GZA
GeoEnvironmental, Inc.

Engineers and Scientists

July 13, 2010
File No. 43654.00

Ms. Annie McFarland
RI Department of Environmental Management
Office of Water Resources
235 Promenade Street
Providence, Rhode Island 02908-5767

Re: Discharge Monitoring Report - Quarter 2
RIPDES Permit **No. RIG85E001**
Former Tidewater Facility
200 Taft Street
Pawtucket, Rhode Island

530 Broadway
Providence
Rhode Island 02909
(401) 421-4140
Fax (401) 751-8613
www.gza.com

Dear Ms. McFarland:

On behalf of our Client, The Narragansett Electric Company d/b/a National Grid (National Grid), GZA GeoEnvironmental, Inc. (GZA) is submitting this quarterly Rhode Island Pollutant Discharge Elimination System - Discharge Monitoring Report (RIPDES-DMR) for the permitted discharge of stormwater accumulated in former Gas Holder Nos. 7 and 8 at the Former Tidewater facility located in Pawtucket, Rhode Island (herein referred to as the "Site"). The discharge is directed to the Seekonk River. This report covers the period from April 1, 2010 through June 30, 2010 (Quarter 2). A completed RIPDES-DMR form for this reporting period is included as Attachment A.

SYSTEM OPERATION AND MAINTENANCE

The stormwater treatment system was installed at the Site by GZA in March of 2010 and began operation on April 7, 2010. During the current reporting period, the treatment system operated approximately 80% of the time. Periodic shutdowns of the treatment system occurred during this monitoring period, primarily due to operation and maintenance issues and initial laboratory results. The system was shut down pending laboratory results from April 9 to April 12, 2010 and from April 20 to April 21, 2010. The system was shut down from June 8 to June 16, 2010 for system maintenance related to replacement of the ion exchange resins. The system also experienced several automated shutdowns due to high pressure alarms located at various points in the system. A summary of notes related to system operation and maintenance is included in Table 1.

SYSTEM FLOW RATE AND VOLUME

Approximately 6,302,377 gallons of groundwater was treated, and discharged during the monitoring period for a cumulative system treatment flow of 6,302,377 gallons since system start up on April 7, 2010. The maximum average daily discharge rate to the Seekonk River during this quarter was approximately 79.8 gallons per minute (gpm), which is within the limit (100 gpm) of the RIPDES permit, dated December 9, 2009. The average daily flow rate was calculated by dividing the gallons discharged by the number of days between monitoring dates that the system was operating. The average discharge rate over the current 3 month monitoring period was 52.1 gpm. A summary of system discharge data is provided in Table 1.

SYSTEM SAMPLING

In accordance with the permit conditions, the stormwater treatment system influent and effluent shall be sampled on the first, third and sixth day, then weekly for the first month and twice per month, thereafter. Since the start up of operations on April 7, 2010, the stormwater treatment system influent and effluent has been sampled in accordance with the permit conditions. Refer to Tables 2 and 3 for the influent and effluent laboratory results, respectively. All samples were submitted to ESS Laboratory of Cranston, Rhode Island for analytical testing of volatile organic compounds (VOCs) using EPA Method 8260B; polynuclear aromatic hydrocarbons (PAHs) using EPA Method 8270C; metals (copper, iron, lead and zinc) using EPA Method 200.7 and 3133B; total suspended solids using EPA Method SM-2540D; total cyanide using EPA Method SM 4500CN; and total petroleum hydrocarbon (TPH) using Modified EPA Method 8100.

SYSTEM SAMPLING RESULTS

No constituents were identified above the applicable RIPDES permit limits, for the effluent samples collected during the current reporting period with the following exceptions.

- On April 9, 2010, GZA received the April 7, 2010 laboratory test results for the treatment system effluent, which indicated a TPH concentration (1,700 µg/L) above the maximum daily discharge limit (1,000 µg/L). Given these results, on April 9, 2010, RIDEM was notified; the system influent and effluent were resample for VOCs, SVOCs, TPH, metals and cyanide and the system was shut down pending laboratory results. The laboratory test results for the treated effluent collected on April 9 and received by GZA on April 12, 2010 did not detect any constituents above the applicable RIPDES permit limits. RIDEM was notified and the system was restarted based on RIDEM's approval. In accordance with RIDEM's request, the sampling and analysis program was reinitiated at Day-1.

- On April 20, 2010, GZA received the April 17, 2010 laboratory test results for the treatment system which suggested that clean water was entering the system and contaminated water was being discharged. RIDEM was notified and the system was resample and shut down. A visual inspection of the remaining samples at the laboratory displayed brown tinted water in the effluent bottles and clear water in the influent, which appeared to be caused by mislabeled sample containers. The laboratory results for the sample collected on April 20 confirmed that the samples collected on April 17, 2010 were mislabeled. After a discussion with and approval from RIDEM, the system was restarted on April 21, 2010.

- On June 8, 2010, GZA received the June 1, 2010 laboratory test results for the treatment system effluent, which indicated a concentration of zinc (100 µg/L) above the maximum daily discharge limit of 76.11 µg/L. Given these results, on June 8, 2010, RIDEM was notified; the system was re-sampled for metals and shut down pending sample results. Based on the presence of low level zinc concentrations detected between the cation resins on June 8, 2010 and the initial effluent zinc exceedance on June 1, 2010, RIDEM requested that both cation units be replaced. The system remained off until June 16, 2010 when both of the 100-cubic foot cation ion vessels were changed out. After the ion resin change out the system was restarted, per RIDEM's request, compliance samples were collected on June 16, 2010 after the system processed approximately 4,000 gallons of water. The laboratory test results for the treated effluent collected on June 16 (and received by GZA on June18, 2010) did not detect any constituents above the applicable RIPDES permit limits.

Laboratory Certificates of Analysis and Chain-of-Custody documentation have not been included in this report, but are available upon request.

Please feel free to call or email Stephen Andrus or Margaret Kilpatrick at (401) 421-4140 or at stephen.andrus@gza.com or Margaret.Kilpatrick@gza.com, if you have any questions.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Stephen M. Andrus, P.E.
Assistant Project Manager

Margaret S. Kilpatrick, P.E.
Senior Project Manager

James J. Clark, LEP, P.E.
Principal

SMA/MSK:tja

Attachments: Table 1 – Operating System Log
Table 2 – Influent Results
Table 3 – Effluent Results
Attachment A – RIPDES-DMR Form

cc: Michele Leone – National Grid
Brian LaFaille – RIDEM Office of Water Resources

Former Tidewater Facility
Pawtucket, RI
Job #43654.00 T-028

TABLE 1
OPERATING SYSTEM LOG
GAS HOLDER DEWATERING SYSTEM

Date	Time	Personnel	System Operating (Yes/No)	Total Gallons	Avg. Daily (gpm)	Influent Sampling (Yes/No)	Effluent Sampling (Yes/No)	Notes
04/07/10	13:00	SMA	Y	0	0.0	Y	Y	System Startup-Day 1
04/08/10	13:45	SMA	Y	94,220	63.4	N	N	
04/09/10	7:30	EMB	Y	165,757	71.2	Y	Y	System Shut Down After Sampling-Day-3
04/12/10	15:50	SMA	N	174,718	74.7	Y	Y	System Re-Started and Sampled-Day 1
04/13/10	13:50	SMA	Y	265,360	68.7	N	N	
04/14/10	8:40	SMA	Y	344,785	72.5	Y	Y	Day-3 sample
04/15/10	8:40	SMA	Y	444,858	69.5	N	N	
04/16/10	15:45	MB	N	554,303	58.7	N	N	High Pressure Shut System Down at 3:20 on04/16/10
04/17/10	12:15	MB	N	620,202	53.6	Y	Y	High Pressure Shut System Down at 6:00 on 04/17/10-Day 6
04/19/10	10:50	SMA	Y	792,143	61.5	N	N	
04/20/10	10:15	SMA	Y	893,438	72.1	Y	Y	System Shut Down After Sampling-Week 2
04/21/10	16:00	SMA	N	893,438	0.0	N	N	System Re-Started
04/23/10	12:20	SMA	Y	1,099,140	77.3	N	N	
04/26/10	10:40	SMA	Y	1,397,649	69.4	N	N	
04/27/10	9:00	SMA	Y	1,484,025	64.5	Y	Y	Sampled Lead Carbon and Ion Vessels-Week 3
04/28/10	9:00	SMA	Y	1,585,833	70.7	N	N	
04/30/10	13:00	SMA	N	1,794,824	67.0	N	N	High Pressure Shut System Down at 0:15 on 4/30/10
05/03/10	9:00	SMA	Y	2,088,898	72.1	N	N	
05/04/10	9:00	SMA	Y	2,190,557	70.6	Y	Y	Sampled Lead Carbon and Ion Vessels-Week 4
05/06/10	9:00	SMA	Y	2,391,086	69.6	N	N	
05/07/10	12:00	SMA	Y	2,501,360	68.1	N	N	
05/10/10	10:30	SMA	Y	2,780,730	66.0	N	N	
05/12/10	9:00	SMA	Y	2,949,206	60.4	N	N	
05/13/10	16:30	SMA	Y	3,061,877	59.6	N	N	
05/14/10	15:45	MB	Y	3,155,135	66.9	N	N	
05/17/10	10:00	SMA	Y	3,373,833	64.8	N	N	
05/18/10	9:00	SMA	Y	3,458,962	61.7	Y	Y	Sampled Lead Carbon and Ion Vessels-Week 6
05/21/10	10:00	SMA	Y	3,731,258	62.2	N	N	
05/24/10	9:45	MB	Y	3,957,580	52.6	N	N	
05/26/10	17:00	SMA	Y	4,051,044	28.2	N	N	GH-7 Pump Needs to be Lowered-Not Pumping
05/28/10	14:30	SMA	N	4,084,729	12.3	N	N	System Down-No Alarm Was sent
06/01/10	9:30	SMA	Y	4,404,836	58.6	Y	Y	Sampled Lead Carbon and Ion Vessels-Week 8
06/04/10	9:00	SMA	Y	4,650,620	57.3	N	N	
06/07/10	9:45	SMA	Y	4,920,300	61.8	N	N	
06/08/10	13:30	SMA	Y	5,020,300	60.1	Y	Y	System Shut Down-Re-Sampled for Metals
06/16/10	12:00	SMA	N	5,020,300	0.0	Y	Y	System Re-Started-Sampled Lead Carbon and Ion Vessels-Week 10
06/17/10	12:00	SMA	Y	5,135,220	79.8	N	N	
06/18/10	15:00	SMA	Y	5,250,642	71.2	N	N	
06/21/10	9:00	SMA	N	5,435,050	46.6	N	N	High Pressure Shut System Down at 21:30 on 06/20/10
06/23/10	7:30	SMA	N	5,623,514	67.5	N	N	High Pressure Shut System Down at 4:30 on 06/23/11
06/25/10	12:00	SMA	Y	5,820,879	62.7	N	N	Sampled Influent, Effluent and Ion Vessels for Metals
06/28/10	9:15	MB	Y	6,113,783	70.5	N	N	
06/30/10	9:45	SMA	N	6,257,343	49.3	N	N	High Pressure Shut System Down at 21:30 ON 06/29/10
07/01/10	14:30	MB	Y	6,302,377	26.1	N	N	High Pressure Shut System Down at 21:30 ON 06/30/10

Former Tidewater Facility
Pawtucket, RI
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TABLE 2
INFLUENT LABORATORY RESULTS SUMMARY

SAMPLE LOCATION		RIDEM Remedial RIPDES		Method Reporting Limit (Typical)	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Quarterly Average	Daily Maximum
SAMPLE DATE	Units	Category E Discharge Limits			4/7/2010 (Day-1)	4/9/2010 (Day-3)	4/12/2010 (Day-1)	4/14/2010 (Day-3)	4/17/2010 (Day-6)	4/20/2010# (Week-2)	4/27/2010 (Week-3)	5/04/2010 (Week-4)	5/18/2010 (Week-6)	6/01/2010 (Week-8)	6/8/2010	6/16/2010 (Week-10)	6/25/2010	April - June 2010	April - June 2010
		Average Monthly	Maximum Daily																
Iron	µg/L	NS	1,000	100	459	877	1,180	902	853	855	899	969	434	383	418	1,810	502	810.8	1,810
Zinc	µg/L	68.5	76.11	50	225	ND	55	ND	ND	ND	ND	ND	ND	88	ND	ND	28	65.1	225
Copper	µg/L	2.98	4.62	5	ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	9.3	ND	5.2	9.3
Lead	µg/L	6.81	176.6	5	23.0	21.8	12.1	26.9	6.3	22.0	32.7	22.9	27.0	39.1	ND	31.0	41.0	23.3	39.1
Total Suspended Solids	µg/L	30,000	NS	5,000	ND	ND	5,000	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	5,000	5,000
Total Cyanide (LL)	µg/L	10*	10*	5	ND	24.3	30.4	25.0	25.0	27.7	25.7	28.8	25.2	27.8	NT	22.3	NT	24.3	30.4
Total Petroleum Hydrocarbons	µg/L	NS	1,000	200	815	942	631	1,140	930	1,450	1,020	1,260	1,160	391	NT	498	NT	930.6	1,450
Benzene	µg/L	5	5	1	ND	6.6	1.3	5.8	5.3	4.8	5.0	6.4	6.2	1.6	NT	ND	NT	4.1	6.6
Ethylbenzene	µg/L	1,680	NS	1	ND	16.4	ND	16.3	14.8	13.9	15	18.7	15.6	ND	NT	ND	NT	10.4	18.7
Toluene	µg/L	12,000	NS	1	ND	32.9	5.5	33.3	31	29.3	33.3	42.3	36.7	ND	NT	ND	NT	22.5	42.3
Xylene O	µg/L	NS	NS	1	ND	32.2	15.3	33.6	30.4	31.1	31.5	38.9	30	ND	NT	ND	NT	22.4	38.9
Xylene P,M	µg/L	NS	NS	2	ND	73.8	15.0	78.8	69.9	69.8	73.4	93.5	71.8	ND	NT	ND	NT	50.2	93.5
Xylenes (Total)	µg/L	NS	NS		ND	106.0	30.3	112.4	100.3	100.9	104.9	132.4	101.8	ND	NT	ND	NT	72.5	132.4
TOTAL BTEX	µg/L	100	100		ND	161.9	37.1	167.8	151.4	148.9	158.2	199.8	160.3	1.6	NT	ND	NT	109.5	199.8
2-Methylnaphthalene	µg/L	NS	NS	0.2	ND	3.8	ND	4.0	3.8	3.8	4.5	5.8	3.5	ND	NT	ND	NT	2.7	5.8
Acenaphthene	µg/L	1.9	1.9	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<0.2	<0.2
Acenaphthylene	µg/L	NS	NS	0.2	ND	ND	ND	ND	ND	ND	ND	0.3	ND	ND	NT	ND	NT	0.2	0.3
Anthracene	µg/L	32,000	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<0.2	<0.2
Benzo(g,h,i)perylene	µg/L	NS	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<0.2	<0.2
Fluoranthene	µg/L	112	NS	0.2	ND	ND	ND	ND	ND	0.23	ND	0.21	0.21	ND	NT	ND	NT	0.2	0.23
Fluorene	µg/L	4,240	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<0.2	<0.2
Naphthalene	µg/L	NS	20	0.2	ND	40.7	ND	11.8	32.8	29.1	37.5	41.4	26.3	0.6	NT	ND	NT	20.1	40.7
Phenanthrene	µg/L	NS	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<0.2	<0.2
Pyrene	µg/L	3,200	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<0.2	<0.2
TOTAL TYPE II PAHS	µg/L	10**	100		ND	44.5	ND	15.8	36.6	33.1	42.0	47.7	30.0	0.6	NT	ND	NT	23.2	47.7

* Footnote 5 of Table 15, Discharge Category E states the limit at which compliance/noncompliance determinations will be based is the Quantitation Limit which is defined as 10 µg/L for Cyanide.
** Footnote 5 of Table 15, Discharge Category E states the limit at which compliance/noncompliance determinations will be based is the Quantitation Limit which is defined as 10 µg/L for Total Polycyclic Aromatic Hydrocarbons..
NS = No Compliance Standard listed in Table 15, for Discharge Category E
ND = Compound not detected above method detection limit
NT = Not Tested
# denote some sample container were mis-labeled in the field, results shown have been corrected.

Former Tidewater Facility
Pawtucket, RI
Job # 43654.00 T-028

TABLE 3
EFFLUENT LABORATORY RESULTS SUMMARY

SAMPLE LOCATION		RIDEM Remedial RIPDES		Method Reporting Limit (Typical)	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Quarterly Average	Daily Maximum
SAMPLE DATE	Units	Category E Discharge Limits			4/7/2010 (Day-1)	4/9/2010 (Day-3)	4/12/2010 (Day-1)	4/14/2010 (Day-3)	4/17/2010 (Day-6)	4/20/2010# (Week-2)	4/27/2010 (Week-3)	5/04/2010 (Week-4)	5/18/2010 (Week-6)	6/01/2010 (Week-8)	6/8/2010	6/16/2010 (Week-10)	6/25/2010	April - June 2010	April - June 2010
		Average Monthly	Maximum Daily																
Iron	µg/L	NS	1,000	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<100	<100
Zinc	µg/L	68.5	76.11	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	**100**	ND	ND	ND	54.2	**100**
Copper	µg/L	2.98	4.62	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5	<5
Lead	µg/L	6.81	176.6	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5	<5
Total Suspended Solids	µg/L	30,000	NS	5,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<5,000	<5,000
Total Cyanide (LL)	µg/L	10*	10*	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<5	<5
Total Petroleum Hydrocarbons	µg/L	NS	1,000	200	**1,700**	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	336.4	**1,700**
Benzene	µg/L	5	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<1	<1
Ethylbenzene	µg/L	1,680	NS	1	7.9	ND	1.8	ND	ND	ND	ND	ND	ND	ND	NT	1.4	NT	1.7	7.9
Toluene	µg/L	12,000	NS	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<1	<1
Xylene O	µg/L	NS	NS	1	5.6	ND	1.2	ND	ND	ND	ND	ND	1.4	ND	NT	2.2	NT	1.6	5.6
Xylene P,M	µg/L	NS	NS	2	22.2	ND	3.6	ND	ND	ND	ND	ND	ND	ND	NT	6.9	NT	4.4	22.2
Xylenes (Total)	µg/L	NS	NS		27.8	ND	4.8	ND	ND	ND	ND	ND	1.4	ND	NT	9.1	NT	6.0	27.8
TOTAL BTEX	µg/L	100	100		35.7	ND	6.6	ND	ND	ND	ND	ND	1.4	ND	NT	10.5	NT	8.7	35.7
2-Methylnaphthalene	µg/L	NS	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<.2	<.2
Acenaphthene	µg/L	1.9	1.9	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<.2	<.2
Acenaphthylene	µg/L	NS	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<.2	<.2
Anthracene	µg/L	32,000	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<.2	<.2
Benzo(g,h,i)perylene	µg/L	NS	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<.2	<.2
Fluoranthene	µg/L	112	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<.2	<.2
Fluorene	µg/L	4,240	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<.2	<.2
Naphthalene	µg/L	NS	20	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<.2	<.2
Phenanthrene	µg/L	NS	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<.2	<.2
Pyrene	µg/L	3,200	NS	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<.2	<.2
TOTAL TYPE II PAHS	µg/L	10**	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	<.2	<.2

* Footnote 5 of Table 15, Discharge Category E states the limit at which compliance/noncompliance determinations will be based is the Quantitation Limit which is defined as 10 µg/L for Cyanide.
** Footnote 5 of Table 15, Discharge Category E states the limit at which compliance/noncompliance determinations will be based is the Quantitation Limit which is defined as 10 µg/L for Total Polycyclic Aromatic Hydrocarbons..
NS = No Compliance Standard listed in Table 15, for Discharge Category E
ND = Compound not detected above method detection limit
NT = Not Tested
# denote some sample container were mis-labeled in the field, results shown have been corrected.

ATTACHMENT A

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: NARRAGANSETT ELECTRIC CO.
ADDRESS: 40 SYLVAN ROAD
WALTHAM, MA 02451
FACILITY: FORMER TIDEWATER FACILITY
LOCATION: 200 TAFT STREET
PAWTUCKET, RI 02860

ATTN: MICHELE LEONE, NE SITE MGR.

RIG85E001	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2010	TO	06/30/2010

DMR Mailing ZIP CODE: 02860
MINOR

External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	< 5,000	******	< 5,000	ug/L	Ø	2/m	Grab
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	30000 MO AVG	******	Req. Mon. DAILY MX	ug/L		Twice Per Month	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	5,000	******	5,000	ug/L	Ø	2/m	Grab
00530 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	< 5	******	< 5	ug/L	Ø	2/m	Grab
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	10 MO AVG	******	10 DAILY MX	ug/L		Twice Per Month	GRAB
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	30.4	******	24.3	ug/L	Ø	2/m	Grab
00720 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Iron, total recoverable	SAMPLE MEASUREMENT	******	******	******	< 100	******	< 100	ug/L	Ø	2/m	Grab
00980 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	1000 DAILY MX	ug/L		Twice Per Month	GRAB
Iron, total recoverable	SAMPLE MEASUREMENT	******	******	******	836	******	1,810	ug/L	Ø	2/m	Grab
00980 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	******	******	< 5	******	< 5	ug/L	Ø	2/m	Grab
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	3 MO AVG	******	4.62 DAILY MX	ug/L		Twice Per Month	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
JOHN P HARRAD	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	John P Harrad	401	4272727	7/13/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: NARRAGANSETT ELECTRIC CO.
ADDRESS: 40 SYLVAN ROAD
WALTHAM, MA 02451
FACILITY: FORMER TIDEWATER FACILITY
LOCATION: 200 TAFT STREET
PAWTUCKET, RI 02860

ATTN: MICHELE LEONE, NE SITE MGR.

RIG85E001	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2010	TO	06/30/2010

DMR Mailing ZIP CODE: 02860
MINOR

External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	******	******	5.2	******	9.3	ug/L	Ø	2/m	Grab
01042 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Zinc, total recoverable	SAMPLE MEASUREMENT	******	******	******	54.5	******	100	ug/L	1	2/m	Grab
01094 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	68.5 MO AVG	******	76.11 DAILY MX	ug/L		Twice Per Month	GRAB
Zinc, total recoverable	SAMPLE MEASUREMENT	******	******	******	68.2	******	225	ug/L	Ø	2/m	Grab
01094 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Lead, total recoverable	SAMPLE MEASUREMENT	******	******	******	< 5	******	< 5	ug/L	Ø	2/m	Grab
01114 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.81 MO AVG	******	176.6 DAILY MX	ug/L		Twice Per Month	GRAB
Lead, total recoverable	SAMPLE MEASUREMENT	******	******	******	22.5	******	39.1	ug/L	Ø	2/m	Grab
01114 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Benzene, ethylbenzene, toluene, xylene combination	SAMPLE MEASUREMENT	******	******	******	7.7	******	35.7	ug/L	Ø	2/m	Grab
30383 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	100 MO AVG	******	100 DAILY MX	ug/L		Twice Per Month	GRAB
Benzene, ethylbenzene, toluene, xylene combination	SAMPLE MEASUREMENT	******	******	******	109.5	******	199.8	ug/L	Ø	2/m	Grab
30383 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
JOHN P. HARTLEY	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	401	427 2727	07/13/2010
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

See attached Report for Zinc exceedance discussion.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: NARRAGANSETT ELECTRIC CO.
ADDRESS: 40 SYLVAN ROAD
WALTHAM, MA 02451

FACILITY: FORMER TIDEWATER FACILITY
LOCATION: 200 TAFT STREET
PAWTUCKET, RI 02860

ATTN: MICHELE LEONE, NE SITE MGR.

RIG85E001	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2010	TO	06/30/2010

DMR Mailing ZIP CODE: 02860
MINOR

External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Toluene	SAMPLE MEASUREMENT	******	******	******	< 1.00	******	< 1.0	ug/L	Ø	2/M	Grab
34010 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	12000 MO AVG	******	Req. Mon. DAILY MX	ug/L		Twice Per Month	GRAB
Toluene	SAMPLE MEASUREMENT	******	******	******	22.5	******	42.3	ug/L	Ø	2/M	Grab
34010 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Benzene	SAMPLE MEASUREMENT	******	******	******	< 1.0	******	< 1.0	ug/L	Ø	2/M	Grab
34030 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	5 MO AVG	******	5 DAILY MX	ug/L		Twice Per Month	GRAB
Benzene	SAMPLE MEASUREMENT	******	******	******	4.1	******	6.6	ug/L	Ø	2/M	Grab
34030 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Ethylbenzene	SAMPLE MEASUREMENT	******	******	******	1.7	******	7.9	ug/L	Ø	2/M	Grab
34371 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	1680 MO AVG	******	Req. Mon. DAILY MX	ug/L		Twice Per Month	GRAB
Ethylbenzene	SAMPLE MEASUREMENT	******	******	******	10.4	******	18.7	ug/L	Ø	2/M	Grab
34371 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Naphthalene	SAMPLE MEASUREMENT	******	******	******	< 0.2	******	< 0.2	ug/L	Ø	2/M	Grab
34696 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	20 DAILY MX	ug/L		Twice Per Month	GRAB

JOHN P. HARTLEY

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
J P Hartley	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	J P Hartley	401	4272727	07/13/2010
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: NARRAGANSETT ELECTRIC CO.
ADDRESS: 40 SYLVAN ROAD
WALTHAM, MA 02451
FACILITY: FORMER TIDEWATER FACILITY
LOCATION: 200 TAFT STREET
PAWTUCKET, RI 02860

ATTN: MICHELE LEONE, NE SITE MGR.

RIG85E001	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2010	TO	06/30/2010

DMR Mailing ZIP CODE: 02860
MINOR

External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Naphthalene	SAMPLE MEASUREMENT	******	******	******	20.1	******	40.7	ug/L	Ø	2/m	Grab
34696 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	******	******	******	57.8	******	79.8	gal/min	Ø	Continuous	TOTALZ
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	100 DAILY MX	gal/min		Continuous	TOTALZ
Total Group II Polycyclic Aromatic Hydrocarbons	SAMPLE MEASUREMENT	******	******	******	<0.2	******	<0.2	ug/L	Ø	2/m	Grab
51615 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	10 MO AVG	******	100 DAILY MX	ug/L		Twice Per Month	GRAB
Total Group II Polycyclic Aromatic Hydrocarbons	SAMPLE MEASUREMENT	******	******	******	23.2	******	47.7	ug/L	Ø	2/m	Grab
51615 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Hydrocarbons, total petroleum	SAMPLE MEASUREMENT	******	******	******	336.4	******	1,700	ug/L	1	2/m	Grab
82181 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	1000 DAILY MX	ug/L		Twice Per Month	GRAB
Hydrocarbons, total petroleum	SAMPLE MEASUREMENT	******	******	******	931	******	1,450	ug/L	Ø	2/m	Grab
82181 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Xylene, meta & para in combination	SAMPLE MEASUREMENT	******	******	******	6.0	******	27.8	ug/L	Ø	2/m	Grab
85795 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Twice Per Month	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

See attached Report for TPH exceedance discussion.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: NARRAGANSETT ELECTRIC CO.
ADDRESS: 40 SYLVAN ROAD
WALTHAM, MA 02451
FACILITY: FORMER TIDEWATER FACILITY
LOCATION: 200 TAFT STREET
PAWTUCKET, RI 02860

ATTN: MICHELE LEONE, NE SITE MGR.

RIG85E001	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2010	TO	06/30/2010

DMR Mailing ZIP CODE: 02860
MINOR

External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Xylene, meta & para in combination	SAMPLE MEASUREMENT	******	******	******	72.5	******	132.4	ug/L	Ø	4/m	Comb
85795 G 0 Raw Sewage Influent	PERMIT REQUIREMENT	******	******	******	Req. Mon. MO AVG	******	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
JOHN P. HARTLEY	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	401 427 2727		07/13/2010
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR) - Summary

Last Refresh: 1/19/2010

Report Selection Criteria:

Beginning Monitoring Period End Date: 04/2010

Months to Print: 3 Months

Major/Minor Indicator(s): MINOR

NPDES ID(s): RIG85E001

Permitted Feature ID(s): *

Limit Set ID(s): *

State Code(s): RI

State-Region(s): *

Issuing Agency(ies): *

Print DMR Information: No

Permittee Address: Permittee

Exclude Electronic DMR Submitters: No

Permit UDF5(s): *

NPDES ID
RIG85E001

Total Number of NPDES ID(s): 1