Veolia Energy North America
Kendall Green Energy LLC
265 First Street
Cambridge, MA 02142
T 617 679 4800 F 617 354 1301

August 20, 2015

Water Enforcement, OES4-SMR
United States Environmental Protection Agency
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)
Permit Number: MA0004898
Reporting Period: July 1 to 30, 2015

Delivery by NetDMR

Dear Sir/Madam:

Enclosed is the NPDES Discharge Monitoring Report (DMR) from Kendall Green Energy LLC located at 265 First Street in Cambridge, Massachusetts. This report covers the July 1 to 30, 2015 reporting period.

On December 17, 2010, the United States Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection Agency (MassDEP) issued to GenOn Kendall a new NPDES permit that became effective on February 1, 2011. On January 31, 2011, the EPA issued a Findings and Order for Compliance (Docket No. 11-005) and MassDEP issued a Unilateral Administrative Order (File No. UAO-BO-11-1N001) establishing interim permit limits until other projects are completed to comply with the permit.

Please note that on July 22, 2015 the site began discharging RO & UF water treatment system reject and backwash wasters through outfall 009 per Part I.A.3 of the site NPDES permit and as described in the attached letter notifying the EPA and DEP of these plans. Effluent monitoring is being performed per Part I.A.3 of the permit and the results entered into the electronic DMR. A summary table of the monitoring for outfall 009 is included in the DMR attachments. Because discharges started on July 22nd there are only 2 weekly sampling events for the month of July. Part I.A.3 Footnote 2 of the permit requires effluent sampling for the 126 Priority Pollutants and results for that sample are attached to this letter. All sampling is within permit limits.

If you have any questions, or require additional information, please contact me at (617) 679-4818.

Sincerely,

S Caldwell

Sean Caldwell
Director, EH&S

Copies: Mr. Scott McBurney
MADEP, 205B Lowell Street, Wilmington MA 01887
MADEP, NPDES-DMRs
Division of Watershed Mgmt, 627 Main Street – 2nd floor, Worcester, MA 01608

Kendall Green Energy LLC NPDES DMR Data

Outfall SUM T --Condenser Cooling Water

Reporting Period -- July 2015

Date	Chlorine Pumps 1	Chlorine Pumps 2	Chlorine Pumps 3	Sample Time	Time of Analysis	Temp F (Influent)	TRC, mg/l Influent (only when above 50 F)	Outfall 001 TRC, mg/l Effluent (0.1)(0.1)	Outfall 002 TRC, mg/l Effluent (0.1)(0.1)	pH, Influent	Outfall 001 pH, Effluent (6.5)(9.0)	Outfall 002 pH, Effluent (6.5)(9.0)	Name of Sampler	Name of Analyst
7/1/2015	Off	Off	Off	0700	0710	72	0.10	-	-	7.53	7.47	7.49	MP	MP
7/2/2015	Off	Off	Off	0715	0720	74	0.09	-	-	7.49	7.51	7.53	MP	MP
7/3/2015	Off	Off	Off	0710	0720	74	0.05	-	-	7.63	7.67	7.65	MP	MP
7/4/2015	Off	Off	Off	0700	0715	75	0.04	-	-	7.51	7.55	7.57	SH	SH
7/5/2015	Off	Off	Off	0700	0720	73	0.07	-	-	7.55	7.57	7.53	MP	MP
7/6/2015	Off	Off	Off	0900	0910	78	0.06	-	-	7.46	7.49	7.51	FP	FP
7/7/2015	Off	Off	Off	0650	0700	78	0.07	-	-	7.39	7.36	7.43	MP	MP
7/8/2015	Off	Off	Off	0800	0810	78	0.04	-	-	7.41	7.38	7.41	FP	FP
7/9/2015	Off	Off	Off	0645	0655	78	0.06	-	-	7.53	7.55	7.52	TR	TR
7/10/2015	Off	Off	Off	0825	0835	78	0.05	-	-	7.60	7.58	7.55	GK	GK
7/11/2015	Off	Off	Off	0715	0730	80	0.05	-	-	7.54	7.57	7.56	MP	MP
7/12/2015	Off	Off	Off	0715	0720	80	0.04	-	-	7.41	7.31	7.32	SH	SH
7/13/2015	Off	Off	Off	0725	0730	81	0.05	-	-	7.25	7.18	7.21	SH	SH
7/14/2015	Off	Off	Off	0715	0730	79	0.05	-	-	7.30	7.56	7.45	MP	MP
7/15/2015	Off	Off	Off	0720	0725	79	0.06	-	-	7.54	7.58	7.54	MP	MP
7/16/2015	Off	Off	Off	0650	0710	80	0.06	-	-	7.48	7.52	7.46	RA	RA
7/17/2015	Off	Off	Off	0700	0710	77	0.04	-	-	7.56	7.48	7.51	FP	FP
7/18/2015	Off	Off	Off	0530	0545	78	0.06	-	-	7.52	7.55	7.48	RA	RA
7/19/2015	Off	Off	Off	0615	0625	78	0.04	-	-	7.51	7.53	7.49	TR	RA
7/20/2015	Off	Off	Off	0630	0640	78	0.06	-	-	7.84	7.80	7.79	TR	TR
7/21/2015	Off	Off	Off	0700	0705	82	0.04	-	-	7.46	7.31	7.34	SH	SH
7/22/2015	Off	Off	Off	0710	0720	80	0.04	-	-	7.41	7.27	7.36	SH	SH
7/23/2015	Off	Off	Off	1055	1110	81	0.05	-	-	8.03	8.10	7.90	SH	SH
7/24/2015	Off	Off	Off	0700	0735	83	0.04	-	-	8.10	8.10	8.06	SH	SH
7/25/2015	Off	Off	Off	1045	1055	79	0.07	-	-	8.12	8.15	8.13	TR	TR
7/26/2015	Off	Off	Off					-	-		8.15	8.15	FP	FP
7/27/2015	Off	Off	Off	0715	0720	78	0.11	-	-	8.15	8.17	8.17	MP	MP
7/28/2015	Off	Off	Off	0717	0727	78	0.10	-	-	8.17	8.15	8.19	MP	MP
7/29/2015	Off	Off	Off	0713	0725	79	0.13	-	-	8.32	8.40	8.39	MP	MP
7/30/2015	Off	Off	Off	0710	0715	81	0.07	-	-	8.47	8.48	8.48	SH	SH
7/31/2015	Off	Off	Off	0700	0715	81	0.19			8.24	8.30	8.28	MP	MP
						Mo Avg	0.07	NA	NA	7.7	7.7	7.7		
						MAX	0.19	NA	NA	8.5	8.5	8.5		
						MIN	0.04	NA	NA	7.3	7.2	7.2		

DMR Data for Outfall SUM-T	Actual	Limit
Min pH	7.2	6.5
Max pH	8.5	9.0
Daily Avg. Temp.	78.3	NA
Daily Max Temp.	83.0	105
Inst. Max Delta T	19	20
Flow, Mo Avg	68	70
Flow, Daily Max	71	80
Chlorine, Mo Avg	n.a	0.1
Chlorine, Daily Max	n.a.	0.1

Kendall Green Energy LLC
265 First Street
Cambridge, MA 02142
T 617 679 4800 F 617 354 1301

NPDES Permit No. MA0004898
Kendall Green Energy LLC
265 First Street, Cambridge, MA
Daily Flow and Temperature Summary
Outfall 001 through 004

	Max Flow Rate (MGD)	Min Flow Rate (MGD)	Total Flow (MGD)	Maximum Delta T (F)	Average Delta T (F)	Maximum Outfall Temp. (F)	Average Outfall Temp. (F)
7/1/2015	61	61	61	17	15	92	88
7/2/2015	71	61	68	18	16	94	90
7/3/2015	71	71	71	18	17	95	92
7/4/2015	71	71	71	18	18	94	93
7/5/2015	71	71	71	19	18	95	93
7/6/2015	71	71	71	18	17	97	94
7/7/2015	71	71	71	19	17	98	94
7/8/2015	71	71	71	19	18	100	97
7/9/2015	71	71	71	19	18	99	97
7/10/2015	71	71	71	19	18	97	95
7/11/2015	71	71	71	19	18	101	97
7/12/2015	71	71	71	19	18	101	98
7/13/2015	71	71	71	19	18	100	98
7/14/2015	71	71	71	19	18	100	98
7/15/2015	71	71	71	19	18	101	98
7/16/2015	71	71	71	19	18	99	97
7/17/2015	71	71	71	19	19	100	97
7/18/2015	71	71	71	19	19	98	96
7/19/2015	71	71	71	19	19	100	98
7/20/2015	71	71	71	19	18	104	100
7/21/2015	71	71	71	18	17	102	100
7/22/2015	71	71	71	19	18	101	99
7/23/2015	71	71	71	19	18	101	99
7/24/2015	71	71	71	19	18	101	99
7/25/2015	71	0	28	19	0	100	80
7/26/2015	0	0	0	0	0	0	0
7/27/2015	45	0	36	17	0	95	85
7/28/2015	71	45	70	18	13	98	92
7/29/2015	71	71	71	18	16	99	96
7/30/2015	71	71	71	17	16	99	98
7/31/2015	71	71	71	17	16	101	98
Monthly	71	0	65	19	16	104	95

Kendall Green Energy LLC
265 First Street
Cambridge, MA 02142
T 617 679 4800 F 617 354 1301

NPDES Permit No. MA0004898
Kendall Green Energy LLC
265 First Street, Cambridge, MA
Daily Flow Summary
Outfall 005 through 007

	Total Flow (MGD) Outfall 005 Screenhouse No. 1	Total Flow (MGD) Outfall 006 Screenhouse No. 2	Total Flow (MGD) Outfall 007 Screenhouse No. 3
7/1/2015	0.001	0.001	0.001
7/2/2015	0.001	0.001	0.001
7/3/2015	0.001	0.001	0.001
7/4/2015	0.001	0.001	0.001
7/5/2015	0.001	0.001	0.001
7/6/2015	0.001	0.001	0.001
7/7/2015	0.002	0.002	0.002
7/8/2015	0.002	0.002	0.002
7/9/2015	0.001	0.001	0.001
7/10/2015	0.002	0.002	0.002
7/11/2015	0.002	0.002	0.002
7/12/2015	0.001	0.002	0.001
7/13/2015	0.001	0.001	0.001
7/14/2015	0.002	0.002	0.002
7/15/2015	0.002	0.002	0.002
7/16/2015	0.001	0.001	0.001
7/17/2015	0.001	0.001	0.001
7/18/2015	0.002	0.002	0.002
7/19/2015	0.002	0.002	0.002
7/20/2015	0.001	0.001	0.002
7/21/2015	0.002	0.002	0.002
7/22/2015	0.002	0.002	0.002
7/23/2015	0.001	0.001	0.002
7/24/2015	0.001	0.001	0.002
7/25/2015	0.001	0.001	0.001
7/26/2015	0.001	0.001	0.001
7/27/2015	0.002	0.002	0.002
7/28/2015	0.002	0.002	0.002
7/29/2015	0.001	0.001	0.002
7/30/2015	0.001	0.001	0.002
7/31/2015	0.001	0.002	0.001
Monthly	0.002	0.002	0.002

Kendall Green Energy LLC
265 First Street
Cambridge, MA 02142
T 617 679 4800 F 617 354 1301

NPDES Permit No. MA0004898
Kendall Green Energy LLC
265 First Street, Cambridge, MA
Daily Heat Load Calculation
Outfall 001 through 004

	Monthly Average (mBTU/d)	Daily Max (mBTU/d)
August 2014	9,289	10,291
September 2014	8,668	9,448
October 2014	8,072	9,901
November 2014	3,627	8,120
December 2014	5,857	7,918
January 2015	4,594	6,244
February 2015	3,983	5,916
March 2015	5,021	6,157
April 2015	6,814	9,427
May 2015	8,083	9,321
June 2015	7,909	9,707
July 2015	9,275	10,969
12 Month Avg.	6,766	

NPDES Permit # MA0004898

Hourly Flow Rates and Delta T - July 2015

July 2015			0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily Avg	Daily Max	Total
7/1/2015	Delta T.	F°	16.3	16.5	16.4	16.6	16.6	16.0	15.4	13.3	13.0	12.8	12.8	13.0	13.4	13.5	13.7	14.3	14.5	14.6	15.9	16.0	16.2	17.2	16.8	17.4	15	17	
	Total flow	MGH	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		
	Heat Rate	mmBTU	346	350	349	352	353	339	327	282	276	271	271	276	284	287	291	302	307	310	336	340	343	364	356	369	320.0		7680.8
7/2/2015	Delta T.	F°	17.6	17.6	17.6	15.6	16.6	16.5	15.3	13.2	13.3	15.9	15.2	15.0	15.1	14.9	15.1	15.3	15.6	15.8	16.1	16.3	16.4	17.2	17.4	17.8	16	18	
	Total flow	MGH	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8		
	Heat Rate	mmBTU	372	372	372	332	352	351	325	304	327	390	373	368	369	367	369	374	382	388	396	399	402	421	426	436	373.7		8969.0
7/3/2015	Delta T.	F°	18.0	18.3	18.1	17.9	17.8	17.2	16.5	16.8	16.5	16.4	16.1	15.6	15.8	16.0	16.3	16.3	16.1	16.0	16.6	16.9	17.2	17.3	17.5	17.8	17	18	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	441	448	444	439	436	423	404	413	406	402	396	384	388	392	401	399	395	393	408	414	422	424	429	436	414.0		9936.1
7/4/2015	Delta T.	F°	18.3	18.2	18.0	17.8	17.8	17.8	18.3	17.9	16.8	17.0	16.9	17.2	17.3	17.4	17.5	17.7	17.9	17.9	17.7	17.8	17.9	18.1	18.2	17.9	18	18	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	448	445	442	438	436	437	450	440	412	418	415	423	425	426	429	434	439	439	435	437	438	443	445	440	434.8		10435.6
7/5/2015	Delta T.	F°	18.0	17.9	17.8	17.8	17.6	14.6	14.4	17.3	18.2	17.6	17.6	17.4	17.3	17.1	17.1	17.4	17.7	18.0	18.4	18.5	18.7	18.2	17.8	17.7	17	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	442	440	436	436	431	359	353	424	446	432	431	426	425	420	420	426	433	443	452	455	458	446	436	435	429.3		10304.1
7/6/2015	Delta T.	F°	17.9	17.6	17.1	17.1	17.1	15.9	15.3	15.2	14.8	14.3	15.5	16.4	16.6	16.5	16.7	17.0	16.8	17.2	17.8	18.0	18.3	18.1	17.7	18.1	17	18	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	439	433	420	421	419	389	375	374	363	350	380	402	407	405	409	417	413	421	438	441	450	445	436	444	412.2		9893.3
7/7/2015	Delta T.	F°	18.2	18.7	18.5	18.2	17.9	18.5	17.2	16.9	16.7	15.9	15.8	15.8	15.9	15.8	15.9	16.6	17.0	18.4	19.0	18.2	19.0	18.9	18.8	19.1	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	448	458	453	446	439	454	422	415	410	390	389	386	389	387	390	407	418	450	467	447	467	448	460	470	429.7		10311.6
7/8/2015	Delta T.	F°	19.1	19.0	19.0	18.9	18.8	18.1	16.5	16.1	17.5	18.1	18.6	17.5	16.3	16.4	18.4	18.0	18.0	18.9	19.4	19.2	19.4	18.9	19.0	19.1	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	468	465	466	464	461	444	406	396	430	445	455	428	400	403	451	443	441	463	476	470	477	463	466	468	447.9		10750.6
7/9/2015	Delta T.	F°	19.2	19.1	18.9	18.9	18.8	18.5	18.5	17.9	18.3	18.2	17.9	18.0	18.1	18.1	18.0	18.0	17.8	17.6	18.3	18.6	18.7	17.8	17.8	18.4	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	471	469	464	462	462	454	453	440	449	447	439	441	444	445	441	442	438	433	449	456	459	437	437	451	449.3		10783.3
7/10/2015	Delta T.	F°	18.6	18.4	18.2	17.9	18.2	17.7	16.1	16.3	16.5	16.6	16.8	17.2	17.3	16.9	16.8	16.8	16.8	17.4	18.3	18.3	18.5	18.4	18.3	18.4	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	455	451	446	440	445	434	396	400	405	408	411	421	424	414	413	412	413	427	450	449	454	452	449	453	430.0		10321.0
7/11/2015	Delta T.	F°	18.5	18.5	18.5	18.4	18.5	18.4	18.0	18.1	17.7	17.8	17.7	17.3	17.5	18.3	18.2	18.1	18.2	18.5	18.3	18.8	18.7	18.4	18.0	18.1	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	453	454	454	452	454	451	441	444	435	437	433	424	428	448	447	445	446	455	448	460	459	451	443	445	446.2		10709.0
7/12/2015	Delta T.	F°	18.2	18.4	18.5	18.5	18.6	18.0	18.3	18.3	17.7	17.1	18.0	18.1	18.4	18.0	18.0	18.1	18.2	18.5	18.6	18.5	18.7	18.8	18.8	18.8	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	447	452	454	454	456	443	449	450	435	421	443	445	451	441	441	443	446	454	456	455	460	462	461	461	449.1		10777.5
7/13/2015	Delta T.	F°	18.8	19.0	18.9	18.3	18.1	17.7	17.6	16.9	16.5	16.2	16.2	16.2	16.3	16.4	17.2	17.8	18.1	18.0	18.6	18.3	18.2	18.3	18.8	18.9	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	462	466	463	448	443	433	432	416	404	397	398	397	400	403	421	436	444	442	456	450	447	449	460	463	434.6		10429.8
7/14/2015	Delta T.	F°	18.5	18.6	18.8	19.0	18.4	17.9	17.8	18.0	17.9	17.6	17.5	17.9	18.0	17.7	18.1	18.4	18.0	18.0	18.6	18.2	18.7	18.3	18.7	18.7	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	454	456	461	465	453	440	437	441	438	432	429	440	442	435	444	452	441	443	456	446	459	450	459	459	447.2		10732.1
7/15/2015	Delta T.	F°	18.8	18.8	18.7	18.3	17.8	17.8	17.6	16.9	17.2	16.9	16.6	17.6	16.8	17.1	16.9	17.2	17.4	17.3	19.0	19.0	18.7	18.7	18.6	18.6	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	460	460	459	449	437	437	432	415	422	414	407	433	412	419	414	422	426	424	465	465	458	460	457	456	437.7		10505.4
7/16/2015	Delta T.	F°	18.7	18.8	18.6	18.3	18.0	18.0	18.2	17.9	18.1	18.5	18.4	18.0	18.3	18.3	18.3	18.3	18.2	18.5	18.8	18.5	18.5	18.4	18.9	18.8	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	459	460	457	450	441	443	446	440	444	455	451	443	448	449	450	449	447	455	462	455	455	452	463	461	451.4		10832.9
7/17/2015	Delta T.	F°	18.8	18.9	18.9	18.9	18.7	18.2	17.8	18.3	18.4	18.2	17.9	18.1	18.4	18.2	18.4	18.5	18.2	18.2	19.0	18.6	18.8	19.1	19.1	19.2	19	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.942	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	462	464	463	463	460	446	437	448	450	448	440	445	452	448	452	453	448	446	465	457	460	469	470	470	454.8		10915.3
7/18/2015	Delta T.	F°	19.2	18.9	18.8	18.9	18.9	18.7	18.6	18.1	18.5	18.7	18.8	18.8	18.7	18.3	18.2	18.6	18.3	18.3	18.4	18.4	18.4	18.6	18.9	19.0	19	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	470	463	462	463	465	459	457	443	455	459	460	460	459	450	446	457	449	449	451	452	452	457	463	466	457.0		10968.7
7/19/2015	Delta T.	F°	18.9	18.9	18.8	18.7	18.5	18.2	18.5	18.6	18.6	18.5	18.2	18.1	18.4	18.7	18.9	18.9	18.9	18.9	19.0	19.1	18.5	18.3	18.4	18.4	19	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	464	464	461	458	454	447	454	457	457	453	447	444	453	458	464	465	464	464	466	469	455	450	452	451	457.1		10969.6
7/20/2015	Delta T.	F°	18.5	19.2	19.0	19.1	18.7	18.2	17.5	16.7	16.7	16.6	17.4	18.0	17.0	17.4	17.3	18.5	19.1	18.5	18.6	18.4	19.2	18.3	18.2	18.0	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	455	470	467	469	459	446	430	409	410	407	427	442	417	427	424	454	468	454	455	452	470	448	446	442	443.7		10649.0
7/21/2015	Delta T.	F°	17.9	17.8	17.9	17.9	17.7	17.5	17.2	17.8	17.4	17.4	17.3	17.3	17.1	16.6	16.8	16.5	15.7	17.0	18.0	17.8	18.2	18.0	18.2	18.5	17	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	440	438	439	440	434	430	422	437	426	426	423	423	419	407	412	404	385	418	442	436	448	442	447	455	428.9		10293.3
7/22/2015	Delta T.	F°	19.0	19.1	18.8	18.9	18.8	18.9	18.1	18.0	18.6	18.1	18.9	18.4	17.8	17.9	17.9	18.0	18.5	18.1	18.6	18.5	18.3	19.0	19.0	19.0	19	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	467	468	462	465	460	464	445	441	456	445	463	451	436	438	439	443	454	445	456	453	450	467	465	466	454.1		10897.8
7/23/2015	Delta T.	F°	19.0	19.1	19.0	19.0	18.6	18.3	18.3	18.7	18.8	18.5	18.2	18.1	18.0	18.2	16.0	16.3	16.6	17.5	17.6	18.0	19.0	19.2	19.1	19.2	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	467	469	467	466	457	448	448	459	461	454	446	445	441	447	394	399	408	429	432	442	466	470	468	472	448.1		10754.1
7/24/2015	Delta T.	F°	19.2	18.7	18.4	18.3	18.0	16.9	16.5	17.0	17.2	17.5	17.9	18.5	19.1	18.3	18.7	18.9	19.0	19.0	19.0	19.0	19.1	19.0	19.2	19.5	18	19	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	472	459	450	449	442	416	405	416	422	428	439	454	468	448	460	464	466	467	466	467	468	466	470	478	451.8		10843.5
7/25/2015	Delta T.	F°	10.4	1.3	0.0	-0.1	-0.2	-0.2	-0.1	-0.1	-0.2	-0.2	-0.3	-0.3	-0.2	-0.2	-0.1	-0.2	-42.3	-80.3	-80.1	-80.0	-79.8	-79.5	-78.9	-78.8	-25	10	
	Total flow	MGH	2.9	2.9	2.6	2.2	2.4	2.3	1.9	1.9	1.9	1.9	1.9	1.5	1.1	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3		
	Heat Rate	mmBTU	255	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.9		286.3
7/26/2015	Delta T.	F°	-78.8	-78.6	-78.4	-78.3	-78.2	-78.0	-78.0	-77.9	-77.8	-77.8	-77.7	-77.7	-77.7	-77.7	-77.7	-77.7	-77.8	-77.8	-77.7	-77.6	-77.6	-77.5	-77.4	-77.4	-78	-77	
	Total flow	MGH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Heat Rate	mmBTU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0		0.0
7/27/2015	Delta T.	F°	-77.4	-77.4	-77.2	-7.7	6.3	3.0	0.9	1.4	0.4	-0.1	-0.2	0.3	5.5	8.8	7.7	7.8	7.9	7.9	8.8	13.7	16.5	16.5	17.0	17.2	-4	17	
	Total flow	MGH	0.0	0.0	0.0	0.4	0.5	1.0	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.4		
	Heat Rate	mmBTU	0	0	0	0	28	25	10	15	4	0	0	5	85	137	119	121	123	123	137	213	256	256	264	267	91.2		2188.6
7/28/2015	Delta T.	F°	16.8	14.5	12.0	11.9	12.2	11.7	12.0	11.0	10.8	10.8	10.5	10.2	10.0	10.4	10.2	10.9	12.1	14.0	16.5	17.0	17.2	17.3	17.7	17.1	13	18	
	Total flow	MGH	1.9	2.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	261	292	295	292	299	287	294	270	264	264	257	250	245	254	250	267	297	344	405	417	421	425	434	419	312.7		7505.7
7/29/2015	Delta T.	F°	15.8	15.9	16.0	16.3	16.1	14.0	14.0	16.1	16.5	16.1	15.4	15.1	15.1	15.1	15.4	15.4	15.3	15.1	15.5	15.8	15.6	15.9	16.5	16.5	16	17	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	388	389	392	400	396	344	343	394	405	395	379	369	371	370	378	379	376	370	379	387	384	390	404	406	382.9		9188.8
7/30/2015	Delta T.	F°	16.1	16.1	16.2	16.2	15.9	16.1	15.6	15.6	15.6	15.8	15.5	15.7	15.7	15.4	15.2	15.2	15.1	15.0	14.8	14.1	15.6	16.0	16.0	16.0	16	16	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	396	396	398	396	390	395	383	384	384	387	382	384	385	378	372	373	370	369	363	347	383	392	392	392	382.9		9189.2
7/31/2015	Delta T.	F°	16.1	16.2	16.2	16.3	16.7	16.9	16.1	16.3	15.9	15.7	15.9	15.8	15.6	15.5	15.4	15.8	15.9	15.9	16.1	16.2	16.8	17.0	17.0	16.1	16	17	
	Total flow	MGH	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
	Heat Rate	mmBTU	394	398	397	399	411	415	394	400	391	386	391	388	383	380	377	388	391	390	395	397	413	416	416	394	396.0		9503.6
																													9275.0

Kendall Green Energy, LLC
265 First Street
Cambridge, MA 02142
T 617 679 4800

NPDES Permit No. MA0004898
Kendall Green Energy, LLC
Daily Flow Summary
Outfall 009

	Total Flow (MGD)	
7/1/2015	0.000	
7/2/2015	0.000	
7/3/2015	0.000	
7/4/2015	0.000	
7/5/2015	0.000	
7/6/2015	0.000	
7/7/2015	0.000	
7/8/2015	0.000	
7/9/2015	0.000	
7/10/2015	0.000	
7/11/2015	0.000	
7/12/2015	0.000	
7/13/2015	0.000	
7/14/2015	0.000	
7/15/2015	0.000	
7/16/2015	0.000	
7/17/2015	0.000	
7/18/2015	0.000	
7/19/2015	0.000	
7/20/2015	0.000	
7/21/2015	0.000	
7/22/2015	0.000	*
7/23/2015	0.087	
7/24/2015	0.211	
7/25/2015	0.179	
7/26/2015	0.006	
7/27/2015	0.198	
7/28/2015	0.441	
7/29/2015	0.652	
7/30/2015	0.209	
7/31/2015	0.207	
Total Monthly	2.189	
Monthly Avg	0.243	
Monthly Max	0.652	
Monthly Min	0.006	

Note: * Discharge began on 7/22/15 from RO and UF systems.
7/22/15 flow calculated from delta of sanitary flow before and after starting 009 discharge.

Kendall Green Energy, LLC
265 First Street
Cambridge, MA 02142
T 617 679 4800

NPDES Permit No. MA0004898
Kendall Greene Energy, LLC
Weekly TSS, Oil and Greese and TRC Sampling Outfall 009

TSS Sample Results		Oil and Greese Sample Results		Total Residual Chlorine Sample Results*	
Sample Date	TSS mg/l	Sample Date	Oil and Greese mg/l	Sample Date	TRC mg/l*
7/22/2015	<2.0	7/22/2015	1.8	NA	
7/29/2015	<2.0	7/30/2015	0.9	NA	
Montly Avg	<2.0	Monthly Avg	1.35	Monthly Avg	

* Sampled durring chlorination events only.
NA - Not Applicable, No chlorination performed

Kendall Green Energy, LLC
265 First Street
Cambridge, Massachusetts 02142

Mr. George Harding
EPA New England, MC OES04-4 5
Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

July 13, 2015

Mr. David Ferris, Director
Massachusetts Waste Water Program
Massachusetts Department of Environmental Protection
One Winter Street
Boston, Massachusetts 02108

Delivery: By Email with Overnight Mail to Follow

RE: Kendall Green Energy, LLC
NPDES Permit No. MA0004898

Dear Mr. Harding and Mr. Ferris:

As a follow up to our meeting with Mr. Papadopoulos on May 4, 2015, Kendall Green Energy, LLC ("Kendall") discussed the following: 1) the existing NPDES Permit No. M0004898 authorizes the discharge of the Carriage House reverse osmosis ("RO") and ultra filtration ("UF") reject and backwash wastewater sources through any combination of Outfalls 001, 002, 003 and 004 to the Charles River; 2) updating the Table 1 of the Permit Treatment Chemicals used at Kendall Green Energy; and 3) installation of a new RO and UF water treatment system.

Kendall intends begin to begin to discharge RO and UF reject and backwash wastewater sources through Outfall 009 which leads to Outfalls 001 and 002 starting the week of July 20, 2015. Kendall will fully comply with the NPDES permit conditions including the effluent limitations and monitoring requirements in Part I.A1 and Part I.A.3. As confirmed in our May 4, 2015 meeting, effluent samples for the monitoring of discharge limitations contained in the table in Part I.A.1 will be collected from the combined Outfalls of 001 and 002, which is downstream of the internal outfall (Outfall 009). Effluent samples for the monitoring of discharge limitations contained in the table in Part I.A.3 will be collected from Outfall 009 prior to combining with Outfall 001 and 002 (refer to attached process flow diagram). Sample results will be reported to the applicable agencies through Net DMR reporting systems.

Kendall is updating the existing approved chemicals listed in Table 1 of our NPDES permit with the addition of Rocide Biocide which is a low dose biocide to prevent biofouling of the RO and UF membranes. Sodium Hypochlorite will no longer be used in the existing RO and UF system but will be used in new RO and UF system being installed in 2015. Attached is a revised Table 1 with updated Safety Data Sheets.

Lastly, Kendall is in the process of installing a new water treatment system to supplement the existing system. The new system will use river water according to the consumptive use limitations in the existing NPDES Permit, as feed water and will discharge RO, UF and electro-deionization ("EDI") backwash and reject wastewater to Outfalls 001 and 002. This source will combine with the Carriage House source prior to internal Outfall 009.

All of these changes were discussed with Mr. George Papadopoulos USEPA Region 1 on May 4, 2015 and will be addressed in the upcoming Kendall NPDES permit renewal application due July 31, 2015.

If you have any questions or comments please feel free to contact me at 857-401-9806 or at scott.mcburney@veolia.com, or Sean Caldwell, EH&S Director at 857-401-9842 or at sean.caldwell@veolia.com.

Sincerely,

R. Scott McBurney
Veolia - VP of Operations

CC
E. Goldman, USEP A - Region 1
D. Webster, USEPA-Region 1
G. Papadopoulos, USEPA -Region 1
P. Weinberg, MassDEP -Boston
R. Brown, MassDEP -Boston
J. Harrison, Kendall - Veolia
S. Caldwell, Veolia