BECKTON ENVIRONMENTAL

LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT FOR THE PERIOD OF JANUARY 1, 2010 TO DECEMBER 31, 2010

This report has been prepared following E.P.A. requirements for NPDES permits. Duplicates represent 10% (minimum) of the number of samples analyzed. Spikes represent 5% (minimum) of the number of samples analyzed.

Performed by: _____
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Operations and Quality Control Officer

Revised by: _____
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Approved by: _____
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I. WET CHEMISTRY PARAMETERS

PARAMETER	EPA METHOD	N	ACCURACY^:			PRECISION~:	
			AVERAGE	LCL	UCL	UCL	LCL
ALKALINITY	SM 2320 B	39	98	72	123	15	0
AMMONIA NITROGEN	350.1	55	98	90	110	10	0
BOD	SM 5210	108	114	68	160	20	0
CBOD	SM 5210	27	121	78	164	20	0
CHLORIDE	SM 4500 Cl-E	41	103	90	110	10	0
COD	410.4	16	101	90	110	10	0
CYANIDE	SM 4500-CN-E	51	100	92	110	10	0
FLUORIDE	SM 4500 F-C	24	99	81	117	15	0
$NO_2 + NO_3$	353.2	119	98	90	110	10	0
NITRITE	353.2	81	94	90	110	10	0
OIL AND GREASE	1664 A	36	102	44	160	21	0
PHENOLICS (Dir.)	420.1	8	101	90	110	10	0
PHENOLICS (Ext.)	420.1	24	100	90	110	10	0
o-PHOSPHATE	365.1	11	98	90	110	10	0
PHOSPHORUS	365.4	11	101	90	110	10	0
SULFATE	ASTM D 516-02	48	98	67	130	15	0
SULFIDE	SM 4500 $S^{=}$ F	20	99	87	110	15	0
SURFACTANTS	SM 5540 C	59	105	67	143	15	0

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PARAMETER	EPA METHOD	N	ACCURACY^:			PRECISION~:	
			AVERAGE	LCL	UCL	UCL	LCL
COLOR Pt-Co*	SM 2120 B	62				5	0
COLOR ADMI*	SM 2120 E	11				5	0
CONDUCTIVITY*	SM 2510 B	68				5	0
FLASHPOINT*	SW-846 1010 A	26				5	0
HARDNESS	SM 2340 C	57	96	78	114	5	0
pH*	SM 4500H+B	38				5	0
pH*	SW 846 9045	18				5	0
SETTLEABLE SOLIDS (Volumetric)*	SM 2540-F	10				5	0
SETTLEABLE SOLIDS (Gravimetric)*	SM 2540-F	10				20	0
TDS*	SM 2540 C	126				20	0
TSS*	SM 2540 D	160				20	0
TS*	SM 2540B	12				20	0
TURBIDITY*	180.1	90				5	0
TOTAL ORGANIC CARBON	SM 5310 B	34	90	50	132	28	0
TKN	351.2	8	102	90	110	10	0
IODIDE*	345.1	5				5	0
BROMIDE*	320.1	4				5	0

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ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

II. TRACE METALS (Wastewater)

PARAMETER	EPA METHOD	N	ACCURACY^:			PRECISION~:	
			AVERAGE	LCL	UCL	UCL	LCL
ALUMINUM	200.7 (ICAP)	15	100	77	123	15	0
ANTIMONY	200.7 (ICAP)	20	97	78	116	15	0
ARSENIC	200.7 (ICAP)	80	99	86	112	15	0
BARIUM	200.7 (ICAP)	23	103	94	112	15	0
BERYLLIUM	200.7 (ICAP)	38	101	92	110	15	0
BORON	200.7 (ICAP)	6	94	76	112	15	0
CADMIUM	200.7 (ICAP)	76	98	83	112	15	0
CALCIUM	200.7 (ICAP)	27	102	88	115	15	0
CHROMIUM	200.7 (ICAP)	79	99	88	111	15	0
CHROMIUM VI	SM 3500 Cr D	52	101	90	109	15	0
COBALT	200.7 (ICAP)	5	96	86	106	15	0
COPPER	200.7 (ICAP)	254	102	86	117	15	0
IRON	200.7 (ICAP)	25	98	83	113	15	0
LEAD	200.7 (ICAP)	84	97	82	113	15	0
LITHIUM	200.7 (ICAP)	2	112	70	154	15	0
MAGNESIUM	200.7 (ICAP)	42	103	87	118	15	0

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FOR THE PERIOD OF
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II. TRACE METALS (Wastewater)

PARAMETER	EPA METHOD	N	ACCURACY^:			PRECISION~:	
			AVERAGE	LCL	UCL	UCL	LCL
MANGANESE	200.7 (ICAP)	63	99	89	110	15	0
MERCURY	245.1	85	101	77	124	15	0
MOLYBDENUM	200.7 (ICAP)	37	101	86	117	15	0
NICKEL	200.7 (ICAP)	77	98	81	115	15	0
POTASSIUM	200.7 (ICAP)	4	114	99	130	15	0
SELENIUM	200.7 (ICAP)	73	95	78	113	15	0
SILICON	200.7 (ICAP)	7	98	82	115	15	0
SILVER	200.7 (ICAP)	78	98	83	113	15	0
SODIUM	200.7 (ICAP)	5	97	65	129	15	0
STRONTIUM	200.7 (ICAP)	1	103	90	110	15	0
THALLIUM	200.7 (ICAP)	54	98	79	118	15	0
TIN	200.7 (ICAP)	1	100	90	110	15	0
VANADIUM	200.7 (ICAP)	5	103	96	110	15	0
ZINC	200.7 (ICAP)	87	99	78	120	15	0

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JANUARY 1, 2010 TO DECEMBER 31, 2010

III. TRACE METALS (TCLP)

PARAMETER	EPA METHOD	N	ACCURACY^:			PRECISION~:	
			AVERAGE	LCL	UCL	UCL	LCL
ARSENIC	SW-846 6010C	34	102	90	114	15	0
BARIUM	SW-846 6010C	34	97	79	116	15	0
CADMIUM	SW-846 6010C	34	100	88	113	15	0
CHROMIUM	SW-846 6010C	34	100	85	115	15	0
LEAD	SW-846 6010C	34	99	83	114	15	0
MERCURY	SW-846 7470A	32	101	77	124	15	0
SELENIUM	SW-846 6010C	33	99	84	114	15	0
SILVER	SW-846 6010C	34	98	85	112	15	0

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IV. TRACE METALS- WELL WATER SAMPLES

PARAMETER	EPA METHOD	N	ACCURACY^:			PRECISION~:	
			AVERAGE	LCL	UCL	UCL	LCL
BARIUM	200.7	13	100	85	113	15	0
CALCIUM	200.7	13	99	68	130	15	0
IRON	200.7	13	100	86	114	15	0
LITHIUM	200.7	1	96	90	110	15	0
MAGNESIUM	200.7	14	101	87	116	15	0
MANGANESE	200.7	13	99	86	113	15	0
MERCURY	245.1	4	99	87	112	15	0
POTASSIUM	200.7	14	109	65	153	15	0
SODIUM	200.7	13	102	59	144	15	0
SILICA as SiO_2	200.7	14	110	57	161	15	0

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V. VOLATILE ORGANICS EPA 624

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
ACROLEIN	23	98	52	144	29	0
ACRYLONITRILE	24	91	37	146	37	0
BENZENE	25	99	51	146	40	0
BROMOFORM	25	93	18	169	39	0
CARBON TETRACHLORIDE	25	102	56	147	40	0
CHLOROBENZENE	24	92	41	142	32	0
DICHLOROBROMOMETHANE	25	102	55	149	32	0
CHLOROETHANE	24	101	53	148	40	0
2-CHLOROETHYLVINYLETHER	24	100	44	155	42	0
CHLOROFORM	26	99	45	153	42	0
CHLORODIBROMOMETHANE	25	95	46	143	39	0
1,1-DICHLOROETHANE	24	100	51	149	27	0
1,2-DICHLOROETHANE	25	100	57	142	32	0
1,2-DICHLOROPROPANE	24	102	56	147	41	0
1,3-DICHLOROPROPANE	24	95	48	141	28	0
ETHYLBENZENE	24	98	38	158	42	0
METHYL BROMIDE	24	99	53	145	29	0
CIS-1,2-DICHLOROETHENE	24	97	38	157	39	0

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ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

V. VOLATILE ORGANICS EPA 624 (CONT.)

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
1,1-DICHLOROETHYLENE	25	99	51	148	37	0
METHYL CHLORIDE	24	99	40	157	54	0
METHYLENE CHLORIDE	25	105	51	159	20	0
TETRACHLOROETHYLENE	24	96	36	157	35	0
TOLUENE	24	97	52	142	31	0
1,1,2,2-TETRACHLOROETHANE	22	94	41	146	54	0
1,2-TRANS-DICHLOROETHENE	24	100	55	144	36	0
1,1,1-TRICHLOROETHANE	25	95	48	142	40	0
1,1,2-TRICHLOROETHANE	24	97	50	144	24	0
TRICHLOROETHYLENE	25	96	47	144	38	0
VINYL CHLORIDE	25	96	57	136	48	0
1,4-DICHLOROBENZENE	25	97	51	144	36	0
TRANS-1,3-DICHLOROPROPENE	24	98	48	148	31	0
CIS-1,3-DICHLOROPROPENE	24	97	41	152	40	0

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ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

VI. SEMIVOLATILE ORGANICS EPA 625

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
2-Chlorophenol	60	80	37	123	15	0
2,4-Dichlorophenol	60	82	40	123	15	0
2,4-Dimethylphenol	60	77	14	140	15	0
4,6-Dinitro-2-methylphenol	58	64	0	150	32	0
2,4-Dinitrophenol	58	70	0	160	36	0
2-Nitrophenol	60	80	22	138	15	0
4-Nitrophenol	60	81	28	135	23	0
4-Chloro-3-methylphenol	60	83	40	126	15	0
Pentachlorophenol	60	88	31	145	15	0
Phenol	56	84	36	133	15	0
2,4,5-Trichlorophenol	60	84	43	125	15	0
2,4,6-Trichlorophenol	60	83	38	128	15	0
Acenaphthene	27	84	33	136	15	0
Acenaphthylene	27	85	26	145	16	0

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FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

VI. SEMIVOLATILE ORGANICS EPA 625 (cont)

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
Anthracene	28	91	35	146	15	0
Benzidine	26	73	3	144	25	0
Benzo(a) anthracene	28	91	49	133	15	0
Benzo(a) pyrene	30	83	39	127	26	0
Benzo(b) fluoranthene	28	84	34	134	15	0
Benzo(g,h,i) perylene	27	62	16	108	15	0
Benzo(k) fluoranthene	28	89	47	131	15	0
Bis(chloromethyl)ether	26	82	32	133	17	0
Bis (2-chloroethoxy) methane	27	84	39	129	15	0
Bis (2-chloroethyl) ether	27	80	34	127	15	0
Bis (2-chloroisopropyl) ether	27	79	36	123	15	0
Bis (2-ethylhexyl) phthalate	27	88	35	141	15	0
4-Bromophenyl-phenyl-ether	27	85	38	132	15	0
Butyl-benzyl-phthalate	27	87	37	137	15	0
2-Chloronaphthalene	27	82	26	139	15	0
4-Chlorophenyl-phenyl-ether	27	86	37	134	15	0
Chrysene	28	82	36	128	15	0

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VI. SEMIVOLATILE ORGANICS EPA 625 (cont.)

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
Dibenzofuran	27	89	36	142	15	0
Dibenzo(a,h,) anthracene	30	66	11	122	15	0
1,2-Dichlorobenzene	27	84	34	133	15	0
1,3-Dichlorobenzene	27	83	34	132	15	0
1,4-Dichlorobenzene	27	84	29	138	15	0
Diethylphthalate	27	86	37	136	15	0
Dimethylphthalate	27	85	43	126	15	0
Di-n-butylphthalate	27	95	50	141	15	0
2,4-Dinitrotoluene	27	81	37	124	15	0
2,6-Dinitrotoluene	27	80	46	114	19	0
Di-n-octylphthalate	27	95	39	151	15	0
Fluoranthene	28	87	33	141	15	0
Fluorene	28	86	37	135	15	0

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VI. SEMIVOLATILE ORGANICS EPA 625 (cont.)

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
Hexachlorobenzene	27	86	39	133	15	0
Hexachlorobutadiene	27	83	31	135	15	0
Hexachlorocyclopentadiene	27	42	0	114	54	0
Hexachloroethane	27	77	14	140	15	0
Ideno (c,d) pyrene	28	71	19	123	15	0
Isophorone	27	75	31	119	16	0
Naphthalene	28	86	18	153	16	0
Nitrobenzene	27	80	20	140	15	0
N-nitroso-Di-n-propylamine	27	84	34	133	15	0
N-nitroso-Di-phenylamine	27	90	38	143	37	0
Phenanthrene	27	85	30	140	15	0
Pyrene	28	87	40	133	15	0
1,2,4-Trichlorobenzene	27	82	29	134	15	0
N-Nitroso-di-methylamine	27	76	26	130	16	0
1,2-Diphenylhydrazine	26	94	40	148	15	0
Diphenylamine	26	92	53	132	15	0

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VII PESTICIDES EPA 608

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
ALDRIN	20	98	53	143	15	0
ALPHA-BHC	19	88	46	130	15	0
BETA-BHC	19	92	42	143	19	0
GAMMA-BHC	20	88	52	124	15	0
DELTA-BHC	16	96	52	140	15	0
CHLORDANE	20	96	51	141	15	0
4,4'-DDT	16	93	47	139	15	0
4,4'-DDE	20	101	65	137	15	0
4,4'-DDD	20	97	46	148	15	0
DIELDRIN	20	107	70	145	15	0
ALPHA-ENDOSULFAN	16	97	54	140	15	0
BETA-ENDOSULFAN	20	103	64	143	15	0
ENDOSULFAN SULFATE	16	102	45	158	15	0
ENDRIN	18	114	47	181	15	0
ENDRIN ALDEHYDE	16	93	47	139	15	0
HEPTACHLOR	16	99	52	146	15	0

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ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

VII. PESTICIDES EPA 608 (cont.)

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
HEPTACHLOR EPOXIDE	20	102	51	153	15	0
TOXAPHENE	20	100	56	145	15	0
PCB-1016	28	103	56	150	15	0
PCB-1260	28	96	42	149	20	0

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FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

VIII. RCRA VOLATILES EPA 8021 B

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
Benzene	52	96	50	142	25	0
Carbon tetrachloride	47	94	33	155	38	0
Chlorobenzene	33	94	55	133	20	0
Chloroform	33	92	35	148	26	0
1,4-Dichlorobenzene	47	94	36	152	37	0
1,2-Dichloroethane	47	101	51	152	29	0
1,1-Dichloroethene	47	97	36	157	38	0
Methyl ethyl ketone	33	91	19	163	46	0
Tetrachloroethylene	47	95	38	152	36	0
Vinyl chloride	47	89	29	149	38	0
Trichloroethylene	47	94	46	142	33	0

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ANNUAL QUALITY ASSURANCE REPORT
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IX. RCRA SEMI-VOLATILES EPA 8270 C

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
o-Cresol	39	89	39	140	15	0
m+p-Cresol	39	98	19	176	15	0
2,4-Dinitrotoluene	39	93	48	137	15	0
Hexachlorobenzene	39	89	24	153	23	0
Hexachloro-1,3-butadiene	40	89	45	133	15	0
Hexachloroethane	40	87	36	139	15	0
Nitrobenzene	40	87	39	136	15	0
Pentachlorophenol	39	90	23	157	33	0
Pyridine	37	83	29	137	17	0
2,4,5-Trichlorophenol	39	91	45	137	16	0
2,4,6-Trichlorophenol	39	89	39	138	15	0

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X. RCRA PESTICIDES EPA 8081 B

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
Lindane	44	98	52	143	15	0
Heptachlor	44	105	50	160	18	0
Heptachlor Epoxide	44	108	54	162	15	0
Endrin	43	126	28	225	28	0
Toxaphene	43	103	58	148	27	0
Chlordane	44	102	53	151	15	0
Methoxychlor	44	116	45	186	26	0

XI. RCRA HERBICIDES EPA 8151 A

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
2,4-D	45	105	54	156	15	0
2,4,5-TP	45	104	54	155	15	0

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ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

XII. BTEX (EPA 8021 B)

PARAMETER	N	ACCURACY^:			PRECISION	
		AVERAGE	LCL	UCL	UCL	LCL
Benzene	3	105	65	145	26	0
Toluene	3	99	69	129	34	0
Ethyl Benzene	3	94	53	134	61	0
p- & m-Xylenes	3	103	70	135	41	0
o-Xylene	3	102	87	118	15	0

XIII. TPH-DIESEL, TPH BUNKER, TPH GASOLINE (SW-846 8015 C)

PARAMETER	N	ACCURACY^:			PRECISION	
		AVERAGE	LCL	UCL	UCL	LCL
TPH-DIESEL	22	102	38	165	30	0
TPH- GASOLINE	12	110	60	159	27	0
TPH- ORO	16	100	71	129	17	0

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ANNUAL QUALITY ASSURANCE REPORT FOR THE PERIOD OF JANUARY 1, 2010 TO DECEMBER 31, 2010

X1V. PCB- SOIL (SW-846 8082 A)

PARAMETER	N	ACCURACY^:			PRECISION	
		AVERAGE	LCL	UCL	UCL	LCL
PCB (1016)	16	101	71	130	15	0
PCB (1260)	15	99	72	126	15	0

XV. PHARMACEUTICAL EFFLUENT GUIDELINES (EPA 624)

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
ACETONE	56	100	49	152	21	0
BENZENE	8	100	65	134	20	0
CHLOROBENZENE	7	103	75	131	26	0
CHLOROFORM	11	98	59	137	32	0
1,2-DICHLOROBENZENE	7	96	53	139	15	0
1,2-DICHLOROETHANE	8	103	69	137	25	0
n-AMYL ACETATE	18	97	60	135	24	0
ETHYL ACETATE	18	103	70	136	27	0
ISOPROPYL ACETATE	18	98	61	136	37	0

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JANUARY 1, 2010 TO DECEMBER 31, 2010

XVI. PHARMACEUTICAL EFFLUENT GUIDELINES (EPA 624), CONT.

PARAMETER	N	ACCURACY^:			PRECISION¯:	
		AVERAGE	LCL	UCL	UCL	LCL
n-BUTYL ACETATE	7	107	90	123	23	0
n-HEXANE	10	96	64	129	27	0
n-HEPTANE	8	104	82	126	33	0
ISOBUTYRALDEHYDE	7	96	67	126	24	0
ISOPROPYL ETHER	7	97	71	122	20	0
METHYL CELLOSOLVE	8	99	67	131	45	0
METHYL FORMATE	7	93	63	122	15	0
MIBK	8	97	62	133	26	0
DICHLOROMETHANE	21	102	64	141	24	0
THF	7	98	72	124	20	0
TOLUENE	9	102	72	130	26	0
p&m-XYLENE	9	102	56	149	31	0
o-XYLENE	9	98	61	134	23	0

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XVI. PHARMACEUTICAL EFFLUENT GUIDELINES (EPA 1671 A)

PARAMETER	N	ACCURACY^:			PRECISION~-	
		AVERAGE	LCL	UCL	UCL	LCL
DIETHYLAMINE	12	97	41	152	32	0
TRIETHYLAMINE	12	89	34	144	16	0

XVII. SOLVENT SCREEN (EPA 8015 C)

PARAMETER	N	ACCURACY^:			PRECISION~:	
		AVERAGE	LCL	UCL	UCL	LCL
METHANOL	1	104	101	105	15	0
IPA	2	104	94	114	15	0

LEGEND:

- ^- Accuracy based on the recovery of spiked samples; control limits established as the average ± 3 standard deviations.
- UCL- Upper control limit
- LCL- Lower control limit
- ~- Precision based on control charts limits for duplicates ranges; control limits are 0 for the lowest control limit and 3.267 times the average relative range for the upper control limit, where these values were below 15, they were then rounded off to 15 as the UCL. With exception for Wet Chemistry parameters.
- *- Spiked samples are not applicable
- SM- Standard Methods for the Examination of Water and Wastewater, 19th Edition, 1995.

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LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

PERFORMANCE EVALUATION STUDY WP # 180
Water Pollution Study

192 VILLA STREET
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ERA

A Waters Company

Iris M Chévere
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875

WP-180 Final Report

WatR™ Pollution Proficiency Testing

WatR™ Pollution Study

Open Date: 01/18/10

Close Date: 03/04/10

Report Issued Date: 03/23/10

ERA

A Waters Company

Study: **WP-180**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Inorganic Results

ACCREDITED

ERA
A Waters Company

WP-180 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 03/23/10
Study Dates: 01/18/10 - 03/04/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Volatile Solids (cat# 884)							
1970	Volatile Solids	mg/L	234.	240	188 - 276	Acceptable	EPA 160.4
WP Simple Nutrients (cat# 584)							
0031	Ammonia as N	mg/L	10.9	10.7	7.93 - 13.3	Acceptable	EPA 350.1
1820	Nitrate + Nitrite as N	mg/L	21.1	21.9	17.8 - 25.4	Acceptable	EPA 353.2
0032	Nitrate as N	mg/L	21.1	21.9	17.1 - 26.4	Acceptable	EPA 353.2
0033	ortho-Phosphate as P	mg/L	3.06	2.98	2.43 - 3.55	Acceptable	EPA 365.1

All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA

A Waters Company

Study: **WP-180**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Organic Results

ACCREDITED

ERA
A Waters Company

WP-180 Final Complete Report

Iris M Chévere
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787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 03/23/10
Study Dates: 01/18/10 - 03/04/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Chlorinated Acid Herbicides (cat# 829)							
8505	Acifluorfen	µg/L		3.89	0.690 - 5.79	Not Reported	
8530	Bentazon	µg/L		2.56	0.256 - 4.86	Not Reported	
8540	Chloramben	µg/L		4.79	0.479 - 7.02	Not Reported	
8545	2,4-D	µg/L	10.0	6.28	0.628 - 10.2	Acceptable	EPA 8151A
8560	2,4-DB	µg/L		9.00	0.900 - 17.2	Not Reported	
8550	Dacthal diacid (DCPA)	µg/L		7.65	0.765 - 13.8	Not Reported	
8555	Dalapon	µg/L		3.47	0.347 - 5.79	Not Reported	
8595	Dicamba	µg/L		4.99	0.499 - 7.34	Not Reported	
8600	3,5-Dichlorobenzoic acid	µg/L		5.19	1.37 - 7.70	Not Reported	
8605	Dichlorprop	µg/L		5.32	0.851 - 7.94	Not Reported	
8620	Dinoseb	µg/L		5.54	0.554 - 8.61	Not Reported	
7775	MCPA	µg/L		0.00		Not Reported	
7780	MCPP	µg/L		0.00		Not Reported	
6500	4-Nitrophenol	µg/L		3.07	0.307 - 5.16	Not Reported	
6605	Pentachlorophenol	µg/L		3.27	0.327 - 5.23	Not Reported	
8645	Picloram	µg/L		7.39	0.739 - 13.2	Not Reported	
8655	2,4,5-T	µg/L		2.86	0.286 - 4.48	Not Reported	
8650	2,4,5-TP (Silvex)	µg/L	1.02	5.56	0.757 - 8.15	Acceptable	EPA 8151A

A2LA ACCREDITED
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WP-180 Final Complete Report

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EPA ID: PR00012
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Study Dates: 01/18/10 - 03/04/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Base/Neutrals (cat# 833)							
5500	Acenaphthene	µg/L	10.66	18.2	8.77 - 23.9	Acceptable	EPA 625
5505	Acenaphthylene	µg/L	16.46	19.8	6.97 - 26.0	Acceptable	EPA 625
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/L		0.00		Not Reported	
5545	Aniline	µg/L	< 10.00	0.00		Acceptable	EPA 625
5555	Anthracene	µg/L	36.62	58.5	25.0 - 74.0	Acceptable	EPA 625
5595	Benzidine	µg/L	< 10.00	0.00		Acceptable	EPA 625
5575	Benzo(a)anthracene	µg/L	< 10.00	0.00		Acceptable	EPA 625
5585	Benzo(b)fluoranthene	µg/L	13.30	21.8	6.58 - 31.2	Acceptable	EPA 625
5600	Benzo(k)fluoranthene	µg/L	17.30	25.6	5.37 - 40.7	Acceptable	EPA 625
5590	Benzo(g,h,i)perylene	µg/L	15.16	25.4	5.35 - 38.1	Acceptable	EPA 625
5580	Benzo(a)pyrene	µg/L	21.62	38.4	11.8 - 50.6	Acceptable	EPA 625
5630	Benzyl alcohol	µg/L	< 10.00	0.00		Acceptable	EPA 625
5660	4-Bromophenyl-phenylether	µg/L	88.05	133	42.8 - 177	Acceptable	EPA 625
5670	Butylbenzylphthalate	µg/L	< 10.00	0.00		Acceptable	EPA 625
5680	Carbazole	µg/L		0.00		Not Reported	
5745	4-Chloroaniline	µg/L	< 10.00	0.00		Acceptable	EPA 625
5760	bis(2-Chloroethoxy)methane	µg/L	23.76	141	55.8 - 167	Not Acceptable	EPA 625
5765	bis(2-Chloroethyl)ether	µg/L	47.96	48.1	14.3 - 61.6	Acceptable	EPA 625
5780	bis(2-Chloroisopropyl)ether	µg/L	< 10.00	0.00		Acceptable	EPA 625
5790	1-Chloronaphthalene	µg/L		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/L	< 10.00	0.00		Acceptable	EPA 625
5825	4-Chlorophenyl-phenylether	µg/L	79.40	124	46.4 - 154	Acceptable	EPA 625
5855	Chrysene	µg/L	10.32	15.0	7.11 - 23.0	Acceptable	EPA 625
5895	Dibenz(a,h)anthracene	µg/L	< 10.00	0.00		Acceptable	EPA 625
5905	Dibenzofuran	µg/L	< 10.00	0.00		Acceptable	EPA 625
5925	Di-n-butylphthalate	µg/L	< 10.00	0.00		Acceptable	EPA 625
4610	1,2-Dichlorobenzene	µg/L	56.32	141	18.1 - 166	Acceptable	EPA 625
4615	1,3-Dichlorobenzene	µg/L	56.54	129	15.6 - 149	Acceptable	EPA 625
4620	1,4-Dichlorobenzene	µg/L	18.20	32.8	3.28 - 43.6	Acceptable	EPA 625
5945	3,3'-Dichlorobenzidine	µg/L	< 10.00	0.00		Acceptable	EPA 625
6070	Diethylphthalate	µg/L	< 10.00	0.00		Acceptable	EPA 625
6135	Dimethylphthalate	µg/L	60.56	132	13.2 - 190	Acceptable	EPA 625

A2LA ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

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WP-180 Final Complete Report

Iris M Chévere
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192 Villa St
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EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 03/23/10
Study Dates: 01/18/10 - 03/04/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Base/Neutrals (cat# 833) (Continued)							
6185	2,4-Dinitrotoluene	µg/L	56.28	93.2	34.3 - 116	Acceptable	EPA 625
6190	2,6-Dinitrotoluene	µg/L	78.07	134	56.0 - 168	Acceptable	EPA 625
6200	Di-n-octylphthalate	µg/L	43.82	0.00		Not Acceptable	EPA 625
6065	bis(2-Ethylhexyl)phthalate	µg/L	55.14	70.0	21.0 - 98.4	Acceptable	EPA 625
6265	Fluoranthene	µg/L	76.05	91.5	40.7 - 111	Acceptable	EPA 625
6270	Fluorene	µg/L	< 10.00	0.00		Acceptable	EPA 625
6275	Hexachlorobenzene	µg/L	53.18	98.6	42.9 - 121	Acceptable	EPA 625
4835	Hexachlorobutadiene	µg/L	38.32	95.4	10.6 - 115	Acceptable	EPA 625
6285	Hexachlorocyclopentadiene	µg/L	113.45	154	15.4 - 199	Acceptable	EPA 625
4840	Hexachloroethane	µg/L	32.08	88.9	9.22 - 105	Acceptable	EPA 625
6315	Indeno(1,2,3-cd)pyrene	µg/L	17.22	35.4	6.20 - 50.2	Acceptable	EPA 625
6320	Isophorone	µg/L	29.00	56.4	22.7 - 73.6	Acceptable	EPA 625
6385	2-Methylnaphthalene	µg/L	< 10.00	0.00		Acceptable	EPA 625
5005	Naphthalene	µg/L	38.58	116	30.5 - 138	Acceptable	EPA 625
6460	2-Nitroaniline	µg/L	< 10.00	0.00		Acceptable	EPA 625
6465	3-Nitroaniline	µg/L	< 10.00	0.00		Acceptable	EPA 625
6470	4-Nitroaniline	µg/L	< 10.00	0.00		Acceptable	EPA 625
5015	Nitrobenzene	µg/L	< 10.00	0.00		Acceptable	EPA 625
6525	N-Nitrosodiethylamine	µg/L		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/L	21.78	82.1	8.21 - 98.5	Acceptable	EPA 625
6535	N-Nitrosodiphenylamine	µg/L	< 10.00	0.00		Acceptable	EPA 625
6545	N-Nitroso-di-n-propylamine	µg/L	32.10	73.2	20.2 - 96.3	Acceptable	EPA 625
6590	Pentachlorobenzene	µg/L		0.00		Not Reported	
6615	Phenanthrene	µg/L	37.06	70.8	33.4 - 86.8	Acceptable	EPA 625
6665	Pyrene	µg/L	21.42	33.5	10.8 - 49.5	Acceptable	EPA 625
5095	Pyridine	µg/L	< 10.00	0.00		Acceptable	EPA 625
6715	1,2,4,5-Tetrachlorobenzene	µg/L		0.00		Not Reported	
5155	1,2,4-Trichlorobenzene	µg/L	25.20	57.4	11.4 - 71.0	Acceptable	EPA 625

A2LA ACCREDITED
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A Waters Company

WP-180 Final Complete Report

Iris M Chévere
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EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 03/23/10
Study Dates: 01/18/10 - 03/04/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Acids (cat# 834)							
5610	Benzoic acid	µg/L	< 10.00	0.00		Acceptable	EPA 625
5700	4-Chloro-3-methylphenol	µg/L	32.36	61.3	22.9 - 78.9	Acceptable	EPA 625
5800	2-Chlorophenol	µg/L	44.06	108	31.4 - 136	Acceptable	EPA 625
6000	2,4-Dichlorophenol	µg/L	37.20	95.7	30.4 - 119	Acceptable	EPA 625
6005	2,6-Dichlorophenol	µg/L		135	46.5 - 168	Not Reported	
6130	2,4-Dimethylphenol	µg/L	17.32	68.5	13.1 - 90.8	Acceptable	EPA 625
6360	4,6-Dinitro-2-methylphenol	µg/L	111.25	162	58.2 - 232	Acceptable	EPA 625
6175	2,4-Dinitrophenol	µg/L	78.66	138	13.8 - 190	Acceptable	EPA 625
6400	2-Methylphenol	µg/L	23.10	57.0	10.8 - 72.0	Acceptable	EPA 625
6410	4-Methylphenol	µg/L	34.70	106	10.6 - 138	Acceptable	EPA 625
6490	2-Nitrophenol	µg/L	31.52	70.5	20.0 - 89.6	Acceptable	EPA 625
6500	4-Nitrophenol	µg/L	34.20	148	14.8 - 199	Acceptable	EPA 625
6605	Pentachlorophenol	µg/L	97.05	151	41.4 - 209	Acceptable	EPA 625
6625	Phenol	µg/L	17.86	113	11.3 - 152	Acceptable	EPA 625
6735	2,3,4,6-Tetrachlorophenol	µg/L		153	34.4 - 206	Not Reported	
6835	2,4,5-Trichlorophenol	µg/L	27.50	52.4	20.4 - 70.4	Acceptable	EPA 625
6840	2,4,6-Trichlorophenol	µg/L	32.90	64.5	20.6 - 83.4	Acceptable	EPA 625
WP Organochlorine Pesticides (cat# 831)							
0047	Aldrin	µg/L	2.52	3.48	0.995 - 4.82	Acceptable	EPA 608
7110	alpha-BHC	µg/L	2.14	3.05	1.11 - 4.34	Acceptable	EPA 608
7115	beta-BHC	µg/L	3.35	3.93	1.60 - 5.48	Acceptable	EPA 608
7105	delta-BHC	µg/L	7.81	9.06	3.41 - 12.6	Acceptable	EPA 608
7120	gamma-BHC(Lindane)	µg/L	5.00	6.43	2.62 - 8.88	Acceptable	EPA 608
7240	alpha-Chlordane	µg/L	6.19	5.78	2.60 - 7.82	Acceptable	EPA 608
7245	gamma-Chlordane	µg/L	3.15	3.71	1.56 - 5.11	Acceptable	EPA 608
0049	4,4'-DDD	µg/L	4.00	5.80	2.16 - 8.31	Acceptable	EPA 608
0050	4,4'-DDE	µg/L	2.66	3.34	1.45 - 4.43	Acceptable	EPA 608
0051	4,4'-DDT	µg/L	4.33	1.53	0.578 - 2.33	Not Acceptable	EPA 608
0048	Dieldrin	µg/L	9.92	9.60	4.72 - 13.0	Acceptable	EPA 608
7540	Endrin	µg/L	4.17	4.83	1.80 - 7.28	Acceptable	EPA 608
7530	Endrin aldehyde	µg/L	4.33	5.98	1.60 - 9.30	Acceptable	EPA 608
7535	Endrin ketone	µg/L	5.32	5.49	3.02 - 7.96	Acceptable	EPA 608
7510	Endosulfan I	µg/L	8.41	13.6	4.16 - 19.9	Acceptable	EPA 608
7515	Endosulfan II	µg/L	7.10	8.69	2.79 - 11.7	Acceptable	EPA 608
7520	Endosulfan sulfate	µg/L	9.04	9.83	3.71 - 14.3	Acceptable	EPA 608
0052	Heptachlor	µg/L	3.94	4.30	1.40 - 5.91	Acceptable	EPA 608
0078	Heptachlor epoxide (beta)	µg/L	8.24	9.69	4.86 - 13.5	Acceptable	EPA 608
7810	Methoxychlor	µg/L	11.20	11.7	3.15 - 18.4	Acceptable	EPA 608

ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

BECKTON ENVIRONMENTAL

LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

PERFORMANCE EVALUATION STUDY WP # 183
Water Pollution Study

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ERA

A Waters Company

Iris M Chévere
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WP-183 Final Report

WatR™ Pollution Proficiency Testing

WatR™ Pollution Study

Open Date: 04/12/10

Close Date: 05/27/10

Report Issued Date: 06/17/10

ERA

A Waters Company

Study: **WP-183**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Inorganic Results

ACCREDITED

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A Waters Company

WP-183 Final Complete Report

Iris M Chévere
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Beckton Environmental Lab
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787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 06/17/10
Study Dates: 04/12/10 - 05/27/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Minerals (cat# 581)							
0027	Alkalinity as CaCO3	mg/L	42.0	42.3	36.2 - 49.0	Acceptable	SM2320B
0028	Chloride	mg/L	93.5	101	86.8 - 115	Acceptable	SM4500Cl- E
0020	Conductivity at 25°C	µmhos/cm	488.	484	435 - 533	Acceptable	SM2510B
0029	Fluoride	mg/L	3.56	3.84	3.24 - 4.46	Acceptable	SM4500F- C
0026	Potassium	mg/L	27.3	23.7	19.5 - 28.3	Acceptable	EPA 200.7
0025	Sodium	mg/L	86.0	84.2	71.5 - 96.5	Acceptable	EPA 200.7
0030	Sulfate	mg/L	18.3	19.4	15.0 - 23.3	Acceptable	ASTM D516-02
0021	Total Dissolved Solids at 180°C	mg/L	282.	289	216 - 362	Acceptable	SM2540C
1950	Total Solids at 105°C	mg/L	293.	309	268 - 346	Acceptable	SM2540B
WP Hardness (cat# 580)							
0072	Non-Filterable Residue (TSS)	mg/L	60.0	61.9	49.3 - 69.9	Acceptable	SM2540D
0023	Calcium	mg/L	69.2	70.4	63.0 - 79.7	Acceptable	EPA 200.7
0024	Magnesium	mg/L	34.2	34.0	29.2 - 39.1	Acceptable	EPA 200.7
1550	Calcium Hardness as CaCO3	mg/L	173.	176	157 - 199	Acceptable	SM2340B
0022	Total Hardness as CaCO3	mg/L	298.	316	277 - 360	Acceptable	SM2340C
WP pH (cat# 577)							
0019	pH	S.U.	6.94	6.92	6.72 - 7.12	Acceptable	SM4500H+ B
WP Settleable Solids (cat# 883)							
1965	Settleable Solids	mL/L	35.0	32.3	25.6 - 41.4	Acceptable	SM2540F
WP Volatile Solids (cat# 884)							
1970	Volatile Solids	mg/L	278.	396	335 - 436	Not Acceptable	EPA 160.4
WP Simple Nutrients (cat# 584)							
0031	Ammonia as N	mg/L	15.2	13.8	10.3 - 17.1	Acceptable	EPA 350.1
1820	Nitrate + Nitrite as N	mg/L	13.0	12.8	10.4 - 14.9	Acceptable	EPA 353.2
0032	Nitrate as N	mg/L	13.0	12.8	9.97 - 15.4	Acceptable	EPA 353.2
0033	ortho-Phosphate as P	mg/L	5.03	4.80	3.96 - 5.67	Acceptable	EPA 365.1
WP Complex Nutrients (cat# 579)							
0034	Total Kjeldahl Nitrogen	mg/L	16.7	19.2	12.7 - 24.7	Acceptable	EPA 351.2
0035	Total phosphorus as P	mg/L	3.62	3.67	2.99 - 4.40	Acceptable	EPA 365.4
WP Nitrite (cat# 888)							
1840	Nitrite as N	mg/L	2.10	2.09	1.75 - 2.42	Acceptable	EPA 353.2
WP Demand (cat# 578)							
0038	BOD	mg/L	89.3	98.0	49.5 - 146	Acceptable	SM5210B
0102	CBOD	mg/L	71.8	84.4	37.8 - 131	Acceptable	SM5210B
0036	COD	mg/L	168.	158	121 - 180	Acceptable	EPA 410.4
0037	TOC	mg/L	65.2	62.5	52.2 - 71.9	Acceptable	SM5310B

ACCREDITED

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ERA
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WP-183 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 06/17/10
Study Dates: 04/12/10 - 05/27/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Oil & Grease (cat# 582)							
0104	Oil & Grease (Gravimetric)	mg/L	53.0	70.0	47.7 - 83.1	Acceptable	EPA 1664A
1860	Oil & Grease (Infrared)	mg/L		86.1	60.2 - 101	Not Reported	
WP Trace Metals (cat# 586)							
0001	Aluminum	µg/L		227	158 - 301	Not Reported	
0016	Antimony	µg/L		685	483 - 823	Not Reported	
0002	Arsenic	µg/L		489	409 - 573	Not Reported	
1015	Barium	µg/L		937	813 - 1060	Not Reported	
0003	Beryllium	µg/L		288	244 - 325	Not Reported	
1025	Boron	µg/L	1440	1490	1220 - 1740	Acceptable	SM 4500 B B
0004	Cadmium	µg/L		393	335 - 447	Not Reported	
0006	Chromium	µg/L		723	630 - 817	Not Reported	
0005	Cobalt	µg/L		295	258 - 331	Not Reported	
0007	Copper	µg/L		136	120 - 152	Not Reported	
0008	Iron	µg/L		1660	1470 - 1870	Not Reported	
0012	Lead	µg/L		854	748 - 956	Not Reported	
0010	Manganese	µg/L		1020	916 - 1130	Not Reported	
0074	Molybdenum	µg/L		197	163 - 229	Not Reported	
0011	Nickel	µg/L		635	572 - 711	Not Reported	
0013	Selenium	µg/L		1340	1070 - 1550	Not Reported	
0017	Silver	µg/L		45.9	38.7 - 52.8	Not Reported	
0075	Strontium	µg/L		106	90.1 - 122	Not Reported	
0018	Thallium	µg/L		748	615 - 889	Not Reported	
0014	Vanadium	µg/L		676	592 - 756	Not Reported	
0015	Zinc	µg/L		846	727 - 972	Not Reported	

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WP Trace Metals (cat# 586)							
0001	Aluminum	µg/L	235.	227	158 - 301	Acceptable	EPA 200.7
0016	Antimony	µg/L	646.	685	483 - 823	Acceptable	EPA 200.7
0002	Arsenic	µg/L	466.	489	409 - 573	Acceptable	EPA 200.7
1015	Barium	µg/L	941.	937	813 - 1060	Acceptable	EPA 200.7
0003	Beryllium	µg/L	287.	288	244 - 325	Acceptable	EPA 200.7
1025	Boron	µg/L		1490	1220 - 1740	Not Reported	
0004	Cadmium	µg/L	375.	393	335 - 447	Acceptable	EPA 200.7
0006	Chromium	µg/L	715.	723	630 - 817	Acceptable	EPA 200.7
0005	Cobalt	µg/L	302.	295	258 - 331	Acceptable	EPA 200.7
0007	Copper	µg/L	141.	136	120 - 152	Acceptable	EPA 200.7
0008	Iron	µg/L	1470.	1660	1470 - 1870	Acceptable	EPA 200.7
0012	Lead	µg/L	835.	854	748 - 956	Acceptable	EPA 200.7
0010	Manganese	µg/L	996.	1020	916 - 1130	Acceptable	EPA 200.7
0074	Molybdenum	µg/L	199.	197	163 - 229	Acceptable	EPA 200.7
0011	Nickel	µg/L	591.	635	572 - 711	Acceptable	EPA 200.7
0013	Selenium	µg/L	1320.	1340	1070 - 1550	Acceptable	EPA 200.7
0017	Silver	µg/L	47.0	45.9	38.7 - 52.8	Acceptable	EPA 200.7
0075	Strontium	µg/L		106	90.1 - 122	Not Reported	
0018	Thallium	µg/L	709.	748	615 - 889	Acceptable	EPA 200.7
0014	Vanadium	µg/L	663.	676	592 - 756	Acceptable	EPA 200.7
0015	Zinc	µg/L	785.	846	727 - 972	Acceptable	EPA 200.7
WP Mercury (cat# 574)							
0009	Mercury	µg/L	23.7	21.3	13.1 - 28.7	Acceptable	EPA 245.1
WP Hexavalent Chromium (cat# 898)							
1045	Hexavalent Chromium	µg/L	417.	430	349 - 507	Acceptable	SM3500Cr D
WP Color (cat# 882)							
1605	Color	PC units	20.	20.0	10.0 - 30.0	Acceptable	SM2120B
WP Turbidity (cat# 893)							
2055	Turbidity	NTU	4.74	4.39	3.58 - 5.16	Acceptable	EPA 180.1
WP Total Cyanide (cat# 588)							
0071	Cyanide, total	mg/L	1.12	0.494	0.289 - 0.703	Not Acceptable	SM4500CN E
WP Total Phenolics (4-AAP) (cat# 589)							
0097	Phenolics, total	mg/L	2.32	2.52	1.40 - 3.64	Acceptable	EPA 420.1
WP Silica (cat# 890)							
1990	Silica as SiO2	mg/L	169.	164	123 - 205	Acceptable	EPA 200.7
WP Sulfide (cat# 891)							
2005	Sulfide	mg/L	5.20	6.19	2.77 - 8.93	Acceptable	SM4500S2- F

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WP-183 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Surfactants - MBAS (cat# 892)							
2025	Surfactants (MBAS)	mg/L	0.436	0.314	0.182 - 0.459	Acceptable	SM5540C
WP Total Residual Chlorine (cat# 587)							
0098	Total Residual Chlorine	mg/L	1.43	1.37	0.983 - 1.70	Acceptable	SM4500Cl G

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Study: **WP-183**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Organic Results

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WP-183 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Volatiles (cat# 830)							
4315	Acetone	µg/L	< 5.0	0.00		Acceptable	EPA 624
4320	Acetonitrile	µg/L	< 5.0	0.00		Acceptable	EPA 624
4325	Acrolein	µg/L	< 5.0	0.00		Acceptable	EPA 624
4340	Acrylonitrile	µg/L	< 5.0	0.00		Acceptable	EPA 624
0065	Benzene	µg/L	83.87	64.2	46.5 - 81.4	Not Acceptable	EPA 624
0060	Bromodichloromethane	µg/L	< 5.0	34.1	23.8 - 46.0	Not Acceptable	EPA 624
0062	Bromoform	µg/L	19.96	26.2	15.9 - 35.6	Acceptable	EPA 624
4950	Bromomethane	µg/L	17.71	20.0	8.00 - 32.0	Acceptable	EPA 624
4410	2-Butanone (MEK)	µg/L	107.88	132	38.4 - 206	Acceptable	EPA 624
5000	tert-Butyl methyl ether (MTBE)	µg/L		54.9	34.5 - 77.4	Not Reported	
4450	Carbon disulfide	µg/L	< 5.0	0.00		Acceptable	EPA 624
0058	Carbon tetrachloride	µg/L	78.25	79.4	43.2 - 108	Acceptable	EPA 624
0064	Chlorobenzene	µg/L	16.09	31.1	22.4 - 39.3	Not Acceptable	EPA 624
0061	Chlorodibromomethane	µg/L	13.95	21.4	14.4 - 28.3	Not Acceptable	EPA 624
4485	Chloroethane	µg/L	< 5.0	0.00		Acceptable	EPA 624
4500	2-Chloroethylvinylether	µg/L	< 5.0	0.00		Acceptable	EPA 624
0055	Chloroform	µg/L	52.37	51.2	35.4 - 66.2	Acceptable	EPA 624
4960	Chloromethane	µg/L	44.96	28.0	11.2 - 44.8	Not Acceptable	EPA 624
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/L	< 5.0	0.00		Acceptable	EPA 624
4585	1,2-Dibromoethane (EDB)	µg/L	< 5.0	0.00		Acceptable	EPA 624
4595	Dibromomethane	µg/L	30.98	37.7	25.8 - 50.9	Acceptable	EPA 624
0094	1,2-Dichlorobenzene	µg/L	75.51	67.5	46.8 - 87.6	Acceptable	EPA 624
0096	1,3-Dichlorobenzene	µg/L	9.05	26.7	17.5 - 34.4	Not Acceptable	EPA 624
0095	1,4-Dichlorobenzene	µg/L	6.50	22.6	14.9 - 29.5	Not Acceptable	EPA 624
4625	Dichlorodifluoromethane (Freon 12)	µg/L	55.79	0.00		Not Acceptable	EPA 624
4630	1,1-Dichloroethane	µg/L	54.42	48.0	32.8 - 65.7	Acceptable	EPA 624
0054	1,2-Dichloroethane	µg/L	43.29	36.5	25.3 - 48.6	Acceptable	EPA 624
4640	1,1-Dichloroethylene	µg/L	22.47	27.1	14.3 - 39.6	Acceptable	EPA 624
4645	cis-1,2-Dichloroethylene	µg/L	22.96	26.5	18.3 - 35.4	Acceptable	EPA 624
4700	trans-1,2-Dichloroethylene	µg/L	23.26	22.7	12.0 - 33.9	Acceptable	EPA 624
4655	1,2-Dichloropropane	µg/L	53.23	39.1	25.3 - 52.0	Not Acceptable	EPA 624
4680	cis-1,3-Dichloropropylene	µg/L	29.74	43.6	30.5 - 56.7	Not Acceptable	EPA 624

ACCREDITED
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WP-183 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Volatiles (cat# 830) (Continued)							
4685	trans-1,3-Dichloropropylene	µg/L	30.47	0.00		Not Acceptable	EPA 624
0066	Ethylbenzene	µg/L	18.93	30.0	20.4 - 38.6	Not Acceptable	EPA 624
4835	Hexachlorobutadiene	µg/L	56.57	85.5	9.23 - 104	Acceptable	EPA 624
4860	2-Hexanone	µg/L	< 5.0	0.00		Acceptable	EPA 624
0063	Methylene chloride	µg/L	42.13	45.8	27.9 - 64.3	Acceptable	EPA 624
4995	4-Methyl-2-pentanone (MIBK)	µg/L	< 5.0	0.00		Acceptable	EPA 624
5005	Naphthalene	µg/L	< 5.0	35.0	11.6 - 45.1	Not Acceptable	EPA 624
5100	Styrene	µg/L	27.65	47.2	30.6 - 64.2	Not Acceptable	EPA 624
5105	1,1,1,2-Tetrachloroethane	µg/L	14.68	20.3	13.1 - 27.3	Acceptable	EPA 624
5110	1,1,2,2-Tetrachloroethane	µg/L	< 5.0	0.00		Acceptable	EPA 624
0059	Tetrachloroethylene	µg/L	33.67	47.7	26.4 - 62.4	Acceptable	EPA 624
0067	Toluene	µg/L	56.05	51.8	36.0 - 65.0	Acceptable	EPA 624
5155	1,2,4-Trichlorobenzene	µg/L	< 5.0	0.00		Acceptable	EPA 624
0056	1,1,1-Trichloroethane	µg/L	15.25	16.4	10.4 - 22.4	Acceptable	EPA 624
5165	1,1,2-Trichloroethane	µg/L	53.70	66.8	46.3 - 86.8	Acceptable	EPA 624
0057	Trichloroethylene	µg/L	85.49	80.9	51.4 - 105	Acceptable	EPA 624
5175	Trichlorofluoromethane	µg/L	< 5.0	0.00		Acceptable	EPA 624
5180	1,2,3-Trichloropropane (TCP)	µg/L	< 5.0	17.9	7.67 - 27.9	Not Acceptable	EPA 624
5225	Vinyl acetate	µg/L	< 5.0	0.00		Acceptable	EPA 624
5235	Vinyl chloride	µg/L	< 5.0	0.00		Acceptable	EPA 624
5260	Xylenes, total	µg/L	65.04	138	79.0 - 185	Not Acceptable	EPA 624

A2LA ACCREDITED
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WP-183 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Volatiles (cat# 830)							
4315	Acetone	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
4320	Acetonitrile	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
4325	Acrolein	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
4340	Acrylonitrile	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
0065	Benzene	µg/L	83.87	64.2	46.5 - 81.4	Not Acceptable	EPA 8260C
0060	Bromodichloromethane	µg/L	< 5.0	34.1	23.8 - 46.0	Not Acceptable	EPA 8260C
0062	Bromoform	µg/L	19.96	26.2	15.9 - 35.6	Acceptable	EPA 8260C
4950	Bromomethane	µg/L	17.71	20.0	8.00 - 32.0	Acceptable	EPA 8260C
4410	2-Butanone (MEK)	µg/L	107.88	132	38.4 - 206	Acceptable	EPA 8260C
5000	tert-Butyl methyl ether (MTBE)	µg/L		54.9	34.5 - 77.4	Not Reported	
4450	Carbon disulfide	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
0058	Carbon tetrachloride	µg/L	78.25	79.4	43.2 - 108	Acceptable	EPA 8260C
0064	Chlorobenzene	µg/L	16.09	31.1	22.4 - 39.3	Not Acceptable	EPA 8260C
0061	Chlorodibromomethane	µg/L	13.95	21.4	14.4 - 28.3	Not Acceptable	EPA 8260C
4485	Chloroethane	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
4500	2-Chloroethylvinylether	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
0055	Chloroform	µg/L	52.37	51.2	35.4 - 66.2	Acceptable	EPA 8260C
4960	Chloromethane	µg/L	44.96	28.0	11.2 - 44.8	Not Acceptable	EPA 8260C
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
4585	1,2-Dibromoethane (EDB)	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
4595	Dibromomethane	µg/L	30.98	37.7	25.8 - 50.9	Acceptable	EPA 8260C
0094	1,2-Dichlorobenzene	µg/L	75.51	67.5	46.8 - 87.6	Acceptable	EPA 8260C
0096	1,3-Dichlorobenzene	µg/L	9.05	26.7	17.5 - 34.4	Not Acceptable	EPA 8260C
0095	1,4-Dichlorobenzene	µg/L	6.50	22.6	14.9 - 29.5	Not Acceptable	EPA 8260C
4625	Dichlorodifluoromethane (Freon 12)	µg/L	55.79	0.00		Not Acceptable	EPA 8260C
4630	1,1-Dichloroethane	µg/L	54.42	48.0	32.8 - 65.7	Acceptable	EPA 8260C
0054	1,2-Dichloroethane	µg/L	43.29	36.5	25.3 - 48.6	Acceptable	EPA 8260C
4640	1,1-Dichloroethylene	µg/L	22.47	27.1	14.3 - 39.6	Acceptable	EPA 8260C
4645	cis-1,2-Dichloroethylene	µg/L	22.96	26.5	18.3 - 35.4	Acceptable	EPA 8260C
4700	trans-1,2-Dichloroethylene	µg/L	23.26	22.7	12.0 - 33.9	Acceptable	EPA 8260C
4655	1,2-Dichloropropane	µg/L	53.23	39.1	25.3 - 52.0	Not Acceptable	EPA 8260C
4680	cis-1,3-Dichloropropylene	µg/L	29.74	43.6	30.5 - 56.7	Not Acceptable	EPA 8260C

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Volatiles (cat# 830) (Continued)							
4685	trans-1,3-Dichloropropylene	µg/L	30.47	0.00		Not Acceptable	EPA 8260C
0066	Ethylbenzene	µg/L	18.93	30.0	20.4 - 38.6	Not Acceptable	EPA 8260C
4835	Hexachlorobutadiene	µg/L	56.57	85.5	9.23 - 104	Acceptable	EPA 8260C
4860	2-Hexanone	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
0063	Methylene chloride	µg/L	42.13	45.8	27.9 - 64.3	Acceptable	EPA 8260C
4995	4-Methyl-2-pentanone (MIBK)	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
5005	Naphthalene	µg/L	< 5.0	35.0	11.6 - 45.1	Not Acceptable	EPA 8260C
5100	Styrene	µg/L	27.65	47.2	30.6 - 64.2	Not Acceptable	EPA 8260C
5105	1,1,1,2-Tetrachloroethane	µg/L	14.68	20.3	13.1 - 27.3	Acceptable	EPA 8260C
5110	1,1,2,2-Tetrachloroethane	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
0059	Tetrachloroethylene	µg/L	33.67	47.7	26.4 - 62.4	Acceptable	EPA 8260C
0067	Toluene	µg/L	56.05	51.8	36.0 - 65.0	Acceptable	EPA 8260C
5155	1,2,4-Trichlorobenzene	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
0056	1,1,1-Trichloroethane	µg/L	15.25	16.4	10.4 - 22.4	Acceptable	EPA 8260C
5165	1,1,2-Trichloroethane	µg/L	53.70	66.8	46.3 - 86.8	Acceptable	EPA 8260C
0057	Trichloroethylene	µg/L	85.49	80.9	51.4 - 105	Acceptable	EPA 8260C
5175	Trichlorofluoromethane	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
5180	1,2,3-Trichloropropane (TCP)	µg/L	< 5.0	17.9	7.67 - 27.9	Not Acceptable	EPA 8260C
5225	Vinyl acetate	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
5235	Vinyl chloride	µg/L	< 5.0	0.00		Acceptable	EPA 8260C
5260	Xylenes, total	µg/L	65.04	138	79.0 - 185	Not Acceptable	EPA 8260C
WP Chlorinated Acid Herbicides (cat# 829)							
8505	Acifluorfen	µg/L		6.91	1.23 - 10.3	Not Reported	
8530	Bentazon	µg/L		8.67	0.867 - 16.5	Not Reported	
8540	Chloramben	µg/L		5.96	0.596 - 8.74	Not Reported	
8545	2,4-D	µg/L	1.97	2.47	0.247 - 4.27	Acceptable	EPA 8151A
8560	2,4-DB	µg/L		3.23	0.323 - 6.18	Not Reported	
8550	Dacthal diacid (DCPA)	µg/L		8.26	0.826 - 14.9	Not Reported	
8555	Dalapon	µg/L		6.03	0.603 - 10.1	Not Reported	
8595	Dicamba	µg/L		2.18	0.218 - 3.40	Not Reported	
8600	3,5-Dichlorobenzoic acid	µg/L		3.03	0.799 - 4.49	Not Reported	
8605	Dichlorprop	µg/L		8.59	1.37 - 12.8	Not Reported	
8620	Dinoseb	µg/L		4.91	0.491 - 7.63	Not Reported	
7775	MCPA	µg/L		0.00		Not Reported	
7780	MCPP	µg/L		0.00		Not Reported	
6500	4-Nitrophenol	µg/L		7.96	0.796 - 13.4	Not Reported	
6605	Pentachlorophenol	µg/L		4.60	0.460 - 7.36	Not Reported	
8645	Picloram	µg/L		2.75	0.275 - 4.91	Not Reported	
8655	2,4,5-T	µg/L		4.18	0.418 - 6.32	Not Reported	
8650	2,4,5-TP (Silvex)	µg/L	3.74	4.59	0.565 - 6.79	Acceptable	EPA 8151A

ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA
A Waters Company

WP-183 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 06/17/10
Study Dates: 04/12/10 - 05/27/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP PCBs in Water (cat# 832S)							
0040	Aroclor 1016	µg/L	10.59	10.9	2.88 - 15.5	Acceptable	EPA 608
8885	Aroclor 1221	µg/L	< 0.01	0.00		Acceptable	EPA 608
0042	Aroclor 1232	µg/L	< 0.01	0.00		Acceptable	EPA 608
0040	Aroclor 1242	µg/L	< 0.01	0.00		Acceptable	EPA 608
0044	Aroclor 1248	µg/L	< 0.01	0.00		Acceptable	EPA 608
0045	Aroclor 1254	µg/L	< 0.01	0.00		Acceptable	EPA 608
0046	Aroclor 1260	µg/L	< 0.01	0.00		Acceptable	EPA 608
WP PCBs in Oil (cat# 835S)							
8880	Aroclor 1016	mg/kg	< 0.01	0.00		Acceptable	EPA 8082
8895	Aroclor 1242	mg/kg	< 0.01	0.00		Acceptable	EPA 8082
8905	Aroclor 1254	mg/kg	22.97	16.2	1.62 - 26.8	Acceptable	EPA 8082
8910	Aroclor 1260	mg/kg	< 0.01	0.00		Acceptable	EPA 8082

A2LA ACCREDITED
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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Base/Neutrals (cat# 833)							
5500	Acenaphthene	µg/L	20.28	36.3	15.6 - 44.9	Acceptable	EPA 625
5505	Acenaphthylene	µg/L	29.78	22.0	7.87 - 28.7	Not Acceptable	EPA 625
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/L		0.00		Not Reported	
5545	Aniline	µg/L	< 10.00	0.00		Acceptable	EPA 625
5555	Anthracene	µg/L	26.14	34.0	14.8 - 44.1	Acceptable	EPA 625
5595	Benzidine	µg/L	< 10.00	0.00		Acceptable	EPA 625
5575	Benzo(a)anthracene	µg/L	17.62	26.4	11.5 - 34.2	Acceptable	EPA 625
5585	Benzo(b)fluoranthene	µg/L	< 10.00	0.00		Acceptable	EPA 625
5600	Benzo(k)fluoranthene	µg/L	< 10.00	0.00		Acceptable	EPA 625
5590	Benzo(g,h,i)perylene	µg/L	12.72	20.5	3.14 - 31.8	Acceptable	EPA 625
5580	Benzo(a)pyrene	µg/L	17.00	26.5	8.31 - 36.1	Acceptable	EPA 625
5630	Benzyl alcohol	µg/L	< 10.00	0.00		Acceptable	EPA 625
5660	4-Bromophenyl-phenylether	µg/L	16.08	24.4	9.51 - 34.7	Acceptable	EPA 625
5670	Butylbenzylphthalate	µg/L	37.02	59.9	7.06 - 89.6	Acceptable	EPA 625
5680	Carbazole	µg/L		0.00		Not Reported	
5745	4-Chloroaniline	µg/L	< 10.00	0.00		Acceptable	EPA 625
5760	bis(2-Chloroethoxy)methane	µg/L	< 10.00	0.00		Acceptable	EPA 625
5765	bis(2-Chloroethyl)ether	µg/L	< 10.00	29.7	9.70 - 40.0	Not Acceptable	EPA 625
5780	bis(2-Chloroisopropyl)ether	µg/L	71.80	166	39.5 - 199	Acceptable	EPA 625
5790	1-Chloronaphthalene	µg/L		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/L	27.50	33.8	9.73 - 42.1	Acceptable	EPA 625
5825	4-Chlorophenyl-phenylether	µg/L	24.68	31.7	12.4 - 41.8	Acceptable	EPA 625
5855	Chrysene	µg/L	11.42	13.9	6.69 - 21.6	Acceptable	EPA 625
5895	Dibenz(a,h)anthracene	µg/L	15.36	23.1	5.86 - 35.0	Acceptable	EPA 625
5905	Dibenzofuran	µg/L	22.96	30.5	12.0 - 41.7	Acceptable	EPA 625
5925	Di-n-butylphthalate	µg/L	46.76	84.8	28.0 - 112	Acceptable	EPA 625
4610	1,2-Dichlorobenzene	µg/L	< 10.00	0.00		Acceptable	EPA 625
4615	1,3-Dichlorobenzene	µg/L	23.00	38.7	5.47 - 47.5	Acceptable	EPA 625
4620	1,4-Dichlorobenzene	µg/L	40.02	110	11.0 - 131	Acceptable	EPA 625
5945	3,3'-Dichlorobenzidine	µg/L	< 10.00	0.00		Acceptable	EPA 625
6070	Diethylphthalate	µg/L	48.80	170	32.6 - 229	Acceptable	EPA 625
6135	Dimethylphthalate	µg/L	56.12	106	10.6 - 154	Acceptable	EPA 625

ACCREDITED
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ERA
A Waters Company

WP-183 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 06/17/10
Study Dates: 04/12/10 - 05/27/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Base/Neutrals (cat# 833) (Continued)							
6185	2,4-Dinitrotoluene	µg/L	16.76	24.0	6.90 - 34.1	Acceptable	EPA 625
6190	2,6-Dinitrotoluene	µg/L	31.28	0.00		Not Acceptable	EPA 625
6200	Di-n-octylphthalate	µg/L	75.60	102	22.4 - 151	Acceptable	EPA 625
6065	bis(2-Ethylhexyl)phthalate	µg/L	41.12	71.6	21.4 - 100	Acceptable	EPA 625
6265	Fluoranthene	µg/L	36.16	52.2	24.0 - 65.9	Acceptable	EPA 625
6270	Fluorene	µg/L	23.08	40.3	15.2 - 52.4	Acceptable	EPA 625
6275	Hexachlorobenzene	µg/L	30.58	53.6	22.7 - 67.7	Acceptable	EPA 625
4835	Hexachlorobutadiene	µg/L	< 10.00	0.00		Acceptable	EPA 625
6285	Hexachlorocyclopentadiene	µg/L	131.15	166	16.6 - 214	Acceptable	EPA 625
4840	Hexachloroethane	µg/L	< 10.00	0.00		Acceptable	EPA 625
6315	Indeno(1,2,3-cd)pyrene	µg/L	12.00	30.7	4.54 - 44.7	Acceptable	EPA 625
6320	Isophorone	µg/L	< 10.00	0.00		Acceptable	EPA 625
6385	2-Methylnaphthalene	µg/L	43.54	84.6	16.0 - 100	Acceptable	EPA 625
5005	Naphthalene	µg/L	40.90	74.2	20.8 - 89.9	Acceptable	EPA 625
6460	2-Nitroaniline	µg/L	< 10.00	0.00		Acceptable	EPA 625
6465	3-Nitroaniline	µg/L	< 10.00	0.00		Acceptable	EPA 625
6470	4-Nitroaniline	µg/L	< 10.00	0.00		Acceptable	EPA 625
5015	Nitrobenzene	µg/L	< 10.00	0.00		Acceptable	EPA 625
6525	N-Nitrosodiethylamine	µg/L		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/L	< 10.00	0.00		Acceptable	EPA 625
6535	N-Nitrosodiphenylamine	µg/L	< 10.00	0.00		Acceptable	EPA 625
6545	N-Nitroso-di-n-propylamine	µg/L	34.32	53.5	13.2 - 73.2	Acceptable	EPA 625
6590	Pentachlorobenzene	µg/L		0.00		Not Reported	
6615	Phenanthrene	µg/L	40.84	98.7	45.7 - 119	Not Acceptable	EPA 625
6665	Pyrene	µg/L	21.14	35.0	11.3 - 51.4	Acceptable	EPA 625
5095	Pyridine	µg/L	< 10.00	0.00		Acceptable	EPA 625
6715	1,2,4,5-Tetrachlorobenzene	µg/L		0.00		Not Reported	
5155	1,2,4-Trichlorobenzene	µg/L	52.40	110	24.3 - 131	Acceptable	EPA 625

A2LA ACCREDITED
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WP-183 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Base/Neutrals (cat# 833)							
5500	Acenaphthene	µg/L	20.28	36.3	15.6 - 44.9	Acceptable	EPA 8270C
5505	Acenaphthylene	µg/L	29.78	22.0	7.87 - 28.7	Not Acceptable	EPA 8270C
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/L		0.00		Not Reported	
5545	Aniline	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
5555	Anthracene	µg/L	26.14	34.0	14.8 - 44.1	Acceptable	EPA 8270C
5595	Benzidine	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
5575	Benzo(a)anthracene	µg/L	17.62	26.4	11.5 - 34.2	Acceptable	EPA 8270C
5585	Benzo(b)fluoranthene	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
5600	Benzo(k)fluoranthene	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
5590	Benzo(g,h,i)perylene	µg/L	12.72	20.5	3.14 - 31.8	Acceptable	EPA 8270C
5580	Benzo(a)pyrene	µg/L	17.00	26.5	8.31 - 36.1	Acceptable	EPA 8270C
5630	Benzyl alcohol	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
5660	4-Bromophenyl-phenylether	µg/L	16.08	24.4	9.51 - 34.7	Acceptable	EPA 8270C
5670	Butylbenzylphthalate	µg/L	37.02	59.9	7.06 - 89.6	Acceptable	EPA 8270C
5680	Carbazole	µg/L		0.00		Not Reported	
5745	4-Chloroaniline	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
5760	bis(2-Chloroethoxy)methane	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
5765	bis(2-Chloroethyl)ether	µg/L	< 10.00	29.7	9.70 - 40.0	Not Acceptable	EPA 8270C
5780	bis(2-Chloroisopropyl)ether	µg/L	71.80	166	39.5 - 199	Acceptable	EPA 8270C
5790	1-Chloronaphthalene	µg/L		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/L	27.50	33.8	9.73 - 42.1	Acceptable	EPA 8270C
5825	4-Chlorophenyl-phenylether	µg/L	24.68	31.7	12.4 - 41.8	Acceptable	EPA 8270C
5855	Chrysene	µg/L	11.42	13.9	6.69 - 21.6	Acceptable	EPA 8270C
5895	Dibenz(a,h)anthracene	µg/L	15.36	23.1	5.86 - 35.0	Acceptable	EPA 8270C
5905	Dibenzofuran	µg/L	22.96	30.5	12.0 - 41.7	Acceptable	EPA 8270C
5925	Di-n-butylphthalate	µg/L	46.76	84.8	28.0 - 112	Acceptable	EPA 8270C
4610	1,2-Dichlorobenzene	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
4615	1,3-Dichlorobenzene	µg/L	23.00	38.7	5.47 - 47.5	Acceptable	EPA 8270C
4620	1,4-Dichlorobenzene	µg/L	40.02	110	11.0 - 131	Acceptable	EPA 8270C
5945	3,3'-Dichlorobenzidine	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
6070	Diethylphthalate	µg/L	48.80	170	32.6 - 229	Acceptable	EPA 8270C
6135	Dimethylphthalate	µg/L	56.12	106	10.6 - 154	Acceptable	EPA 8270C

ACCREDITED
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WP-183 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Base/Neutrals (cat# 833) (Continued)							
6185	2,4-Dinitrotoluene	µg/L	16.76	24.0	6.90 - 34.1	Acceptable	EPA 8270C
6190	2,6-Dinitrotoluene	µg/L	31.28	0.00		Not Acceptable	EPA 8270C
6200	Di-n-octylphthalate	µg/L	75.60	102	22.4 - 151	Acceptable	EPA 8270C
6065	bis(2-Ethylhexyl)phthalate	µg/L	41.12	71.6	21.4 - 100	Acceptable	EPA 8270C
6265	Fluoranthene	µg/L	36.16	52.2	24.0 - 65.9	Acceptable	EPA 8270C
6270	Fluorene	µg/L	23.08	40.3	15.2 - 52.4	Acceptable	EPA 8270C
6275	Hexachlorobenzene	µg/L	30.58	53.6	22.7 - 67.7	Acceptable	EPA 8270C
4835	Hexachlorobutadiene	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
6285	Hexachlorocyclopentadiene	µg/L	131.15	166	16.6 - 214	Acceptable	EPA 8270C
4840	Hexachloroethane	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
6315	Indeno(1,2,3-cd)pyrene	µg/L	12.00	30.7	4.54 - 44.7	Acceptable	EPA 8270C
6320	Isophorone	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
6385	2-Methylnaphthalene	µg/L	43.54	84.6	16.0 - 100	Acceptable	EPA 8270C
5005	Naphthalene	µg/L	40.90	74.2	20.8 - 89.9	Acceptable	EPA 8270C
6460	2-Nitroaniline	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
6465	3-Nitroaniline	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
6470	4-Nitroaniline	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
5015	Nitrobenzene	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
6525	N-Nitrosodiethylamine	µg/L		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
6535	N-Nitrosodiphenylamine	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
6545	N-Nitroso-di-n-propylamine	µg/L	34.32	53.5	13.2 - 73.2	Acceptable	EPA 8270C
6590	Pentachlorobenzene	µg/L		0.00		Not Reported	
6615	Phenanthrene	µg/L	40.84	98.7	45.7 - 119	Not Acceptable	EPA 8270C
6665	Pyrene	µg/L	21.14	35.0	11.3 - 51.4	Acceptable	EPA 8270C
5095	Pyridine	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
6715	1,2,4,5-Tetrachlorobenzene	µg/L		0.00		Not Reported	
5155	1,2,4-Trichlorobenzene	µg/L	52.40	110	24.3 - 131	Acceptable	EPA 8270C

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Acids (cat# 834)							
5610	Benzoic acid	µg/L	< 10.00	0.00		Acceptable	EPA 625
5700	4-Chloro-3-methylphenol	µg/L	51.64	79.2	30.2 - 102	Acceptable	EPA 625
5800	2-Chlorophenol	µg/L	21.80	39.4	13.2 - 50.6	Acceptable	EPA 625
6000	2,4-Dichlorophenol	µg/L	53.62	83.5	26.2 - 105	Acceptable	EPA 625
6005	2,6-Dichlorophenol	µg/L		95.6	31.9 - 120	Not Reported	
6130	2,4-Dimethylphenol	µg/L	53.88	72.7	14.1 - 96.2	Acceptable	EPA 625
6360	4,6-Dinitro-2-methylphenol	µg/L	92.70	165	59.5 - 236	Acceptable	EPA 625
6175	2,4-Dinitrophenol	µg/L	77.45	104	10.4 - 150	Acceptable	EPA 625
6400	2-Methylphenol	µg/L	50.62	140	26.4 - 172	Acceptable	EPA 625
6410	4-Methylphenol	µg/L	49.96	122	12.2 - 158	Acceptable	EPA 625
6490	2-Nitrophenol	µg/L	48.34	92.0	23.8 - 119	Acceptable	EPA 625
6500	4-Nitrophenol	µg/L	70.12	148	14.8 - 199	Acceptable	EPA 625
6605	Pentachlorophenol	µg/L	111.10	148	40.4 - 205	Acceptable	EPA 625
6625	Phenol	µg/L	38.06	125	12.5 - 168	Acceptable	EPA 625
6735	2,3,4,6-Tetrachlorophenol	µg/L		77.1	17.3 - 104	Not Reported	
6835	2,4,5-Trichlorophenol	µg/L	58.04	85.1	31.0 - 110	Acceptable	EPA 625
6840	2,4,6-Trichlorophenol	µg/L	< 10.00	0.00		Acceptable	EPA 625
WP Acids (cat# 834)							
5610	Benzoic acid	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
5700	4-Chloro-3-methylphenol	µg/L	51.64	79.2	30.2 - 102	Acceptable	EPA 8270C
5800	2-Chlorophenol	µg/L	21.80	39.4	13.2 - 50.6	Acceptable	EPA 8270C
6000	2,4-Dichlorophenol	µg/L	53.62	83.5	26.2 - 105	Acceptable	EPA 8270C
6005	2,6-Dichlorophenol	µg/L		95.6	31.9 - 120	Not Reported	
6130	2,4-Dimethylphenol	µg/L	53.88	72.7	14.1 - 96.2	Acceptable	EPA 8270C
6360	4,6-Dinitro-2-methylphenol	µg/L	92.70	165	59.5 - 236	Acceptable	EPA 8270C
6175	2,4-Dinitrophenol	µg/L	77.45	104	10.4 - 150	Acceptable	EPA 8270C
6400	2-Methylphenol	µg/L	50.62	140	26.4 - 172	Acceptable	EPA 8270C
6410	4-Methylphenol	µg/L	49.96	122	12.2 - 158	Acceptable	EPA 8270C
6490	2-Nitrophenol	µg/L	48.34	92.0	23.8 - 119	Acceptable	EPA 8270C
6500	4-Nitrophenol	µg/L	70.12	148	14.8 - 199	Acceptable	EPA 8270C
6605	Pentachlorophenol	µg/L	111.10	148	40.4 - 205	Acceptable	EPA 8270C
6625	Phenol	µg/L	38.06	125	12.5 - 168	Acceptable	EPA 8270C
6735	2,3,4,6-Tetrachlorophenol	µg/L		77.1	17.3 - 104	Not Reported	
6835	2,4,5-Trichlorophenol	µg/L	58.04	85.1	31.0 - 110	Acceptable	EPA 8270C
6840	2,4,6-Trichlorophenol	µg/L	< 10.00	0.00		Acceptable	EPA 8270C
WP Chlordane (cat# 837)							
0053	Chlordane, technical	µg/L	15.43	20.6	7.73 - 29.7	Acceptable	EPA 608
WP Toxaphene (cat# 838)							
8250	Toxaphene	µg/L	34.31	82.3	8.23 - 149	Acceptable	EPA 608

ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA
A Waters Company

WP-183 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 06/17/10
Study Dates: 04/12/10 - 05/27/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Gasoline Range Organics (GRO) in Water (cat# 640)							
9408	Gasoline Range Organics (GRO)	µg/L	3082	2860	1110 - 5040	Acceptable	EPA 8015B
4375	Benzene in GRO	µg/L		30.5	13.2 - 51.2	Not Reported	
4765	Ethylbenzene in GRO	µg/L		91.8	53.0 - 127	Not Reported	
5140	Toluene in GRO	µg/L		266	143 - 354	Not Reported	
5260	Xylenes, total in GRO	µg/L		270	154 - 364	Not Reported	
WP Diesel Range Organics (DRO) in Water (cat# 641)							
9369	Diesel Range Organics (DRO)	µg/L	4736	2540	598 - 3300	Not Acceptable	EPA 8015B

ACCREDITED
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BECKTON ENVIRONMENTAL

LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

PERFORMANCE EVALUATION STUDY WP # 190
Water Pollution Study

192 VILLA STREET
PONCE, P.R. 00731

TEL. (809) 841-7373
FAX (809) 841-7313

ERA

A Waters Company

Iris M. Chévere
Beckton Environmental Lab
192 Villa St.
Ponce, PR 00730-4875

WP-190 Final Report

WatR™ Pollution Proficiency Testing

WatR™ Pollution Study

Open Date: 11/15/10

Close Date: 12/30/10

Report Issued Date: 01/18/11

ERA

A Waters Company

Study: **WP-190**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Inorganic Results

ERA
A Waters Company

WP-190 Final Complete Report

Iris M. Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St.
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 01/18/11
Study Dates: 11/15/10 - 12/30/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Minerals (cat# 581)							
0027	Alkalinity as CaCO3	mg/L	65.6	66.3	58.1 - 74.1	Acceptable	SM2320B
0028	Chloride	mg/L	41.8	41.0	34.6 - 48.1	Acceptable	SM4500Cl- E
0020	Conductivity at 25°C	µmhos/cm	299	310	275 - 345	Acceptable	SM2510B
0029	Fluoride	mg/L	3.46	3.20	2.68 - 3.73	Acceptable	SM4500F- C
0026	Potassium	mg/L	19.1	18.5	15.1 - 22.1	Acceptable	EPA 200.7
0025	Sodium	mg/L	56.6	55.1	46.8 - 63.3	Acceptable	EPA 200.7
0030	Sulfate	mg/L	15.0	14.7	11.1 - 18.0	Acceptable	ASTM D516-02
0021	Total Dissolved Solids at 180°C	mg/L	221	230	170 - 290	Acceptable	SM2540C
1950	Total Solids at 105°C	mg/L	228	250	212 - 285	Acceptable	SM2540B
WP Hardness (cat# 580)							
0072	Non-Filterable Residue (TSS)	mg/L	24.0	31.3	22.2 - 37.4	Acceptable	SM2540D
0023	Calcium	mg/L	34.1	34.1	30.3 - 38.8	Acceptable	EPA 200.7
0024	Magnesium	mg/L	35.1	34.6	29.7 - 39.8	Acceptable	EPA 200.7
1550	Calcium Hardness as CaCO3	mg/L	85.1	85.1	75.6 - 96.9	Acceptable	SM2340B
0022	Total Hardness as CaCO3	mg/L	220	228	198 - 261	Acceptable	SM2340C
WP pH (cat# 577)							
0019	pH	S.U.	7.97	7.89	7.69 - 8.09	Acceptable	SM4500H+ B
WP Settleable Solids (cat# 883)							
1965	Settleable Solids	mL/L	18.0	18.1	13.8 - 23.4	Acceptable	SM2540F
WP Volatile Solids (cat# 884)							
1970	Volatile Solids	mg/L	209.	183	135 - 218	Acceptable	EPA 160.4
WP Simple Nutrients (cat# 584)							
0031	Ammonia as N	mg/L	10.6	10.1	7.48 - 12.6	Acceptable	EPA 350.1
1820	Nitrate + Nitrite as N	mg/L	11.7	11.5	9.37 - 13.4	Acceptable	EPA 353.2
0032	Nitrate as N	mg/L	11.7	11.5	8.96 - 13.9	Acceptable	EPA 353.2
0033	ortho-Phosphate as P	mg/L	4.86	4.52	3.73 - 5.34	Acceptable	EPA 365.1
WP Complex Nutrients (cat# 579)							
0034	Total Kjeldahl Nitrogen	mg/L	33.2	32.0	21.0 - 41.0	Acceptable	EPA 351.2
0035	Total phosphorus as P	mg/L	6.26	6.33	5.22 - 7.51	Acceptable	EPA 365.4
WP Nitrite (cat# 888)							
1840	Nitrite as N	mg/L	2.78	2.85	2.42 - 3.28	Acceptable	EPA 353.2
WP Demand (cat# 578)							
0038	BOD	mg/L	23.4	21.2	10.4 - 32.0	Acceptable	SM5210B
0102	CBOD	mg/L	20.9	18.4	8.20 - 28.5	Acceptable	SM5210B
0036	COD	mg/L	37.9	34.1	20.8 - 45.1	Acceptable	EPA 410.4
0037	TOC	mg/L	14.8	13.5	11.1 - 15.9	Acceptable	SM5310B

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ERA
A Waters Company

WP-190 Final Complete Report

Iris M. Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St.
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 01/18/11
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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Oil & Grease (cat# 582)							
0104	Oil & Grease (Gravimetric)	mg/L	26.0	26.0	13.5 - 34.5	Acceptable	EPA 1664A
1860	Oil & Grease (Infrared)	mg/L		32.0	18.2 - 41.1	Not Reported	
WP Trace Metals (cat# 586)							
0001	Aluminum	µg/L	294.9	273	196 - 354	Acceptable	EPA 200.7
0016	Antimony	µg/L	374.2	377	260 - 456	Acceptable	EPA 200.7
0002	Arsenic	µg/L	591.1	603	506 - 706	Acceptable	EPA 200.7
1015	Barium	µg/L	144.0	139	120 - 156	Acceptable	EPA 200.7
0003	Beryllium	µg/L	750.0	714	608 - 806	Acceptable	EPA 200.7
1025	Boron	µg/L	1857	1910	1550 - 2220	Acceptable	EPA 200.7
0004	Cadmium	µg/L	369.9	376	320 - 427	Acceptable	EPA 200.7
0006	Chromium	µg/L	115.2	112	95.4 - 128	Acceptable	EPA 200.7
0005	Cobalt	µg/L	386.9	380	333 - 426	Acceptable	EPA 200.7
0007	Copper	µg/L	632.2	636	572 - 700	Acceptable	EPA 200.7
0008	Iron	µg/L	759.4	769	678 - 870	Acceptable	EPA 200.7
0012	Lead	µg/L	266.5	262	224 - 299	Acceptable	EPA 200.7
0010	Manganese	µg/L	702.0	709	636 - 788	Acceptable	EPA 200.7
0074	Molybdenum	µg/L	529.1	521	442 - 594	Acceptable	EPA 200.7
0011	Nickel	µg/L	1483	1490	1350 - 1660	Acceptable	EPA 200.7
0013	Selenium	µg/L	1015	1000	795 - 1160	Acceptable	EPA 200.7
0017	Silver	µg/L	56.8	53.3	45.1 - 61.3	Acceptable	EPA 200.7
0075	Strontium	µg/L	273.5	261	227 - 295	Acceptable	EPA 200.7
0018	Thallium	µg/L	835.0	797	657 - 946	Acceptable	EPA 200.7
0014	Vanadium	µg/L	782.5	825	723 - 922	Acceptable	EPA 200.7
0015	Zinc	µg/L	386.2	372	318 - 431	Acceptable	EPA 200.7
WP Mercury (cat# 574)							
0009	Mercury	µg/L	6.02	4.79	2.96 - 6.60	Acceptable	EPA 245.1
WP Hexavalent Chromium (cat# 898)							
1045	Hexavalent Chromium	µg/L	788	769	628 - 903	Acceptable	SM3500Cr D
WP Turbidity (cat# 893)							
2055	Turbidity	NTU	11.3	11.5	9.77 - 12.9	Acceptable	EPA 180.1
WP Total Cyanide (cat# 588)							
0071	Cyanide, total	mg/L	1.06	0.970	0.630 - 1.31	Acceptable	SM4500CN E
WP Total Phenolics (4-AAP) (cat# 589)							
0097	Phenolics, total	mg/L	0.809	0.781	0.427 - 1.14	Acceptable	EPA 420.1
WP Sulfide (cat# 891)							
2005	Sulfide	mg/L	4.69	6.04	2.68 - 8.73	Acceptable	SM4500S2- F
WP Total Residual Chlorine (cat# 587)							
0098	Total Residual Chlorine	mg/L	1.97	1.92	1.37 - 2.37	Acceptable	SM4500Cl G

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ERA

A Waters Company

Study: **WP-190**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Organic Results

ERA
A Waters Company

WP-190 Final Complete Report

Iris M. Chévere
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WP Volatiles (cat# 830)							
4315	Acetone	µg/L	< 10.0	0.00		Acceptable	EPA 624
4320	Acetonitrile	µg/L	< 10.0	0.00		Acceptable	EPA 624
4325	Acrolein	µg/L	< 10.0	0.00		Acceptable	EPA 624
4340	Acrylonitrile	µg/L	< 10.0	0.00		Acceptable	EPA 624
0065	Benzene	µg/L	68.71	73.5	53.4 - 93.0	Acceptable	EPA 624
0060	Bromodichloromethane	µg/L	36.30	37.9	26.6 - 51.1	Acceptable	EPA 624
0062	Bromoform	µg/L	78.55	80.6	52.4 - 111	Acceptable	EPA 624
4950	Bromomethane	µg/L	< 10.0	0.00		Acceptable	EPA 624
4410	2-Butanone (MEK)	µg/L	< 10.0	0.00		Acceptable	EPA 624
5000	tert-Butyl methyl ether (MTBE)	µg/L		0.00		Not Reported	
4450	Carbon disulfide	µg/L	< 10.0	0.00		Acceptable	EPA 624
0058	Carbon tetrachloride	µg/L	90.6	116	62.8 - 158	Acceptable	EPA 624
0064	Chlorobenzene	µg/L	52.70	54.7	39.4 - 68.6	Acceptable	EPA 624
0061	Chlorodibromomethane	µg/L	58.30	58.4	39.9 - 77.5	Acceptable	EPA 624
4485	Chloroethane	µg/L	43.37	24.7	9.88 - 39.5	Not Acceptable	EPA 624
4500	2-Chloroethylvinylether	µg/L	92.2	0.00		Not Acceptable	EPA 624
0055	Chloroform	µg/L	39.30	42.6	29.4 - 55.3	Acceptable	EPA 624
4960	Chloromethane	µg/L	< 10.0	0.00		Acceptable	EPA 624
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/L		0.00		Not Reported	
4585	1,2-Dibromoethane (EDB)	µg/L	38.91	39.9	27.2 - 54.4	Acceptable	EPA 624
4595	Dibromomethane	µg/L	< 10.0	0.00		Acceptable	EPA 624
0094	1,2-Dichlorobenzene	µg/L	44.32	49.9	34.4 - 64.9	Acceptable	EPA 624
0096	1,3-Dichlorobenzene	µg/L	57.01	60.0	40.6 - 76.5	Acceptable	EPA 624
0095	1,4-Dichlorobenzene	µg/L	79.02	75.5	51.2 - 94.4	Acceptable	EPA 624
4625	Dichlorodifluoromethane (Freon 12)	µg/L	< 10.0	0.00		Acceptable	EPA 624
4630	1,1-Dichloroethane	µg/L	< 10.0	0.00		Acceptable	EPA 624
0054	1,2-Dichloroethane	µg/L	90.35	102	70.9 - 133	Acceptable	EPA 624
4640	1,1-Dichloroethylene	µg/L	< 10.0	0.00		Acceptable	EPA 624
4645	cis-1,2-Dichloroethylene	µg/L	< 10.0	0.00		Acceptable	EPA 624
4700	trans-1,2-Dichloroethylene	µg/L	< 10.0	0.00		Acceptable	EPA 624
4655	1,2-Dichloropropane	µg/L	43.24	46.8	30.4 - 62.0	Acceptable	EPA 624
4680	cis-1,3-Dichloropropylene	µg/L	< 10.0	0.00		Acceptable	EPA 624

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WP Volatiles (cat# 830) (Continued)							
4685	trans-1,3-Dichloropropylene	µg/L	64.49	76.2	49.3 - 103	Acceptable	EPA 624
0066	Ethylbenzene	µg/L	95.02	92.2	63.8 - 116	Acceptable	EPA 624
4835	Hexachlorobutadiene	µg/L	77.97	82.2	8.75 - 99.9	Acceptable	EPA 624
4860	2-Hexanone	µg/L	97.50	110	56.1 - 161	Acceptable	EPA 624
0063	Methylene chloride	µg/L	46.03	71.3	43.7 - 99.1	Acceptable	EPA 624
4995	4-Methyl-2-pentanone (MIBK)	µg/L	36.77	39.8	15.1 - 62.2	Acceptable	EPA 624
5005	Naphthalene	µg/L	< 10.0	0.00		Acceptable	EPA 624
5100	Styrene	µg/L	< 10.0	0.00		Acceptable	EPA 624
5105	1,1,1,2-Tetrachloroethane	µg/L	< 10.0	0.00		Acceptable	EPA 624
5110	1,1,2,2-Tetrachloroethane	µg/L	65.19	75.3	43.8 - 110	Acceptable	EPA 624
0059	Tetrachloroethylene	µg/L	88.15	104	59.3 - 136	Acceptable	EPA 624
0067	Toluene	µg/L	8.22	8.56	6.01 - 11.5	Acceptable	EPA 624
5155	1,2,4-Trichlorobenzene	µg/L	< 10.0	0.00		Acceptable	EPA 624
0056	1,1,1-Trichloroethane	µg/L	32.47	32.5	20.4 - 43.3	Acceptable	EPA 624
5165	1,1,2-Trichloroethane	µg/L	105.7	124	85.7 - 160	Acceptable	EPA 624
0057	Trichloroethylene	µg/L	88.11	89.9	57.2 - 117	Acceptable	EPA 624
5175	Trichlorofluoromethane	µg/L	114.1	97.9	39.2 - 157	Acceptable	EPA 624
5180	1,2,3-Trichloropropane (TCP)	µg/L	< 10.0	0.00		Acceptable	EPA 624
5225	Vinyl acetate	µg/L	< 10.0	0.00		Acceptable	EPA 624
5235	Vinyl chloride	µg/L	< 10.0	0.00		Acceptable	EPA 624
5260	Xylenes, total	µg/L	101.92	99.2	56.5 - 134	Acceptable	EPA 624

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WP-190 Final Complete Report

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EPA ID: PR00012
ERA Customer Number: B188901
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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Base/Neutrals (cat# 833)							
5500	Acenaphthene	µg/L	< 5.00	0.00		Acceptable	EPA 625
5505	Acenaphthylene	µg/L	59.04	66.6	26.1 - 81.7	Acceptable	EPA 625
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/L		0.00		Not Reported	
5545	Aniline	µg/L	< 5.00	0.00		Acceptable	EPA 625
5555	Anthracene	µg/L	57.70	54.4	23.3 - 69.0	Acceptable	EPA 625
5595	Benzidine	µg/L	< 5.00	0.00		Acceptable	EPA 625
5575	Benzo(a)anthracene	µg/L	112.6	103	46.9 - 130	Acceptable	EPA 625
5585	Benzo(b)fluoranthene	µg/L	38.50	55.2	20.1 - 74.9	Acceptable	EPA 625
5600	Benzo(k)fluoranthene	µg/L	154.7	61.7	14.9 - 90.6	Not Acceptable	EPA 625
5590	Benzo(g,h,i)perylene	µg/L	61.62	79.2	29.6 - 108	Acceptable	EPA 625
5580	Benzo(a)pyrene	µg/L	26.54	31.6	9.78 - 42.4	Acceptable	EPA 625
5630	Benzyl alcohol	µg/L	< 5.00	0.00		Acceptable	EPA 625
5660	4-Bromophenyl-phenylether	µg/L	< 5.00	0.00		Acceptable	EPA 625
5670	Butylbenzylphthalate	µg/L	< 5.00	0.00		Acceptable	EPA 625
5680	Carbazole	µg/L	< 5.00	0.00		Acceptable	EPA 625
5745	4-Chloroaniline	µg/L	< 5.00	0.00		Acceptable	EPA 625
5760	bis(2-Chloroethoxy)methane	µg/L	123.7	132	52.2 - 156	Acceptable	EPA 625
5765	bis(2-Chloroethyl)ether	µg/L	112.3	0.00		Not Acceptable	EPA 625
5780	bis(2-Chloroisopropyl)ether	µg/L	63.4	98.9	24.8 - 121	Acceptable	EPA 625
5790	1-Chloronaphthalene	µg/L		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/L	116.15	119	36.5 - 144	Acceptable	EPA 625
5825	4-Chlorophenyl-phenylether	µg/L	< 5.00	0.00		Acceptable	EPA 625
5855	Chrysene	µg/L	29.22	18.2	8.32 - 27.0	Not Acceptable	EPA 625
5895	Dibenz(a,h)anthracene	µg/L	50.64	69.1	19.2 - 97.0	Acceptable	EPA 625
5905	Dibenzofuran	µg/L	77.72	119	41.3 - 147	Acceptable	EPA 625
5925	Di-n-butylphthalate	µg/L	78.44	107	34.9 - 139	Acceptable	EPA 625
4610	1,2-Dichlorobenzene	µg/L	36.09	56.2	5.71 - 70.0	Acceptable	EPA 625
4615	1,3-Dichlorobenzene	µg/L	< 5.00	0.00		Acceptable	EPA 625
4620	1,4-Dichlorobenzene	µg/L	44.64	45.0	4.50 - 57.4	Acceptable	EPA 625
5945	3,3'-Dichlorobenzidine	µg/L	< 5.00	0.00		Acceptable	EPA 625
6070	Diethylphthalate	µg/L	< 5.00	0.00		Acceptable	EPA 625
6135	Dimethylphthalate	µg/L	101.70	113	11.3 - 164	Acceptable	EPA 625

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Base/Neutrals (cat# 833) (Continued)							
6185	2,4-Dinitrotoluene	µg/L	57.72	80.9	29.4 - 101	Acceptable	EPA 625
6190	2,6-Dinitrotoluene	µg/L	70.00	117	48.7 - 146	Acceptable	EPA 625
6200	Di-n-octylphthalate	µg/L	179.10	179	32.8 - 262	Acceptable	EPA 625
6065	bis(2-Ethylhexyl)phthalate	µg/L	< 5.00	0.00		Acceptable	EPA 625
6265	Fluoranthene	µg/L	128.1	115	50.6 - 138	Acceptable	EPA 625
6270	Fluorene	µg/L	69.58	94.5	40.7 - 113	Acceptable	EPA 625
6275	Hexachlorobenzene	µg/L	< 5.00	0.00		Acceptable	EPA 625
4835	Hexachlorobutadiene	µg/L	117.00	159	19.8 - 185	Acceptable	EPA 625
6285	Hexachlorocyclopentadiene	µg/L	224.70	178	17.8 - 229	Acceptable	EPA 625
4840	Hexachloroethane	µg/L	76.58	154	16.3 - 179	Acceptable	EPA 625
6315	Indeno(1,2,3-cd)pyrene	µg/L	49.42	61.9	15.5 - 81.4	Acceptable	EPA 625
6320	Isophorone	µg/L	62.32	86.0	33.9 - 111	Acceptable	EPA 625
6385	2-Methylnaphthalene	µg/L	78.90	96.2	18.7 - 112	Acceptable	EPA 625
5005	Naphthalene	µg/L	163.0	138	35.7 - 163	Acceptable	EPA 625
6460	2-Nitroaniline	µg/L	< 5.00	0.00		Acceptable	EPA 625
6465	3-Nitroaniline	µg/L	< 5.00	0.00		Acceptable	EPA 625
6470	4-Nitroaniline	µg/L	< 5.00	0.00		Acceptable	EPA 625
5015	Nitrobenzene	µg/L	< 5.00	0.00		Acceptable	EPA 625
6525	N-Nitrosodiethylamine	µg/L		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/L	< 5.00	0.00		Acceptable	EPA 625
6535	N-Nitrosodiphenylamine	µg/L	< 5.00	0.00		Acceptable	EPA 625
6545	N-Nitroso-di-n-propylamine	µg/L	72.72	118	36.0 - 149	Acceptable	EPA 625
6590	Pentachlorobenzene	µg/L		0.00		Not Reported	
6615	Phenanthrene	µg/L	73.08	89.1	41.4 - 108	Acceptable	EPA 625
6665	Pyrene	µg/L	123.4	104	34.5 - 141	Acceptable	EPA 625
5095	Pyridine	µg/L	< 5.00	0.00		Acceptable	EPA 625
6715	1,2,4,5-Tetrachlorobenzene	µg/L		0.00		Not Reported	
5155	1,2,4-Trichlorobenzene	µg/L	67.44	110	24.3 - 131	Acceptable	EPA 625

A2LA ACCREDITED
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WP-190 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Acids (cat# 834)							
5610	Benzoic acid	µg/L	< 5.00	0.00		Acceptable	EPA 625
5700	4-Chloro-3-methylphenol	µg/L	118.0	133	52.1 - 171	Acceptable	EPA 625
5800	2-Chlorophenol	µg/L	40.66	56.4	17.7 - 71.8	Acceptable	EPA 625
6000	2,4-Dichlorophenol	µg/L	156.0	0.00		Not Acceptable	EPA 625
6005	2,6-Dichlorophenol	µg/L		139	48.0 - 172	Not Reported	
6130	2,4-Dimethylphenol	µg/L	98.60	117	25.1 - 153	Acceptable	EPA 625
6360	4,6-Dinitro-2-methylphenol	µg/L	81.60	78.9	22.3 - 108	Acceptable	EPA 625
6175	2,4-Dinitrophenol	µg/L	154.40	165	16.5 - 221	Acceptable	EPA 625
6400	2-Methylphenol	µg/L	28.78	52.1	9.91 - 66.1	Acceptable	EPA 625
6410	4-Methylphenol	µg/L	39.56	81.8	8.18 - 107	Acceptable	EPA 625
6490	2-Nitrophenol	µg/L	43.40	60.4	18.1 - 76.0	Acceptable	EPA 625
6500	4-Nitrophenol	µg/L	< 5.00	0.00		Acceptable	EPA 625
6605	Pentachlorophenol	µg/L	56.08	75.1	17.5 - 104	Acceptable	EPA 625
6625	Phenol	µg/L	41.18	133	13.3 - 179	Acceptable	EPA 625
6735	2,3,4,6-Tetrachlorophenol	µg/L		0.00		Not Reported	
6835	2,4,5-Trichlorophenol	µg/L	51.98	66.2	24.9 - 87.3	Acceptable	EPA 625
6840	2,4,6-Trichlorophenol	µg/L	38.36	58.2	18.6 - 75.7	Acceptable	EPA 625
WP Organochlorine Pesticides (cat# 831)							
0047	Aldrin	µg/L	7.45	12.9	3.61 - 17.7	Acceptable	EPA 608
7110	alpha-BHC	µg/L	3.82	6.74	2.90 - 9.21	Acceptable	EPA 608
7115	beta-BHC	µg/L	6.19	13.2	5.53 - 17.7	Acceptable	EPA 608
7105	delta-BHC	µg/L	8.92	13.5	5.19 - 18.8	Acceptable	EPA 608
7120	gamma-BHC(Lindane)	µg/L	3.60	6.43	2.62 - 8.88	Acceptable	EPA 608
7240	alpha-Chlordane	µg/L	1.86	3.16	1.41 - 4.37	Acceptable	EPA 608
7245	gamma-Chlordane	µg/L	0.80	1.21	0.562 - 1.78	Acceptable	EPA 608
0049	4,4'-DDD	µg/L	4.13	7.63	2.80 - 10.9	Acceptable	EPA 608
0050	4,4'-DDE	µg/L	2.98	5.09	2.24 - 6.64	Acceptable	EPA 608
0051	4,4'-DDT	µg/L	3.08	1.84	0.694 - 2.76	Not Acceptable	EPA 608
0048	Dieldrin	µg/L	3.48	5.16	2.50 - 7.05	Acceptable	EPA 608
7540	Endrin	µg/L	2.50	3.58	1.38 - 5.45	Acceptable	EPA 608
7530	Endrin aldehyde	µg/L	4.29	11.0	3.27 - 16.5	Acceptable	EPA 608
7535	Endrin ketone	µg/L	1.19	6.32	3.48 - 9.16	Not Acceptable	EPA 608
7510	Endosulfan I	µg/L	2.73	6.59	1.73 - 9.35	Acceptable	EPA 608
7515	Endosulfan II	µg/L	4.16	9.41	3.00 - 12.6	Acceptable	EPA 608
7520	Endosulfan sulfate	µg/L	4.29	6.40	2.39 - 9.34	Acceptable	EPA 608
0052	Heptachlor	µg/L	8.92	6.12	1.98 - 8.37	Not Acceptable	EPA 608
0078	Heptachlor epoxide (beta)	µg/L	1.21	1.70	0.781 - 2.46	Acceptable	EPA 608
7810	Methoxychlor	µg/L	1.19	10.6	2.84 - 16.7	Not Acceptable	EPA 608
WP Chlordane (cat# 837)							
0053	Chlordane, technical	µg/L	10.1	21.2	7.96 - 30.6	Acceptable	EPA 608

ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA
A Waters Company

WP-190 Final Complete Report

Iris M. Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St.
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 01/18/11
Study Dates: 11/15/10 - 12/30/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Toxaphene (cat# 838)							
8250	Toxaphene	µg/L	43.8	43.6	4.36 - 78.9	Acceptable	EPA 608

All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

BECKTON ENVIRONMENTAL

LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

PERFORMANCE EVALUATION STUDY SOIL - 69
Soil Study

192 VILLA STREET
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ERA

A Waters Company

Iris M Chévere
Beckton Environmental Lab
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SOIL-69 Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 01/25/10

Close Date: 03/11/10

Report Issued Date: 04/01/10

ERA

A Waters Company

Study: **SOIL-69**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Inorganic Results

ERA

A Waters Company

SOIL-69 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
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787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 04/01/10
Study Dates: 01/25/10 - 03/11/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Metals in Soil (cat# 620)							
1000	Aluminum	mg/kg	7637	10100	4340 - 15200	Acceptable	EPA 200.7
1005	Antimony	mg/kg	156.	259	25.9 - 304	Acceptable	EPA 200.7
1010	Arsenic	mg/kg	103.	120	76.2 - 143	Acceptable	EPA 200.7
1015	Barium	mg/kg	305.	340	241 - 409	Acceptable	EPA 200.7
1020	Beryllium	mg/kg	86.8	99.5	68.6 - 116	Acceptable	EPA 200.7
1025	Boron	mg/kg		176	90.4 - 194	Not Reported	
1030	Cadmium	mg/kg	98.9	122	80.6 - 139	Acceptable	EPA 200.7
1035	Calcium	mg/kg	6321.	6380	4960 - 8410	Acceptable	EPA 200.7
1040	Chromium	mg/kg	87.7	102	64.7 - 122	Acceptable	EPA 200.7
1050	Cobalt	mg/kg	129.	149	98.8 - 167	Acceptable	EPA 200.7
1055	Copper	mg/kg	74.9	84.5	55.0 - 94.5	Acceptable	EPA 200.7
1070	Iron	mg/kg	9702.	15000	4250 - 21900	Acceptable	EPA 200.7
1075	Lead	mg/kg	142.	171	112 - 192	Acceptable	EPA 200.7
1085	Magnesium	mg/kg	3391.	2980	1960 - 3990	Acceptable	EPA 200.7
1090	Manganese	mg/kg	397.	446	340 - 548	Acceptable	EPA 200.7
1095	Mercury	mg/kg		17.9	8.37 - 24.2	Not Reported	
1100	Molybdenum	mg/kg	77.5	104	57.0 - 114	Acceptable	EPA 200.7
1105	Nickel	mg/kg	98.9	123	78.8 - 138	Acceptable	EPA 200.7
1125	Potassium	mg/kg	3208.	2690	1710 - 3820	Acceptable	EPA 200.7
1140	Selenium	mg/kg	184.	230	142 - 272	Acceptable	EPA 200.7
1150	Silver	mg/kg	52.0	56.5	34.5 - 69.2	Acceptable	EPA 200.7
1155	Sodium	mg/kg	2286.	757	410 - 1040	Not Acceptable	EPA 200.7
1160	Strontium	mg/kg		112	77.8 - 143	Not Reported	
1165	Thallium	mg/kg	150.	192	117 - 224	Acceptable	EPA 200.7
1175	Tin	mg/kg		150	79.7 - 190	Not Reported	
1180	Titanium	mg/kg		208	0.00 - 398	Not Reported	
1185	Vanadium	mg/kg	103.	121	73.7 - 146	Acceptable	EPA 200.7
1190	Zinc	mg/kg	271.	319	214 - 383	Acceptable	EPA 200.7

ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA

A Waters Company

Study: **SOIL-69**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Organic Results

ACCREDITED

ERA
A Waters Company

SOIL-69 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 04/01/10
Study Dates: 01/25/10 - 03/11/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467)							
5500	Acenaphthene	µg/kg	1061	2560	538 - 3210	Acceptable	EPA 8270D
5505	Acenaphthylene	µg/kg	2651	6950	1640 - 8470	Acceptable	EPA 8270D
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/kg		0.00		Not Reported	
5545	Aniline	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5555	Anthracene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5595	Benzidine	µg/kg	424	0.00		Not Acceptable	EPA 8270D
5610	Benzoic acid	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5575	Benzo(a)anthracene	µg/kg	1867	4520	1340 - 5300	Acceptable	EPA 8270D
5585	Benzo(b)fluoranthene	µg/kg	1840	4470	1210 - 6000	Acceptable	EPA 8270D
5600	Benzo(k)fluoranthene	µg/kg	1113	4430	1200 - 5730	Not Acceptable	EPA 8270D
5590	Benzo(g,h,i)perylene	µg/kg	1563	5580	1030 - 6330	Acceptable	EPA 8270D
5580	Benzo(a)pyrene	µg/kg	2190	6800	1510 - 8340	Acceptable	EPA 8270D
5630	Benzyl alcohol	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5760	bis(2-Chloroethoxy)methane	µg/kg	1931	5260	959 - 6270	Acceptable	EPA 8270D
5765	bis(2-Chloroethyl)ether	µg/kg	1861	7200	735 - 7920	Acceptable	EPA 8270D
5780	bis(2-Chloroisopropyl)ether	µg/kg	2329	6970	834 - 7930	Acceptable	EPA 8270D
5660	4-Bromophenyl-phenylether	µg/kg	2331	6780	1990 - 8280	Acceptable	EPA 8270D
5670	Butylbenzylphthalate	µg/kg	2103	4390	946 - 5880	Acceptable	EPA 8270D
5680	Carbazole	µg/kg		0.00		Not Reported	
5745	4-Chloroaniline	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5700	4-Chloro-3-methylphenol	µg/kg	1799	5710	1270 - 6500	Acceptable	EPA 8270D
5790	1-Chloronaphthalene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5795	2-Chloronaphthalene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5800	2-Chlorophenol	µg/kg	1155	3400	340 - 3750	Acceptable	EPA 8270D
5825	4-Chlorophenyl-phenylether	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5855	Chrysene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5895	Dibenz(a,h)anthracene	µg/kg	1282	3740	837 - 4770	Acceptable	EPA 8270D
5905	Dibenzofuran	µg/kg	2108	7420	1850 - 8540	Acceptable	EPA 8270D
5925	Di-n-butylphthalate	µg/kg	1801	4200	816 - 5720	Acceptable	EPA 8270D
4610	1,2-Dichlorobenzene	µg/kg	1279	3170	317 - 3660	Acceptable	EPA 8270D
4615	1,3-Dichlorobenzene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
4620	1,4-Dichlorobenzene	µg/kg	1099	3320	332 - 3650	Acceptable	EPA 8270D

ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA
A Waters Company

SOIL-69 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 04/01/10
Study Dates: 01/25/10 - 03/11/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)							
5945	3,3'-Dichlorobenzidine	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6000	2,4-Dichlorophenol	µg/kg	1353	3890	421 - 4530	Acceptable	EPA 8270D
6005	2,6-Dichlorophenol	µg/kg		10500	1940 - 11600	Not Reported	
6070	Diethylphthalate	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6130	2,4-Dimethylphenol	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6135	Dimethylphthalate	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6175	2,4-Dinitrophenol	µg/kg	< 333.	7620	0.00 - 8380	Acceptable	EPA 8270D
6185	2,4-Dinitrotoluene	µg/kg	2088	5440	876 - 7110	Acceptable	EPA 8270D
6190	2,6-Dinitrotoluene	µg/kg	3304	4980	1370 - 5910	Acceptable	EPA 8270D
6200	Di-n-octylphthalate	µg/kg	2331	2820	411 - 4060	Acceptable	EPA 8270D
6065	bis(2-Ethylhexyl)phthalate	µg/kg	2548	6460	1510 - 8340	Acceptable	EPA 8270D
6265	Fluoranthene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6270	Fluorene	µg/kg	1619	4550	1320 - 5500	Acceptable	EPA 8270D
6275	Hexachlorobenzene	µg/kg	2115	5860	1720 - 6990	Acceptable	EPA 8270D
4835	Hexachlorobutadiene	µg/kg	2414	7170	998 - 7940	Acceptable	EPA 8270D
6285	Hexachlorocyclopentadiene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
4840	Hexachloroethane	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6315	Indeno(1,2,3-cd)pyrene	µg/kg	1309	3500	350 - 5170	Acceptable	EPA 8270D
6320	Isophorone	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6360	4,6-Dinitro-2-methylphenol	µg/kg	1642	7830	0.00 - 8610	Acceptable	EPA 8270D
6385	2-Methylnaphthalene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6400	2-Methylphenol	µg/kg	1436	5010	600 - 5510	Acceptable	EPA 8270D
6410	3&4-Methylphenol	µg/kg	1163	3890	338 - 4280	Acceptable	EPA 8270D
5005	Naphthalene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6460	2-Nitroaniline	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6465	3-Nitroaniline	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6470	4-Nitroaniline	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5015	Nitrobenzene	µg/kg	1623	4430	551 - 5230	Acceptable	EPA 8270D
6490	2-Nitrophenol	µg/kg	1898	6100	610 - 6770	Acceptable	EPA 8270D
6500	4-Nitrophenol	µg/kg	< 333.	5330	600 - 7050	Not Acceptable	EPA 8270D
6525	N-Nitrosodiethylamine	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6530	N-Nitrosodimethylamine	µg/kg	1667	7160	0.00 - 8170	Acceptable	EPA 8270D

A2LA ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA
A Waters Company

SOIL-69 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 04/01/10
Study Dates: 01/25/10 - 03/11/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)							
6535	N-Nitrosodiphenylamine	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6545	N-Nitroso-di-n-propylamine	µg/kg	3372	7370	750 - 8940	Acceptable	EPA 8270D
6590	Pentachlorobenzene	µg/kg		11100	2660 - 12800	Not Reported	
6605	Pentachlorophenol	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6615	Phenanthrene	µg/kg	1677	4970	1440 - 5870	Acceptable	EPA 8270D
6625	Phenol	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6665	Pyrene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5095	Pyridine	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6715	1,2,4,5-Tetrachlorobenzene	µg/kg		0.00		Not Reported	
6735	2,3,4,6-Tetrachlorophenol	µg/kg		0.00		Not Reported	
5155	1,2,4-Trichlorobenzene	µg/kg	2214	8090	1350 - 8900	Acceptable	EPA 8270D
6835	2,4,5-Trichlorophenol	µg/kg	1721	4840	641 - 5580	Acceptable	EPA 8270D
6840	2,4,6-Trichlorophenol	µg/kg	2269	6630	1150 - 7350	Acceptable	EPA 8270D
SOIL Chlorinated Acid Herbicides in Soil (cat# 626)							
8505	Acifluorfen	µg/kg		580	0.00 - 638	Not Reported	
8530	Bentazon	µg/kg		328	18.6 - 451	Not Reported	
8540	Chloramben	µg/kg		780	55.1 - 858	Not Reported	
8545	2,4-D	µg/kg	1357	748	74.8 - 1090	Not Acceptable	EPA 8151A
8560	2,4-DB	µg/kg		682	0.00 - 1090	Not Reported	
8550	Dacthal diacid (DCPA)	µg/kg		0.00		Not Reported	
8555	Dalapon	µg/kg		0.00		Not Reported	
8595	Dicamba	µg/kg		457	45.7 - 639	Not Reported	
8600	3,5-Dichlorobenzoic acid	µg/kg		432	0.00 - 600	Not Reported	
8605	Dichlorprop	µg/kg		150	0.00 - 235	Not Reported	
8620	Dinoseb	µg/kg		422	0.00 - 702	Not Reported	
7775	MCPA	µg/kg		0.00		Not Reported	
7780	MCPP	µg/kg		0.00		Not Reported	
6500	4-Nitrophenol	µg/kg		758	0.00 - 1100	Not Reported	
6605	Pentachlorophenol	µg/kg		627	0.00 - 692	Not Reported	
8645	Picloram	µg/kg		352	0.00 - 471	Not Reported	
8655	2,4,5-T	µg/kg		689	68.9 - 1000	Not Reported	
8650	2,4,5-TP (Silvex)	µg/kg	192.	342	34.2 - 550	Acceptable	EPA 8151A

ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

BECKTON ENVIRONMENTAL

LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

PERFORMANCE EVALUATION STUDY SOIL - 70
Soil Study

192 VILLA STREET
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ERA

A Waters Company

Iris M Chévere
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875

SOIL-70™ Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 04/19/10

Close Date: 06/03/10

Report Issued Date: 06/24/10

ERA

A Waters Company

Study: **SOIL-70**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Inorganic Results

ERA
A Waters Company

SOIL-70 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 06/24/10
Study Dates: 04/19/10 - 06/03/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Metals in Soil (cat# 620)							
1000	Aluminum	mg/kg		10100	3600 - 13800	Not Reported	
1005	Antimony	mg/kg		235	23.5 - 258	Not Reported	
1010	Arsenic	mg/kg		167	96.4 - 184	Not Reported	
1015	Barium	mg/kg		313	214 - 366	Not Reported	
1020	Beryllium	mg/kg		154	104 - 172	Not Reported	
1025	Boron	mg/kg	95.1	147	73.4 - 167	Acceptable	SM 4500 B B
1030	Cadmium	mg/kg		88.5	62.3 - 108	Not Reported	
1035	Calcium	mg/kg		6380	4520 - 7730	Not Reported	
1040	Chromium	mg/kg		187	118 - 217	Not Reported	
1050	Cobalt	mg/kg		98.1	64.7 - 109	Not Reported	
1055	Copper	mg/kg		209	142 - 233	Not Reported	
1070	Iron	mg/kg		15000	3860 - 21100	Not Reported	
1075	Lead	mg/kg		134	86.8 - 154	Not Reported	
1085	Magnesium	mg/kg		3170	1920 - 3930	Not Reported	
1090	Manganese	mg/kg		313	231 - 388	Not Reported	
1095	Mercury	mg/kg		8.29	3.94 - 11.4	Not Reported	
1100	Molybdenum	mg/kg		176	102 - 194	Not Reported	
1105	Nickel	mg/kg		179	117 - 202	Not Reported	
1125	Potassium	mg/kg		3070	1720 - 3840	Not Reported	
1140	Selenium	mg/kg		49.7	24.4 - 62.6	Not Reported	
1150	Silver	mg/kg		62.6	36.8 - 73.6	Not Reported	
1155	Sodium	mg/kg		544	257 - 751	Not Reported	
1160	Strontium	mg/kg		222	144 - 263	Not Reported	
1165	Thallium	mg/kg		168	100 - 193	Not Reported	
1175	Tin	mg/kg		186	99.0 - 229	Not Reported	
1180	Titanium	mg/kg		301	0.00 - 556	Not Reported	
1185	Vanadium	mg/kg		156	96.8 - 180	Not Reported	
1190	Zinc	mg/kg		221	144 - 268	Not Reported	

ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA
A Waters Company

SOIL-70 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 06/24/10
Study Dates: 04/19/10 - 06/03/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Metals in Soil (cat# 620)							
1000	Aluminum	mg/kg	1691	10100	3600 - 13800	Not Acceptable	EPA 6010B
1005	Antimony	mg/kg	201.	235	23.5 - 258	Acceptable	EPA 6010B
1010	Arsenic	mg/kg	133.	167	96.4 - 184	Acceptable	EPA 6010B
1015	Barium	mg/kg	280.0	313	214 - 366	Acceptable	EPA 6010B
1020	Beryllium	mg/kg	135.	154	104 - 172	Acceptable	EPA 6010B
1025	Boron	mg/kg	141.	147	73.4 - 167	Acceptable	EPA 6010B
1030	Cadmium	mg/kg	77.9	88.5	62.3 - 108	Acceptable	EPA 6010B
1035	Calcium	mg/kg	5868	6380	4520 - 7730	Acceptable	EPA 6010B
1040	Chromium	mg/kg	182.	187	118 - 217	Acceptable	EPA 6010B
1050	Cobalt	mg/kg	83.3	98.1	64.7 - 109	Acceptable	EPA 6010B
1055	Copper	mg/kg	185.	209	142 - 233	Acceptable	EPA 6010B
1070	Iron	mg/kg	11775	15000	3860 - 21100	Acceptable	EPA 6010B
1075	Lead	mg/kg	111.	134	86.8 - 154	Acceptable	EPA 6010B
1085	Magnesium	mg/kg	3333	3170	1920 - 3930	Acceptable	EPA 6010B
1090	Manganese	mg/kg	315.	313	231 - 388	Acceptable	EPA 6010B
1095	Mercury	mg/kg		8.29	3.94 - 11.4	Not Reported	
1100	Molybdenum	mg/kg	146.	176	102 - 194	Acceptable	EPA 6010B
1105	Nickel	mg/kg	142.	179	117 - 202	Acceptable	EPA 6010B
1125	Potassium	mg/kg	3362	3070	1720 - 3840	Acceptable	EPA 6010B
1140	Selenium	mg/kg	38.8	49.7	24.4 - 62.6	Acceptable	EPA 6010B
1150	Silver	mg/kg	54.5	62.6	36.8 - 73.6	Acceptable	EPA 6010B
1155	Sodium	mg/kg	1925	544	257 - 751	Not Acceptable	EPA 6010B
1160	Strontium	mg/kg	199.	222	144 - 263	Acceptable	EPA 6010B
1165	Thallium	mg/kg	133.	168	100 - 193	Acceptable	EPA 6010B
1175	Tin	mg/kg		186	99.0 - 229	Not Reported	
1180	Titanium	mg/kg	414.	301	0.00 - 556	Acceptable	EPA 6010B
1185	Vanadium	mg/kg		156	96.8 - 180	Not Reported	
1190	Zinc	mg/kg	196.	221	144 - 268	Acceptable	EPA 6010B

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SOIL-70 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
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787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 06/24/10
Study Dates: 04/19/10 - 06/03/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Metals in Soil (cat# 620)							
1000	Aluminum	mg/kg		10100	3600 - 13800	Not Reported	
1005	Antimony	mg/kg		235	23.5 - 258	Not Reported	
1010	Arsenic	mg/kg		167	96.4 - 184	Not Reported	
1015	Barium	mg/kg		313	214 - 366	Not Reported	
1020	Beryllium	mg/kg		154	104 - 172	Not Reported	
1025	Boron	mg/kg		147	73.4 - 167	Not Reported	
1030	Cadmium	mg/kg		88.5	62.3 - 108	Not Reported	
1035	Calcium	mg/kg		6380	4520 - 7730	Not Reported	
1040	Chromium	mg/kg		187	118 - 217	Not Reported	
1050	Cobalt	mg/kg		98.1	64.7 - 109	Not Reported	
1055	Copper	mg/kg		209	142 - 233	Not Reported	
1070	Iron	mg/kg		15000	3860 - 21100	Not Reported	
1075	Lead	mg/kg		134	86.8 - 154	Not Reported	
1085	Magnesium	mg/kg		3170	1920 - 3930	Not Reported	
1090	Manganese	mg/kg		313	231 - 388	Not Reported	
1095	Mercury	mg/kg	8.268	8.29	3.94 - 11.4	Acceptable	EPA 7471A
1100	Molybdenum	mg/kg		176	102 - 194	Not Reported	
1105	Nickel	mg/kg		179	117 - 202	Not Reported	
1125	Potassium	mg/kg		3070	1720 - 3840	Not Reported	
1140	Selenium	mg/kg		49.7	24.4 - 62.6	Not Reported	
1150	Silver	mg/kg		62.6	36.8 - 73.6	Not Reported	
1155	Sodium	mg/kg		544	257 - 751	Not Reported	
1160	Strontium	mg/kg		222	144 - 263	Not Reported	
1165	Thallium	mg/kg		168	100 - 193	Not Reported	
1175	Tin	mg/kg		186	99.0 - 229	Not Reported	
1180	Titanium	mg/kg		301	0.00 - 556	Not Reported	
1185	Vanadium	mg/kg		156	96.8 - 180	Not Reported	
1190	Zinc	mg/kg		221	144 - 268	Not Reported	
SOIL Hexavalent Chromium in Soil (cat# 876)							
1045	Chromium VI	mg/kg	124.	192	54.2 - 244	Acceptable	EPA 7196A
SOIL Cyanide in Soil (cat# 621)							
1635	Cyanide, total	mg/kg	49.2	54.1	21.3 - 72.3	Acceptable	EPA 9014
1640	Reactive Cyanide	mg/kg	< 0.10	< 25.0		Acceptable	EPA 9014
SOIL Corrosivity/pH in Soil (cat# 875)							
1625	Corrosivity (pH)	S.U.	7.40	7.60	7.00 - 8.20	Acceptable	EPA 9045
SOIL Ignitability/Flashpoint (cat# 874)							
1780	Ignitability/Flashpoint	°F	168	138	121 - 155	Not Acceptable	EPA 1010A

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A Waters Company

Study: **SOIL-70**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Organic Results

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SOIL-70 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Volatiles in Soil (cat# 623)							
4315	Acetone	µg/kg	193.45	259	40.0 - 507	Acceptable	8260C
4320	Acetonitrile	µg/kg		709	0.00 - 1270	Not Reported	
4325	Acrolein	µg/kg	< 50.0	0.00		Acceptable	8260C
4375	Benzene	µg/kg	103.20	141	85.0 - 192	Acceptable	8260C
4385	Bromobenzene	µg/kg	95.75	124	86.9 - 169	Acceptable	8260C
4395	Bromodichloromethane	µg/kg	143.45	36.8	21.5 - 52.0	Not Acceptable	8260C
4400	Bromoform	µg/kg	< 50.0	80.6	40.4 - 120	Not Acceptable	8260C
4950	Bromomethane	µg/kg	< 50.0	0.00		Acceptable	8260C
4410	2-Butanone (MEK)	µg/kg	335.7	347	143 - 553	Acceptable	8260C
5000	tert-Butyl methyl ether (MTBE)	µg/kg		0.00		Not Reported	
4450	Carbon disulfide	µg/kg	< 50.0	0.00		Acceptable	8260C
4455	Carbon tetrachloride	µg/kg	115.65	94.3	46.0 - 139	Acceptable	8260C
4475	Chlorobenzene	µg/kg	20.95	43.2	23.3 - 59.4	Not Acceptable	8260C
4575	Chlorodibromomethane	µg/kg	130.80	0.00		Not Acceptable	8260C
4485	Chloroethane	µg/kg	< 50.0	150	73.6 - 234	Not Acceptable	8260C
4500	2-Chloroethylvinylether	µg/kg	< 50.0	0.00		Acceptable	8260C
4505	Chloroform	µg/kg	27.15	0.00		Not Acceptable	8260C
4960	Chloromethane	µg/kg	< 50.0	0.00		Acceptable	8260C
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	< 50.0	0.00		Acceptable	8260C
4585	1,2-Dibromoethane (EDB)	µg/kg	< 50.0	0.00		Acceptable	8260C
4595	Dibromomethane	µg/kg	< 50.0	0.00		Acceptable	8260C
4610	1,2-Dichlorobenzene	µg/kg	60.75	0.00		Not Acceptable	8260C
4615	1,3-Dichlorobenzene	µg/kg	< 50.0	70.0	25.6 - 103	Not Acceptable	8260C
4620	1,4-Dichlorobenzene	µg/kg	< 50.0	187	64.4 - 265	Not Acceptable	8260C
4625	Dichlorodifluoromethane (Freon 12)	µg/kg	< 50.0	0.00		Acceptable	8260C
4630	1,1-Dichloroethane	µg/kg	53.9	112	63.5 - 162	Not Acceptable	8260C
4635	1,2-Dichloroethane	µg/kg	156.3	0.00		Not Acceptable	8260C
4640	1,1-Dichloroethylene	µg/kg	92.75	167	84.2 - 282	Acceptable	8260C
4645	cis-1,2-Dichloroethylene	µg/kg	115.0	104	66.7 - 151	Acceptable	8260C
4700	trans-1,2-Dichloroethylene	µg/kg	116.7	120	71.2 - 188	Acceptable	8260C
4655	1,2-Dichloropropane	µg/kg	< 50.0	130	76.1 - 174	Not Acceptable	8260C
4680	cis-1,3-Dichloropropylene	µg/kg	35.65	80.8	60.3 - 107	Not Acceptable	8260C

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SOIL Volatiles in Soil (cat# 623) (Continued)							
4685	trans-1,3-Dichloropropylene	µg/kg	35.95	157	104 - 220	Not Acceptable	8260C
4765	Ethylbenzene	µg/kg	43.95	71.7	39.1 - 104	Acceptable	8260C
4860	2-Hexanone	µg/kg	< 50.0	363	83.6 - 602	Not Acceptable	8260C
4900	Isopropylbenzene	µg/kg	53.25	0.00		Not Acceptable	8260C
4975	Methylene chloride	µg/kg	89.0	123	57.4 - 178	Acceptable	8260C
4995	4-Methyl-2-pentanone (MIBK)	µg/kg	< 50.0	113	47.2 - 168	Not Acceptable	8260C
5005	Naphthalene	µg/kg	< 50.0	85.2	40.3 - 123	Not Acceptable	8260C
5100	Styrene	µg/kg	< 50.0	0.00		Acceptable	8260C
5105	1,1,1,2-Tetrachloroethane	µg/kg	86.3	165	108 - 223	Not Acceptable	8260C
5110	1,1,2,2-Tetrachloroethane	µg/kg	< 50.0	0.00		Acceptable	8260C
5115	Tetrachloroethylene	µg/kg	85.55	184	83.1 - 266	Acceptable	8260C
5140	Toluene	µg/kg	154.45	84.0	48.0 - 118	Not Acceptable	8260C
5155	1,2,4-Trichlorobenzene	µg/kg	< 50.0	171	84.6 - 246	Not Acceptable	8260C
5160	1,1,1-Trichloroethane	µg/kg	141.25	136	77.5 - 194	Acceptable	8260C
5165	1,1,2-Trichloroethane	µg/kg	60.75	0.00		Not Acceptable	8260C
5170	Trichloroethylene	µg/kg	57.10	140	72.0 - 200	Not Acceptable	8260C
5175	Trichlorofluoromethane	µg/kg	< 50.0	97.9	56.2 - 163	Not Acceptable	8260C
5180	1,2,3-Trichloropropane (TCP)	µg/kg	< 50.0	86.4	33.5 - 144	Not Acceptable	8260C
5225	Vinyl acetate	µg/kg	< 50.0	0.00		Acceptable	8260C
5235	Vinyl chloride	µg/kg	< 50.0	0.00		Acceptable	8260C
5260	Xylenes, total	µg/kg	50.2	137	66.5 - 203	Not Acceptable	8260C

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SOIL-70 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467)							
5500	Acenaphthene	µg/kg	1963.	5590	1430 - 6580	Acceptable	EPA 8270D
5505	Acenaphthylene	µg/kg	3443.	2490	477 - 3080	Not Acceptable	EPA 8270D
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/kg		0.00		Not Reported	
5545	Aniline	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5555	Anthracene	µg/kg	1923.	2240	476 - 3020	Acceptable	EPA 8270D
5595	Benzidine	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5610	Benzoic acid	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5575	Benzo(a)anthracene	µg/kg	1103.	1900	478 - 2290	Acceptable	EPA 8270D
5585	Benzo(b)fluoranthene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5600	Benzo(k)fluoranthene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5590	Benzo(g,h,i)perylene	µg/kg	3073.	6690	1440 - 8470	Acceptable	EPA 8270D
5580	Benzo(a)pyrene	µg/kg	1138.	1610	365 - 2090	Acceptable	EPA 8270D
5630	Benzyl alcohol	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5760	bis(2-Chloroethoxy)methane	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5765	bis(2-Chloroethyl)ether	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5780	bis(2-Chloroisopropyl)ether	µg/kg	1380.	3080	308 - 3880	Acceptable	EPA 8270D
5660	4-Bromophenyl-phenylether	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5670	Butylbenzylphthalate	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5680	Carbazole	µg/kg		0.00		Not Reported	
5745	4-Chloroaniline	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5700	4-Chloro-3-methylphenol	µg/kg	6558.	10000	2840 - 11500	Acceptable	EPA 8270D
5790	1-Chloronaphthalene	µg/kg		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/kg	5212.	7330	1690 - 8960	Acceptable	EPA 8270D
5800	2-Chlorophenol	µg/kg	1590.	3150	315 - 3780	Acceptable	EPA 8270D
5825	4-Chlorophenyl-phenylether	µg/kg	3125.	6350	1800 - 8370	Acceptable	EPA 8270D
5855	Chrysene	µg/kg	1300.	1640	498 - 2300	Acceptable	EPA 8270D
5895	Dibenz(a,h)anthracene	µg/kg	1308.	1930	307 - 2960	Acceptable	EPA 8270D
5905	Dibenzofuran	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5925	Di-n-butylphthalate	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
4610	1,2-Dichlorobenzene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
4615	1,3-Dichlorobenzene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
4620	1,4-Dichlorobenzene	µg/kg	3008.	8010	801 - 8810	Acceptable	EPA 8270D

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SOIL-70 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)							
5945	3,3'-Dichlorobenzidine	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6000	2,4-Dichlorophenol	µg/kg	6425.	11900	2200 - 13600	Acceptable	EPA 8270D
6005	2,6-Dichlorophenol	µg/kg		0.00		Not Reported	
6070	Diethylphthalate	µg/kg	2663.	10800	2500 - 14600	Acceptable	EPA 8270D
6130	2,4-Dimethylphenol	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6135	Dimethylphthalate	µg/kg	3820.	3450	839 - 4630	Acceptable	EPA 8270D
6175	2,4-Dinitrophenol	µg/kg	< 333.	6250	0.00 - 6880	Acceptable	EPA 8270D
6185	2,4-Dinitrotoluene	µg/kg	3640	8200	1700 - 11200	Acceptable	EPA 8270D
6190	2,6-Dinitrotoluene	µg/kg	6553.	9070	2970 - 11200	Acceptable	EPA 8270D
6200	Di-n-octylphthalate	µg/kg	6663.	11900	1870 - 17800	Acceptable	EPA 8270D
6065	bis(2-Ethylhexyl)phthalate	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6265	Fluoranthene	µg/kg	2032.	2180	661 - 2820	Acceptable	EPA 8270D
6270	Fluorene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6275	Hexachlorobenzene	µg/kg	4555.	8900	2760 - 11000	Acceptable	EPA 8270D
4835	Hexachlorobutadiene	µg/kg	5563.	7740	1140 - 8880	Acceptable	EPA 8270D
6285	Hexachlorocyclopentadiene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
4840	Hexachloroethane	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6315	Indeno(1,2,3-cd)pyrene	µg/kg	1257.	2030	203 - 3250	Acceptable	EPA 8270D
6320	Isophorone	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6360	4,6-Dinitro-2-methylphenol	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6385	2-Methylnaphthalene	µg/kg	3283.	6710	1520 - 7890	Acceptable	EPA 8270D
6400	2-Methylphenol	µg/kg	3702.	11800	1180 - 13000	Acceptable	EPA 8270D
6410	3&4-Methylphenol	µg/kg	2898.	6670	1180 - 7340	Acceptable	EPA 8270D
5005	Naphthalene	µg/kg	3393.	3410	586 - 3960	Acceptable	EPA 8270D
6460	2-Nitroaniline	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6465	3-Nitroaniline	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6470	4-Nitroaniline	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
5015	Nitrobenzene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6490	2-Nitrophenol	µg/kg	6528.	12000	1400 - 13400	Acceptable	EPA 8270D
6500	4-Nitrophenol	µg/kg	2281.	8770	877 - 11500	Acceptable	EPA 8270D
6525	N-Nitrosodiethylamine	µg/kg		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/kg	2852.	9190	973 - 10100	Acceptable	EPA 8270D

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)							
6535	N-Nitrosodiphenylamine	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6545	N-Nitroso-di-n-propylamine	µg/kg	6583.	13800	1950 - 18000	Acceptable	EPA 8270D
6590	Pentachlorobenzene	µg/kg		0.00		Not Reported	
6605	Pentachlorophenol	µg/kg	3317.	9060	906 - 9970	Acceptable	EPA 8270D
6615	Phenanthrene	µg/kg	2042.	2850	798 - 3750	Acceptable	EPA 8270D
6625	Phenol	µg/kg	4325.	11500	1150 - 13900	Acceptable	EPA 8270D
6665	Pyrene	µg/kg	1862.	3170	988 - 4280	Acceptable	EPA 8270D
5095	Pyridine	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6715	1,2,4,5-Tetrachlorobenzene	µg/kg		0.00		Not Reported	
6735	2,3,4,6-Tetrachlorophenol	µg/kg		0.00		Not Reported	
5155	1,2,4-Trichlorobenzene	µg/kg	< 333.	0.00		Acceptable	EPA 8270D
6835	2,4,5-Trichlorophenol	µg/kg	3805.	4550	650 - 5650	Acceptable	EPA 8270D
6840	2,4,6-Trichlorophenol	µg/kg	5175.	9650	2010 - 11200	Acceptable	EPA 8270D
SOIL Organochlorine Pesticides in Soil (cat# 468)							
7025	Aldrin	µg/kg	250.0	399	116 - 503	Acceptable	EPA 8081A
7110	alpha-BHC	µg/kg	179.0	354	102 - 458	Acceptable	EPA 8081A
7115	beta-BHC	µg/kg	34.03	57.3	5.73 - 103	Acceptable	EPA 8081A
7105	delta-BHC	µg/kg	167.44	311	75.9 - 423	Acceptable	EPA 8081A
7120	gamma-BHC(Lindane)	µg/kg	48.23	94.5	14.6 - 143	Acceptable	EPA 8081A
7240	alpha-Chlordane	µg/kg	65.61	95.4	31.3 - 135	Acceptable	EPA 8081A
7245	gamma-Chlordane	µg/kg	134.43	206	83.4 - 273	Acceptable	EPA 8081A
7355	4,4'-DDD	µg/kg	110.14	177	51.3 - 257	Acceptable	EPA 8081A
7360	4,4'-DDE	µg/kg	186.68	271	95.7 - 384	Acceptable	EPA 8081A
7365	4,4'-DDT	µg/kg	122.13	84.3	16.4 - 133	Acceptable	EPA 8081A
7470	Dieldrin	µg/kg	185.0	266	77.0 - 310	Acceptable	EPA 8081A
7540	Endrin	µg/kg	163.75	229	99.9 - 326	Acceptable	EPA 8081A
7530	Endrin aldehyde	µg/kg	122.13	312	35.6 - 393	Acceptable	EPA 8081A
7535	Endrin ketone	µg/kg	226.59	328	83.7 - 452	Acceptable	EPA 8081A
7510	Endosulfan I	µg/kg	65.61	184	19.8 - 202	Acceptable	EPA 8081A
7515	Endosulfan II	µg/kg	71.82	178	28.5 - 196	Acceptable	EPA 8081A
7520	Endosulfan sulfate	µg/kg	321.09	488	111 - 700	Acceptable	EPA 8081A
7685	Heptachlor	µg/kg	81.40	125	35.8 - 174	Acceptable	EPA 8081A
7690	Heptachlor epoxide	µg/kg	155.81	240	83.8 - 323	Acceptable	EPA 8081A
7810	Methoxychlor	µg/kg	179.42	235	23.5 - 413	Acceptable	EPA 8081A
SOIL Chlordane in Soil (cat# 628)							
7250	Chlordane, technical	µg/kg	439.0	497	99.9 - 676	Acceptable	EPA 8081A
SOIL Toxaphene in Soil (cat# 627)							
8250	Toxaphene	µg/kg	299	924	92.4 - 1350	Acceptable	EPA 8081A

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SOIL Chlorinated Acid Herbicides in Soil (cat# 626)							
8505	Acifluorfen	µg/kg		734	0.00 - 1090	Not Reported	
8530	Bentazon	µg/kg		0.00		Not Reported	
8540	Chloramben	µg/kg		362	0.00 - 398	Not Reported	
8545	2,4-D	µg/kg	< 100	374	37.4 - 620	Not Acceptable	EPA 8151A
8560	2,4-DB	µg/kg		784	0.00 - 1320	Not Reported	
8550	Dacthal diacid (DCPA)	µg/kg		0.00		Not Reported	
8555	Dalapon	µg/kg		0.00		Not Reported	
8595	Dicamba	µg/kg		116	20.0 - 170	Not Reported	
8600	3,5-Dichlorobenzoic acid	µg/kg		0.00		Not Reported	
8605	Dichlorprop	µg/kg		150	0.00 - 239	Not Reported	
8620	Dinoseb	µg/kg		738	0.00 - 982	Not Reported	
7775	MCPA	µg/kg		0.00		Not Reported	
7780	MCPP	µg/kg		0.00		Not Reported	
6500	4-Nitrophenol	µg/kg		144	35.4 - 199	Not Reported	
6605	Pentachlorophenol	µg/kg		477	0.00 - 678	Not Reported	
8645	Picloram	µg/kg		0.00		Not Reported	
8655	2,4,5-T	µg/kg		806	80.6 - 1250	Not Reported	
8650	2,4,5-TP (Silvex)	µg/kg	127.11	433	43.3 - 722	Acceptable	EPA 8151A
SOIL PCBs in Soil (cat# 624)							
8880	Aroclor 1016	mg/kg	< 0.033	0.00		Acceptable	EPA 8082
8885	Aroclor 1221	mg/kg	< 0.033	0.00		Acceptable	EPA 8082
8890	Aroclor 1232	mg/kg	2.86	3.75	0.634 - 5.41	Acceptable	EPA 8082
8895	Aroclor 1242	mg/kg	< 0.033	0.00		Acceptable	EPA 8082
8900	Aroclor 1248	mg/kg	< 0.033	0.00		Acceptable	EPA 8082
8905	Aroclor 1254	mg/kg	< 0.033	0.00		Acceptable	EPA 8082
8910	Aroclor 1260	mg/kg	< 0.033	0.00		Acceptable	EPA 8082
SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)							
9408	Gasoline Range Organics (GRO)	mg/kg	1367	1570	286 - 2090	Acceptable	EPA 8015B
4375	Benzene in GRO	mg/kg		16.8	0.00 - 21.6	Not Reported	
4765	Ethylbenzene in GRO	mg/kg		50.4	28.6 - 62.2	Not Reported	
5140	Toluene in GRO	mg/kg		146	26.3 - 161	Not Reported	
5260	Xylenes, total in GRO	mg/kg		148	90.2 - 186	Not Reported	
SOIL Diesel Range Organics (DRO) in Soil (cat# 631)							
9369	Diesel Range Organics (DRO)	mg/kg	1538	1870	558 - 2220	Acceptable	EPA 8015B

ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

BECKTON ENVIRONMENTAL

LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

PERFORMANCE EVALUATION STUDY SOIL - 72
Soil Study

192 VILLA STREET
PONCE, P.R. 00731

TEL. (809) 841-7373
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ERA

A Waters Company

Iris M. Chévere
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Ponce, PR 00730-4875

SOIL-72 Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 10/18/10

Close Date: 12/02/10

Report Issued Date: 12/21/10

ERA

A Waters Company

Study: **SOIL-72**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Inorganic Results

ACCREDITED

ERA
A Waters Company

SOIL-72 Final Complete Report

Iris M. Chévere
Lab. Director
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192 Villa St.
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787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 12/21/10
Study Dates: 10/18/10 - 12/02/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Metals in Soil (cat# 620)							
1000	Aluminum	mg/kg	7772	10100	3410 - 13400	Acceptable	EPA 6010C
1005	Antimony	mg/kg	214.	265	26.5 - 292	Acceptable	EPA 6010C
1010	Arsenic	mg/kg	101.	133	75.9 - 146	Acceptable	EPA 6010C
1015	Barium	mg/kg	200.	220	151 - 261	Acceptable	EPA 6010C
1020	Beryllium	mg/kg	85.4	97.1	65.6 - 111	Acceptable	EPA 6010C
1025	Boron	mg/kg	79.8	114	52.5 - 134	Acceptable	EPA 6010C
1030	Cadmium	mg/kg	71.8	89.6	58.7 - 102	Acceptable	EPA 6010C
1035	Calcium	mg/kg	6452	7020	4970 - 8430	Acceptable	EPA 6010C
1040	Chromium	mg/kg	112.	129	81.6 - 152	Acceptable	EPA 6010C
1050	Cobalt	mg/kg	117.	141	94.3 - 159	Acceptable	EPA 6010C
1055	Copper	mg/kg	109.	132	87.4 - 146	Acceptable	EPA 6010C
1070	Iron	mg/kg	11875	15000	3760 - 20900	Acceptable	EPA 6010C
1075	Lead	mg/kg	67.8	83.4	52.3 - 100	Acceptable	EPA 6010C
1085	Magnesium	mg/kg	2846	2880	1690 - 3580	Acceptable	EPA 6010C
1090	Manganese	mg/kg	331.	353	264 - 436	Acceptable	EPA 6010C
1095	Mercury	mg/kg		8.78	4.42 - 12.8	Not Reported	
1100	Molybdenum	mg/kg	59.0	77.9	40.9 - 85.7	Acceptable	EPA 6010C
1105	Nickel	mg/kg	65.4	80.6	50.6 - 91.8	Acceptable	EPA 6010C
1125	Potassium	mg/kg	3260	3300	1850 - 4080	Acceptable	EPA 6010C
1140	Selenium	mg/kg	108.	144	84.6 - 170	Acceptable	EPA 6010C
1150	Silver	mg/kg	39.5	45.2	27.1 - 54.8	Acceptable	EPA 6010C
1155	Sodium	mg/kg	417.	379	158 - 563	Acceptable	EPA 6010C
1160	Strontium	mg/kg	148.	169	111 - 203	Acceptable	EPA 6010C
1165	Thallium	mg/kg	240.	302	185 - 347	Acceptable	EPA 6010C
1175	Tin	mg/kg	117.	148	76.6 - 183	Acceptable	EPA 6010C
1180	Titanium	mg/kg	275.	254	0.00 - 460	Acceptable	EPA 6010C
1185	Vanadium	mg/kg	88.3	97.5	54.2 - 118	Acceptable	EPA 6010C
1190	Zinc	mg/kg	250.	301	200 - 360	Acceptable	EPA 6010C

A2LA ACCREDITED
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ERA
A Waters Company

SOIL-72 Final Complete Report

Iris M. Chévere
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787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Metals in Soil (cat# 620)							
1000	Aluminum	mg/kg		10100	3410 - 13400	Not Reported	
1005	Antimony	mg/kg		265	26.5 - 292	Not Reported	
1010	Arsenic	mg/kg		133	75.9 - 146	Not Reported	
1015	Barium	mg/kg		220	151 - 261	Not Reported	
1020	Beryllium	mg/kg		97.1	65.6 - 111	Not Reported	
1025	Boron	mg/kg		114	52.5 - 134	Not Reported	
1030	Cadmium	mg/kg		89.6	58.7 - 102	Not Reported	
1035	Calcium	mg/kg		7020	4970 - 8430	Not Reported	
1040	Chromium	mg/kg		129	81.6 - 152	Not Reported	
1050	Cobalt	mg/kg		141	94.3 - 159	Not Reported	
1055	Copper	mg/kg		132	87.4 - 146	Not Reported	
1070	Iron	mg/kg		15000	3760 - 20900	Not Reported	
1075	Lead	mg/kg		83.4	52.3 - 100	Not Reported	
1085	Magnesium	mg/kg		2880	1690 - 3580	Not Reported	
1090	Manganese	mg/kg		353	264 - 436	Not Reported	
1095	Mercury	mg/kg	10.9	8.78	4.42 - 12.8	Acceptable	EPA 7471A
1100	Molybdenum	mg/kg		77.9	40.9 - 85.7	Not Reported	
1105	Nickel	mg/kg		80.6	50.6 - 91.8	Not Reported	
1125	Potassium	mg/kg		3300	1850 - 4080	Not Reported	
1140	Selenium	mg/kg		144	84.6 - 170	Not Reported	
1150	Silver	mg/kg		45.2	27.1 - 54.8	Not Reported	
1155	Sodium	mg/kg		379	158 - 563	Not Reported	
1160	Strontium	mg/kg		169	111 - 203	Not Reported	
1165	Thallium	mg/kg		302	185 - 347	Not Reported	
1175	Tin	mg/kg		148	76.6 - 183	Not Reported	
1180	Titanium	mg/kg		254	0.00 - 460	Not Reported	
1185	Vanadium	mg/kg		97.5	54.2 - 118	Not Reported	
1190	Zinc	mg/kg		301	200 - 360	Not Reported	
SOIL Hexavalent Chromium in Soil (cat# 876)							
1045	Chromium VI	mg/kg	92.6	140	28.0 - 172	Acceptable	EPA 7196A
SOIL Cyanide in Soil (cat# 621)							
1635	Cyanide, total	mg/kg		61.1	30.6 - 79.5	Not Reported	
1923	Reactive Cyanide	mg/kg	< 0.25	< 25.0		Acceptable	EPA 9014
SOIL Cyanide in Soil (cat# 621)							
1635	Cyanide, total	mg/kg	55.5	61.1	30.6 - 79.5	Acceptable	SM4500CN E
1923	Reactive Cyanide	mg/kg		< 25.0		Not Reported	
SOIL Corrosivity/pH in Soil (cat# 875)							
1625	Corrosivity (pH)	S.U.	7.17	7.31	6.71 - 7.91	Acceptable	EPA 9045D

ACCREDITED
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SOIL-72 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Ignitability/Flashpoint (cat# 874)							
1780	Ignitability/Flashpoint	°F	110	111	94.0 - 128	Acceptable	EPA 1010A

All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

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A Waters Company

Study: **SOIL-72**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Organic Results

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A Waters Company

SOIL-72 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Volatiles in Soil (cat# 623)							
4315	Acetone	µg/kg	< 50.0	351	40.0 - 579	Not Acceptable	EPA 8260C
4320	Acetonitrile	µg/kg	< 50.0	343	0.00 - 473	Acceptable	EPA 8260C
4325	Acrolein	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
4375	Benzene	µg/kg	123.	117	70.2 - 160	Acceptable	EPA 8260C
4385	Bromobenzene	µg/kg	290.	166	93.8 - 230	Not Acceptable	EPA 8260C
4395	Bromodichloromethane	µg/kg	217.	87.5	56.0 - 121	Not Acceptable	EPA 8260C
4400	Bromoform	µg/kg	321.	158	80.2 - 234	Not Acceptable	EPA 8260C
4950	Bromomethane	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
4410	2-Butanone (MEK)	µg/kg	< 50.0	309	95.2 - 484	Not Acceptable	EPA 8260C
5000	tert-Butyl methyl ether (MTBE)	µg/kg		136	57.4 - 201	Not Reported	
4450	Carbon disulfide	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
4455	Carbon tetrachloride	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
4475	Chlorobenzene	µg/kg	94.7	141	79.8 - 195	Acceptable	EPA 8260C
4575	Chlorodibromomethane	µg/kg	161.	164	101 - 225	Acceptable	EPA 8260C
4485	Chloroethane	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
4500	2-Chloroethylvinylether	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
4505	Chloroform	µg/kg	135.	0.00		Not Acceptable	EPA 8260C
4960	Chloromethane	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	588.	164	76.0 - 271	Not Acceptable	EPA 8260C
4585	1,2-Dibromoethane (EDB)	µg/kg	170.	83.1	60.3 - 104	Not Acceptable	EPA 8260C
4595	Dibromomethane	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
4610	1,2-Dichlorobenzene	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
4615	1,3-Dichlorobenzene	µg/kg	290.	160	62.6 - 236	Not Acceptable	EPA 8260C
4620	1,4-Dichlorobenzene	µg/kg	274.	0.00		Not Acceptable	EPA 8260C
4625	Dichlorodifluoromethane (Freon 12)	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
4630	1,1-Dichloroethane	µg/kg	152.	136	77.3 - 196	Acceptable	EPA 8260C
4635	1,2-Dichloroethane	µg/kg	293.	141	81.6 - 195	Not Acceptable	EPA 8260C
4640	1,1-Dichloroethylene	µg/kg	299.	127	69.8 - 206	Not Acceptable	EPA 8260C
4645	cis-1,2-Dichloroethylene	µg/kg	299.	160	106 - 219	Not Acceptable	EPA 8260C
4700	trans-1,2-Dichloroethylene	µg/kg	350.	134	89.1 - 191	Not Acceptable	EPA 8260C
4655	1,2-Dichloropropane	µg/kg	318.	154	90.0 - 206	Not Acceptable	EPA 8260C
4680	cis-1,3-Dichloropropylene	µg/kg	< 50.0	117	80.7 - 144	Not Acceptable	EPA 8260C

ACCREDITED
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A Waters Company

SOIL-72 Final Complete Report

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Lab. Director
Beckton Environmental Lab
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787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 12/21/10
Study Dates: 10/18/10 - 12/02/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Volatiles in Soil (cat# 623) (Continued)							
4685	trans-1,3-Dichloropropylene	µg/kg	250.	0.00		Not Acceptable	EPA 8260C
4765	Ethylbenzene	µg/kg	72.2	120	66.8 - 172	Acceptable	EPA 8260C
4860	2-Hexanone	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
4900	Isopropylbenzene	µg/kg	< 50.0	186	87.0 - 295	Not Acceptable	EPA 8260C
4975	Methylene chloride	µg/kg	737.	144	67.3 - 208	Not Acceptable	EPA 8260C
4995	4-Methyl-2-pentanone (MIBK)	µg/kg	< 50.0	138	58.8 - 204	Not Acceptable	EPA 8260C
5005	Naphthalene	µg/kg	169.	63.9	26.9 - 93.8	Not Acceptable	EPA 8260C
5100	Styrene	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
5105	1,1,1,2-Tetrachloroethane	µg/kg	< 50.0	131	85.5 - 178	Not Acceptable	EPA 8260C
5110	1,1,2,2-Tetrachloroethane	µg/kg	< 50.0	161	84.0 - 233	Not Acceptable	EPA 8260C
5115	Tetrachloroethylene	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
5140	Toluene	µg/kg	140.	157	90.6 - 220	Acceptable	EPA 8260C
5155	1,2,4-Trichlorobenzene	µg/kg	< 50.0	142	57.4 - 230	Not Acceptable	EPA 8260C
5160	1,1,1-Trichloroethane	µg/kg	247.	146	83.4 - 208	Not Acceptable	EPA 8260C
5165	1,1,2-Trichloroethane	µg/kg	172.	145	84.7 - 199	Acceptable	EPA 8260C
5170	Trichloroethylene	µg/kg	206.	153	78.8 - 218	Acceptable	EPA 8260C
5175	Trichlorofluoromethane	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
5180	1,2,3-Trichloropropane (TCP)	µg/kg	< 50.0	142	55.5 - 207	Not Acceptable	EPA 8260C
5225	Vinyl acetate	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
5235	Vinyl chloride	µg/kg	< 50.0	0.00		Acceptable	EPA 8260C
5260	Xylenes, total	µg/kg	252.	359	178 - 524	Acceptable	EPA 8260C

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ERA

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SOIL-72 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467)							
5500	Acenaphthene	µg/kg	3109	4510	1180 - 5630	Acceptable	EPA 8270D
5505	Acenaphthylene	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/kg		0.00		Not Reported	
5545	Aniline	µg/kg	6853	0.00		Not Acceptable	EPA 8270D
5555	Anthracene	µg/kg	5017	6010	1510 - 7730	Acceptable	EPA 8270D
5595	Benzidine	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
5610	Benzoic acid	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
5575	Benzo(a)anthracene	µg/kg	3747	3460	1180 - 4750	Acceptable	EPA 8270D
5585	Benzo(b)fluoranthene	µg/kg	1880	3180	847 - 4450	Acceptable	EPA 8270D
5600	Benzo(k)fluoranthene	µg/kg	3089	1540	408 - 2070	Not Acceptable	EPA 8270D
5590	Benzo(g,h,i)perylene	µg/kg	3905	4950	1160 - 7030	Acceptable	EPA 8270D
5580	Benzo(a)pyrene	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
5630	Benzyl alcohol	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
5760	bis(2-Chloroethoxy)methane	µg/kg	2888	5930	1090 - 6970	Acceptable	EPA 8270D
5765	bis(2-Chloroethyl)ether	µg/kg	2997	12400	1500 - 14400	Acceptable	EPA 8270D
5780	bis(2-Chloroisopropyl)ether	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
5660	4-Bromophenyl-phenylether	µg/kg	10617	12700	4030 - 16600	Acceptable	EPA 8270D
5670	Butylbenzylphthalate	µg/kg	7987	11900	2810 - 17200	Acceptable	EPA 8270D
5680	Carbazole	µg/kg	< 167	0.00		Acceptable	EPA 8270D
5745	4-Chloroaniline	µg/kg	< 167	0.00		Acceptable	EPA 8270D
5700	4-Chloro-3-methylphenol	µg/kg	6293	10700	3090 - 12300	Acceptable	EPA 8270D
5790	1-Chloronaphthalene	µg/kg		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/kg	1340	2220	425 - 2910	Acceptable	EPA 8270D
5800	2-Chlorophenol	µg/kg	6698	11800	2020 - 13000	Acceptable	EPA 8270D
5825	4-Chlorophenyl-phenylether	µg/kg	5192	6430	1790 - 8340	Acceptable	EPA 8270D
5855	Chrysene	µg/kg	1258	1570	454 - 2110	Acceptable	EPA 8270D
5895	Dibenz(a,h)anthracene	µg/kg	1641	2010	389 - 3240	Acceptable	EPA 8270D
5905	Dibenzofuran	µg/kg	8847	10700	2880 - 13300	Acceptable	EPA 8270D
5925	Di-n-butylphthalate	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
4610	1,2-Dichlorobenzene	µg/kg	5403	8780	878 - 9660	Acceptable	EPA 8270D
4615	1,3-Dichlorobenzene	µg/kg	4910	8440	844 - 9280	Acceptable	EPA 8270D
4620	1,4-Dichlorobenzene	µg/kg	< 167.	0.00		Acceptable	EPA 8270D

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SOIL-72 Final Complete Report

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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)							
5945	3,3'-Dichlorobenzidine	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6000	2,4-Dichlorophenol	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6005	2,6-Dichlorophenol	µg/kg		5900	1650 - 6490	Not Reported	
6070	Diethylphthalate	µg/kg	7335	8800	1990 - 11900	Acceptable	EPA 8270D
6130	2,4-Dimethylphenol	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6135	Dimethylphthalate	µg/kg	6092	8920	2660 - 11300	Acceptable	EPA 8270D
6175	2,4-Dinitrophenol	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6185	2,4-Dinitrotoluene	µg/kg	4200	4950	812 - 6780	Acceptable	EPA 8270D
6190	2,6-Dinitrotoluene	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6200	Di-n-octylphthalate	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6065	bis(2-Ethylhexyl)phthalate	µg/kg	8277	12000	3400 - 16800	Acceptable	EPA 8270D
6265	Fluoranthene	µg/kg	6298	8300	2840 - 10800	Acceptable	EPA 8270D
6270	Fluorene	µg/kg	4848	6300	2080 - 7970	Acceptable	EPA 8270D
6275	Hexachlorobenzene	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
4835	Hexachlorobutadiene	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6285	Hexachlorocyclopentadiene	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
4840	Hexachloroethane	µg/kg	5965	12800	439 - 14100	Acceptable	EPA 8270D
6315	Indeno(1,2,3-cd)pyrene	µg/kg	4525	6820	682 - 10100	Acceptable	EPA 8270D
6320	Isophorone	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6360	4,6-Dinitro-2-methylphenol	µg/kg	3311	6140	0.00 - 6750	Acceptable	EPA 8270D
6385	2-Methylnaphthalene	µg/kg	2051	3610	931 - 4260	Acceptable	EPA 8270D
6400	2-Methylphenol	µg/kg	2645	10000	1000 - 11000	Acceptable	EPA 8270D
6412	3&4-Methylphenol	µg/kg	3895	11500	1920 - 12600	Acceptable	EPA 8270D
5005	Naphthalene	µg/kg	2106	3330	589 - 3980	Acceptable	EPA 8270D
6460	2-Nitroaniline	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6465	3-Nitroaniline	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6470	4-Nitroaniline	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
5015	Nitrobenzene	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6490	2-Nitrophenol	µg/kg	5817	10500	1200 - 11900	Acceptable	EPA 8270D
6500	4-Nitrophenol	µg/kg	1066	5040	600 - 6780	Acceptable	EPA 8270D
6525	N-Nitrosodiethylamine	µg/kg		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/kg	5598	11000	1880 - 12100	Acceptable	EPA 8270D

ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

SOIL-72 Final Complete Report

ERA
A Waters Company

Iris M. Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St.
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 12/21/10
Study Dates: 10/18/10 - 12/02/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)							
6535	N-Nitrosodiphenylamine	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6545	N-Nitroso-di-n-propylamine	µg/kg	5163	9100	1180 - 12200	Acceptable	EPA 8270D
6590	Pentachlorobenzene	µg/kg		0.00		Not Reported	
6605	Pentachlorophenol	µg/kg	1998	3850	600 - 4310	Acceptable	EPA 8270D
6615	Phenanthrene	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6625	Phenol	µg/kg	4547	8600	860 - 10500	Acceptable	EPA 8270D
6665	Pyrene	µg/kg	1726	2230	701 - 3100	Acceptable	EPA 8270D
5095	Pyridine	µg/kg	< 167.	0.00		Acceptable	EPA 8270D
6715	1,2,4,5-Tetrachlorobenzene	µg/kg		0.00		Not Reported	
6735	2,3,4,6-Tetrachlorophenol	µg/kg		0.00		Not Reported	
5155	1,2,4-Trichlorobenzene	µg/kg	2308	3570	531 - 4210	Acceptable	EPA 8270D
6835	2,4,5-Trichlorophenol	µg/kg	6638	9900	1520 - 12000	Acceptable	EPA 8270D
6840	2,4,6-Trichlorophenol	µg/kg	3883	5460	977 - 6590	Acceptable	EPA 8270D
SOIL Organochlorine Pesticides in Soil (cat# 468)							
7025	Aldrin	µg/kg	118	181	49.8 - 232	Acceptable	EPA 8081B
7110	alpha-BHC	µg/kg	187	363	101 - 455	Acceptable	EPA 8081B
7115	beta-BHC	µg/kg	101	220	39.1 - 313	Acceptable	EPA 8081B
7105	delta-BHC	µg/kg	230	410	97.0 - 519	Acceptable	EPA 8081B
7120	gamma-BHC(Lindane)	µg/kg	213	464	124 - 564	Acceptable	EPA 8081B
7240	alpha-Chlordane	µg/kg	90.0	78.5	24.7 - 110	Acceptable	EPA 8081B
7245	gamma-Chlordane	µg/kg	141	209	80.0 - 263	Acceptable	EPA 8081B
7355	4,4'-DDD	µg/kg	267	383	130 - 500	Acceptable	EPA 8081B
7360	4,4'-DDE	µg/kg	246	322	114 - 447	Acceptable	EPA 8081B
7365	4,4'-DDT	µg/kg	225	196	43.7 - 272	Acceptable	EPA 8081B
7470	Dieldrin	µg/kg	280	326	110 - 411	Acceptable	EPA 8081B
7540	Endrin	µg/kg	47.3	95.4	29.0 - 148	Acceptable	EPA 8081B
7530	Endrin aldehyde	µg/kg	356	306	30.6 - 361	Acceptable	EPA 8081B
7535	Endrin ketone	µg/kg	236	351	84.7 - 457	Acceptable	EPA 8081B
7510	Endosulfan I	µg/kg	59.0	220	31.5 - 242	Acceptable	EPA 8081B
7515	Endosulfan II	µg/kg	112	242	40.3 - 266	Acceptable	EPA 8081B
7520	Endosulfan sulfate	µg/kg	356	439	95.0 - 608	Acceptable	EPA 8081B
7685	Heptachlor	µg/kg	230	347	97.2 - 438	Acceptable	EPA 8081B
7690	Heptachlor epoxide	µg/kg	234	315	104 - 396	Acceptable	EPA 8081B
7810	Methoxychlor	µg/kg	236	403	45.4 - 621	Acceptable	EPA 8081B
SOIL Chlordane in Soil (cat# 628)							
7250	Chlordane, technical	µg/kg	381.	622	126 - 835	Acceptable	EPA 8081B
SOIL Toxaphene in Soil (cat# 627)							
8250	Toxaphene	µg/kg	588.	723	72.3 - 1040	Acceptable	EPA 8081B

A2LA ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA
A Waters Company

SOIL-72 Final Complete Report

Iris M. Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St.
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 12/21/10
Study Dates: 10/18/10 - 12/02/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)							
9408	Gasoline Range Organics (GRO)	mg/kg	328.	409	40.9 - 688	Acceptable	EPA 8015B
4375	Benzene in GRO	mg/kg		4.37	0.00 - 5.21	Not Reported	
4765	Ethylbenzene in GRO	mg/kg		13.1	5.13 - 15.4	Not Reported	
5140	Toluene in GRO	mg/kg		38.1	0.00 - 41.9	Not Reported	
5260	Xylenes, total in GRO	mg/kg		38.6	9.58 - 52.2	Not Reported	
SOIL Diesel Range Organics (DRO) in Soil (cat# 631)							
9369	Diesel Range Organics (DRO)	mg/kg	304.	742	174 - 932	Acceptable	EPA 8015B

ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

BECKTON ENVIRONMENTAL

LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

PERFORMANCE EVALUATION STUDY DMR-QA 30
DMR-QA Proficiency Testing

192 VILLA STREET
PONCE, P.R. 00731

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ERA

A Waters Company

Iris M Chévere
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875

DMR-QA 30 Final Report

DMR-QA Proficiency Testing

DMR-QA Study

Open Date: 03/15/10

Close Date: 07/02/10

Report Issued Date: 07/21/10

ERA

A Waters Company

Study: **DMR-QA 30**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Inorganic Results

ERA
A Waters Company

DMR-QA 30 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 07/21/10
Study Dates: 03/15/10 - 07/02/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
DMRQA Minerals (cat# 581)							
0027	Alkalinity as CaCO3	mg/L	79.0	80.3	70.8 - 88.7	Acceptable	SM2320B
0028	Chloride	mg/L	46.4	48.0	40.7 - 55.9	Acceptable	SM4500Cl- E
0020	Conductivity at 25°C	µmhos/cm	390.	386	345 - 427	Acceptable	SM2510B
0029	Fluoride	mg/L	2.22	2.21	1.81 - 2.61	Acceptable	SM4500F- C
0026	Potassium	mg/L	30.8	27.1	22.4 - 32.3	Acceptable	EPA 200.7
0025	Sodium	mg/L	67.6	66.0	56.0 - 75.7	Acceptable	EPA 200.7
0030	Sulfate	mg/L	27.4	27.7	22.0 - 32.6	Acceptable	ASTM D516-02
0021	Total Dissolved Solids at 180°C	mg/L	271.	298	224 - 372	Acceptable	SM2540C
1950	Total Solids at 105°C	mg/L	277.	315	274 - 352	Acceptable	SM2540B
DMRQA Hardness (cat# 580)							
0072	Non-Filterable Residue (TSS)	mg/L	48.0	55.6	43.7 - 63.2	Acceptable	SM2540D
0023	Calcium	mg/L	66.0	68.5	61.3 - 77.6	Acceptable	EPA 200.7
0024	Magnesium	mg/L	28.7	28.9	24.8 - 33.2	Acceptable	EPA 200.7
1550	Calcium Hardness as CaCO3	mg/L	165.	171	153 - 194	Acceptable	SM2340B
0022	Total Hardness as CaCO3	mg/L	268.	290	255 - 330	Acceptable	SM2340C
DMRQA pH (cat# 577)							
0019	pH	S.U.	6.30	6.30	6.10 - 6.50	Acceptable	SM4500H+ B
DMRQA Settleable Solids (cat# 883)							
1965	Settleable Solids	mL/L	21.	18.5	14.1 - 24.0	Acceptable	SM2540F
DMRQA Simple Nutrients (cat# 584)							
0031	Ammonia as N	mg/L	10.3	8.47	6.25 - 10.6	Acceptable	EPA 350.1
1820	Nitrate + Nitrite as N	mg/L	10.1	9.74	7.93 - 11.3	Acceptable	EPA 353.2
0032	Nitrate as N	mg/L	10.1	9.74	7.59 - 11.8	Acceptable	EPA 353.2
0033	ortho-Phosphate as P	mg/L	2.12	2.31	1.87 - 2.77	Acceptable	EPA 365.1
DMRQA Complex Nutrients (cat# 579)							
0034	Total Kjeldahl Nitrogen	mg/L	3.87	6.44		No Evaluation	EPA 351.2
0035	Total phosphorus as P	mg/L	3.05	3.14	2.55 - 3.78	Acceptable	EPA 365.4
DMRQA Nitrite (cat# 888)							
1840	Nitrite as N	mg/L	1.26	1.23	1.00 - 1.45	Acceptable	EPA 353.2
DMRQA Demand (cat# 578)							
0038	BOD	mg/L	67.1	63.3	31.8 - 94.8	Acceptable	SM5210B
0102	CBOD	mg/L	58.3	54.5	24.4 - 84.6	Acceptable	SM5210B
0036	COD	mg/L	123.	102	75.8 - 119	Not Acceptable	EPA 410.4
0037	TOC	mg/L	45.5	40.4	33.7 - 46.7	Acceptable	SM5310B
DMRQA Oil & Grease (cat# 582)							
0104	Oil & Grease (Gravimetric)	mg/L	70.	77.5	53.5 - 91.3	Acceptable	EPA 1664A
1860	Oil & Grease (Infrared)	mg/L		95.3	67.4 - 111	Not Reported	

A2LA ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA
A Waters Company

DMR-QA 30 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 07/21/10
Study Dates: 03/15/10 - 07/02/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
DMRQA Trace Metals (cat# 586)							
0001	Aluminum	µg/L		602	472 - 731	Not Reported	
0016	Antimony	µg/L		470	328 - 567	Not Reported	
0002	Arsenic	µg/L		547	459 - 641	Not Reported	
1015	Barium	µg/L		301	261 - 339	Not Reported	
0003	Beryllium	µg/L		350	297 - 395	Not Reported	
1025	Boron	µg/L	1410	1420	1160 - 1650	Acceptable	SM 4500 B B
0004	Cadmium	µg/L		239	203 - 272	Not Reported	
0006	Chromium	µg/L		626	545 - 708	Not Reported	
0005	Cobalt	µg/L		404	354 - 453	Not Reported	
0007	Copper	µg/L		184	164 - 204	Not Reported	
0008	Iron	µg/L		365	319 - 417	Not Reported	
0012	Lead	µg/L		466	405 - 525	Not Reported	
0010	Manganese	µg/L		265	236 - 294	Not Reported	
0074	Molybdenum	µg/L		310	261 - 356	Not Reported	
0011	Nickel	µg/L		611	550 - 684	Not Reported	
0013	Selenium	µg/L		928	737 - 1070	Not Reported	
0017	Silver	µg/L		260	223 - 298	Not Reported	
0075	Strontium	µg/L		239	208 - 271	Not Reported	
0018	Thallium	µg/L		670	548 - 798	Not Reported	
0014	Vanadium	µg/L		363	318 - 406	Not Reported	
0015	Zinc	µg/L		498	427 - 575	Not Reported	

A2LA ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA
A Waters Company

DMR-QA 30 Final Complete Report

Iris M Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 07/21/10
Study Dates: 03/15/10 - 07/02/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
DMRQA Trace Metals (cat# 586)							
0001	Aluminum	µg/L	573.	602	472 - 731	Acceptable	EPA 200.7
0016	Antimony	µg/L	444.	470	328 - 567	Acceptable	EPA 200.7
0002	Arsenic	µg/L	527.	547	459 - 641	Acceptable	EPA 200.7
1015	Barium	µg/L	303.	301	261 - 339	Acceptable	EPA 200.7
0003	Beryllium	µg/L	361.	350	297 - 395	Acceptable	EPA 200.7
1025	Boron	µg/L		1420	1160 - 1650	Not Reported	
0004	Cadmium	µg/L	236.	239	203 - 272	Acceptable	EPA 200.7
0006	Chromium	µg/L	638.	626	545 - 708	Acceptable	EPA 200.7
0005	Cobalt	µg/L	432.	404	354 - 453	Acceptable	EPA 200.7
0007	Copper	µg/L	190.	184	164 - 204	Acceptable	EPA 200.7
0008	Iron	µg/L	370.	365	319 - 417	Acceptable	EPA 200.7
0012	Lead	µg/L	471.	466	405 - 525	Acceptable	EPA 200.7
0010	Manganese	µg/L	263.	265	236 - 294	Acceptable	EPA 200.7
0074	Molybdenum	µg/L	307.	310	261 - 356	Acceptable	EPA 200.7
0011	Nickel	µg/L	587.	611	550 - 684	Acceptable	EPA 200.7
0013	Selenium	µg/L	916.	928	737 - 1070	Acceptable	EPA 200.7
0017	Silver	µg/L	235.	260	223 - 298	Acceptable	EPA 200.7
0075	Strontium	µg/L		239	208 - 271	Not Reported	
0018	Thallium	µg/L	659.	670	548 - 798	Acceptable	EPA 200.7
0014	Vanadium	µg/L	357.	363	318 - 406	Acceptable	EPA 200.7
0015	Zinc	µg/L	477.	498	427 - 575	Acceptable	EPA 200.7
DMRQA Mercury (cat# 574)							
0009	Mercury	µg/L	3.37	3.74	2.32 - 5.19	Acceptable	EPA 245.1
DMRQA Hexavalent Chromium (cat# 898)							
1045	Hexavalent Chromium	µg/L	429	635	518 - 746	Not Acceptable	SM3500Cr D
DMRQA Turbidity (cat# 893)							
2055	Turbidity	NTU	4.99	4.71	3.86 - 5.51	Acceptable	EPA 180.1
DMRQA Total Cyanide (cat# 588)							
0071	Cyanide, total	mg/L	1.32	0.582	0.352 - 0.814	Not Acceptable	SM4500CN E
DMRQA Total Phenolics (4-AAP) (cat# 589)							
0097	Phenolics, total	mg/L	1.52	1.40	0.770 - 2.02	Acceptable	EPA 420.1
DMRQA Total Residual Chlorine (cat# 587)							
0098	Total Residual Chlorine	mg/L	1.36	1.27	0.912 - 1.57	Acceptable	SM4500Cl G

A2LA ACCREDITED All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA

A Waters Company

Study: **DMR-QA 30**

ERA Customer Number: **L036791**

Laboratory Name: **Laboratorio Clinical Analytical Inc**

Microbiology Results

ERA
A Waters Company

DMR-QA 30 Final Complete Report

Ana F. Colon
director
Laboratorio Clinical Analytical Inc
Condominium El Senorial
1326 Calle Salud, Ste 309
Ponce, PR 00717-1689
(787) 290-4024

EPA ID: PR00025
ERA Customer Number: L036791
Report Issued: 07/21/10
Study Dates: 03/15/10 - 07/02/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
DMRQA WasteWatR™ Coliform MicrobE™ (cat# 576)							
2500	Total Coliforms (MF)	CFU/100mL		239	20.0 - 2820	Not Reported	
2530	Fecal Coliforms (MF)	CFU/100mL		180	30.0 - 1080	Not Reported	
2525	E.coli (MF)	CFU/100mL		203	62.0 - 666	Not Reported	
2500	Total Coliforms (MPN)	MPN/100mL	300.	469	129 - 1700	Acceptable	SM9221B
2530	Fecal Coliforms (MPN)	MPN/100mL	300.	376	35.1 - 4030	Acceptable	SM 9221 E
2525	E.coli (MPN)	MPN/100mL		497	266 - 928	Not Reported	

All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA

A Waters Company

Study: **DMR-QA 30**

ERA Customer Number: **A138401**

Laboratory Name: **Acualab de Puerto Rico**

Microbiology Results

ERA
A Waters Company

DMR-QA 30 Final Complete Report

Rafael I. Lebron Ramos
Director
Acualab de Puerto Rico
PO Box 625
Humacao, PR 00792
787-852-5957

EPA ID: PR00015
ERA Customer Number: A138401
Report Issued: 07/21/10
Study Dates: 03/15/10 - 07/02/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
DMRQA WasteWatR™ Coliform MicrobE™ (cat# 576)							
2500	Total Coliforms (MF)	CFU/100mL		239	20.0 - 2820	Not Reported	
2530	Fecal Coliforms (MF)	CFU/100mL		180	30.0 - 1080	Not Reported	
2525	E.coli (MF)	CFU/100mL		203	62.0 - 666	Not Reported	
2500	Total Coliforms (MPN)	MPN/100mL	500	469	129 - 1700	Acceptable	SM9221B
2530	Fecal Coliforms (MPN)	MPN/100mL	500	376	35.1 - 4030	Acceptable	SM9221E
2525	E.coli (MPN)	MPN/100mL		497	266 - 928	Not Reported	

A2LA ACCREDITED
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA

A Waters Company

Iris M. Chévere
Beckton Environmental Lab
192 Villa St.
Ponce, PR 00730-4875

DMR-QA 579 Final Report

DMR-QA Proficiency Testing

DMR-QA Study

Open Date: 07/16/10

Close Date: 07/30/10

Report Issued Date: 08/05/10

ERA

A Waters Company

Study: **DMR-QA 579**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Inorganic Results

ACCREDITED

ERA

A Waters Company

DMR-QA 579 Final Complete Report

Iris M. Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St.
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901
Report Issued: 08/05/10
Study Dates: 07/16/10 - 07/30/10

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
DMRQA Complex Nutrients (cat# 579)							
0034	Total Kjeldahl Nitrogen	mg/L	14.0	14.0	9.28 - 18.1	Acceptable	EPA 351.2
0035	Total phosphorus as P	mg/L		2.22	1.78 - 2.71	Not Reported	

All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

ERA

A Waters Company

Iris M. Chévere
Beckton Environmental Lab
192 Villa St.
Ponce, PR 00730-4875

080510R Final Report

QuiK™ Response Proficiency Testing

ERA

A Waters Company

Project Number: **080510R**

ERA Customer Number: **B188901**

Laboratory Name: **Beckton Environmental Lab**

Inorganic Results

ACCREDITED
Lab Code: 1328-01

ERA
A Waters Company

080510R Final Complete Report

Iris M. Chévere
Lab. Director
Beckton Environmental Lab
192 Villa St.
Ponce, PR 00730-4875
787-841-7373

EPA ID: PR00012
ERA Customer Number: B188901

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WP Demand (cat# 516) Study Dates: 08/05/10 - 09/17/10							
0038	BOD	mg/L		63.3	31.8 - 94.8	Not Reported	
0102	CBOD	mg/L		54.5	24.4 - 84.6	Not Reported	
0036	COD	mg/L	153.	103	76.6 - 120	Not Acceptable	EPA 410.4
0037	TOC	mg/L		40.5	33.8 - 46.8	Not Reported	
WP Hexavalent Chromium (cat# 984) Study Dates: 08/05/10 - 09/17/10							
1045	Hexavalent Chromium	µg/L	255.	251	201 - 297	Acceptable	SM3500Cr D
WP Total Cyanide (cat# 502) Study Dates: 08/05/10 - 09/17/10							
0071	Cyanide, total	mg/L	0.361	0.326	0.168 - 0.489	Acceptable	SM4500CN E

A2LA ACCREDITED Lab Code: 1539-01
All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

BECKTON ENVIRONMENTAL

LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

ERA INTERNAL QC PERFORMANCE EVALUATION SAMPLES 2010

192 VILLA STREET
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BECKTON ENVIRONMENTAL
LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

Performance Evaluation Report Summary-First Round 2010

Table 1. **Wet Chemistry Parameters**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT	CERTIFIED VALUE	ACCEPTABLE RANGE
WP - 176	02/09/10	Ammonia, as N	5.82 mg/L	5.73 mg/L	4.18 – 7.29 mg/L
P159-504	02/10/10	Ortho phosphate	1.74 mg/L	1.72 mg/L	1.37 – 2.09 mg/L
P158-516	02/11/10	Nitrate & Nitrite	2.80 mg/L	3.04 mg/L	2.36 – 3.69 mg/L

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BECKTON ENVIRONMENTAL

LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT FOR THE PERIOD OF JANUARY 1, 2010 TO DECEMBER 31, 2010

Performance Evaluation Report Summary-Second Round 2010

Table 1. **Trace Metals**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT mg/kg	CERTIFIED VALUE mg/kg	ACCEPTABLE RANGE mg/kg
Soil 68	03/10/10	Al	11,132	14,000	5,030 – 16,600
Soil 68	03/10/10	Sb	129	252	25.2 – 277
Soil 68	03/10/10	As	92.3	102	66.6 – 126
Soil 68	03/10/10	Ba	178	204	141 – 245
Soil 68	03/10/10	Be	100	114	80.1 – 134
Soil 68	03/10/10	Cd	167	200	136 – 234
Soil 68	03/10/10	Ca	11,426	13,000	8,260 – 14,300
Soil 68	03/10/10	Cr	161	145	115 – 212
Soil 68	03/10/10	Co	166	190	133 – 224
Soil 68	03/10/10	Cu	178	188	136 – 225
Soil 68	03/10/10	Fe	15,820	22,900	8,340 – 30,000
Soil 68	03/10/10	Pb	131	139	95.2 – 167
Soil 68	03/10/10	Mg	3,945	3,320	1,900 – 3,890

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BECKTON ENVIRONMENTAL
LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

Table 2. **Trace Metals (cont.)**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT mg/kg	CERTIFIED VALUE mg/kg	ACCEPTABLE RANGE mg/kg
Soil 68	03/10/10	Mn	379	384	286 – 468
Soil 68	03/10/10	Mo	73.3	86.0	51.8 – 99.0
Soil 68	03/10/10	Ni	76.7	88.5	59.8 – 107
Soil 68	03/10/10	K	3,008	2,230	1,270 – 3,050
Soil 68	03/10/10	Se	102	126	74.1 – 151
Soil 68	03/10/10	Ag	42.0	44.1	27.3 – 55.3
Soil 68	03/10/10	Na	1,045	263	55.5 – 370
Soil 68	03/10/10	Tl	164	209	134 – 254
Soil 68	03/10/10	V	102	109	69.9 – 141
Soil 68	03/10/10	Zn	155	180	116 – 221

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LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

Performance Evaluation Report Summary-Third Round 2010

Table 1. **Wet Chemistry Parameters**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT	CERTIFIED VALUE	ACCEPTABLE RANGE
S149-983	05/18/10	Cyanide	0.218 mg/L	0.287 mg/L	0.215 – 0.359 mg/L
DMRQA 30	05/12/10	Oil and Grease	70.0 mg/L	77.5 mg/L	53.5 – 91.3 mg/L
P180-516	05/13/10	COD	127 mg/L	122 mg/L	103 – 135 mg/L
P177-506	05/20/10	Sulfate	36.5 mg/L	39.1 mg/L	34.6 – 43.2 mg/L
P177-506	05/17/10	Conductivity	369 umhos/cm	367 umhos/cm	346 - 387 umhos/cm
P177-506	05/19/10	Chlorides	46.2 mg/L	47.7 mg/L	43.8 – 52.6 mg/L
WP 176	05/26/10	Ammonia, as N	6.17 mg/L	5.73 mg/L	4.18 – 7.29 mg/L
WP 176	05/04/10	pH	8.55 S.U.	8.66 S.U.	8.46 - 8.86 S.U.
DMRQA 30	05/26/10	SS, mL/L	21.0 mL/L	18.5 mL/L	14.1 – 24.0 mL/L
WP 176	05/19/10	Turbidity	2.60 NTU	2.36 NTU	1.81 – 2.96 NTU
P175-071	05/19/10	Sulfide	1.61 mg/L	1.97 mg/L	1.11 – 2.83 mg/L
P168-776	05/07/10	Surfactant	0.620 mg/L	0.552 mg/L	0.405 – 0.754 mg/L

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BECKTON ENVIRONMENTAL
LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

Performance Evaluation Report Summary-Third Round 2010

Table 1. **Wet Chemistry Parameters (cont.)**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT	CERTIFIED VALUE	ACCEPTABLE RANGE
P177-506	05/20/10	Alkalinity	49.0 mg/L	50.4 mg/L	45.3 – 53.2 mg/L
WP 176	05/13/10	TSS	32.0 mg/L	35.5 mg/L	26.0 – 41.8 mg/L
WP 176	05/13/10	Chlorine, residual	1.04 mg/L	1.02 mg/L	0.734 – 1.27 mg/L
P177-506	05/19/10	Fluoride	1.51 mg/L	1.49 mg/L	1.26 – 1.72 mg/L
P177-506	05/13/10	TS	253 mg/L	263 mg/L	229 – 292 mg/L
P177-506	05/13/10	TDS	236 mg/L	252 mg/L	221 – 283 mg/L
P180-516	05/12/10	BOD	75.0 mg/L	75.3 mg/L	51.6 – 98.9 mg/L
P180-516	05/12/10	CBOD	65.5 mg/L	64.8 mg/L	42.8 – 94.6 mg/L
WP 176	05/20/10	Total Phosphorus	3.72 mg/L	3.76 mg/L	3.07 – 4.51 mg/L
WP 176	05/14/10	Ortho phosphate	1.88 mg/L	1.72 mg/L	1.37 – 2.09 mg/L
P180-516	05/21/10	TOC	51.6 mg/L	48.2 mg/L	43.2 – 52.8 mg/L
WP 176	05/18/10	Nitrate & Nitrite	3.12 mg/L	3.04 mg/L	2.36 – 3.69 mg/L
WP 176	05/18/10	Nitrite	2.88 mg/L	3.04 mg/L	2.47 – 3.55 mg/L

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BECKTON ENVIRONMENTAL
LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

Performance Evaluation Report Summary-Third Round 2010

Table 2. **Trace Metals**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT µg/L	CERTIFIED VALUE µg/L	ACCEPTABLE RANGE µg/L
WP 176	05/24/10	Al	2,970	3,110	2,570 – 3,600
WP 176	05/24/10	Sb	609	605	425 – 728
WP 176	05/24/10	As	146	161	131 – 191
WP 176	05/24/10	Ba	1,210	1,210	1,050 – 1,360
WP 176	05/24/10	Be	516	505	429 – 570
WP 176	05/24/10	Cd	634	641	547 – 728
WP 176	05/24/10	Ca	69.0 mg/L	70.5 mg/L	63.1 – 79.8 mg/L
WP 176	05/24/10	Cr	890	870	759 – 983
WP 176	05/26/10	Cr VI	503	482	392 – 568
WP 176	05/24/10	Co	776	733	644 – 821
WP 176	05/24/10	Cu	849	833	750 – 916
WP 176	05/24/10	Fe	850	881	778 – 996
WP 176	05/24/10	Pb	397	409	354 – 462
WP 176	05/24/10	Mg	10.8 mg/L	10.8 mg/L	9.19 – 12.4 mg/L

192 VILLA STREET
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ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

Performance Evaluation Report Summary-Third Round 2010

Table 2. **Trace Metals (cont.)**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT µg/L	CERTIFIED VALUE µg/L	ACCEPTABLE RANGE µg/L
WP 176	05/24/10	Mn	775	784	704 – 871
WP 176	05/24/10	Hg	9.04	8.14	5.02 – 11.1
WP 176	05/24/10	Mo	554	548	466 – 625
WP 176	05/24/10	Ni	561	584	525 – 654
WP 177	05/24/10	K	35.0 mg/L	34.9 mg/L	29.9 – 38.0 mg/L
WP 177	05/24/10	Silica as SiO_2	66.1	61.1	45.8 – 76.2
WP 176	05/24/10	Se	1,070	1,070	851 – 1,240
WP 176	05/24/10	Ag	519	549	471 – 629
WP 177	05/24/10	Na	53.3 mg/L	52.3 mg/L	46.6 – 57.9 mg/L
WP 176	05/24/10	Tl	251	254	189 – 316
WP 176	05/24/10	V	796	811	710 – 907
WP 176	05/24/10	Zn	330	339	290 - 394
WP 176	05/24/10	Boron	1,140	1,100	905 – 1280
0904452	05/26/10	Hardness	208 mg/L	220 mg/L	195 – 250 mg/L

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LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

Performance Evaluation Report Summary- Fourth Round 2010

Table 1. **Wet Chemistry Parameters**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT	CERTIFIED VALUE	ACCEPTABLE RANGE
Soil 68	06/01/10	Flash Point	145° F	143 °F	126 – 160 °F

Table 2. **Trace Metals**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT mg/kg	CERTIFIED VALUE mg/kg	ACCEPTABLE RANGE mg/kg
Soil 69	06/01/10	Boron	189	176	90.4 - 194
Soil 68	06/01/10	Chromium VI	156	244	83.4 – 323

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LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT FOR THE PERIOD OF JANUARY 1, 2010 TO DECEMBER 31, 2010

Performance Evaluation Report Summary-Fifth Round 2010

Table 1. **Trace Metals**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT mg/kg	CERTIFIED VALUE mg/kg	ACCEPTABLE RANGE mg/kg
Soil 70	12/01/10	Al	8,399	10,100	3,600 – 13,800
Soil 70	12/02/10	Sb	186	235	23.5 – 258
Soil 70	12/01/10	As	128	167	96.4 – 184
Soil 70	12/01/10	Ba	278	313	214 – 366
Soil 70	12/01/10	Be	135	154	104 – 172
Soil 70	12/01/10	Cd	76.5	88.5	62.3 – 108
Soil 70	12/01/10	Ca	5,934	6,380	4,520 – 7,730
Soil 70	12/01/10	Cr	163	187	118 – 217
Soil 70	12/01/10	Co	81.2	98.1	64.7 – 109
Soil 70	12/01/10	Cu	183	209	142 – 233
Soil 70	12/01/10	Fe	12,227	15,000	3,860 – 21,100
Soil 70	12/01/10	Pb	109	134	86.8 – 154
Soil 70	12/01/10	Mg	3,101	3,170	1,920 – 3,930

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ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

Table 2. **Trace Metals (cont.)**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT mg/kg	CERTIFIED VALUE mg/kg	ACCEPTABLE RANGE mg/kg
Soil 70	12/01/10	Mn	296	313	231- 388
Soil 70	12/01/10	Mo	142	176	102 – 194
Soil 70	12/01/10	Ni	147	179	117- 202
Soil 70	12/01/10	K	3,240	3,070	1,720 – 3,840
Soil 70	12/01/10	Se	37.4	49.7	24.4 – 62.6
Soil 70	12/01/10	Ag	55.2	62.6	36.8 – 73.6
Soil 70	12/01/10	Na	628	544	257 – 751
Soil 70	12/01/10	Tl	130	168	100 – 193
Soil 70	12/01/10	V	141	156	96.8 – 180
Soil 70	12/01/10	Zn	189	221	144 - 268
Soil 70	11/29/10	Chromium VI	153	192	54.2 - 244
Soil 70	12/02/10	Boron	100	147	73.4 - 167

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BECKTON ENVIRONMENTAL
LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

Performance Evaluation Report Summary-Sixth Round 2010

Table 1. **Wet Chemistry Parameters**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT	CERTIFIED VALUE	ACCEPTABLE RANGE
WP 176	12/23/10	Cyanide	0.820 mg/L	0.898 mg/L	0.578 – 1.22 mg/L
WP 190	12/14/10	Oil and Grease	55.0 mg/L	57.5 mg/L	36.5 – 64.1 mg/L
S171-698	12/07/10	Sulfate	11.8 mg/L	10.2 mg/L	7.75 – 12.2 mg/L
S171-698	12/08/10	Conductivity	430 umhos/cm	443 umhos/cm	399 - 487 umhos/cm
S171-698	12/13/10	Chlorides	31.5 mg/L	30.4 mg/L	27.0 – 34.0 mg/L
WP 183	12/14/10	Ammonia, as N	13.6 mg/L	13.8 mg/L	10.3 – 17.1 mg/L
S171-698	12/17/10	Alkalinity	135. mg/L	134 mg/L	121 – 147 mg/L
WP 183	12/03/10	TSS	58.0 mg/L	61.9 mg/L	49.3 – 69.9 mg/L
S171-698	12/08/10	Fluoride	6.95 mg/L	7.34 mg/L	6.61 – 8.07 mg/L
S171-698	12/07/10	TDS	384 mg/L	396 mg/L	254 – 538 mg/L
Q030-516	12/08/10	BOD	64.6 mg/L	63.3 mg/L	40.8 – 85.4 mg/L
Q030-516	12/08/10	CBOD	53.6 mg/L	54.5 mg/L	36.1 – 81.6 mg/L
DMRQA 30	12/13/10	Total Phosphorus	3.26 mg/L	3.14 mg/L	2.55 – 3.78 mg/L
DMRQA 579	12/23/10	TKN	9.48 mg/L	14.0 mg/L	9.28 – 18.1 mg/L

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LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

Performance Evaluation Report Summary-Sixth Round 2010

Table 1. **Wet Chemistry Parameters (cont.)**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT	CERTIFIED VALUE	ACCEPTABLE RANGE
WP 183	12/20/10	Ortho phosphate	5.18 mg/L	4.80 mg/L	3.96 – 5.67 mg/L
Q030-516	12/16/10	TOC	39.7 mg/L	40.4 mg/L	35.9 – 44.9 mg/L
WP 183	12/15/10	Nitrate & Nitrite	13.2 mg/L	12.8 mg/L	10.4 – 14.9 mg/L
DMRQA 30	12/16/10	Nitrite	1.22 mg/L	1.23 mg/L	1.00 – 1.45 mg/L
P180-071	12/13/10	Sulfide	6.89 mg/L	7.00 mg/L	2.86 – 9.63 mg/L
P185-501	12/28/10	Residual Chlorine	1.16 mg/L	1.08 mg/L	0.951 – 1.21 mg/L
Q029-777	12/15/10	Turbidity	2.87 NTU	2.95 NTU	2.33 – 3.58 NTU

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LABORATORIES, INC.

ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

Performance Evaluation Report Summary- Sixth Round 2010

Table 2. **Trace Metals**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT µg/L	CERTIFIED VALUE µg/L	ACCEPTABLE RANGE µg/L
WP 183	12/14/10	Al	262	227	158 – 301
WP 183	12/14/10	Sb	670	685	483 – 823
WP 183	12/14/10	As	471	489	409 – 573
WP 183	12/14/10	Ba	983	937	813 – 1,060
WP 183	12/14/10	Be	300	288	244 – 325
WP 183	12/14/10	Cd	392	393	335 – 447
WP 183	12/14/10	Ca	68.5 mg/L	70.4 mg/L	63.0 – 79.7 mg/L
WP 183	12/14/10	Cr	758	723	630 – 817
WP 183	12/14/10	Co	298	295	258 – 331
WP 183	12/14/10	Cu	136	136	120 – 152
WP 183	12/14/10	Fe	1,575	1,660	1,470 – 1,870
WP 183	12/14/10	Pb	856	854	748 - 956
WP 183	12/14/10	Mg	34.1 mg/L	34.0 mg/L	29.2 – 39.1 mg/L

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ANNUAL QUALITY ASSURANCE REPORT
FOR THE PERIOD OF
JANUARY 1, 2010 TO DECEMBER 31, 2010

Performance Evaluation Report Summary- Sixth Round 2010

Table 2. **Trace Metals (cont.)**

ERA LOT NUMBER	DATE	PARAMETER	LABORATORY RESULT µg/L	CERTIFIED VALUE µg/L	ACCEPTABLE RANGE µg/L
WP 183	12/14/10	Mn	1,014	1,020	916 – 1,130
WP 183	12/14/10	Hg	26.9	21.3	13.1 -28.7
WP 183	12/14/10	Mo	198	197	163 – 229
WP 183	12/14/10	Ni	634	635	572 – 711
WP 183	12/14/10	Se	1,350	1,340	1,070 – 1,550
WP 183	12/14/10	Ag	49.3	45.9	38.7 52.8
WP 183	12/14/10	Tl	776	748	615 - 889
WP 183	12/14/10	V	650	676	592 – 756
WP 183	12/14/10	Zn	861	846	727 – 972
WP 183	12/07/10	Chromium VI	410	430	349 - 507
WP 183	12/14/10	Boron	1,140	1,490	1,220- 1,740
WP 183	12/14/10	Hardness	300 mg/L	316 mg/L	277 – 360 mg/L

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