 2ppm				26	8 7	2	2	
7	34797.8 EB	1	2	TOC (FF)	27	CCV 2ppm			
8	1	2	2	(Sec) bubbles	28	CCS			
9	2	2	2	↓ 2x ↓	29	34797.1 dup	2	2	
10	3	2	2	(Sec) bubbles	30	1 spm	2	2	= 8ppm ↓
11	4	2	2	(Sec) bubbles	31	34797-2	1		
12	5 1x	2	2	1x ↓	32	-3	1		
13	6 1x	2	2	↓ 1x ↓	33	CCV			
14	7 1x	1	2	1x ↓	34	CCB			
15	CCV 2ppm								
16	CCS								
17	34797.2	1	2	TOC					
18	⑧ 5 1 dup	2	2	↓					
19	⑧ 6 1 spm	2	2	↓ = 8ppm					
20	3	1x	2	TOC					
21	4	1x	2	↓					
22	17 34797.1 dup	2	2	TOC					
23	18 1 spm	2	2	= 8ppm ↓					
24	19 34797.1	2	2	Sec TOC					
25	20	2	2	↓ ↓					

110116 note:
 34797.9 = .1

TOC ↓

Alpha Analytical, Inc.
 Facility: Westborough, MA
 Department: Wet Chemistry
 Title: TOC 4 Run Log

ID: 21540
 Revision: 1
 Published Date: 5/26/2016 5:13:01 AM
 Page 20 of 51

DATE: TUE 110816		STOCK STDS ID INFO:			WORKING STDS ID INFO:				
ANALYST: JA		LOT #s:			LOT #s:				
CURVE INFO:		2000 PPM CURVE SLN: TOC-110716-C			2 PPM ICV: TOC-110816-ICV				
CURVE IN USE: 110716 TOC-4		2000 PPM ICV/LCS/SPK SLN: TOC-110716-W			2 PPM LCS: TOC-110816-LCS				
		4000 PPM IC CK STD SLN: TOC-090916-			4 PPM SPK: TOC-110816-SPK				
		IC400			10 PPM IC CK STD: TOC-110816-IC				
POSITION	SAMPLE	DIL X	PH	COMMENTS	POSITION	SAMPLE	DIL X	PH	COMMENTS
1	DE								
2	ICV STD 10ppm								
3	ICV 2ppm								
4	ICV								
5	MB								
6	LCS 2ppm								
7	34797.9 TOC	2	2						
8	.9 dup	2	2						
9	.9 spk	5	2	= 20ppm					
10	CCV 2ppm								
11	CCV								
12	35524.7 BB	1	2						
13	" 1	2	2	scd					
14	2	4	2						
15	3	1	2						
16	4	1	2						
17	5	1	2						
18	6	2	2	scd					
19									
20									
21									

Sample Raw Data

ALPHA ANALYTICAL LABS
BACTERIA DEPARTMENT
TOTAL ORGANIC CARBON

Last Change 03/4/13 GFF File TOC/DOC.xlt

Sample Number: _____
Client: _____
Analysis: **TOC**
TOC Instrument ID: 4
Method: EPA 9060

Product: **TOC-9060**
Analyte: **Total Organic Carbon,**
Analysis Date: 10/31/2016 7:22
Technician: dw
Work group: wg947433
MDL: **0.5 mg/l**
Page Number:

LCS Conc. (ppm):	2
Spike Conc(ppm):	8

	Sample Number	COMMENTS	MDL Multiplier	RESULT mg/L	
DUP	WG947433-3		2	4.61	L1634797-01
SAMP	L1634797-01		2	4.61	
SAMP	L1634797-02		1	0.28	
SAMP	L1634797-03		1	0.23	
SAMP	L1634797-04	nd	2	0.35	
SAMP	L1634797-05	nd	2	0.99	
SAMP	L1634797-06		2	1.88	
SAMP	L1634797-07		2	5.33	
SAMP	L1634797-08		1	0.10	
	L1634797-09		2	4.61	
BLANK	WG947433-1		1	0.00	

	Sample	Comments	Result	Spike Conc	Spike Result	% Rec
MS	WG947433-4		4.61	8	13.3	109
LCS	WG947433-2			2	2.05	103

L16347

ALPHA ANALYTICAL LABS
BACTERIA DEPARTMENT
 TOTAL ORGANIC CARBON

Last Change 03/4/13 GFF File TOC/DOC.xlt

Sample Number: _____
 Client: _____
 Analysis: **TOC**
 TOC Instrument ID: 4
 Method: EPA 9060

Product: **TOC-9060**
 Analyte: **Total Organic Carbon,**
 Analysis Date: 11/8/2016 7:23
 Technician: DW
 Work group: WG949869
 MDL: **0.5 mg/l**
 Page Number:

LCS Conc. (ppm): 2
 Spike Conc(ppm): 20

	Sample Number	COMMENTS	MDL Multiplier	RESULT mg/L	
DUP	WG949869-3		2	4.01	L1634797-09
	L1634797-09		2	4.11	
	L1635524-01		2	2.14	
	L1635524-02		4	18.80	
	L1635524-03		1	1.80	
	L1635524-04		1	0.63	
	L1635524-05		1	6.74	
	L1635524-06		2	2.21	
	L1635524-07		1	0.21	
BLANK	WG949869-1		1	0.00	

	Comments	Sample Result	Spike Conc	Spike Result	% Rec
MS	WG949869-4	4.11	20	22.8	93
LCS	WG949869-2		2	1.94	97

L16347

ALPHA ANALYTICAL LABS
BACTERIA DEPARTMENT
 DISSOLVED ORGANIC CARBON

Last Change 03/4/13 GFF File TOC/DOC.xlt

Sample Number: _____
 Client: _____
 Analysis: **DOC**
 TOC Instrument ID: 4
 Method: EPA-9060

Product: **DOC-9060**
 Analyte: **Dissolved Organic Carbon,**
 Analysis Date: 10/31/2016 7:22
 Technician: dw
 Work group: wg947570
 MDL: **1.0 mg/l**
 Page Number:
 Preparation Date: 10/31/2016 7:22

LCS Conc. (ppm):	2
Spike Conc(ppm):	8

	Sample Number	COMMENTS	MDL Multiplier	RESULT mg/L	
DUP	WG947570-3		2	4.66	L1634797-01
SAMP	L1634797-01	docs ff	2	4.56	
SAMP	L1634797-02	nd	2	0.32	
SAMP	L1634797-03	nd	2	0.18	
SAMP	L1634797-04	nd	2	0.41	
SAMP	L1634797-05		1	0.64	
SAMP	L1634797-06		1	1.37	
SAMP	L1634797-07		1	5.67	
SAMP	L1634797-08		1	0.15	
	L1634797-09		2	4.66	
BLANK	WG947570-1		1	0.00	

	Sample	Comments	Result	Spike Conc	Spike Result	% Rec
MS	WG947570-4		4.56	8	13.3	109
LCS	WG947570-2			2	2.05	103

L16347

Date of Creation 1:50:02 PM 5/25/2016
 User dw
 System TOC-VW

Cal. Curve

Sample Name: 05252016 toc-4 curve
 Sample ID:
 Object ID: 0A-103073-10101000-133A00D1BDD8-0000
 Cal. Curve: 05252016 toc-4 curve.cal
 Status Completed
 Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.156	2500uL	1	*****	E	5/25/2016 12:00:56
2	6.706	2500uL	1	*****		5/25/2016 12:05:53
3	6.693	2500uL	1	*****		5/25/2016 12:10:46

Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 6.700
 SD Area 0.00919
 CV Area 0.14%
 Vial 1
 WetChem Oxid. 1.5mL

Conc: 0.2000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	46.95	2500uL	1	*****	E	5/25/2016 12:21:02
2	48.30	2500uL	1	*****		5/25/2016 12:26:05
3	49.49	2500uL	1	*****		5/25/2016 12:31:04

Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 48.90
 SD Area 0.8415
 CV Area 1.72%
 Vial 2
 WetChem Oxid. 1.5mL

Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	84.18	2500uL	1	*****		5/25/2016 12:41:23
2	85.60	2500uL	1	*****		5/25/2016 12:46:36

Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 84.89
 SD Area 1.004
 CV Area 1.18%
 Vial 3
 WetChem Oxid. 1.5mL

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	155.5	2500uL	1	*****		5/25/2016 12:57:13
2	157.0	2500uL	1	*****		5/25/2016 1:02:17 P

TOC-4
 curve
 052516

Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 156.3
 SD Area 1.061
 CV Area 0.68%
 Vial 4
 WetChem Oxid. 1.5mL

Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	314.5	2500uL	1	*****		5/25/2016 1:13:15 P
2	315.7	2500uL	1	*****		5/25/2016 1:18:33 P

Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 315.1
 SD Area 0.8485
 CV Area 0.27%
 Vial 5
 WetChem Oxid. 1.5mL

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	724.5	2500uL	1	*****		5/25/2016 1:29:50 P
2	727.8	2500uL	1	*****		5/25/2016 1:33:55 P

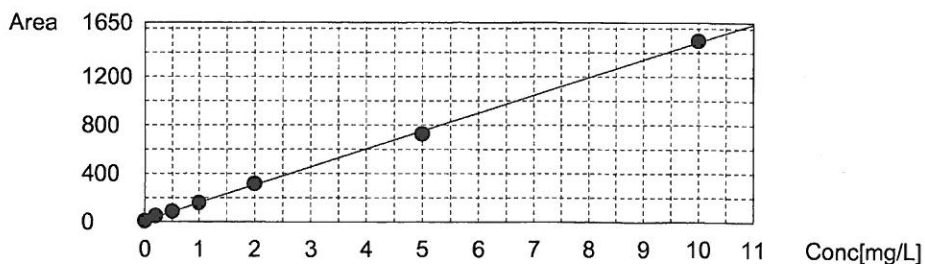
Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 726.2
 SD Area 2.333
 CV Area 0.32%
 Vial 6
 WetChem Oxid. 1.5mL

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1499	2500uL	1	*****		5/25/2016 1:45:22 P
2	1501	2500uL	1	*****		5/25/2016 1:50:02 P

Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 1500
 SD Area 1.414
 CV Area 0.09%
 Vial 7
 WetChem Oxid. 1.5mL

Slope: 148.0
 Intercept 10.11
 r^2 0.9995
 r 0.9998
 Zero Shift No



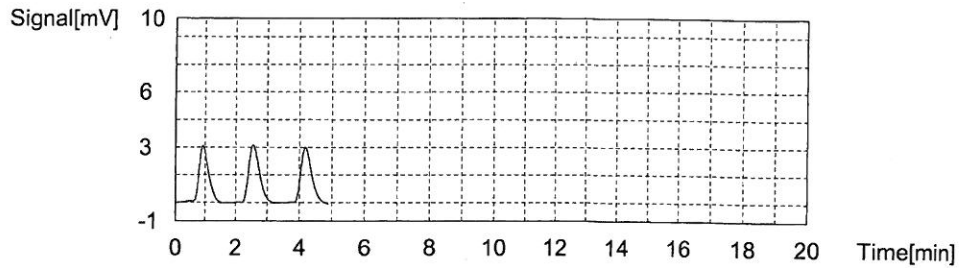
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02019mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.132	-0.02009mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	11/7/2016 10:32:59
2	7.515	-0.01751mg/L	2500uL	1	E	05252016 toc-4 curve.2016_05_21	11/7/2016 10:38:05
3	7.104	-0.02028mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	11/7/2016 10:43:11

Mean Area 7.118
 Mean Conc. -0.02019mg/



Cal. Curve

Sample Name:
 Sample ID:
 Cal. Curve:
 Status

new curve 11072016 toc-4

110716 toc-4.2016_11_07_11_04_35.cal
 Completed

TOC-4
 curve

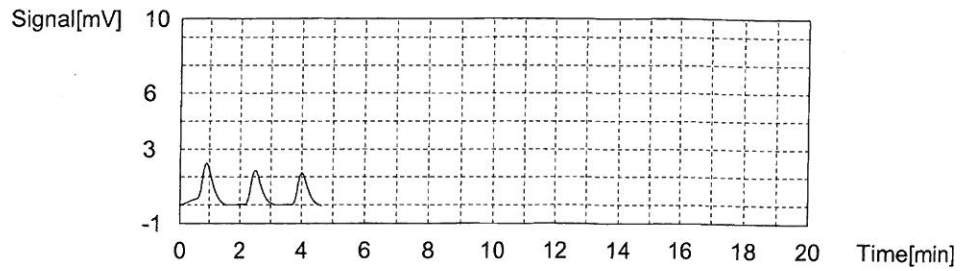
Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.658	2500uL	1	*****	E	11/7/2016 11:13:12
2	4.192	2500uL	1	*****		11/7/2016 11:18:20
3	3.785	2500uL	1	*****		11/7/2016 11:23:19

110716

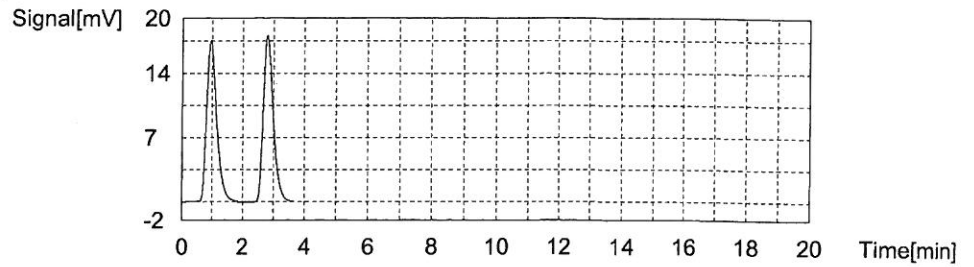
Acid Add. 3.000%
Sp. Time 180.0sec
Mean Area 3.989



Conc: 0.2000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	40.84	2500uL	1	*****		11/7/2016 11:33:54
2	41.81	2500uL	1	*****		11/7/2016 11:39:12

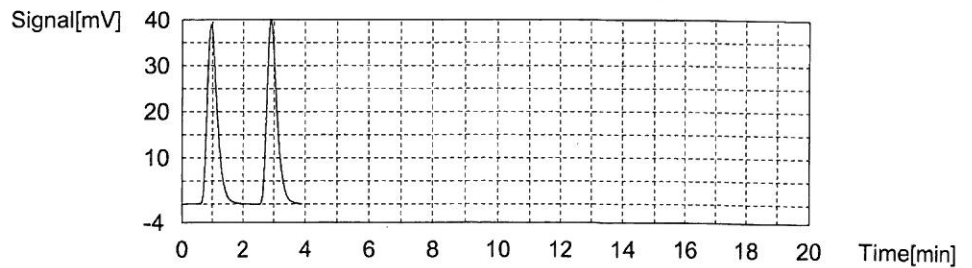
Acid Add. 3.000%
Sp. Time 180.0sec
Mean Area 41.33



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	90.57	2500uL	1	*****		11/7/2016 11:50:09
2	92.85	2500uL	1	*****		11/7/2016 11:54:27

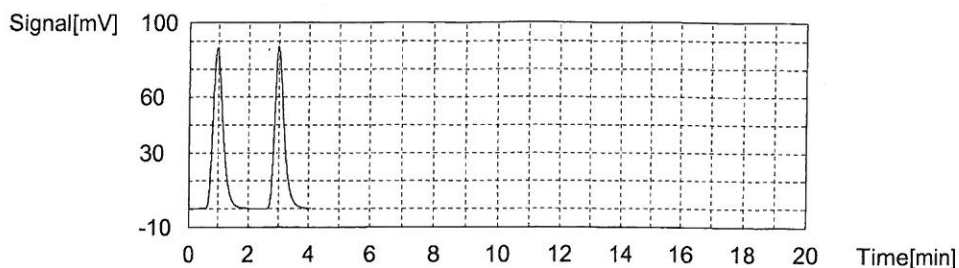
Acid Add. 3.000%
Sp. Time 180.0sec
Mean Area 91.71



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	197.7	2500uL	1	*****		11/7/2016 12:05:29
2	199.5	2500uL	1	*****		11/7/2016 12:09:49

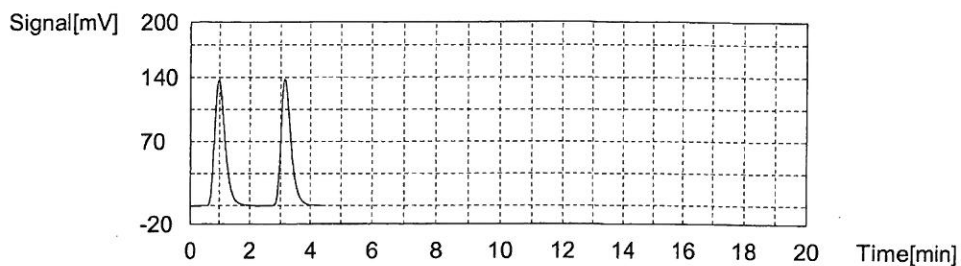
Acid Add. 3.000%
Sp. Time 180.0sec
Mean Area 198.6



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	329.6	2500uL	1	*****		11/7/2016 12:21:00
2	334.1	2500uL	1	*****		11/7/2016 12:25:19

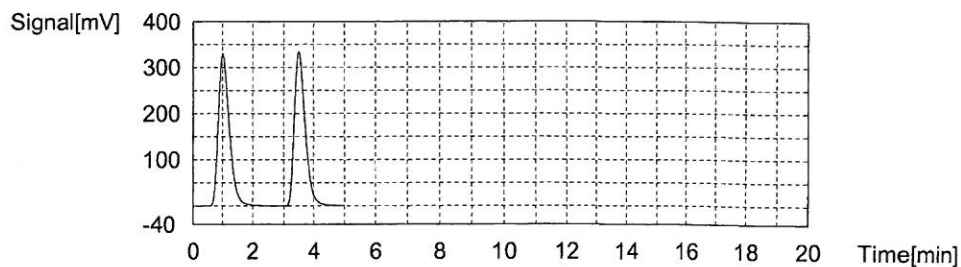
Acid Add. 3.000%
Sp. Time 180.0sec
Mean Area 331.9



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	829.6	2500uL	1	*****		11/7/2016 12:36:49
2	834.7	2500uL	1	*****		11/7/2016 12:41:26

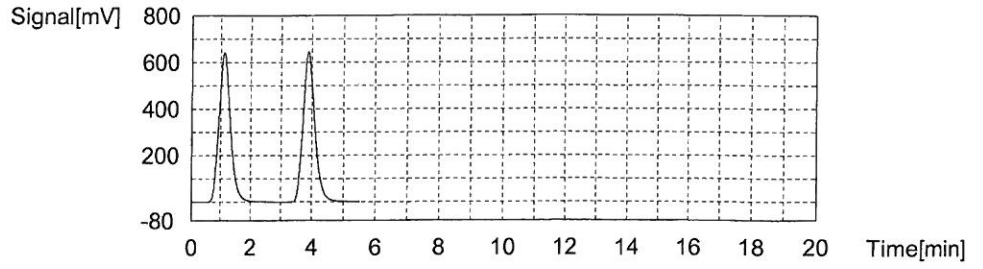
Acid Add. 3.000%
Sp. Time 180.0sec
Mean Area 832.2



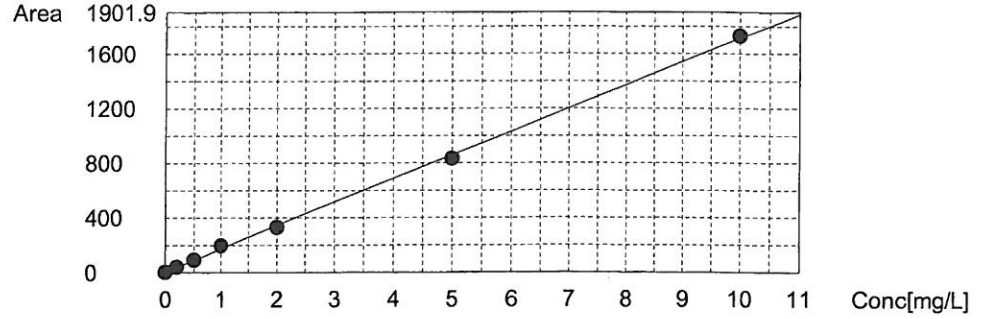
Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1725	2500uL	1	*****		11/7/2016 12:53:13
2	1733	2500uL	1	*****		11/7/2016 12:58:02

Acid Add. 3.000%
Sp. Time 180.0sec
Mean Area 1729



Slope: 171.1
Intercept 4.252
r² 0.9993
r 0.9996
Zero Shift No



Instr. Information

System TOC-VW
Instrument Options TOC/ASI/

Sample

Sample Name: di
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

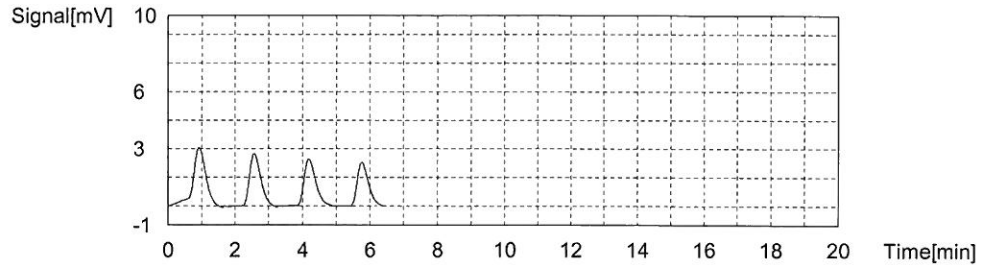
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02715mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.650	-0.02335mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 6:26:14
2	6.591	-0.02375mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 6:31:39
3	5.793	-0.02914mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 6:36:53
4	5.318	-0.03235mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 6:42:03

Mean Area 6.088
Mean Conc. -0.02715mg/



Sample

Sample Name: ic ck std 10ppm
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

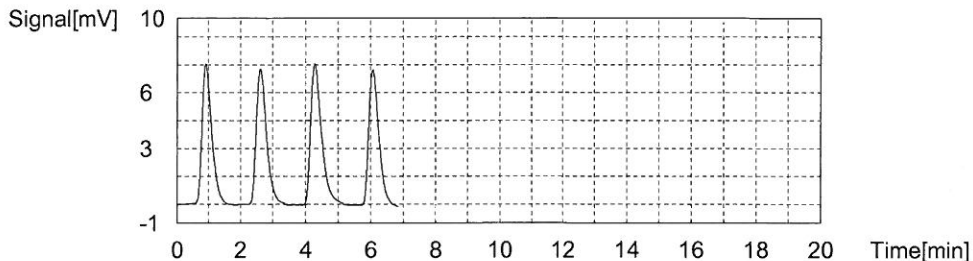
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04498mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.88	0.04578mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_2	10/31/2016 6:52:46
2	16.15	0.04085mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_2	10/31/2016 6:58:39
3	17.92	0.05281mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_2	10/31/2016 7:05:02
4	16.10	0.04051mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_2	10/31/2016 7:10:55

Mean Area 16.76
 Mean Conc. 0.04498mg/L



Sample

Sample Name: icv 2ppm
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

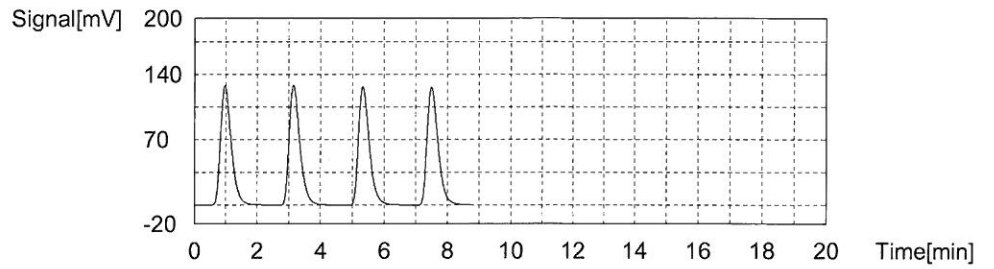
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.038mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	311.2	2.035mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_2	10/31/2016 7:22:06
2	313.1	2.048mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_2	10/31/2016 7:26:25
3	312.0	2.040mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_2	10/31/2016 7:30:42
4	310.5	2.030mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_2	10/31/2016 7:35:01

Mean Area 311.7
Mean Conc. 2.038mg/L



Sample

Sample Name: icb
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

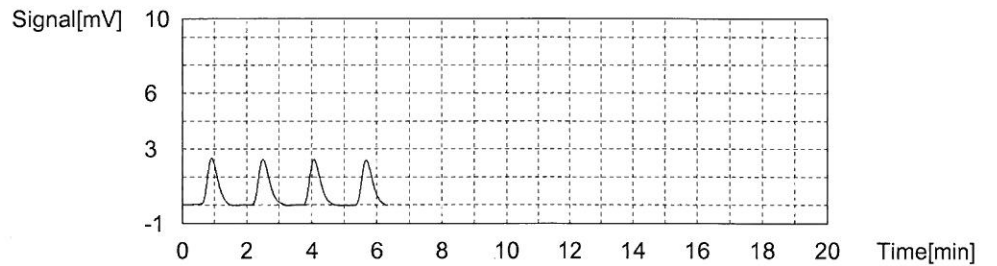
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02955mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.735	-0.02953mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 7:45:37
2	5.648	-0.03012mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 7:50:42
3	5.743	-0.02948mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 7:55:48
4	5.803	-0.02908mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 8:00:52

Mean Area 5.732
Mean Conc. -0.02955mg/



Sample

Sample Name: mb
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.03057mg/L

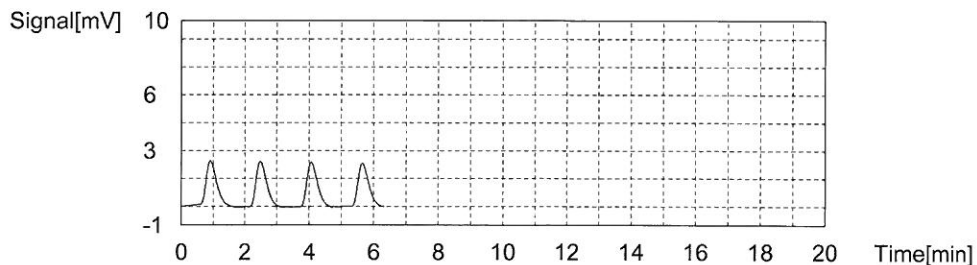
D
✓

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.476	-0.03128mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 8:11:27
2	5.746	-0.02946mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 8:16:34
3	5.624	-0.03028mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 8:21:34
4	5.483	-0.03124mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 8:26:27

Mean Area 5.582
 Mean Conc. -0.03057mg/



Sample

Sample Name: lcs 2ppm
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.045mg/L

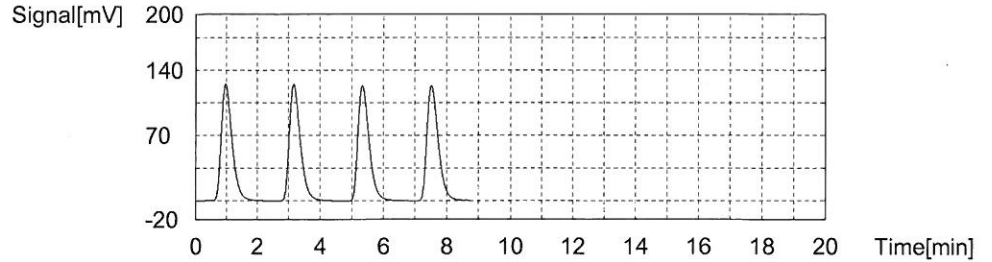
1. Det

Anal.: NPOC

2.05
✓

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	311.2	2.035mg/L	2500uL		1	05252016 toc-4 curve.2016_05_21	10/31/2016 8:37:39
2	312.2	2.041mg/L	2500uL		1	05252016 toc-4 curve.2016_05_21	10/31/2016 8:41:56
3	314.1	2.054mg/L	2500uL		1	05252016 toc-4 curve.2016_05_21	10/31/2016 8:46:15
4	313.5	2.050mg/L	2500uL		1	05252016 toc-4 curve.2016_05_21	10/31/2016 8:50:33

Mean Area 312.8
 Mean Conc. 2.045mg/L



Sample

Sample Name: 34797-08 eb
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

DOC
(7A)

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1535mg/L

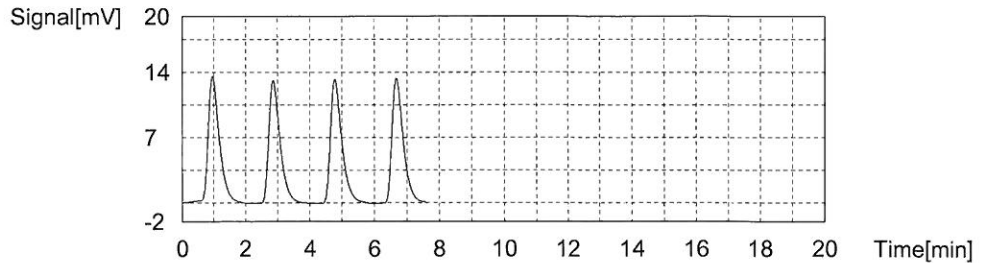
0.15

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.06	0.1551mg/L	2500uL		1	05252016 toc-4 curve.2016_05_21	10/31/2016 9:22:06
2	32.69	0.1526mg/L	2500uL		1	05252016 toc-4 curve.2016_05_21	10/31/2016 9:26:25
3	33.07	0.1552mg/L	2500uL		1	05252016 toc-4 curve.2016_05_21	10/31/2016 9:30:42
4	32.49	0.1513mg/L	2500uL		1	05252016 toc-4 curve.2016_05_21	10/31/2016 9:34:58

Mean Area 32.83
 Mean Conc. 0.1535mg/L



Sample

Sample Name:

34797-01 2x

Sample ID:

Origin:

toc doc 4 reps method.met

Status

Completed

Chk. Result

DOC

Handwritten circle containing "9" and "11/01/16"

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.279mg/L

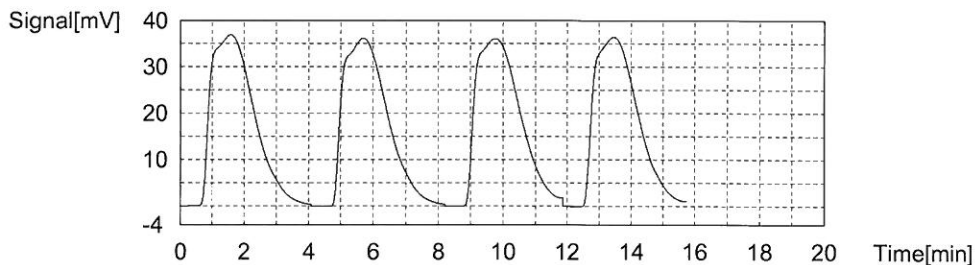
4.56
✓

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	353.2	2.319mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	10/31/2016 9:51:08
2	350.1	2.298mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	10/31/2016 9:57:19
3	338.5	2.219mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	10/31/2016 10:03:58
4	347.4	2.279mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	10/31/2016 10:10:50

Mean Area 347.3
Mean Conc. 2.279mg/L



Sample

Sample Name:

34797-02 2x

Sample ID:

Origin:

toc doc 4 reps method.met

Status

Completed

Chk. Result

DOC

NOTE:
-02 thru -.04
for DOC (sediment
vials, + excessive
bubbles/matrix)

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1620mg/L

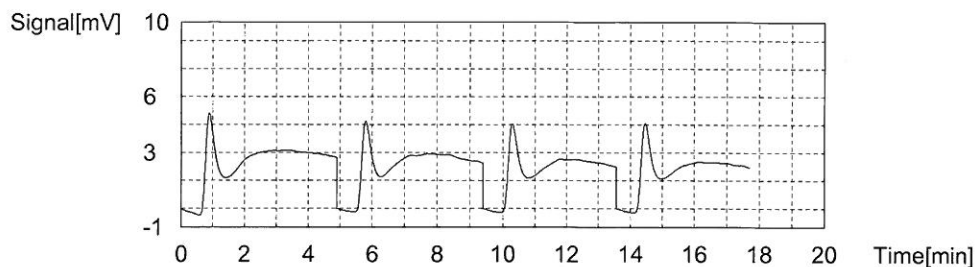
0.32
✓
ND

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	41.38	0.2113mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 10:24:45
2	35.74	0.1732mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 10:31:21
3	30.41	0.1372mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 10:37:36
4	28.78	0.1262mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 10:43:50

Mean Area 34.08
 Mean Conc. 0.1620mg/L



Sample

DOC

Sample Name: 34797-03 2x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08825mg/L

1. Det

Anal.: NPOC

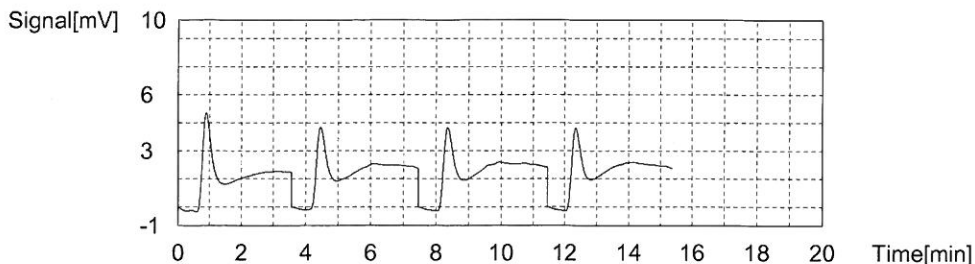
No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.78	0.06538mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 10:56:25
2	22.88	0.08632mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 11:02:24
3	25.10	0.1013mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 11:08:28
4	24.90	0.09998mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 11:14:29

0.18

24

(ND)

Mean Area 23.17
Mean Conc. 0.08825mg/L



Sample

Sample Name: 34797-04 2x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result:

DOC

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2029mg/L

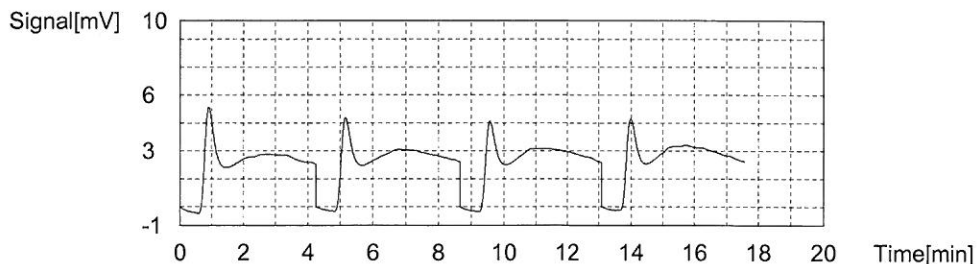
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.91	0.1879mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_21	10/31/2016 11:27:45
2	39.39	0.1979mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_21	10/31/2016 11:34:16
3	40.91	0.2082mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_21	10/31/2016 11:40:47
4	42.31	0.2176mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_21	10/31/2016 11:47:22

0.41
2x
(NA)

Mean Area 40.13
Mean Conc. 0.2029mg/L



Sample

Sample Name:
Sample ID:
Origin:
Status
Chk. Result

34797-05 2x *DOC*
toc doc 4 reps method.met
Aborted

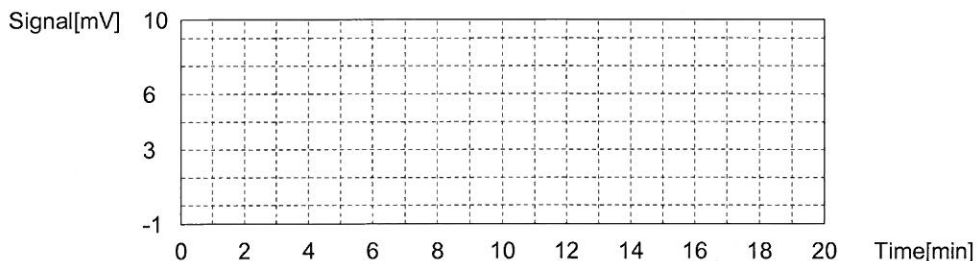
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.000mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
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Mean Area 0.000
Mean Conc. 0.000mg/L



Sample

Sample Name:
Sample ID:
Origin:
Status
Chk. Result

34797-05 doc (all docs prior) ✓
toc doc 4 reps method.met
Completed

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6435mg/L

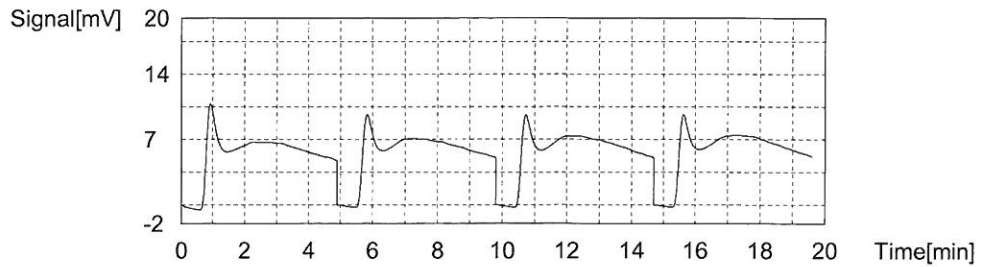
0.64

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.4	0.6440mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_2	10/31/2016 12:04:26
2	103.2	0.6291mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_2	10/31/2016 12:11:48
3	105.2	0.6426mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_2	10/31/2016 12:18:47
4	107.5	0.6582mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_2	10/31/2016 12:25:47

Mean Area 105.3
Mean Conc. 0.6435mg/L



Sample

Sample Name: 34797-06 doc
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.368mg/L

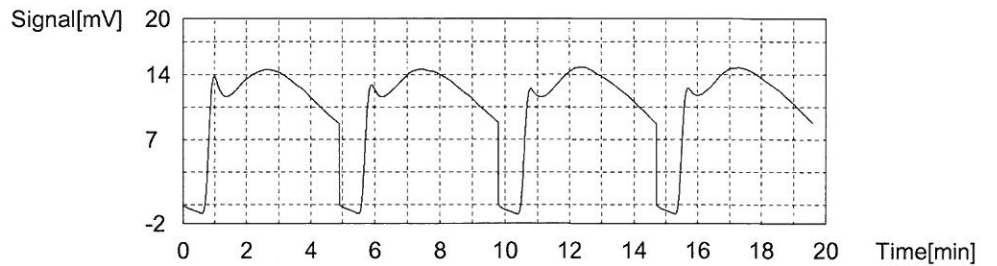
1.37

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	211.1	1.358mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	10/31/2016 12:39:42
2	212.2	1.366mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	10/31/2016 12:48:04
3	211.4	1.360mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	10/31/2016 12:56:22
4	215.6	1.389mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	10/31/2016 1:04:40

Mean Area 212.6
Mean Conc. 1.368mg/L



Sample

Sample Name: 34797-07 doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.665mg/L

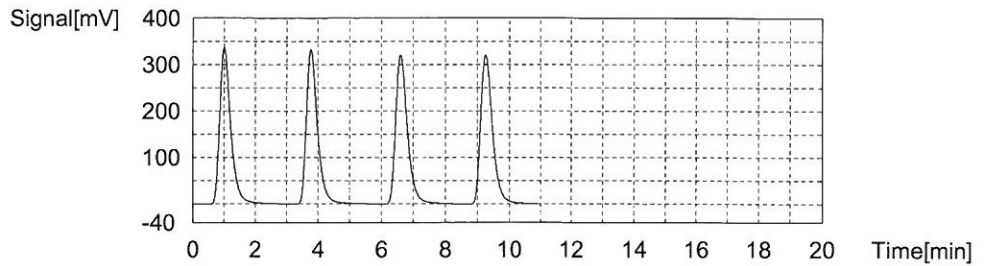
5.67

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	848.9	5.668mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	10/31/2016 1:16:26
2	847.7	5.660mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	10/31/2016 1:21:21
3	849.0	5.669mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	10/31/2016 1:27:13
4	848.3	5.664mg/L	2500uL	1		05252016 toc-4 curve.2016_05_21	10/31/2016 1:33:07

Mean Area 848.5
 Mean Conc. 5.665mg/L



Sample

Sample Name: ccv 2ppm
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.059mg/L

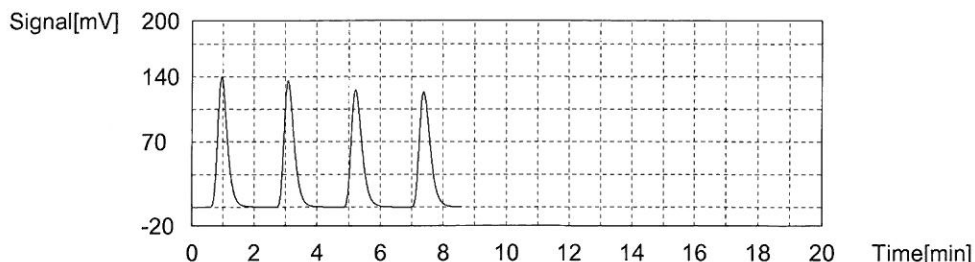
J

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	316.4	2.070mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 1:47:23
2	316.4	2.070mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 1:51:41
3	314.7	2.058mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 1:56:06
4	311.8	2.039mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 2:00:26

Mean Area 314.8
 Mean Conc. 2.059mg/L



Sample

Sample Name: ccb
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

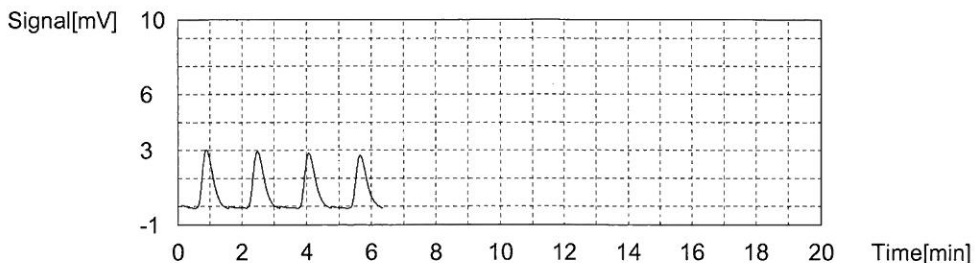
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02033mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.440	-0.01801mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 2:11:02
2	7.172	-0.01982mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 2:15:41
3	6.983	-0.02110mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 2:20:22
4	6.792	-0.02239mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 2:25:16

Mean Area 7.097
 Mean Conc. -0.02033mg/



Sample

Sample Name: 34797-01 dup 2x doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.331mg/L

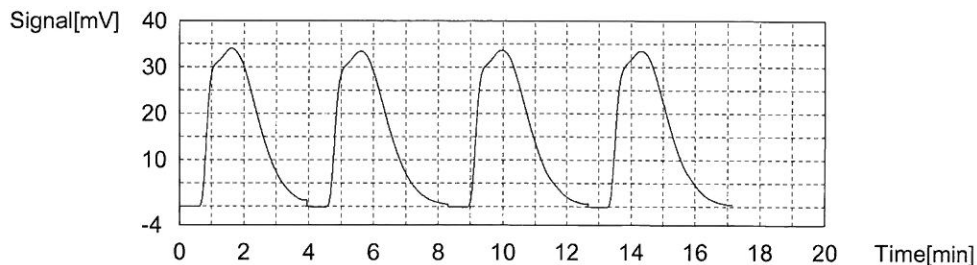
4.66
 27

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	345.6	2.267mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 2:38:14
2	356.0	2.337mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 2:45:35
3	357.0	2.344mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 2:52:01
4	361.8	2.377mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 2:58:58

Mean Area 355.1
 Mean Conc. 2.331mg/L



Sample

Sample Name: 34797-01 spk 8ppm 2x doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.663mg/L

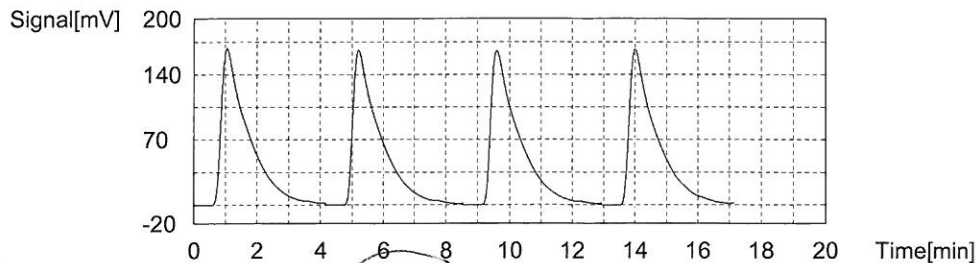
13.3
 27

1. Det

Anal.: NPOC

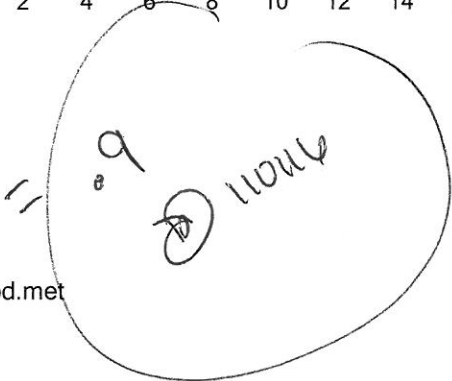
No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	993.9	6.648mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 3:12:08
2	995.5	6.659mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 3:19:46
3	998.6	6.680mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 3:27:12
4	996.4	6.665mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 3:34:27

Mean Area 996.1
 Mean Conc. 6.663mg/L



Sample

Sample Name: 34797.1 2x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result



Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.307mg/L

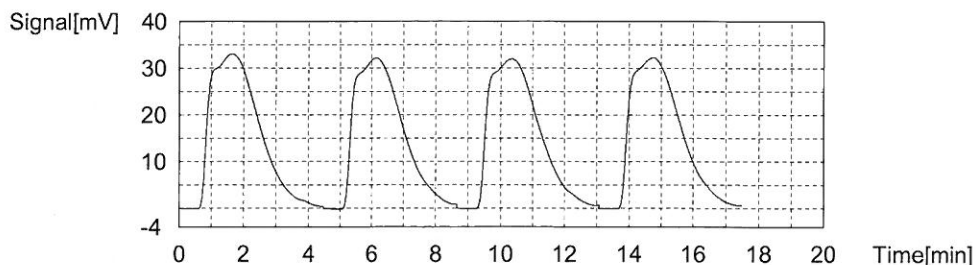
4.61
 25

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	354.1	2.325mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 3:54:37
2	346.0	2.270mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 4:00:54
3	350.3	2.299mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 4:07:35
4	355.3	2.333mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 4:14:06

Mean Area 351.4
Mean Conc. 2.307mg/L



Sample

Sample Name: 34797.2 2x
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

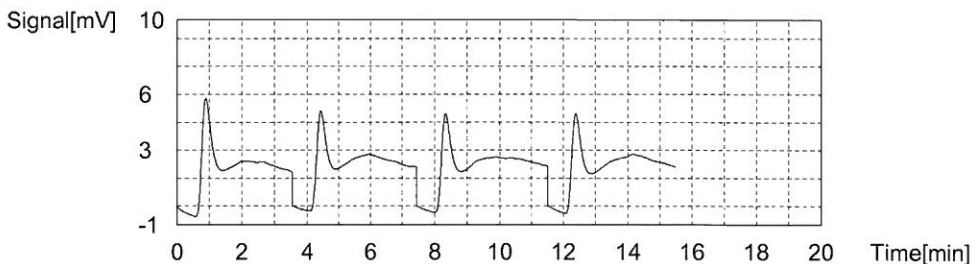
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1515mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	31.83	0.1468mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 4:26:39
2	32.61	0.1521mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 4:32:40
3	32.87	0.1538mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 4:38:49
4	32.79	0.1533mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 4:44:53

Mean Area 32.52
Mean Conc. 0.1515mg/L



Sample

Sample Name: 34797.3 2x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

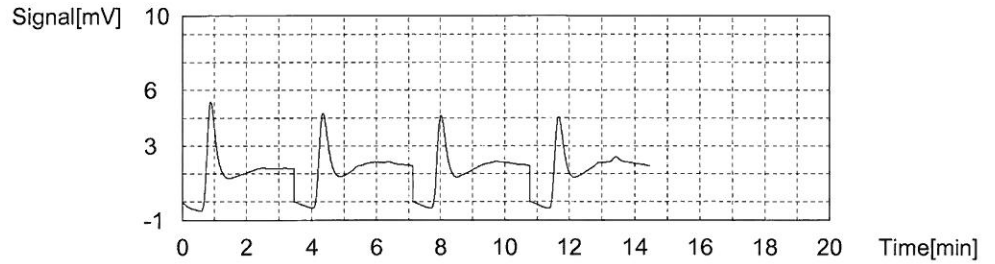
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08874mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.21	0.08180mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_21	10/31/2016 4:57:22
2	23.77	0.09234mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_21	10/31/2016 5:03:08
3	22.97	0.08693mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_21	10/31/2016 5:08:52
4	24.00	0.09389mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_21	10/31/2016 5:14:38

Mean Area 23.24
 Mean Conc. 0.08874mg/L



Sample

Sample Name: 34797.4 2x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1734mg/L

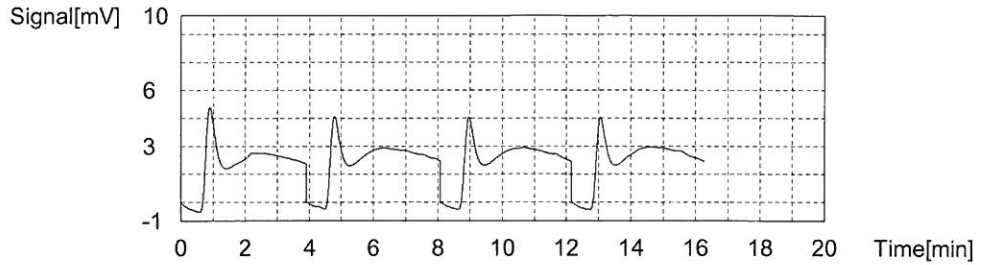
1. Det

Anal.: NPOC

0.35
 2x
 (M)

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.55	0.1584mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 5:27:33
2	36.25	0.1767mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 5:33:48
3	36.34	0.1773mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 5:39:59
4	36.94	0.1813mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 5:46:11

Mean Area 35.77
 Mean Conc. 0.1734mg/L



Sample

Sample Name: 34797.5 2x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

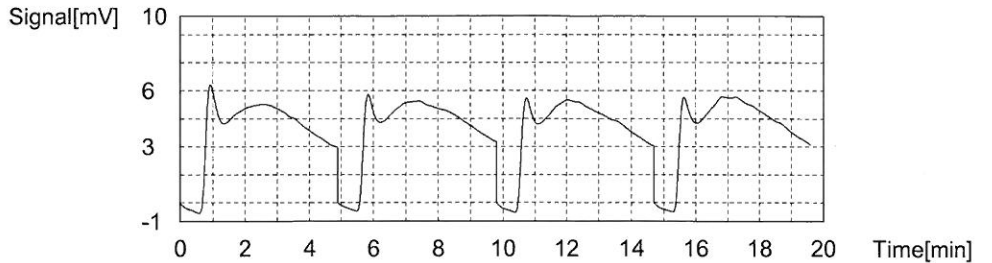
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4970mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	83.45	0.4956mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 6:00:06
2	82.89	0.4918mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 6:07:28
3	82.64	0.4902mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 6:14:28
4	85.62	0.5103mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 6:21:27

Mean Area 83.65
 Mean Conc. 0.4970mg/L



0.99
 24
 (ND)

Sample

Sample Name: 34797.6 2x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

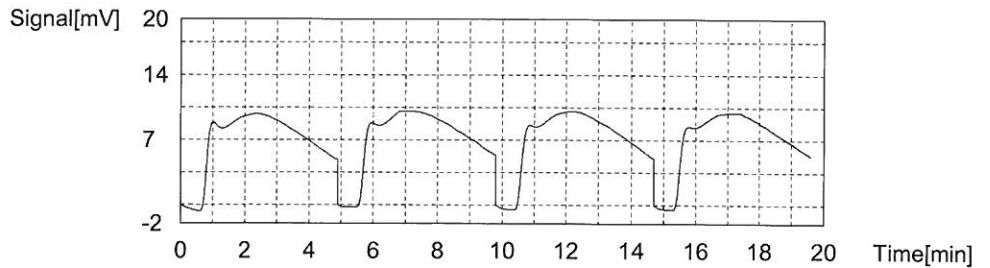
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9411mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	149.3	0.9406mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 6:35:22
2	148.4	0.9345mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 6:43:36
3	150.9	0.9514mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 6:51:42
4	148.9	0.9379mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 6:59:57

Mean Area 149.4
 Mean Conc. 0.9411mg/L



~~1.86~~
 1.88
 2x
 (P)

Sample

Sample Name: 34797.8 1x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09622mg/L

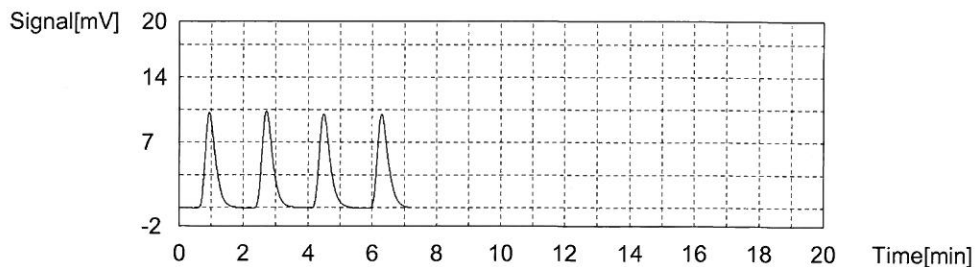
0.10

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	23.93	0.09342mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 7:10:44
2	24.24	0.09552mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 7:15:33
3	24.55	0.09761mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 7:20:25
4	24.66	0.09835mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 7:25:16

Mean Area 24.34
 Mean Conc. 0.09622mg/L



Sample

Sample Name: 34797.7 2x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.667mg/L

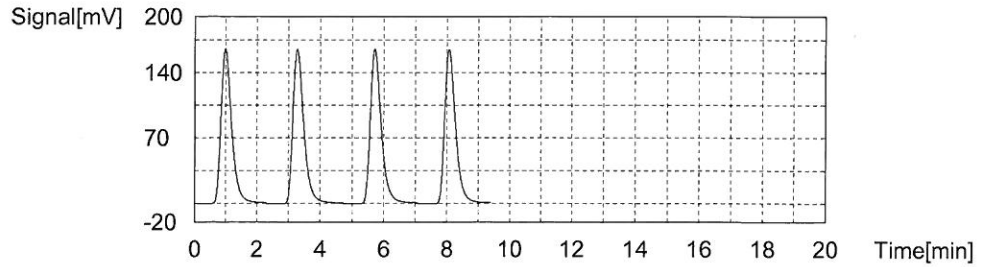
5.33
 vt

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	401.3	2.644mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 7:36:34
2	403.9	2.661mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 7:41:21
3	406.8	2.681mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 7:45:48
4	407.2	2.683mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 7:50:14

Mean Area 404.8
Mean Conc. 2.667mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.076mg/L

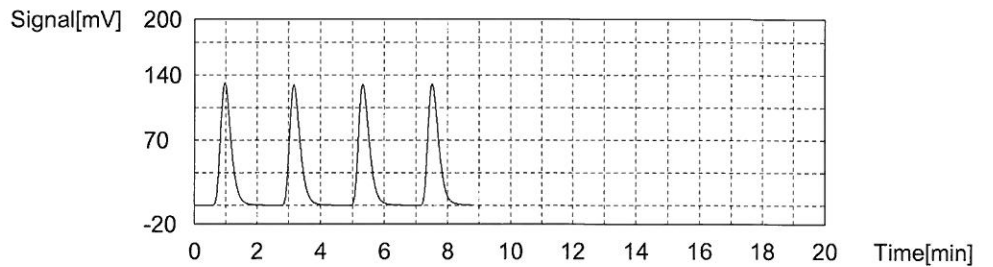


1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	317.8	2.079mg/L	2500uL		1	05252016 toc-4 curve.2016_05_21	10/31/2016 8:18:38
2	314.2	2.055mg/L	2500uL		1	05252016 toc-4 curve.2016_05_21	10/31/2016 8:22:55
3	318.2	2.082mg/L	2500uL		1	05252016 toc-4 curve.2016_05_21	10/31/2016 8:27:14
4	319.0	2.087mg/L	2500uL		1	05252016 toc-4 curve.2016_05_21	10/31/2016 8:31:33

Mean Area 317.3
Mean Conc. 2.076mg/L



Sample

Sample Name: ccb
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

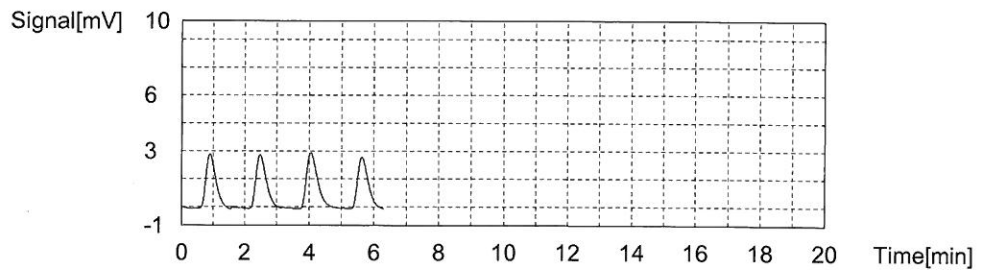
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02367mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.576	-0.02385mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 8:42:10
2	6.542	-0.02408mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 8:46:52
3	7.025	-0.02082mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 8:51:34
4	6.270	-0.02592mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 8:56:16

Mean Area 6.603
 Mean Conc. -0.02367mg/



Sample

Sample Name: 34797-1 dup 2x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.307mg/L

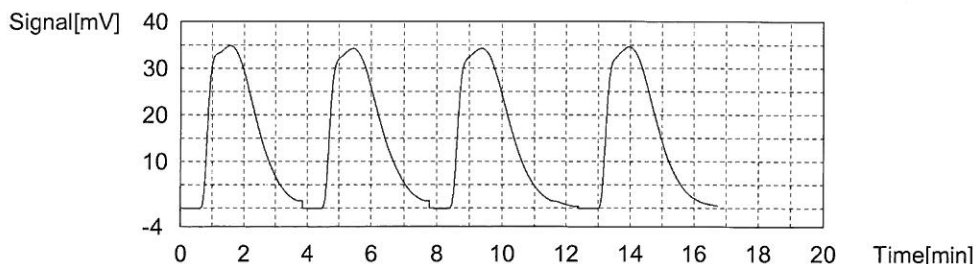
1. Det

Anal.: NPOC

4.61
 28

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	343.3	2.252mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 9:09:09
2	343.6	2.254mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 9:16:19
3	360.2	2.366mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 9:23:24
4	358.9	2.357mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 9:30:45

Mean Area 351.5
 Mean Conc. 2.307mg/L



Sample

Sample Name: 34797-1 ms 2x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.635mg/L

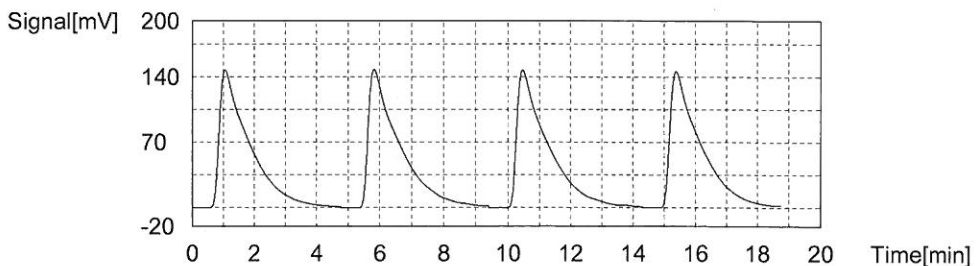
13.3
 W

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	992.7	6.640mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 9:44:33
2	989.2	6.616mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 9:51:17
3	1007	6.737mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 9:58:17
4	978.7	6.545mg/L	2500uL		1	05252016 toc-4 curve.2016_05_2	10/31/2016 10:05:53

Mean Area 991.9
 Mean Conc. 6.635mg/L



Sample

Sample Name: 34797-2
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

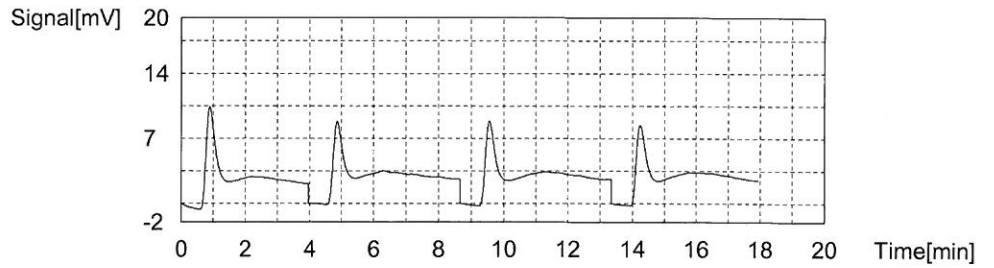
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2800mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	48.86	0.2619mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 10:18:53
2	52.95	0.2895mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 10:25:58
3	52.83	0.2887mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 10:32:45
4	51.54	0.2800mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 10:39:40

Mean Area 51.55
 Mean Conc. 0.2800mg/L



Sample

Sample Name: 34797-3
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2299mg/L

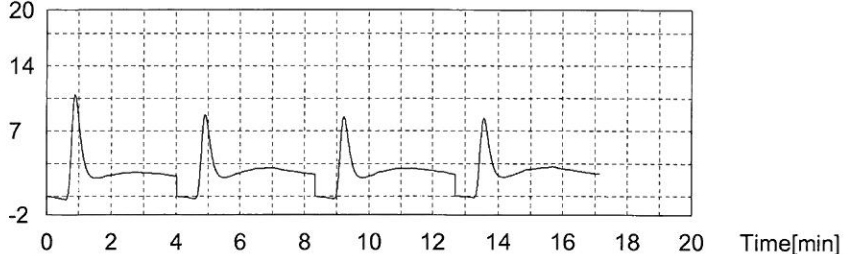
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	43.73	0.2272mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 10:52:43
2	44.53	0.2326mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 10:59:07
3	44.44	0.2320mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 11:05:34
4	43.82	0.2278mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 11:12:07

Mean Area 44.13
Mean Conc. 0.2299mg/L

Signal[mV] 20



Sample

Sample Name: ccv
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

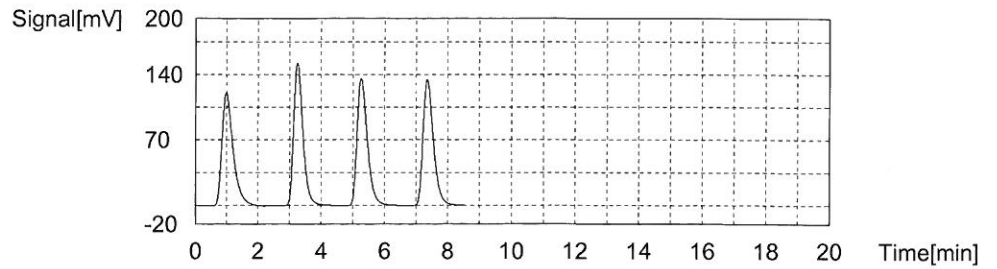
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.053mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	310.3	2.029mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 11:35:30
2	316.2	2.068mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 11:39:35
3	314.9	2.060mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 11:43:58
4	314.4	2.056mg/L	2500uL	1		05252016 toc-4 curve.2016_05_2	10/31/2016 11:48:17

Mean Area 314.0
Mean Conc. 2.053mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: toc doc 4 reps method.met
Status: Completed
Chk. Result

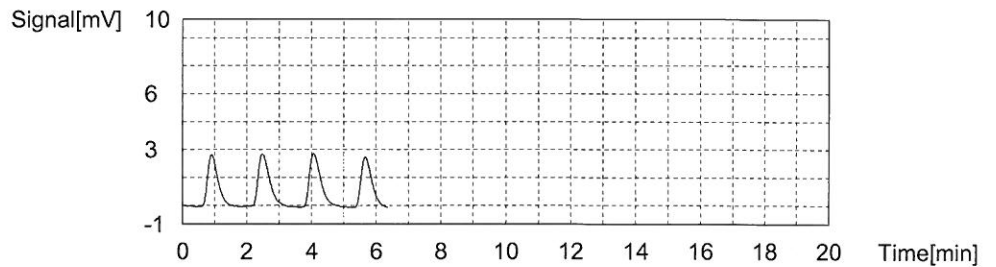
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02392mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.516	-0.02426mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_21	10/31/2016 11:58:54
2	6.572	-0.02388mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_21	11/1/2016 12:03:40
3	6.820	-0.02220mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_21	11/1/2016 12:08:25
4	6.353	-0.02536mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_21	11/1/2016 12:13:09

Mean Area 6.565
Mean Conc. -0.02392mg/



TUES

Instr. Information

System TOC-VW
Instrument Options TOC/ASI/

Sample

Sample Name: di
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

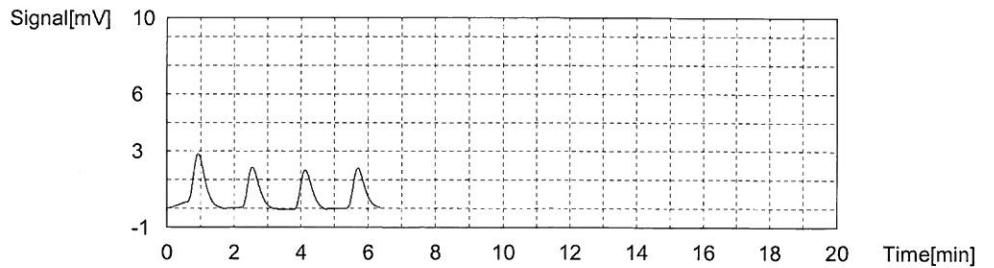
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00632mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.258	0.01172mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 6:27:48 A
2	5.062	0.00473mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 6:33:01 A
3	4.986	0.00429mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 6:38:02 A
4	5.031	0.00455mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 6:42:55 A

Mean Area 5.334
Mean Conc. 0.00632mg/L



Sample

Sample Name: ic ck std 10ppm
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06026mg/L

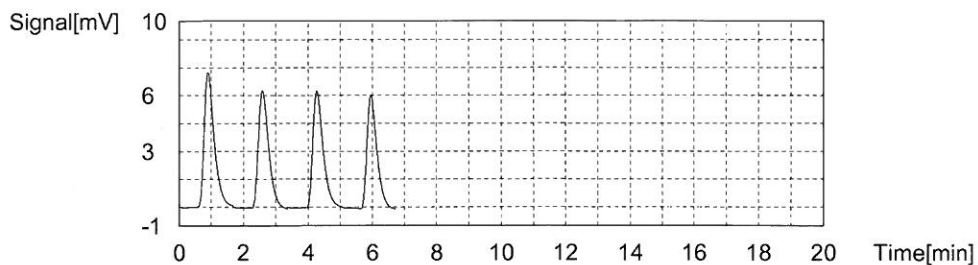


1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.35	0.07072mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 6:53:37 A
2	14.37	0.05915mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 6:59:46 A
3	14.02	0.05710mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 7:05:47 A
4	13.50	0.05406mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 7:11:47 A

Mean Area 14.56
 Mean Conc. 0.06026mg/L



Sample

Sample Name: icv 2ppm
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

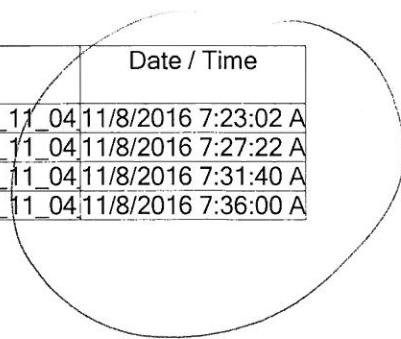
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.879mg/L

1.88

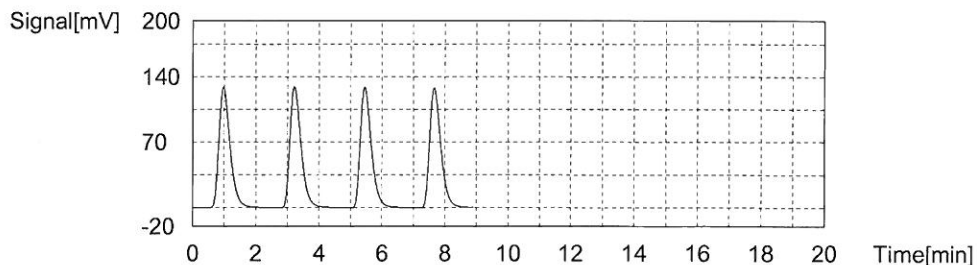
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	323.3	1.865mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 7:23:02 A
2	326.4	1.883mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 7:27:22 A
3	327.0	1.887mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 7:31:40 A
4	326.0	1.881mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 7:36:00 A



Mean Area 325.7
Mean Conc. 1.879mg/L



Sample

Sample Name: icb
Sample ID:
Origin: toc doc 4 reps method.met
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00502mg/L

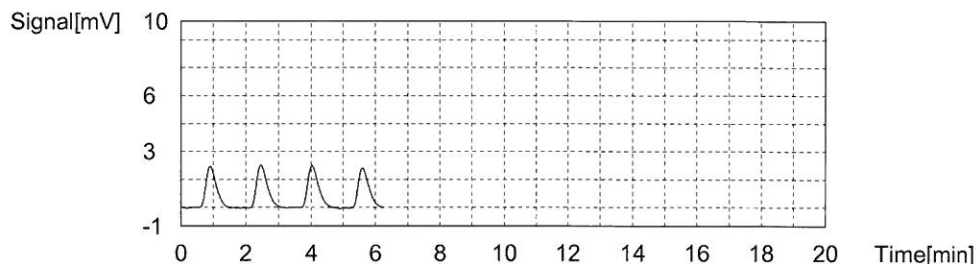
0.01

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.991	0.00432mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 7:46:34 A
2	5.256	0.00587mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 7:51:26 A
3	5.184	0.00545mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 7:56:20 A
4	5.015	0.00446mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 8:01:10 A

Mean Area 5.112
Mean Conc. 0.00502mg/L



Sample

Sample Name: mb
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00482mg/L

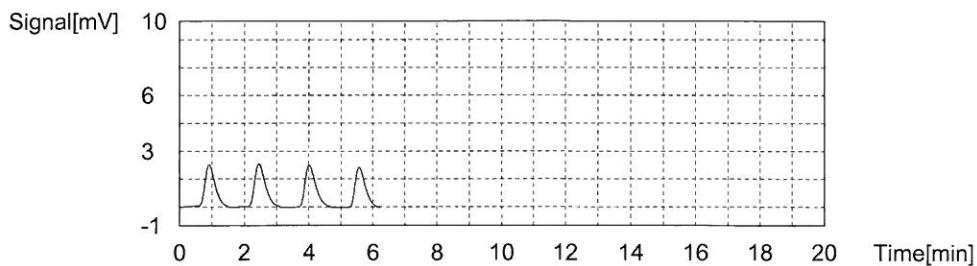
0.0

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.004	0.00439mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 8:11:43 A
2	5.246	0.00581mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 8:16:33 A
3	5.228	0.00570mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 8:21:22 A
4	4.832	0.00339mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 8:25:58 A

Mean Area: 5.078
 Mean Conc.: 0.00482mg/L



Sample

Sample Name: lcs 2ppm
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.935mg/L

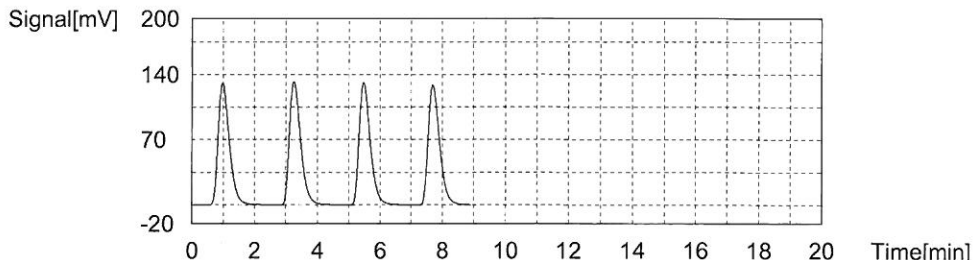
1.94

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	332.1	1.917mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 8:37:15 A
2	336.6	1.943mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 8:41:34 A
3	336.2	1.941mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 8:45:52 A
4	336.3	1.941mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 8:50:10 A

Mean Area 335.3
 Mean Conc. 1.935mg/L



Sample

Sample Name: 34797-09 2x toc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.054mg/L

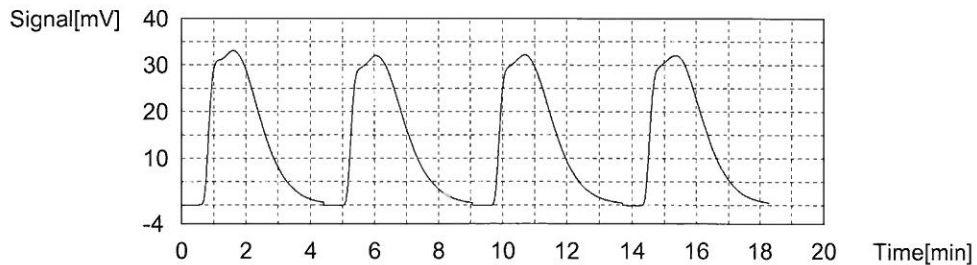
1. Det

Anal.: NPOC

4.11
24

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	353.2	2.040mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 9:06:35 A
2	357.0	2.062mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 9:13:19 A
3	355.8	2.055mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 9:20:03 A
4	356.4	2.059mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 9:26:44 A

Mean Area 355.6
 Mean Conc. 2.054mg/L



Sample

Sample Name: 34797-09 dup 2x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.005mg/L

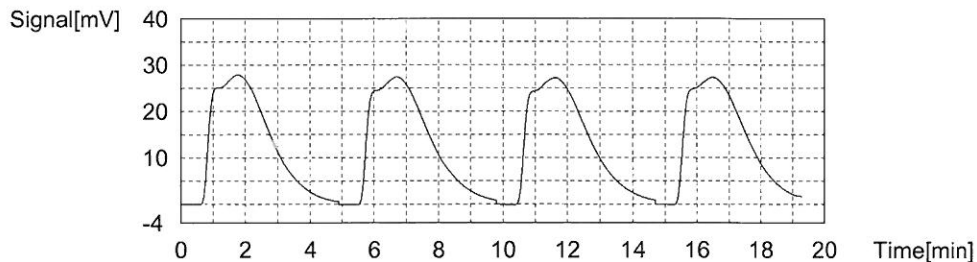
4.01
24

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	346.0	1.998mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 9:48:23 A
2	350.8	2.026mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 9:55:23 A
3	350.0	2.021mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 10:02:22
4	342.3	1.976mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 10:09:21

Mean Area 347.3
 Mean Conc. 2.005mg/L



Sample

Sample Name: 34797-09 spk 20ppm 5x
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.563mg/L

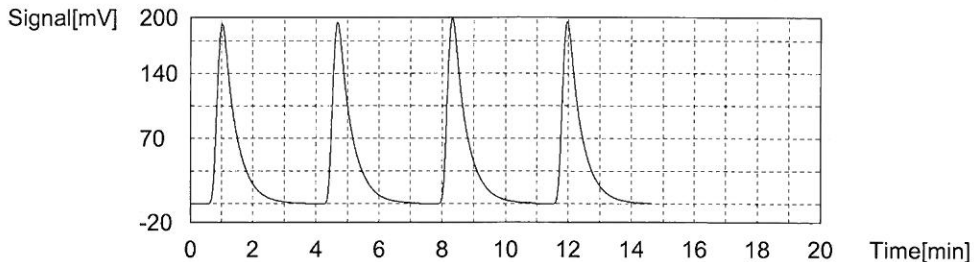
22.8
57

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	780.9	4.540mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 10:22:02
2	783.7	4.557mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 10:27:45
3	788.4	4.584mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 10:33:29
4	786.1	4.571mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 10:40:26

Mean Area 784.8
 Mean Conc. 4.563mg/L



Sample

Sample Name: ccv 2ppm
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.858mg/L

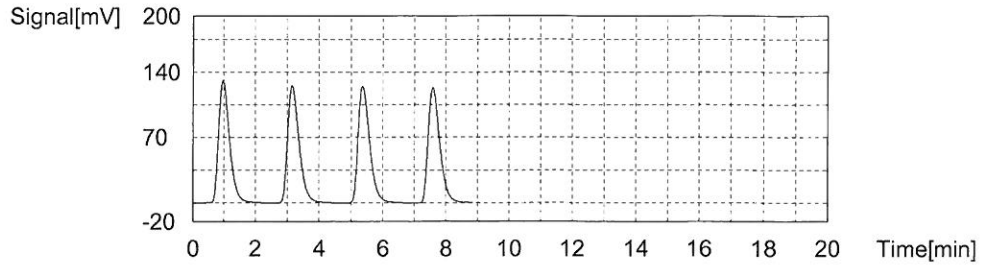
1.86
 ✓

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	323.0	1.863mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 10:51:36
2	323.9	1.869mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 10:55:57
3	321.4	1.854mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 11:00:16
4	319.8	1.845mg/L	2500uL	1		110716 toc-4.2016_11_07_11_04	11/8/2016 11:04:35

Mean Area 322.0
Mean Conc. 1.858mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02124mg/L

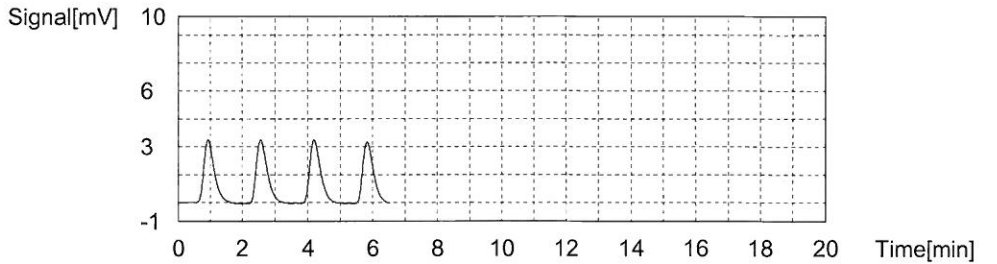
0.02
✓

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.946	0.02159mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 11:15:13
2	7.965	0.02170mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 11:19:54
3	7.976	0.02177mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 11:24:34
4	7.653	0.01988mg/L	2500uL	1	1	110716 toc-4.2016_11_07_11_04	11/8/2016 11:29:29

Mean Area 7.885
Mean Conc. 0.02124mg/L



Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 08 2016, 04:24 pm

Work Group: WG947433 for Department: 7 Wet Chemistry

Created: 31-OCT-16 Due: Operator: dw

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1634797-01	WQ1B-C_102516_SW_10	S TOC-9060	WATER	DONE	U	1122	1103	S0	Vial-D
L1634797-02	ES15_102616_SW_10	S TOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-03	WQ-FPT_102616_SW_10	S TOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-04	WQ-ECH_102616_SW_10	S TOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-05	WQ-3-L_102616_SW_10	S TOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-06	WQ-2-C_102616_SW_10	S TOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-07	OV-02_102616_SW_10	S TOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-08	EB_102616_SW_QC	S TOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
WG947433-1	Laboratory Method Bl	S TOC-9060	WATER	DONE	U				
WG947433-2	Laboratory Control S	S TOC-9060	WATER	DONE	U				
WG947433-3	Duplicate Sample	S TOC-9060	WATER	DONE	U				
WG947433-4	Matrix Spike	S TOC-9060	WATER	DONE	U				

Comments:

WG947433-3 L1634797-01
 WG947433-4 L1634797-01

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 08 2016, 04:24 pm

Work Group: WG947570 for Department: 7 Wet Chemistry

Created: 31-OCT-16 Due: Operator: dw

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1634797-01	WQ1B-C_102516_SW_10	S DOC-9060	WATER	DONE	U	1122	1103	S0	Vial-D
L1634797-02	ES15_102616_SW_10	S DOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-03	WQ-FPT_102616_SW_10	S DOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-04	WQ-ECH_102616_SW_10	S DOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-05	WQ-3-L_102616_SW_10	S DOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-06	WQ-2-C_102616_SW_10	S DOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-07	OV-02_102616_SW_10	S DOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-08	EB_102616_SW_QC	S DOC-9060	WATER	DONE	U	1123	1103	S0	Vial-D
L1634797-09	WQ1B-C_102516_SW_10	S DOC-9060	WATER	DONE	U	1122	1103	S0	Vial-D
WG947570-1	Laboratory Method Bl	S DOC-9060	WATER	DONE	U				
WG947570-2	Laboratory Control S	S DOC-9060	WATER	DONE	U				
WG947570-3	Duplicate Sample	S DOC-9060	WATER	DONE	U				
WG947570-4	Matrix Spike	S DOC-9060	WATER	DONE	U				

Comments:

WG947570-3 L1634797-01
 WG947570-4 L1634797-01

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 08 2016, 04:24 pm

Work Group: WG949869 for Department: 7 Wet Chemistry

Created: 07-NOV-16 Due: Operator: dw

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1634797-09	WQ1B-C_102516_SW_10_	S TOC-9060	WATER	DONE	U	1122	1103	S0	Vial-D
L1635524-01	MW 201A	S TOC-9060	WATER	SEC	U	1130	1109	S0	Vial-D
L1635524-02	MW 202	S TOC-9060	WATER	SEC	U	1130	1109	S0	Vial-D
L1635524-03	MW 203A	S TOC-9060	WATER	SEC	U	1130	1109	S0	Vial-D
L1635524-04	MW 205	S TOC-9060	WATER	SEC	U	1130	1109	S0	Vial-D
L1635524-05	MW 208	S TOC-9060	WATER	SEC	U	1130	1109	S0	Vial-D
L1635524-06	MW209	S TOC-9060	WATER	SEC	U	1130	1109	S0	Vial-D
L1635524-07	EQUIP BLANK (GRUNDFO	S TOC-9060	WATER	SEC	U	1130	1109	S0	Vial-D
WG949869-1	Laboratory Method Bl	S TOC-9060	WATER	DONE	U				
WG949869-2	Laboratory Control S	S TOC-9060	WATER	DONE	U				
WG949869-3	Duplicate Sample	S TOC-9060	WATER	DONE	U				
WG949869-4	Matrix Spike	S TOC-9060	WATER	DONE	U				

Comments:

WG949869-3 L1634797-09
 WG949869-4 L1634797-09

Alpha Report



ANALYTICAL REPORT

Lab Number:	L1634797
Client:	AMEC Foster Wheeler E & I, Inc. 511 Congress Street P.O. Box 7050 Portland, ME 04112-7050
ATTN:	Rod Pendleton
Phone:	(207) 828-3692
Project Name:	USDC PENOBSCOT
Project Number:	3616166052.04.04
Report Date:	11/08/16

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1634797-01	WQ1B-C_102516_SW_10	WATER	PENOBSCOT	10/25/16 12:30	10/27/16
L1634797-02	ES15_102616_SW_10	WATER	PENOBSCOT	10/26/16 11:00	10/27/16
L1634797-03	WQ-FPT_102616_SW_10	WATER	PENOBSCOT	10/26/16 11:45	10/27/16
L1634797-04	WQ-ECH_102616_SW_10	WATER	PENOBSCOT	10/26/16 12:20	10/27/16
L1634797-05	WQ-3-L_102616_SW_10	WATER	PENOBSCOT	10/26/16 13:20	10/27/16
L1634797-06	WQ-2-C_102616_SW_10	WATER	PENOBSCOT	10/26/16 14:05	10/27/16
L1634797-07	OV-02_102616_SW_10	WATER	PENOBSCOT	10/26/16 17:50	10/27/16
L1634797-08	EB_102616_SW_QC	WATER	PENOBSCOT	10/26/16 17:25	10/27/16
L1634797-09	WQ1B- C_102516_SW_10_DUP	WATER	PENOBSCOT	10/25/16 12:30	10/27/16

Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: USDC PENOBSHOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

Case Narrative (continued)

Dissolved Organic Carbon

The samples were field filtered; a filter blank was not received.

L1634797-02 through -04: The sample has an elevated detection limit due to the dilution required by the sample matrix.

MS/DUP performed in lieu of MS/MSD due to LIMS limitations.

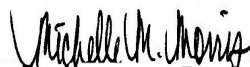
Total Organic Carbon

L1634797-04 and -05: The sample has an elevated detection limit due to the dilution required by the sample matrix.

MS/DUP performed in lieu of MS/MSD due to LIMS limitations.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 11/08/16

INORGANICS & MISCELLANEOUS

Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

SAMPLE RESULTS

Lab ID: L1634797-01
Client ID: WQ1B-C_102516_SW_10
Sample Location: PENOBSCOT
Matrix: Water

Date Collected: 10/25/16 12:30
Date Received: 10/27/16
Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	7.2		mg/l	5.0	NA	1	-	10/30/16 14:25	121,2540D	SG
Total Organic Carbon	4.6		mg/l	1.0	--	2	-	10/31/16 07:22	1,9060A	DW
Dissolved Organic Carbon	4.6		mg/l	2.0	--	2	10/31/16 07:22	10/31/16 07:22	1,9060A	DW



Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

SAMPLE RESULTS

Lab ID: L1634797-02
Client ID: ES15_102616_SW_10
Sample Location: PENOBSCOT
Matrix: Water

Date Collected: 10/26/16 11:00
Date Received: 10/27/16
Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	8.2		mg/l	5.0	NA	1	-	10/30/16 14:25	121,2540D	SG
Total Organic Carbon	ND		mg/l	0.50	--	1	-	10/31/16 07:22	1,9060A	DW
Dissolved Organic Carbon	ND		mg/l	2.0	--	2	10/31/16 07:22	10/31/16 07:22	1,9060A	DW



Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

SAMPLE RESULTS

Lab ID: L1634797-03
Client ID: WQ-FPT_102616_SW_10
Sample Location: PENOBSCOT
Matrix: Water

Date Collected: 10/26/16 11:45
Date Received: 10/27/16
Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	8.6		mg/l	5.0	NA	1	-	10/31/16 13:50	121,2540D	SG
Total Organic Carbon	ND		mg/l	0.50	--	1	-	10/31/16 07:22	1,9060A	DW
Dissolved Organic Carbon	ND		mg/l	2.0	--	2	10/31/16 07:22	10/31/16 07:22	1,9060A	DW



Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

SAMPLE RESULTS

Lab ID: L1634797-04
Client ID: WQ-ECH_102616_SW_10
Sample Location: PENOBSCOT
Matrix: Water

Date Collected: 10/26/16 12:20
Date Received: 10/27/16
Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	12.		mg/l	5.0	NA	1	-	10/31/16 13:50	121,2540D	SG
Total Organic Carbon	ND		mg/l	1.0	--	2	-	10/31/16 07:22	1,9060A	DW
Dissolved Organic Carbon	ND		mg/l	2.0	--	2	10/31/16 07:22	10/31/16 07:22	1,9060A	DW



Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

SAMPLE RESULTS

Lab ID: L1634797-05
Client ID: WQ-3-L_102616_SW_10
Sample Location: PENOBSCOT
Matrix: Water

Date Collected: 10/26/16 13:20
Date Received: 10/27/16
Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	12.		mg/l	5.0	NA	1	-	10/31/16 13:50	121,2540D	SG
Total Organic Carbon	ND		mg/l	1.0	--	2	-	10/31/16 07:22	1,9060A	DW
Dissolved Organic Carbon	ND		mg/l	1.0	--	1	10/31/16 07:22	10/31/16 07:22	1,9060A	DW



Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

SAMPLE RESULTS

Lab ID: L1634797-06
Client ID: WQ-2-C_102616_SW_10
Sample Location: PENOBSCOT
Matrix: Water

Date Collected: 10/26/16 14:05
Date Received: 10/27/16
Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	10.		mg/l	5.0	NA	1	-	10/31/16 13:50	121,2540D	SG
Total Organic Carbon	1.9		mg/l	1.0	--	2	-	10/31/16 07:22	1,9060A	DW
Dissolved Organic Carbon	1.4		mg/l	1.0	--	1	10/31/16 07:22	10/31/16 07:22	1,9060A	DW



Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

SAMPLE RESULTS

Lab ID: L1634797-07
Client ID: OV-02_102616_SW_10
Sample Location: PENOBSCOT
Matrix: Water

Date Collected: 10/26/16 17:50
Date Received: 10/27/16
Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	10/31/16 13:50	121,2540D	SG
Total Organic Carbon	5.3		mg/l	1.0	--	2	-	10/31/16 07:22	1,9060A	DW
Dissolved Organic Carbon	5.7		mg/l	1.0	--	1	10/31/16 07:22	10/31/16 07:22	1,9060A	DW



Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

SAMPLE RESULTS

Lab ID: L1634797-08
Client ID: EB_102616_SW_QC
Sample Location: PENOBSCOT
Matrix: Water

Date Collected: 10/26/16 17:25
Date Received: 10/27/16
Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	ND		mg/l	0.50	--	1	-	10/31/16 07:22	1,9060A	DW
Dissolved Organic Carbon	ND		mg/l	1.0	--	1	10/31/16 07:22	10/31/16 07:22	1,9060A	DW



Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

SAMPLE RESULTS

Lab ID: L1634797-09
Client ID: WQ1B-C_102516_SW_10_DUP
Sample Location: PENOBSCOT
Matrix: Water

Date Collected: 10/25/16 12:30
Date Received: 10/27/16
Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	8.2		mg/l	5.0	NA	1	-	10/30/16 14:25	121,2540D	SG
Total Organic Carbon	4.1		mg/l	1.0	--	2	-	11/08/16 07:23	1,9060A	DW
Dissolved Organic Carbon	4.7		mg/l	2.0	--	2	10/31/16 07:22	10/31/16 07:22	1,9060A	DW



Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,09 Batch: WG947307-1									
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	10/30/16 14:25	121,2540D	SG
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG947309-1									
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	10/30/16 14:25	121,2540D	SG
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG947433-1									
Total Organic Carbon	ND	mg/l	0.50	--	1	-	10/31/16 07:22	1,9060A	DW
General Chemistry - Westborough Lab for sample(s): 03-07 Batch: WG947534-1									
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	10/31/16 13:50	121,2540D	SG
General Chemistry - Westborough Lab for sample(s): 01-09 Batch: WG947570-1									
Dissolved Organic Carbon	ND	mg/l	1.0	--	1	10/31/16 07:22	10/31/16 07:22	1,9060A	DW
General Chemistry - Westborough Lab for sample(s): 09 Batch: WG949869-1									
Total Organic Carbon	ND	mg/l	0.50	--	1	-	11/08/16 07:23	1,9060A	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: USDC PENOBSCOT

Lab Number: L1634797

Project Number: 3616166052.04.04

Report Date: 11/08/16

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG947433-2								
Total Organic Carbon	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-09 Batch: WG947570-2								
Dissolved Organic Carbon	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 09 Batch: WG949869-2								
Total Organic Carbon	97		-		90-110	-		

Matrix Spike Analysis Batch Quality Control

Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG947433-4 QC Sample: L1634797-01 Client ID: WQ1B-C_102516_SW_10												
Total Organic Carbon	4.6	8	13	109	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG947570-4 QC Sample: L1634797-01 Client ID: WQ1B-C_102516_SW_10												
Dissolved Organic Carbon	4.6	8	13	109	-	-	-	-	79-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 09 QC Batch ID: WG949869-4 QC Sample: L1634797-09 Client ID: WQ1B-C_102516_SW_10_DUP												
Total Organic Carbon	4.1	20	23	94	-	-	-	-	80-120	-	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: USDC PENOBSCOT

Project Number: 3616166052.04.04

Lab Number: L1634797

Report Date: 11/08/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,09 QC Batch ID: WG947307-2 QC Sample: L1634797-01 Client ID: WQ1B-C_102516_SW_10						
Solids, Total Suspended	7.2	8.2	mg/l	13		29
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG947309-2 QC Sample: L1634626-01 Client ID: DUP Sample						
Solids, Total Suspended	54	59	mg/l	9		29
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG947433-3 QC Sample: L1634797-01 Client ID: WQ1B-C_102516_SW_10						
Total Organic Carbon	4.6	4.6	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 03-07 QC Batch ID: WG947534-2 QC Sample: L1634579-01 Client ID: DUP Sample						
Solids, Total Suspended	44	40	mg/l	10		29
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG947570-3 QC Sample: L1634797-01 Client ID: WQ1B-C_102516_SW_10						
Dissolved Organic Carbon	4.6	4.7	mg/l	2		20
General Chemistry - Westborough Lab Associated sample(s): 09 QC Batch ID: WG949869-3 QC Sample: L1634797-09 Client ID: WQ1B-C_102516_SW_10_DUP						
Total Organic Carbon	4.1	4.0	mg/l	2		20

Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1634797-01A	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-01A1	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-01A2	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	-
L1634797-01A3	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	-
L1634797-01B	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-01B1	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-01B2	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	-
L1634797-01B3	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	-
L1634797-01C	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-01C1	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-01C2	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	-
L1634797-01D	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-01D1	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-01D2	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	-
L1634797-01D3	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	-
L1634797-01E	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-01E1	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-01E2	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	-
L1634797-01E3	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	-
L1634797-01F	Plastic 950ml unpreserved	A	7	2.3	Y	Absent	TSS-2540(7)
L1634797-01F1	Plastic 950ml unpreserved	A	7	2.3	Y	Absent	-
L1634797-02A	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-02B	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-02C	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-02D	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-02E	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-02F	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-02G	Plastic 950ml unpreserved	A	7	2.3	Y	Absent	TSS-2540(7)
L1634797-03A	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)

*Values in parentheses indicate holding time in days



Project Name: USDC PENOBSCOT

Lab Number: L1634797

Project Number: 3616166052.04.04

Report Date: 11/08/16

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1634797-03B	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-03C	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-03D	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-03E	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-03F	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-03G	Plastic 950ml unpreserved	A	7	2.3	Y	Absent	TSS-2540(7)
L1634797-04A	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-04B	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-04C	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-04D	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-04E	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-04F	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-04G	Plastic 950ml unpreserved	A	7	2.3	Y	Absent	TSS-2540(7)
L1634797-05A	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-05B	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-05C	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-05D	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-05E	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-05F	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-05G	Plastic 950ml unpreserved	A	7	2.3	Y	Absent	TSS-2540(7)
L1634797-06A	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-06B	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-06C	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-06D	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-06E	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-06F	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-06G	Plastic 950ml unpreserved	A	7	2.3	Y	Absent	TSS-2540(7)
L1634797-07A	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-07B	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-07C	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-07D	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-07E	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-07F	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-07G	Plastic 950ml unpreserved	A	7	2.3	Y	Absent	TSS-2540(7)
L1634797-08A	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-08B	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)

*Values in parentheses indicate holding time in days



Project Name: USDC PENOBSCOT

Project Number: 3616166052.04.04

Lab Number: L1634797

Report Date: 11/08/16

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1634797-08C	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-08D	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-08E	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-08F	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-09A2	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-09A3	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-09B2	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-09B3	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-09C2	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TOC-9060(28)
L1634797-09D2	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-09D3	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-09E2	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-09E3	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	DOC-9060(28)
L1634797-09F1	Vial H2SO4 preserved	A	N/A	2.3	Y	Absent	TSS-2540(7)

*Values in parentheses indicate holding time in days



Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: Data Usability Report



Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
 - D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
 - E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
 - G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
 - H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
 - I** - The lower value for the two columns has been reported due to obvious interference.
 - M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
 - NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
 - P** - The RPD between the results for the two columns exceeds the method-specified criteria.
 - Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
 - R** - Analytical results are from sample re-analysis.
 - RE** - Analytical results are from sample re-extraction.
 - S** - Analytical results are from modified screening analysis.
 - J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
 - ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: USDC PENOBSCOT
Project Number: 3616166052.04.04

Lab Number: L1634797
Report Date: 11/08/16

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: NPW and SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

EPA 9012B: NPW: Total Cyanide

EPA 9050A: NPW: Specific Conductance

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS

EPA 3005A NPW

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: **EPA 3050B**

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.**

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 2

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab: 10/27/16

ALPHA Job #: L16034797

Project Information

Project Name: B5DC PONDSCOT
Project Location: PONDSCOT
Project #: 3616166052.04.04
Project Manager: N. WALTER
ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: AMEC FOSTER WHEELER
Address: 511 CONGRESS ST
STE 250 PORTLAND ME
Phone: 207-775 5401
Email: DENISE.KING@AMECFW.COM

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
Date Due:

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program Criteria

Additional Project Information:

FIELD FILTERED
PRESERVED - (PRESAMPLE FROM LAB)
~~FED BY~~ COURIER DELIVERY
MATRIX - BRACKISH WATER PG 16F2

ANALYSIS	VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	DOC SW 846 19060 40mL
SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	TDC SW 846 19060 40mL
METALS: <input type="checkbox"/> RCR45 <input type="checkbox"/> RCR48 <input type="checkbox"/> PPI3	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	TSS 2450 19060 40mL
TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	<input type="checkbox"/> PCB <input type="checkbox"/> PEST	2450 DLP 40mL
SAMPLE INFO		TOTAL # BOTTLES
Filtration		
<input checked="" type="checkbox"/> Field		
<input type="checkbox"/> Lab to do		
Preservation		
<input type="checkbox"/> Lab to do		
Sample Comments		

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
34797-01	WQ16-C-102516-SW-10	10/25/16	1230	Liquid	K.B
02	ES15-102616-SW-10	10/26/16	1100		
01	WQ16-C-102516-SW-10-DJP	10/25/16	1230		
01	WQ16-C-102516-SW-10-MS	10/25/16	1230		
01	WQ16-C-102516-SW-10-MD	10/25/16	1230		
03	WQ-FPT-102616-SW-10	10/26/16	1145		
04	WQ-ECH-102616-SW-10	10/26/16	1220		
05	WQ-3-L-102616-SW-10		1320		
06	WQ-2-C-102616-SW-10		1405		
07	OV-02-102616-SW-10		1750		

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO3
D= H2SO4
E= NaOH
F= MeOH
G= NaHSO4
H= Na2S2O3
I= Ascorbic Acid
J= NH4Cl
K= Zn Acetate
O= Other

Container Type
Preservative

A A P
D D N

Relinquished By:

Date/Time

Received By:

Date/Time

[Signature]
Ambrogiant
T. Hurdell

10/27/16 1100
10/27/16 1630
10/27/14

[Signature]
[Signature]

10/27/16 1215
10/27/16 1630
10/27/16 2000

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
FORM NO: 01-01 (rev. 12-Mar-2012)

APPENDIX B-3 2016 SEDIMENT GEOTECHNICAL SAMPLE RESULTS

2016 SEDIMENT MONITORING GEOTECHNICAL RESULTS

2016 SEDIMENT AND SURFACE WATER MONITORING REPORT

PENOBSCOT RIVER ESTUARY PHASE III - ENGINEERING STUDY



Media	Location ID	Sample ID	General Description	Sample Matrix	Collection Method	Physical Results						
						Sediment Classification (USCS)	Organic Content (% of Total) ASTM D2974-C	% Gravel ASTM D422	% Sand ASTM D422	% Silt ASTM D422	% Clay ASTM D422	% Fine (% Passing #200 Sieve)
Subtidal	E-01-01	E-01-01-072816-SED-03	Grayish brown SILT	Sediment	Ponar	ML	4.9	0.0	2.6	77.8	19.6	97.4
	E-01-03	E-01-03-072816-SED-03	Gray greenish brown sandy SILT	Sediment	Ponar	ML	3.4	0.0	8.2	57.7	34.1	91.8
	E-01-04	E-01-04-072816-SED-03	Gray greenish brown silty SAND	Sediment	Ponar	SM	3.8	14.5	45.7	36.2	3.6	39.8
Intertidal	ADD-02	ADD-02-072216-SED-03	Brown greenish gray clayey SILT	Sediment	SS Spoon	ML	6.6	0.0	1.5	63.9	34.6	98.5
	BO-05	BO-05-072016-SED-03	Greenish brown sandy SILT with organic material	Sediment	Hand Auger	ML	9.4	0.0	11.1	67.0	21.9	88.9
	OB-05	OB-05_072616_SED_03	Gray greenish brown sandy SILT	Sediment	SS Spoon	ML	0.4	0.3	12.6	75.1	12.0	87.1
	ES-02	ES-02-072716-SED-03	Gray greenish brown sandy SILT	Sediment	Ponar	ML	6.6	0.0	12.2	75.1	12.7	87.8
	ES-04	ES-04-072816-SED-03	Greenish brown sandy SILT	Sediment	Ponar	ML	4.9	0.0	2.1	72.0	25.9	97.9
	ES-13	ES-13-072716-SED-03	Dark greenish brown silty SAND	Sediment	SS Spoon	SM	4.1	3.6	53.4	33.8	9.2	43.0
	OV-01	OV-01-072216-SED-03	Greenish brown SAND with gravel	Sediment	SS Spoon	SP	0.8	22.1	74.7	2.2	1.0	3.2
	OV-02	OV-02-072216-SED-03	Greenish brown silty SAND	Sediment	SS Spoon	OL	9.4	2.7	48.7	40.9	7.7	48.6
	OV-04	OV-04-072216-SED-03	Brownish green SAND	Sediment	SS Spoon	SP	0.7	0.1	93.7	4.7	1.5	6.2
	W-17-Intertidal	W-17-Intertidal-072516-SED-03	Greenish gray organic SILT with sand	Sediment	Ponar	OL	5.0	0.0	19.2	63.1	17.7	80.8
	W-21-Intertidal	W-21-Intertidal-072516-SED-03	Gray greenish brown SILT with sand	Sediment	Ponar	ML	4.7	0.0	36.2	52.1	11.7	63.8
	W-61-Intertidal	W-61-Intertidal-072716-SED-03	Dark greenish gray silty SAND with shells	Sediment	Push Core	SM	1.7	11.9	55.5	30.5	2.1	32.6
	W-63-Intertidal	W-63-Intertidal-072616-SED-03	Grayish brown SILT with organic materials	Sediment	Push Core	OL	15.9	0.0	7.0	72.1	20.9	93.0
	W-65-Intertidal	W-65-Intertidal-072516-SED-03	Gray greenish brown silty SAND	Sediment	Ponar	SM	1.7	0.0	87.9	9.2	2.9	12.1
	Wetland	W-17-High	W-17-High-072116-SED-03	Dark greenish gray SILT with sand	Sediment	SS Spoon	ML	8.6	0.0	12.8	71.2	16.0
W-17-Mid		W-17-Mid-072116-SED-03	Dark gray greenish brown SILT with sand	Sediment	Hand Auger	ML	8.9	0.0	13.1	75.3	11.6	86.9
W-17-Low		W-17-Low-072616-SED-03	Gray greenish brown SILT with sand	Sediment	Ponar	ML	5.9	0.0	5.9	87.1	7.0	94.1
W-17-Low		W-17-Low-072616-SED-03-DUP	Olive greenish gray sandy SILT	Sediment	Ponar	ML	6.1	0.1	7.2	86.3	6.4	92.7
W-21-High		W-21-High-072516-SED-03	Brownish black SILT with sand and roots	Sediment	Hand Auger	ML	10.4	0.0	13.0	68.3	18.7	87.0
W-21-Mid		W-21-Mid-072516-SED-03	Gray greenish brown SILT with sand	Sediment	Hand Auger	ML	4.9	0.5	14.4	66.2	18.9	85.1
W-21-Low		W-21-Low-072516-SED-03	Dark grayish brown SILT with sand	Sediment	Ponar	ML	8.0	0.0	8.8	74.6	16.6	91.2
W-21-UM-West-A		W-21-UM-Central-C-072716-SED-03	Grayish brown organic SILT with grasses and peat	Sediment	Shovel	OL	30.0	10.9	34.6	46.7	7.8	54.5
W-21-UM-Central-C		W-21-UM-East-C-072516-SED-03	Greenish gray SILT	Sediment	Shovel	ML	8.1	0.0	7.3	72.1	20.6	92.7
W-21-UM-East-C		W-21-UM-West-A-072716-SED-03	Brown organic SILT with sand	Sediment	Hand Auger	OL	41.4	2.6	19.1	66.6	11.7	78.3
W-21-UM-South		W-21-UM-South-072716-SED-03	Grayish brown organic SILT with sand	Sediment	Shovel	OL	31.5	5.8	27.3	47.0	19.9	66.9
W-61-High		W-61-High-072716-SED-03	Black grayish brown silty SAND	Sediment	SS Spoon	SM	5.5	1.0	77.4	17.9	3.7	21.6
W-61-Mid		W-61-Mid-072716-SED-03	Grayish green silty SAND	Sediment	SS Spoon	SM	2.3	5.5	81.6	9.2	3.7	12.9
W-61-Low		W-61-Low-072716-SED-03	Grayish green silty SAND with shells	Sediment	SS Spoon	SM	2.3	0.4	67.3	23.4	8.9	32.3
W-63-High		W-63-High-072116-SED-03	Greenish brown silty SAND	Sediment	SS Spoon	SM	2.1	19.5	59.0	13.0	8.5	21.5
W-63-High		W-63-High-072116-SED-03-DUP	Greenish brown silty SAND	Sediment	SS Spoon	SM	2.3	15.9	62.4	17.3	4.4	21.7
W-63-Mid		W-63-Mid-072616-SED-03	Gray greenish brown gravelly silty SAND	Sediment	SS Spoon	SM	2.8	22.0	61.7	12.9	3.4	16.3
W-63-Low		W-63-Low-072616-SED-03	Grayish brown sandy SILT	Sediment	SS Spoon	ML	13.5	0.4	9.7	78.5	11.4	89.9
W-65-High		W-65-High-072516-SED-03	Reddish brown silty SAND with large amount of organic material	Sediment	Hand Auger	SM	27.9	0.8	57.9	35.3	6.0	41.3
W-65-Mid		W-65-Mid-072516-SED-03	Brownish red fine grass roots and organic material	Sediment	Hand Auger	OL	32.2	NA	NA	NA	NA	79.0
W-65-Low	W-65-Low-072516-SED-03	Dark gray sandy SILT	Sediment	Hand Auger	ML	2.9	2.4	8.5	81.6	7.5	89.1	