Jennifer Brooks Hutchinson
Senior Counsel

September 5, 2014

VIA HAND DELIVERY & ELECTRONIC MAIL

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

RE: Docket 4514 - 2014 Distribution Adjustment Charge (DAC)
Responses to Division Data Requests – Set 1

Dear Ms. Massaro:

On behalf of National Grid,[1] I am enclosing ten (10) copies of the Company's responses to the first set of data requests issued by the Rhode Island Division of Public Utilities and Carriers on August 15, 2014 in the above-referenced docket.

This filing also contains a Motion for Protective Treatment in accordance with Rule 1.2(g) of the Commission's Rules of Practice and Procedure and R.I.G.L. § 38-2-2(4)(B). The Company seeks protection from public disclosure of certain customer information, which is provided in the Company's response to Division 1-16. Accordingly, the Company has provided the PUC with the un-redacted confidential Division 1-16 for its review, and has included redacted copies of this response in the filing.

Thank you for your attention to this filing. If you have any questions, please contact me at (401) 784-7288.

Very truly yours,

Jennifer Brooks Hutchinson

Enclosure

cc: Docket 4514 Service List
Leo Wold, Esq.
Steve Scialabba
Bruce Oliver

[1] The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

280 Melrose Street, Providence, RI 02907
T: 401-784-7288 ■ jennifer.hutchinson@nationalgrid.com ■ www.nationalgrid.com

Certificate of Service

I hereby certify that a copy of the cover letter and/or any materials accompanying this certificate was electronically transmitted to the individuals listed below.

Bound versions of this filing are being hand delivered to the RI Public Utilities Commission and the RI Division of Public Utilities and Carriers.

Pamela V. Corpora

Pamela V. Corpora

September 5, 2014
Date

Docket No. 4514 – National Grid –2014 Annual Distribution Adjustment Charge Filing ("DAC") - Service List as of 8/27/14

Name/Address	E-mail	Phone
Jennifer Brooks Hutchinson, Esq. National Grid 280 Melrose St. Providence, RI 02907	Jennifer.hutchinson@nationalgrid.com Celia.obrien@nationalgrid.com Joanne.scanlon@nationalgrid.com	401-784-7667
Yi-An Chen National Grid	Yi-an.Chen@nationalgrid.com Ann.leary@nationalgrid.com	
William R. Richer National Grid	William.richer@nationalgrid.com	
Leo Wold, Esq. Dept. of Attorney General 150 South Main St. Providence RI 02903	LWold@riag.ri.gov Sscialabba@dpuc.ri.gov dmacrae@riag.ri.gov Jmunoz@riag.ri.gov	401-222-2424
Bruce Oliver Tim Oliver Revilo Hill Associates 7103 Laketree Drive Fairfax Station, VA 22039	Boliver.rha@verizon.net timoliver@revilohill.com	703-569-6480
David Effron Berkshire Consulting 12 Pond Path North Hampton, NH 03862-2243	Djeffron@aol.com	603-964-6526
File an original & nine (9) copies w/: Luly E. Massaro, Commission Clerk Public Utilities Commission 89 Jefferson Blvd. Warwick RI 02888	Luly.massaro@puc.ri.gov Patricia.lucarelli@puc.ri.gov Sharon.ColbyCamara@puc.ri.gov	401-780-2107

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
RHODE ISLAND PUBLIC UTILITIES COMMISSION

2014 Distribution Adjustment Clause
Docket No. 4514

NATIONAL GRID'S REQUEST
FOR PROTECTIVE TREATMENT OF CONFIDENTIAL INFORMATION

National Grid[1] hereby requests that the Rhode Island Public Utilities Commission (PUC) provide confidential treatment and grant protection from public disclosure of certain confidential and proprietary information submitted in this proceeding, as permitted by PUC Rule 1.2(g) and R.I.G.L. § 38-2-2(4)(B). National Grid also hereby requests that, pending entry of that finding, the PUC preliminarily grant National Grid's request for confidential treatment pursuant to Rule 1.2 (g)(2).

I. BACKGROUND

On September 5, 2014, National Grid filed with the PUC its responses to the Division's First Set of Data Requests in this docket. Data Request 1-16(a) requests the names of the customers relating to AGT projects that the Company has identified for the 2014-2015 period. The Company considers customer information confidential and proprietary to that customer. Therefore, the Company has provided a redacted public version of Division 1-16(a), as well as a confidential version of this response pursuant to Rule 1.2(g)(2).

II. LEGAL STANDARD

---

[1] The Narragansett Electric Company d/b/a National Grid (National Grid or Company).

The PUC's Rule 1.2(g) provides that access to public records shall be granted in accordance with the Access to Public Records Act (APRA), R.I.G.L. §38-2-1, *et seq.* Under APRA, all documents and materials submitted in connection with the transaction of official business by an agency is deemed to be a "public record," unless the information contained in such documents and materials falls within one of the exceptions specifically identified in R.I.G.L. §38-2-2(4). Therefore, to the extent that information provided to the PUC falls within one of the designated exceptions to the public records law, the PUC has the authority under the terms of APRA to deem such information to be confidential and to protect that information from public disclosure.

In that regard, R.I.G.L. §38-2-2(4)(B) provides that the following types of records shall not be deemed public:

> Trade secrets and commercial or financial information obtained from a person, firm, or corporation which is of a privileged or confidential nature.

The Rhode Island Supreme Court has held that this confidential information exemption applies where disclosure of information would be likely either (1) to impair the Government's ability to obtain necessary information in the future; <u>or</u> (2) to cause substantial harm to the competitive position of the person from whom the information was obtained. <u>Providence Journal Company v. Convention Center Authority</u>, 774 A.2d 40 (R.I.2001).

The first prong of the test is satisfied when information is voluntarily provided to the governmental agency and that information is of a kind that would customarily not be released to the public by the person from whom it was obtained. <u>Providence Journal</u>, 774 A.2d at 47.

III. BASIS FOR CONFIDENTIALITY

The Company seeks protective treatment of the name of the customer provided in the response to Division 1-16(a). The Company treats customer information as confidential and proprietary to the customer, and customers have come to expect that National Grid will maintain this information on a confidential basis. In addition, the PUC has historically granted protective treatment over the disclosure of the names and other identifying information of the Company's customers. Public disclosure of this information would substantially harm National Grid's customer who has not otherwise consented to the public disclosure of its information, and would undermine National Grid's integrity with its customers. Accordingly, the Company requests that the PUC grant protective treatment to the Company's response to Division 1-16(a).

IV. CONCLUSION

For the reasons set forth above, the Company respectfully requests that the PUC grant its Motion for Protective Treatment as stated herein.

Respectfully submitted,

NATIONAL GRID
By its attorney,

Jennifer Brooks Hutchinson, Esq. (RI Bar #6167)

National Grid
280 Melrose Street
Providence, RI 02907
(401) 784-7288

Dated: September 5, 2014

Division 1-1

Request:

Re: The August 1, 2014 Environmental Report for the Period April 1, 2013 through March 31, 2014

Re: the 642 Allens Avenue project, please:

a. Provide a description of the nature and substance of topic discussed with RIDEM in the referenced November 2013 meeting, as well as a list of attendees for that meeting identified by Name, organization, and title.

b. Indicate when a closure letter from RIDEM for Phase 1 remedial activities is anticipated.

c. Provide the results of the Company's semi-annual groundwater/non-aqueous phase liquid gauging and groundwater sampling for each semi-annual gauging for the over the five-year period ended March 31, 2014.

d. Identify the costs of maintaining the boom in the Providence River over the last year (i.e., April 1, 2013 through March 31, 2014) and explain why continued maintenance of that boom is necessary from an environmental protection perspective.

Response:

a. The purpose of the November 2013 meeting between the Company and RIDEM was to review past site activities with RIDEM and update them on upcoming and on-going activities at the site. The Company reviewed the regulatory history of the Site including past environmental investigations and remedial actions. In addition, the Company discussed completed and proposed facility-based projects that required environmental support, as well as the proposed Supplemental Site Investigation program, which was subsequently conducted in May and June, and on-going monitoring activities. Attendees to the meeting included: Joseph T. Martella II, Office of Waste Management, Rhode Island Department of Environmental Management, Senior Engineer; Margaret Kilpatrick, GZA GeoEnvironmental, Inc., Senior Project Manager; and Amy A. Willoughby, The Narragansett Electric Company, d/b/a National Grid, Lead Environmental Scientist.

b. The Company does not know when it will receive an Interim Letter of Compliance (closure letter for the Phase 1 activities) from RIDEM; however, in the meantime, the

c. Company is working with RIDEM and moving forward with site investigation and remediation activities at the Site.

d. The results of the Company's semi-annual groundwater/non-aqueous phase liquid gauging and groundwater sampling for each semi-annual gauging for the five-year period ending March 31, 2014 are included as Attachment DIV 1-1.

e. Maintenance was performed on the boom in the Providence River on October 7, 2013 at a total cost of $7,972.02. Costs incurred by GZA GeoEnvironmental, Inc. for oversight of the boom replacement and inspection totaled $574.97. The remaining $7,397.06 in spend was for Clean Harbors Environmental Services, Inc. to remove and replace the existing boom. Sheen outbreaks within the cove area continue on a regular basis and the boom is necessary to control this sheen.

8/25/2014
GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Natural Gas Regulation Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	RCA-1					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives			See Note (2)			
1,1-Dichloroethane	NE	NE	<0.001	<0.001		<0.001	**0.0005**	<0.0010
1,2,4-Trimethylbenzene	NE	NE	<0.001	<0.001		<0.001	<0.001	<0.0010
1,2-Dibromo-3-Chloropropane	NE	0.002	<0.005	<0.005		<0.002	<0.005	<0.0050
1,3,5-Trimethylbenzene	NE	NE	<0.001	<0.001		<0.001	<0.001	<0.0010
4-Isopropyltoluene	NE	NE					<0.001	<0.0010
Acetone	NE	NE	<0.025	<0.025		<0.01	<0.01	<0.0100
Benzene	18	0.14	**0.0031**	<0.001		**0.0038**	**0.0038**	**0.0036**
Carbon Tetrachloride	NE	0.07	<0.001	<0.001		<0.001	<0.001	<0.0010
cis-1,2-Dichloroethene	69	2.4	<0.001	<0.001		**0.013**	**0.0165**	**0.0103**
Ethylbenzene	16	1.6	<0.001	<0.001		<0.001	<0.001	<0.0010
Isopropylbenzene	NE	NE	<0.001	<0.001		<0.001	<0.001	<0.0010
Methyl tert-Butyl Ether	NE	5	<0.001	<0.001		<0.001	**0.0006**	<0.0010
Naphthalene	NE	2.67	**0.0051**	<0.001		<0.002	**0.0009**	**0.0124**
n-Butylbenzene	NE	NE	<0.001	<0.001		<0.001	<0.001	<0.0010
n-Propylbenzene	NE	NE	<0.001	<0.001		<0.001	<0.001	<0.0010
sec-Butylbenzene	NE	NE	<0.001	<0.001		<0.001	<0.001	<0.0010
Styrene	50	2.2	<0.001	<0.001		<0.001	<0.001	<0.0010
tert-Butylbenzene	NE	NE	<0.001	<0.001		<0.001	<0.001	<0.0010
Toluene	21	1.7	<0.001	<0.001		<0.001	<0.001	<0.0010
Vinyl Chloride	NE	0.002	<0.001	<0.001		<0.001	<0.001	**0.001**
Xylene O	NE	NE	<0.001	<0.001		<0.001	<0.001	<0.0010
Xylene P,M	NE	NE	<0.002	<0.002		<0.002	<0.002	<0.0020
Xylenes (Total)	NE	NE	<0.003	<0.003		<0.003	<0.003	<0.0020
Total VOCs	NE	NE	**0.0082**	<0.122		**0.0168**	**0.0223**	**0.0273**

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regu
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014
GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Natural Gas Regulation Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	RCA-3					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives			See Note (3)			
1,1-Dichloroethane	NE	NE	<0.001	<0.001		<0.005	<0.001	<0.0010
1,2,4-Trimethylbenzene	NE	NE	**0.074**	**0.034**		**0.08**	**0.0758**	**0.0668**
1,2-Dibromo-3-Chloropropane	NE	0.002	<0.005	<0.005		<0.01	<0.005	<0.0050
1,3,5-Trimethylbenzene	NE	NE	**0.011**	**0.0028**		**0.011**	**0.0072**	**0.0085**
4-Isopropyltoluene	NE	NE					**0.0024**	**0.0023**
Acetone	NE	NE	<0.025	<0.025		<0.05	<0.01	<0.0100
Benzene	18	0.14	<0.0025	<0.001		<0.005	**0.0129**	**0.0113**
Carbon Tetrachloride	NE	0.07	<0.001	<0.001		<0.005	<0.001	<0.0010
cis-1,2-Dichloroethene	69	2.4	<0.001	<0.001		<0.005	<0.001	<0.0010
Ethylbenzene	16	1.6	**0.0049**	**0.0046**		**0.017**	**0.032**	**0.0323**
Isopropylbenzene	NE	NE	**0.01**	**0.0043**		**0.014**	**0.0098**	**0.0098**
Methyl tert-Butyl Ether	NE	5	<0.001	<0.001		<0.005	<0.001	<0.0010
Naphthalene	NE	2.67	**0.46**	**0.13**		**0.54**	**0.466**	**0.417 D**
n-Butylbenzene	NE	NE	**0.0059**	**0.0032**		**0.005**	**0.0052**	**0.005**
n-Propylbenzene	NE	NE	**0.0072**	**0.0037**		**0.0084**	**0.0054**	**0.0059**
sec-Butylbenzene	NE	NE	<0.0025	**0.0014**		<0.005	**0.0016**	**0.0016**
Styrene	50	2.2	<0.001	<0.001		<0.005	**0.0003**	<0.0010
tert-Butylbenzene	NE	NE	<0.001	<0.001		<0.005	**0.0006**	<0.0010
Toluene	21	1.7	<0.0025	<0.001		<0.005	**0.0053**	**0.0048**
Vinyl Chloride	NE	0.002	<0.001	<0.001		<0.005	<0.001	<0.0010
Xylene O	NE	NE	**0.0036**	**0.0027**		**0.011**	**0.018**	**0.0195**
Xylene P,M	NE	NE	**0.0052**	**0.0029**		**0.014**	**0.0132**	**0.0121**
Xylenes (Total)	NE	NE	**0.0052**	**0.0056**		**0.025**	**0.0311**	**0.0316**
Total VOCs	NE	NE	**0.5818**	**0.1896**		**0.7004**	**0.6557**	**0.5969**

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regul
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014
GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Natural Gas Regulation Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	RCA-11					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives	See note (8)	See note (8)	See note (8)			
1,1-Dichloroethane	NE	NE				<0.001	<0.001	<0.0010
1,2,4-Trimethylbenzene	NE	NE				<0.001	**0.0001**	<0.0010
1,2-Dibromo-3-Chloropropane	NE	0.002				<0.002	<0.005	<0.0050
1,3,5-Trimethylbenzene	NE	NE				<0.001	<0.001	<0.0010
4-Isopropyltoluene	NE	NE					<0.001	<0.0010
Acetone	NE	NE				<0.01	<0.01	<0.0100
Benzene	18	0.14				<0.001	**0.0092**	**0.0999**
Carbon Tetrachloride	NE	0.07				<0.001	<0.001	<0.0010
cis-1,2-Dichloroethene	69	2.4				<0.001	<0.001	<0.0010
Ethylbenzene	16	1.6				<0.001	**0.0005**	**0.0012**
Isopropylbenzene	NE	NE				<0.001	<0.001	<0.0010
Methyl tert-Butyl Ether	NE	5				<0.001	<0.001	<0.0010
Naphthalene	NE	2.67				<0.002	**0.0032**	**0.0145**
n-Butylbenzene	NE	NE				<0.001	<0.001	<0.0010
n-Propylbenzene	NE	NE				<0.001	<0.001	<0.0010
sec-Butylbenzene	NE	NE				<0.001	<0.001	<0.0010
Styrene	50	2.2				<0.001	**0.0003**	<0.0010
tert-Butylbenzene	NE	NE				<0.001	<0.001	<0.0010
Toluene	21	1.7				<0.001	**0.0004**	<0.0010
Vinyl Chloride	NE	0.002				<0.001	<0.001	<0.0010
Xylene O	NE	NE				<0.001	**0.0002**	<0.0010
Xylene P,M	NE	NE				<0.002	**0.0003**	<0.0020
Xylenes (Total)	NE	NE				<0.003	**0.0005**	<0.0020
Total VOCs	NE	NE				<0.122	**0.0142**	**0.1156**

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regula
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014

GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Natural Gas Regulation Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	RCA-13					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives						
1,1-Dichloroethane	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
1,2,4-Trimethylbenzene	NE	NE	**0.015**	**0.019**	**0.012**	**0.008**	**0.0045**	**0.0029**
1,2-Dibromo-3-Chloropropane	NE	0.002	<0.005	<0.005	<0.005	<0.002	<0.005	<0.0050
1,3,5-Trimethylbenzene	NE	NE	<0.001	<0.005	<0.001	<0.001	**0.0002**	<0.0010
4-Isopropyltoluene	NE	NE					<0.001	<0.0010
Acetone	NE	NE	<0.025	<0.025	<0.025	<0.01	<0.01	<0.0100
Benzene	18	0.14	**0.0075**	**0.0051**	**0.0093**	**0.0068**	**0.0074**	**0.0103**
Carbon Tetrachloride	NE	0.07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
cis-1,2-Dichloroethene	69	2.4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Ethylbenzene	16	1.6	**0.0013**	<0.005	**0.0012**	**0.0086**	**0.0019**	<0.0010
Isopropylbenzene	NE	NE	**0.0023**	<0.005	**0.0021**	**0.002**	**0.0017**	**0.001**
Methyl tert-Butyl Ether	NE	5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Naphthalene	NE	2.67	**0.16**	**0.27**	**0.13**	**0.098**	**0.102**	**0.0784**
n-Butylbenzene	NE	NE	**0.0017**	<0.005	**0.0018**	**0.0017**	**0.0019**	**0.0016**
n-Propylbenzene	NE	NE	<0.001	<0.005	<0.001	<0.001	**0.0006**	<0.0010
sec-Butylbenzene	NE	NE	<0.001	<0.005	<0.001	<0.001	**0.0006**	<0.0010
Styrene	50	2.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
tert-Butylbenzene	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Toluene	21	1.7	**0.001**	<0.005	**0.0011**	**0.0022**	**0.0021**	**0.0013**
Vinyl Chloride	NE	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Xylene O	NE	NE	**0.0011**	<0.005	**0.0012**	**0.0077**	**0.004**	**0.0026**
Xylene P,M	NE	NE	<0.002	<0.01	<0.002	**0.012**	**0.0047**	**0.0032**
Xylenes (Total)	NE	NE	**0.0011**	<0.015	**0.0012**	**0.0197**	**0.0088**	**0.0058**
Total VOCs	NE	NE	**0.1899**	**0.2941**	**0.1587**	**0.147**	**0.1316**	**0.1013**

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regul
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014
GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Natural Gas Regulation Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	VHB-1					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives	See note (8)	See note (8)	See note (8)	See note (8)	See note (8)	
1,1-Dichloroethane	NE	NE						<0.0010
1,2,4-Trimethylbenzene	NE	NE						<0.0010
1,2-Dibromo-3-Chloropropane	NE	0.002						<0.0050
1,3,5-Trimethylbenzene	NE	NE						<0.0010
4-Isopropyltoluene	NE	NE						<0.0010
Acetone	NE	NE						<0.0100
Benzene	18	0.14						<0.0010
Carbon Tetrachloride	NE	0.07						<0.0010
cis-1,2-Dichloroethene	69	2.4						<0.0010
Ethylbenzene	16	1.6						<0.0010
Isopropylbenzene	NE	NE						**0.0094**
Methyl tert-Butyl Ether	NE	5						<0.0010
Naphthalene	NE	2.67						**0.0011**
n-Butylbenzene	NE	NE						<0.0010
n-Propylbenzene	NE	NE						**0.0026**
sec-Butylbenzene	NE	NE						**0.0031**
Styrene	50	2.2						<0.0010
tert-Butylbenzene	NE	NE						<0.0010
Toluene	21	1.7						<0.0010
Vinyl Chloride	NE	0.002						<0.0010
Xylene O	NE	NE						<0.0010
Xylene P,M	NE	NE						<0.0020
Xylenes (Total)	NE	NE						<0.0020
Total VOCs	NE	NE						**0.0162**

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regulat
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014
GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Natural Gas Regulation Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	VHB-3					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives	See note (8)	See note (8)	See note (8)			
1,1-Dichloroethane	NE	NE				<0.001	<0.001	<0.0010
1,2,4-Trimethylbenzene	NE	NE				<0.001	<0.001	<0.0010
1,2-Dibromo-3-Chloropropane	NE	0.002				<0.002	<0.005	<0.0050
1,3,5-Trimethylbenzene	NE	NE				<0.001	<0.001	<0.0010
4-Isopropyltoluene	NE	NE					<0.001	<0.0010
Acetone	NE	NE				**0.016**	<0.01	<0.0100
Benzene	18	0.14				**0.0031**	<0.001	**0.0013**
Carbon Tetrachloride	NE	0.07				<0.001	<0.001	<0.0010
cis-1,2-Dichloroethene	69	2.4				<0.001	<0.001	<0.0010
Ethylbenzene	16	1.6				<0.001	<0.001	<0.0010
Isopropylbenzene	NE	NE				<0.001	<0.001	<0.0010
Methyl tert-Butyl Ether	NE	5				<0.001	<0.001	<0.0010
Naphthalene	NE	2.67				**0.02**	<0.001	**0.0068**
n-Butylbenzene	NE	NE				<0.001	<0.001	<0.0010
n-Propylbenzene	NE	NE				<0.001	<0.001	<0.0010
sec-Butylbenzene	NE	NE				<0.001	<0.001	<0.0010
Styrene	50	2.2				<0.001	<0.001	<0.0010
tert-Butylbenzene	NE	NE				<0.001	<0.001	<0.0010
Toluene	21	1.7				<0.001	<0.001	<0.0010
Vinyl Chloride	NE	0.002				<0.001	<0.001	<0.0010
Xylene O	NE	NE				<0.001	<0.001	<0.0010
Xylene P,M	NE	NE				<0.002	<0.002	<0.0020
Xylenes (Total)	NE	NE				<0.003	<0.003	<0.0020
Total VOCs	NE	NE				**0.0391**	<0.6415	**0.0081**

Notes:

Bold Value	= concentration detected above the Method Reporting Limit.
	= concentration equals or exceeds the RIDEM GB Groundwater Objective
	=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1)	Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regul
(2)	Could not locate well - possibly buried
(3)	Well not sampled due to observed presence of sheen and/or NAPL
(4)	Well found damaged, no sample collected.
(5)	Could not access well
(6)	Well was found destroyed
(7)	Well was found damaged and was not able to be sampled
(8)	Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014
GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Natural Gas Regulation Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	VHB-6					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives						
1,1-Dichloroethane	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
1,2,4-Trimethylbenzene	NE	NE	<0.001	<0.001	**0.0012**	<0.001	<0.001	<0.0010
1,2-Dibromo-3-Chloropropane	NE	0.002	<0.005	<0.005	<0.005	<0.002	<0.005	<0.0050
1,3,5-Trimethylbenzene	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
4-Isopropyltoluene	NE	NE					<0.001	<0.0010
Acetone	NE	NE	<0.025	<0.025	<0.025	<0.01	<0.01	<0.0100
Benzene	18	0.14	<0.001	<0.001	<0.001	<0.001	**0.0003**	<0.0010
Carbon Tetrachloride	NE	0.07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
cis-1,2-Dichloroethene	69	2.4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Ethylbenzene	16	1.6	<0.001	<0.001	**0.0013**	<0.001	**0.0002**	<0.0010
Isopropylbenzene	NE	NE	<0.001	**0.0015**	**0.0013**	**0.0012**	**0.0012**	**0.0014**
Methyl tert-Butyl Ether	NE	5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Naphthalene	NE	2.67	**0.021**	**0.0066**	**0.049**	**0.01**	**0.0108**	**0.0305**
n-Butylbenzene	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
n-Propylbenzene	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
sec-Butylbenzene	NE	NE	<0.001	<0.001	<0.001	<0.001	**0.0002**	<0.0010
Styrene	50	2.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
tert-Butylbenzene	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Toluene	21	1.7	<0.001	<0.001	<0.001	<0.001	**0.0001**	<0.0010
Vinyl Chloride	NE	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Xylene O	NE	NE	<0.001	<0.001	**0.0014**	**0.0014**	**0.0003**	<0.0010
Xylene P,M	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0020
Xylenes (Total)	NE	NE	<0.003	<0.003	**0.0014**	**0.0014**	**0.0003**	<0.0020
Total VOCs	NE	NE	**0.021**	**0.0081**	**0.0542**	**0.0126**	**0.0131**	**0.0319**

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regulati
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014
GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Natural Gas Regulation Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	VHB-7					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives						
1,1-Dichloroethane	NE	NE	<0.025	<0.025	<0.025	<0.05	<0.1	<0.0100 D
1,2,4-Trimethylbenzene	NE	NE	**0.076**	**0.034**	**0.11**	**0.1**	**0.087**	**0.105 D**
1,2-Dibromo-3-Chloropropane	NE	0.002	<0.13	<0.13	<0.13	<0.1	<0.5	<0.0500 D
1,3,5-Trimethylbenzene	NE	NE	**0.028**	**0.011**	<0.050	<0.05	**0.026**	**0.0333 D**
4-Isopropyltoluene	NE	NE					<0.1	<0.0100 D
Acetone	NE	NE	<0.00063	<0.00063	<0.00063	<0.5	<1	<0.100 D
Benzene	18	0.14	**0.15**	**0.12**	**0.14**	**0.12**	**0.104**	**0.0761 D**
Carbon Tetrachloride	NE	0.07	<0.025	<0.025	<0.025	<0.05	<0.1	<0.0100 D
cis-1,2-Dichloroethene	69	2.4	<0.025	<0.025	<0.025	<0.05	<0.1	<0.0100 D
Ethylbenzene	16	1.6	**0.2**	**0.13**	**0.18**	**0.3**	**0.305**	**0.335 D**
Isopropylbenzene	NE	NE	<0.025	<0.025	<0.025	<0.05	**0.011**	<0.0100 D
Methyl tert-Butyl Ether	NE	5	<0.025	<0.025	<0.025	<0.05	<0.1	<0.0100 D
Naphthalene	NE	2.67	**3.7**	**2.1**	**4.9**	**4.3**	**5.02**	**4.74 D**
n-Butylbenzene	NE	NE	<0.025	<0.025	<0.025	<0.05	<0.1	<0.0100 D
n-Propylbenzene	NE	NE	<0.025	<0.025	<0.025	<0.05	<0.1	<0.0100 D
sec-Butylbenzene	NE	NE	<0.025	<0.025	<0.025	<0.05	<0.1	<0.0100 D
Styrene	50	2.2	<0.025	<0.025	<0.025	<0.05	<0.1	<0.0100 D
tert-Butylbenzene	NE	NE	<0.025	<0.025	<0.025	<0.05	<0.1	<0.0100 D
Toluene	21	1.7	**0.074**	**0.023**	<0.050	<0.05	**0.05**	**0.0568 D**
Vinyl Chloride	NE	0.002	<0.025	<0.025	<0.025	<0.05	<0.1	<0.0100 D
Xylene O	NE	NE	**0.23**	**0.11**	**0.23**	**0.21**	**0.245**	**0.315 D**
Xylene P,M	NE	NE	**0.39**	**0.17**	**0.27**	**0.39**	**0.399**	**0.507 D**
Xylenes (Total)	NE	NE	**0.62**	**0.28**	**0.50**	**0.60**	**0.644**	**0.822 D**
Total VOCs	NE	NE	**4.848**	**2.698**	**5.830**	**5.420**	**6.247**	**6.1682**

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regul
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014
GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Natural Gas Regulation Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	VHB-8					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives	See Note (4)		See Note (2)			See Note (6)
1,1-Dichloroethane	NE	NE		<0.001		<0.001	<0.001	
1,2,4-Trimethylbenzene	NE	NE		<0.001		<0.001	<0.001	
1,2-Dibromo-3-Chloropropane	NE	0.002		<0.005		<0.002	<0.005	
1,3,5-Trimethylbenzene	NE	NE		<0.001		<0.001	<0.001	
4-Isopropyltoluene	NE	NE					<0.001	
Acetone	NE	NE		<0.025		<0.01	<0.01	
Benzene	18	0.14		<0.001		<0.001	<0.001	
Carbon Tetrachloride	NE	0.07		<0.001		<0.001	<0.001	
cis-1,2-Dichloroethene	69	2.4		<0.001		<0.001	<0.001	
Ethylbenzene	16	1.6		<0.001		<0.001	<0.001	
Isopropylbenzene	NE	NE		<0.001		<0.001	<0.001	
Methyl tert-Butyl Ether	NE	5		<0.001		<0.001	<0.001	
Naphthalene	NE	2.67		<0.001		<0.002	<0.001	
n-Butylbenzene	NE	NE		<0.001		<0.001	<0.001	
n-Propylbenzene	NE	NE		<0.001		<0.001	<0.001	
sec-Butylbenzene	NE	NE		<0.001		<0.001	<0.001	
Styrene	50	2.2		<0.001		<0.001	<0.001	
tert-Butylbenzene	NE	NE		<0.001		<0.001	<0.001	
Toluene	21	1.7		<0.01		<0.001	<0.001	
Vinyl Chloride	NE	0.002		<0.001		<0.001	<0.001	
Xylene O	NE	NE		<0.001		<0.001	<0.001	
Xylene P,M	NE	NE		<0.002		<0.002	<0.002	
Xylenes (Total)	NE	NE		<0.003		<0.003	<0.003	
Total VOCs	NE	NE		<0.122		<0.122	<0.6415	

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regul
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014
GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Natural Gas Regulation Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	VHB-10					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives	See Note (2)	See Note (3)	See Note (3)			
1,1-Dichloroethane	NE	NE				<0.001	<0.001	<0.0010
1,2,4-Trimethylbenzene	NE	NE				**0.0018**	**0.002**	<0.0010
1,2-Dibromo-3-Chloropropane	NE	0.002				<0.002	<0.005	<0.0050
1,3,5-Trimethylbenzene	NE	NE				<0.001	<0.001	<0.0010
4-Isopropyltoluene	NE	NE					<0.001	<0.0010
Acetone	NE	NE				<0.01	<0.01	<0.0100
Benzene	18	0.14				**0.11**	**0.271**	**0.147 D**
Carbon Tetrachloride	NE	0.07				<0.001	<0.001	<0.0010
cis-1,2-Dichloroethene	69	2.4				<0.001	<0.001	<0.0010
Ethylbenzene	16	1.6				**0.0052**	**0.008**	**0.0019**
Isopropylbenzene	NE	NE				**0.0062**	**0.0097**	**0.0046**
Methyl tert-Butyl Ether	NE	5				<0.001	<0.001	<0.0010
Naphthalene	NE	2.67				**0.016**	**0.0565**	**0.021**
n-Butylbenzene	NE	NE				<0.001	**0.0008**	<0.0010
n-Propylbenzene	NE	NE				**0.002**	**0.0027**	**0.0013**
sec-Butylbenzene	NE	NE				<0.001	**0.0006**	<0.0010
Styrene	50	2.2				<0.001	<0.001	<0.0010
tert-Butylbenzene	NE	NE				<0.001	**0.0002**	<0.0010
Toluene	21	1.7				<0.001	**0.001**	<0.0010
Vinyl Chloride	NE	0.002				<0.001	<0.001	<0.0010
Xylene O	NE	NE				**0.0057**	**0.008**	**0.0052**
Xylene P,M	NE	NE				<0.002	**0.0013**	<0.0020
Xylenes (Total)	NE	NE				**0.0057**	**0.0093**	**0.0052**
Total VOCs	NE	NE				**0.1469**	**0.3618**	**0.181**

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation R
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014
GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Natural Gas Regulation Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	VHB-21					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives	See Note (3)					
1,1-Dichloroethane	NE	NE		<1	<1	<0.1	<0.1	<0.0100 D
1,2,4-Trimethylbenzene	NE	NE		**0.22**	**0.31**	**0.27**	**0.291**	**0.464 D**
1,2-Dibromo-3-Chloropropane	NE	0.002		<0.1	<0.1	<0.2	<0.5	<0.0500 D
1,3,5-Trimethylbenzene	NE	NE		<0.1	<0.1	<0.1	**0.075**	**0.0638 D**
4-Isopropyltoluene	NE	NE					<0.1	<0.0100 D
Acetone	NE	NE		<0.2	<0.2	<1	<1	<0.100 D
Benzene	18	0.14		<0.1	<0.1	**0.11**	**0.147**	**0.303 D**
Carbon Tetrachloride	NE	0.07		<0.1	<0.1	<0.1	<0.1	<0.0100 D
cis-1,2-Dichloroethene	69	2.4		<0.1	<0.1	<0.1	<0.1	<0.0100 D
Ethylbenzene	16	1.6		**1.1**	**1.3**	**1.3**	**1.31**	**1.22 D**
Isopropylbenzene	NE	NE		<0.1	<0.1	<0.1	**0.028**	**0.0366 D**
Methyl tert-Butyl Ether	NE	5		<0.1	<0.1	<0.1	<0.1	<0.0100 D
Naphthalene	NE	2.67		**7.6**	**17**	**8.1**	**9.12**	**13.2 D**
n-Butylbenzene	NE	NE		<0.1	<0.1	<0.1	<0.1	<0.0100 D
n-Propylbenzene	NE	NE		<0.1	<0.1	<0.1	<0.1	<0.0100 D
sec-Butylbenzene	NE	NE		<0.1	<0.1	<0.1	<0.1	<0.0100 D
Styrene	50	2.2		<0.1	<0.1	<0.1	**0.019**	**0.0184 D**
tert-Butylbenzene	NE	NE		<0.1	<0.1	<0.1	<0.1	<0.0100 D
Toluene	21	1.7		**0.15**	**0.22**	**<0.1**	**0.218**	**0.227 D**
Vinyl Chloride	NE	0.002		<0.1	<0.1	<0.1	<0.1	<0.0100 D
Xylene O	NE	NE		**0.55**	**0.73**	**0.69**	**0.705**	**0.615 D**
Xylene P,M	NE	NE		**1.1**	**1.3**	**1.4**	**1.13**	**1.08 D**
Xylenes (Total)	NE	NE		**1.65**	**2.03**	**2.09**	**1.83**	**1.7 D**
Total VOCs	NE	NE		**10.72**	**20.86**	**12.07**	**13.043**	**17.2278**

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regu
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014
GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Liquid Natural Gas (LNG) Storage and Distribution Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	RCA-22					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives	See Note (5)	See Note (5)				
1,1-Dichloroethane	NE	NE			<0.001	<0.01	<0.001	<0.0010
1,2,4-Trimethylbenzene	NE	NE			<0.01	<0.01	**0.0059**	<0.0010
1,2-Dibromo-3-Chloropropane	NE	0.002			<0.005	<0.02	<0.005	<0.0050
1,3,5-Trimethylbenzene	NE	NE			<0.01	<0.01	**0.0001**	<0.0010
4-Isopropyltoluene	NE	NE					**0.0003**	<0.0010
Acetone	NE	NE			<0.025	<0.1	**0.0039**	<0.0100
Benzene	18	0.14			**2.1**	**1.6**	**1.19**	**0.0085**
Carbon Tetrachloride	NE	0.07			<0.001	<0.01	<0.001	<0.0010
cis-1,2-Dichloroethene	69	2.4			<0.001	<0.01	<0.001	<0.0010
Ethylbenzene	16	1.6			**0.072**	**0.089**	**0.0879**	**0.0022**
Isopropylbenzene	NE	NE			**0.042**	**0.041**	**0.0355**	**0.0071**
Methyl tert-Butyl Ether	NE	5			<0.001	<0.01	<0.001	<0.0010
Naphthalene	NE	2.67			**0.42**	**0.85**	**0.443**	**0.0055**
n-Butylbenzene	NE	NE			<0.01	<0.01	**0.0059**	**0.0013**
n-Propylbenzene	NE	NE			**0.012**	**0.012**	**0.0096**	**0.0022**
sec-Butylbenzene	NE	NE			<0.01	<0.01	**0.0019**	<0.0010
Styrene	50	2.2			<0.001	<0.01	<0.001	<0.0010
tert-Butylbenzene	NE	NE			<0.001	<0.01	**0.0003**	<0.0010
Toluene	21	1.7			<0.01	<0.01	**0.0013**	<0.0010
Vinyl Chloride	NE	0.002			<0.001	<0.01	<0.001	<0.0010
Xylene O	NE	NE			**0.02**	**0.019**	**0.0144**	**0.002**
Xylene P,M	NE	NE			<0.002	<0.02	**0.0038**	<0.0020
Xylenes (Total)	NE	NE			**0.02**	**0.019**	**0.0182**	**0.002**
Total VOCs	NE	NE			**2.666**	**2.611**	**1.8038**	**0.0288**

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regulati
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014
GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Liquid Natural Gas (LNG) Storage and Distribution Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	RCA-28					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives	See Note (5)	See Note (5)				
1,1-Dichloroethane	NE	NE			<0.050	<0.025	<0.1	<0.0100 D
1,2,4-Trimethylbenzene	NE	NE			**0.27**	**0.16**	**0.188**	**0.568 D**
1,2-Dibromo-3-Chloropropane	NE	0.002			<0.050	<0.05	<0.5	<0.0500 D
1,3,5-Trimethylbenzene	NE	NE			**0.13**	**0.078**	**0.079**	**0.245 D**
4-Isopropyltoluene	NE	NE					<0.1	<0.0100 D
Acetone	NE	NE			<0.050	<0.25	<1	<0.100 D
Benzene	18	0.14			<0.050	<0.025	**0.027**	**0.0539 D**
Carbon Tetrachloride	NE	0.07			<0.050	<0.025	<0.1	<0.0100 D
cis-1,2-Dichloroethene	69	2.4			<0.050	<0.025	<0.1	<0.0100 D
Ethylbenzene	16	1.6			**0.091**	**0.054**	**0.065**	**0.21 D**
Isopropylbenzene	NE	NE			<0.050	<0.025	<0.1	<0.0100 D
Methyl tert-Butyl Ether	NE	5			<0.050	<0.025	<0.1	<0.0100 D
Naphthalene	NE	2.67			**6**	**3.2**	**5.29**	**12.6 D**
n-Butylbenzene	NE	NE			<0.050	<0.025	<0.1	<0.0100 D
n-Propylbenzene	NE	NE			<0.050	<0.025	<0.1	<0.0100 D
sec-Butylbenzene	NE	NE			<0.050	<0.025	<0.1	<0.0100 D
Styrene	50	2.2			<0.050	<0.025	**0.017**	**0.0851 D**
tert-Butylbenzene	NE	NE			<0.050	<0.025	<0.1	<0.0100 D
Toluene	21	1.7			**0.3**	**0.14**	**0.191**	**0.691 D**
Vinyl Chloride	NE	0.002			<0.050	<0.025	<0.1	<0.0100
Xylene O	NE	NE			**0.35**	**0.2**	**0.244**	**0.876 D**
Xylene P,M	NE	NE			**0.67**	**0.35**	**0.414**	**1.56 D**
Xylenes (Total)	NE	NE			**1.02**	**0.55**	**0.658**	**2.43 D**
Total VOCs	NE	NE			**7.811**	**4.182**	**6.515**	**16.889**

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regula
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014

GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Liquid Natural Gas (LNG) Storage and Distribution Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	RCA-36					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives	See Note (5)	See Note (5)	See Note (2)			
1,1-Dichloroethane	NE	NE				<0.001	<0.001	<0.0010
1,2,4-Trimethylbenzene	NE	NE				**0.0170**	**0.0126**	**0.0051**
1,2-Dibromo-3-Chloropropane	NE	0.002				<0.002	<0.005	<0.0050
1,3,5-Trimethylbenzene	NE	NE				**0.0011**	**0.0007**	<0.0010
4-Isopropyltoluene	NE	NE					**0.0003**	<0.0010
Acetone	NE	NE				<0.01	<0.01	<0.0100
Benzene	18	0.14				**0.11**	**0.0668**	**0.0522**
Carbon Tetrachloride	NE	0.07				<0.001	<0.001	<0.0010
cis-1,2-Dichloroethene	69	2.4				<0.001	<0.001	<0.0010
Ethylbenzene	16	1.6				**0.036**	**0.0218**	**0.0103**
Isopropylbenzene	NE	NE				**0.0061**	**0.0047**	**0.0023**
Methyl tert-Butyl Ether	NE	5				<0.001	<0.001	<0.0010
Naphthalene	NE	2.67				**0.063**	**0.0404**	**0.0027**
n-Butylbenzene	NE	NE				**0.0016**	**0.0013**	<0.0010
n-Propylbenzene	NE	NE				**0.0043**	**0.0027**	**0.0013**
sec-Butylbenzene	NE	NE				**0.0010**	**0.0008**	<0.0010
Styrene	50	2.2				<0.001	<0.001	<0.0010
tert-Butylbenzene	NE	NE				<0.001	**0.0003**	<0.0010
Toluene	21	1.7				**0.001**	**0.0006**	<0.0010
Vinyl Chloride	NE	0.002				<0.001	<0.001	<0.0010
Xylene O	NE	NE				**0.0096**	**0.0066**	**0.0029**
Xylene P,M	NE	NE				**0.0025**	**0.0017**	<0.0020
Xylenes (Total)	NE	NE				**0.0121**	**0.0083**	**0.0029**
Total VOCs	NE	NE				**0.2532**	**0.1613**	**0.0768**

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regulat
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014

GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Liquid Natural Gas (LNG) Storage and Distribution Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	RCA-38					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives	See note (8)	See note (8)	See note (8)			
1,1-Dichloroethane	NE	NE				<0.001	<0.001	<0.0010
1,2,4-Trimethylbenzene	NE	NE				<0.001	<0.001	<0.0010
1,2-Dibromo-3-Chloropropane	NE	0.002				<0.002	<0.005	<0.0050
1,3,5-Trimethylbenzene	NE	NE				<0.001	<0.001	<0.0010
4-Isopropyltoluene	NE	NE					<0.001	<0.0010
Acetone	NE	NE				<0.01	<0.01	<0.0100
Benzene	18	0.14				<0.001	<0.001	<0.0010
Carbon Tetrachloride	NE	0.07				<0.001	<0.001	<0.0010
cis-1,2-Dichloroethene	69	2.4				<0.001	<0.001	<0.0010
Ethylbenzene	16	1.6				<0.001	<0.001	<0.0010
Isopropylbenzene	NE	NE				<0.001	**0.0004**	<0.0010
Methyl tert-Butyl Ether	NE	5				<0.001	<0.001	<0.0010
Naphthalene	NE	2.67				<0.002	**0.0004**	<0.0010
n-Butylbenzene	NE	NE				<0.001	<0.001	<0.0010
n-Propylbenzene	NE	NE				<0.001	<0.001	<0.0010
sec-Butylbenzene	NE	NE				<0.001	**0.0005**	<0.0010
Styrene	50	2.2				<0.001	<0.001	<0.0010
tert-Butylbenzene	NE	NE				<0.001	**0.0002**	<0.0010
Toluene	21	1.7				<0.001	<0.001	<0.0010
Vinyl Chloride	NE	0.002				<0.001	<0.001	<0.0010
Xylene O	NE	NE				<0.001	<0.001	<0.0010
Xylene P,M	NE	NE				<0.002	<0.002	<0.0020
Xylenes (Total)	NE	NE				<0.003	<0.003	<0.0020
Total VOCs	NE	NE				<0.122	**0.0015**	<0.6451

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regulation
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

8/25/2014

GZA File No. 03.00033554.00

GROUNDWATER MONITORING DATA
Liquid Natural Gas (LNG) Storage and Distribution Facility Area
642 Allens Avenue
Providence, Rhode Island

ANALYTICAL		Sample ID:	VHB-13					
		Collected By:	GZA	GZA	GZA	GZA	GZA	GZA
		Sample Date:	December 2009	June 2010	January 2011	August 2011	July 2012	November 2013
	RIDEM							
VOCs (ppm)	UCL	GB GW Objectives	See Note (5)	See Note (5)	See Note (5)			
1,1-Dichloroethane	NE	NE				<0.001	<0.001	<0.0010
1,2,4-Trimethylbenzene	NE	NE				<0.001	<0.001	<0.0010
1,2-Dibromo-3-Chloropropane	NE	0.002				<0.002	<0.005	<0.0050
1,3,5-Trimethylbenzene	NE	NE				<0.001	<0.001	<0.0010
4-Isopropyltoluene	NE	NE					<0.001	<0.0010
Acetone	NE	NE				<0.01	**0.0035**	<0.0100
Benzene	18	0.14				<0.001	<0.001	<0.0010
Carbon Tetrachloride	NE	0.07				<0.001	<0.001	<0.0010
cis-1,2-Dichloroethene	69	2.4				<0.001	<0.001	<0.0010
Ethylbenzene	16	1.6				<0.001	<0.001	<0.0010
Isopropylbenzene	NE	NE				<0.001	<0.001	<0.0010
Methyl tert-Butyl Ether	NE	5				<0.001	<0.001	<0.0010
Naphthalene	NE	2.67				<0.002	<0.001	<0.0010
n-Butylbenzene	NE	NE				<0.001	<0.001	<0.0010
n-Propylbenzene	NE	NE				<0.001	<0.001	<0.0010
sec-Butylbenzene	NE	NE				<0.001	<0.001	<0.0010
Styrene	50	2.2				<0.001	<0.001	<0.0010
tert-Butylbenzene	NE	NE				<0.001	<0.001	<0.0010
Toluene	21	1.7				<0.001	<0.001	<0.0010
Vinyl Chloride	NE	0.002				<0.001	<0.001	<0.0010
Xylene O	NE	NE				<0.001	<0.001	<0.0010
Xylene P,M	NE	NE				<0.002	<0.002	<0.0020
Xylenes (Total)	NE	NE				<0.003	<0.003	<0.0020
Total VOCs	NE	NE				<0.122	**0.0035**	<0.6451

Notes:

Bold Value = concentration detected above the Method Reporting Limit.
= concentration equals or exceeds the RIDEM GB Groundwater Objective
=detection limit equals or exceeds the RIDEM GB Groundwater Objective

"D" qualifier indicates analytes reported from a diluted run of the original analysis.

(1) Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regulations.
(2) Could not locate well - possibly buried
(3) Well not sampled due to observed presence of sheen and/or NAPL
(4) Well found damaged, no sample collected.
(5) Could not access well
(6) Well was found destroyed
(7) Well was found damaged and was not able to be sampled
(8) Well was not included in the sampling program

Please note that this table only includes compounds that have been detected or compounds that the detection limit has equalled or exceeded the RIDEM GB Groundwater Objective during groundwater monitoring since 2008.

File No. 03103554.00
8/19/2014

SUMMARY OF GROUNDWATER AND NAPL MEASUREMENTS

642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Measured Well Depth (Feet below Top of PVC)	Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	December 2009								June 2010							
									Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
NG	RCA-1	15.4		11.44		Roadbox	NP	NP	-	5.72	-	14.73	NS	NP	NP	NS	-	6.67	-	15.39	NS	NP	NP	NS
NG	RCA-3	17.75	10.66	10.22	8.18	Standpipe	NP	trace	-	8.01	-	17.5	2.65	NP	NP	2.65	-	9.45	-	17.41	1.21	NP	NP	1.21
NG	RCA-11	14.95	11.93	11.67	9.14	Standpipe	NP	NP																
NG	RCA-13	14.95	10.79	10.46	9.36	Standpipe	NP	NP	-	4.63	-	14.50	6.16	NP	NP	6.16	-	6.51	-	14.52	4.28	NP	NP	4.28
NG	RCA-14	15.28	11.64	11.30	9.61	Standpipe	NP	NP																
NG	RCA-15	17.95		13.71		Standpipe	NP	NP																
NG	RCA-17	14.75		13.18		Standpipe	NP	NP																
NG	VHB-1	10.9		8.95	9.15	Roadbox	NP	NP																
NG	VHB-3	9.15	10.43	10.63	7.83	Standpipe	NP	NP																
NG	VHB-6	13.95	11.74	11.76	9.08	Standpipe	NP	NP	-	6.03	-	11.6	5.71	NP	NP	5.71								
NG	VHB-7	14.85	12.70	12.13	9.69	Standpipe	NP	NP	-	8.02	-	14.78	4.68	NP	NP	4.68	-	9.06	-	14.85	3.64	NP	NP	3.64
NG	VHB-8	11.5		11.12	11.13	Roadbox	NP	NP									-	4.52	-	11.19	6.60	NP	NP	6.60
NG	VHB-10	17.04	18.16	17.81	14.59	Standpipe	NP - 0.01	NP									-	11.62	-	17.04	6.54	NP	NP	6.54
NG	VHB-18	16.92	14.23	14.04	9.19	Standpipe	NP	NP	-	6.13	-	14.7	8.10	NP	NP	8.10	-	6.37	-	15.0	7.86	NP	NP	7.86
NG	VHB-21	16.55	12.64	12.49	9.93	Standpipe	trace - 0.01	NP	trace	7.18	-	16.51	5.46	trace	NP	5.46	-	8.61	-	16.53	4.03	NP	NP	4.03
NG	VHB-22	17.67	12.10	11.80	9.99	Standpipe	NP - 0.01	NP																
NG	VHB-23	17.25	11.79	11.61	10.18	Standpipe	NP - 0.01	NP																
NG	CHES RW-1	10.42	11.21		9.33	Recovery Well	NP	NP																
NG	CHES RW-2	16.24	13.02		9.84	Recovery Well	NP - trace	NP																
NG	Unknown PVC Well	9.52		9.67	7.71	Standpipe	NP	NP																
LNG	RCA-5	13.33	11.43	10.99	8.94	Standpipe	NP	NP																
LNG	RCA-6	17.2	10.50	10.26		Roadbox	NP	NP																
LNG	RCA-20	10.95	11.91	11.59	9.56	Standpipe	NP	NP																
LNG	RCA-21	9.52		13.72	10.48	Standpipe	1.44 - 1.91	NP																
LNG	RCA-22	13	11.22	11.62	9.03	Standpipe	NP	NP																
LNG	RCA-28	17.65		16.58		Standpipe	NP	NP																
LNG	RCA-29	14.79		13.45		Standpipe	trace - 0.11	NP																
LNG	RCA-32	15.98		12.16		Standpipe	NP	NP																
LNG	RCA-33	13.12		9.67		Standpipe	NP	NP																
LNG	RCA-34	13.55	13.78	13.79	11.46	Standpipe	NP	NP																
LNG	RCA-36 (Note 3)	14.05	10.72	10.51		Roadbox	NP	NP																
LNG	RCA-38	16.8		9.36		Standpipe	NP	NP																
LNG	RCA-39	14.6	12.77	12.56	10.13	Standpipe	NP	NP																
LNG	RCA-40	16.75	11.45	10.91	9.42	Standpipe	trace	NP																
LNG	VHB-20	17	13.86	13.64	11.63	Standpipe	NP	NP																
LNG	CHES RW-3	17.9	13.11		9.85	Recovery Well	NP	NP																
LNG	CHES RW-4	12.35	11.85		8.79	Recovery Well	trace - 0.03	NP																
LNG	CHES RW-5	13.8	12.37		9.86	Recovery Well	NP	NP																
LNG	ESS RW-1	8.46	NS			Recovery Well	NP	NP																
LNG	ESS RW-2	11.07	NS			Recovery Well	NP	NP																
LNG	ESS RW-3	16.8	14.73		11.69	Recovery Well	NP	NP																
LNG	ESS RW-4	14.95	14.48		11.39	Recovery Well	NP	NP																
LNG	ESS RW-5	17	14.84		11.56	Recovery Well	NP	NP																
LNG	ESS RW-6	17.09	16.22		13.35	Recovery Well	NP	NP																
LNG	GZ-216	17.75	11.55	10.31	9.04	Standpipe	NP	NP																
LNG	GZ-104A	17.3	12.56	11.53	10.00	Standpipe	NP	NP																
LNG	GZ-201	20	8.53	8.23	6.23	Standpipe	NP	NP																
LNG	VHB-13	15.90	11.58	11.42	12.04	Roadbox	NP	NP																

Notes

Well is located at the National Grid side of the Property

Well is located at the LNG Facility

Elevations are relative to City of Providence Datum

NP - Indicates No Product observed.

NS - Not Surveyed

Blanks indicate no measurement collected on that particular day.

Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.

Note 1. RCA-13 was noted to have an obstruction present in the well at a depth of approximately 7 feet in February 2013. After February 2013, the monitoring well was too damaged to be gauged but could be sampled.

Note 2. VHB-8 was noted to have significant damage in February 2013 and was noted as destroyed in November 2013.

Note 3. Protective casing damaged during water line repair, will be repaired when roadway is re-paved.

File No. 03103554.00
8/19/2014

SUMMARY OF GROUNDWATER AND NAPL MEASUREMENTS

642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Measured Well Depth (Feet below Top of PVC)	Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	January 2011								July 2011							
									Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
NG	RCA-1	15.4		11.44		Roadbox	NP	NP									-	6.45	-	15.4	4.99	NP	NP	4.99
NG	RCA-3	17.75	10.66	10.22	8.18	Standpipe	NP	trace	-	9.95	trace	17.65	0.71	NP	trace	0.71	-	8.51	trace	17.75	1.71	NP	trace	1.71
NG	RCA-11	14.95	11.93	11.67	9.14	Standpipe	NP	NP									-	6.72	-	14.95	4.95	NP	NP	4.95
NG	RCA-13	14.95	10.79	10.46	9.36	Standpipe	NP	NP	-	6.84	-	15.00	3.95	NP	NP	3.95	-	6.27	-	14.95	4.19	NP	NP	4.19
NG	RCA-14	15.28	11.64	11.30	9.61	Standpipe	NP	NP									-	8.4	-	15.28	2.90	NP	NP	2.90
NG	RCA-15	17.95		13.71		Standpipe	NP	NP									-	8.11	-	17.95	5.60	NP	NP	5.60
NG	RCA-17	14.75		13.18		Standpipe	NP	NP									-	7.33	-	14.75	5.85	NP	NP	5.85
NG	VHB-1	10.9		8.95	9.15	Roadbox	NP	NP									-	4.54	-	10.9	4.41	NP	NP	4.41
NG	VHB-3	9.15	10.43	10.63	7.83	Standpipe	NP	NP									-	5.42	-	9.15	5.21	NP	NP	5.21
NG	VHB-6	13.95	11.74	11.76	9.08	Standpipe	NP	NP	-	8.18	-	14	3.56	NP	NP	3.56	-	7.74	-	13.95	4.02	NP	NP	4.02
NG	VHB-7	14.85	12.70	12.13	9.69	Standpipe	NP	NP	-	9.75	-	14.9	2.95	NP	NP	2.95	-	8.89	-	14.85	3.24	NP	NP	3.24
NG	VHB-8	11.5		11.12	11.13	Roadbox	NP	NP									-	5.21	-	11.5	5.91	NP	NP	5.91
NG	VHB-10	17.04	18.16	17.81	14.59	Standpipe	NP - 0.01	NP	trace	12.35	-	17.04	5.81	trace	NP	5.81	trace	11.7	-	17.04	6.11	trace	NP	6.11
NG	VHB-18	16.92	14.23	14.04	9.19	Standpipe	NP	NP									-	8.93	-	16.92	5.11	NP	NP	5.11
NG	VHB-21	16.55	12.64	12.49	9.93	Standpipe	trace - 0.01	NP	-	9.05	-	16.55	3.59	NP	NP	3.59	-	8.51	-	16.55	3.98	NP	NP	3.98
NG	VHB-22	17.67	12.10	11.80	9.99	Standpipe	NP - 0.01	NP									8.54	8.55	-	17.67	3.25	0.01	NP	3.26
NG	VHB-23	17.25	11.79	11.61	10.18	Standpipe	NP - 0.01	NP									7.88	7.89	-	17.25	3.72	0.01	NP	3.72
NG	CHES RW-1	10.42	11.21		9.33	Recovery Well	NP	NP									-	6.57	-	10.42	4.64	NP	NP	4.64
NG	CHES RW-2	16.24	13.02		9.84	Recovery Well	NP - trace	NP									-	9.85	-	16.24	3.17	NP	NP	3.17
NG	Unknown PVC Well	9.52		9.67	7.71	Standpipe	NP	NP									-	4.68	-	9.52	4.99	NP	NP	4.99
LNG	RCA-5	13.33	11.43	10.99	8.94	Standpipe	NP	NP									-	10.04	-	13.33	0.95	NP	NP	0.95
LNG	RCA-6	17.2	10.50	10.26		Roadbox	NP	NP									-	10.22	-	17.2	0.04	NP	NP	0.04
LNG	RCA-20	10.95	11.91	11.59	9.56	Standpipe	NP	NP									-	8.16	-	10.95	3.43	NP	NP	3.43
LNG	RCA-21	9.52		13.72	10.48	Standpipe	1.44 - 1.91	NP									10.07	13.65	-	13.75	0.07	3.58	NP	3.11
LNG	RCA-22	13	11.22	11.62	9.03	Standpipe	NP	NP	-	9.92	-	13.05	1.30	NP	NP	1.30	-	9.08	-	13	2.54	NP	NP	2.54
LNG	RCA-28	17.65		16.58		Standpipe	NP	NP	-	12.45	-	17.65	NS	NP	NP	NS	-	11.65	-	17.65	4.93	NP	NP	4.93
LNG	RCA-29	14.79		13.45		Standpipe	trace - 0.11	NP									10.87	10.95	-	14.79	2.50	0.08	NP	2.57
LNG	RCA-32	15.98		12.16		Standpipe	NP	NP									-	8.69	-	15.98	3.47	NP	NP	3.47
LNG	RCA-33	13.12		9.67		Standpipe	NP	NP									-	7.44	-	13.12	2.23	NP	NP	2.23
LNG	RCA-34	13.55	13.78	13.79	11.46	Standpipe	NP	NP									-	9.29	-	13.55	4.50	NP	NP	4.50
LNG	RCA-36 (Note 3)	14.05	10.72	10.51		Roadbox	NP	NP									-	10.49	-	14.05	0.02	NP	NP	0.02
LNG	RCA-38	16.8		9.36		Standpipe	NP	NP									-	7.86	-	16.8	1.50	NP	NP	1.50
LNG	RCA-39	14.6	12.77	12.56	10.13	Standpipe	NP	NP									-	8.81	-	14.6	3.75	NP	NP	3.75
LNG	RCA-40	16.75	11.45	10.91	9.42	Standpipe	trace	NP									-	10.01	-	16.75	0.90	NP	NP	0.90
LNG	VHB-20	17	13.86	13.64	11.63	Standpipe	NP	NP									-	8.57	-	17	5.07	NP	NP	5.07
LNG	CHES RW-3	17.9	13.11		9.85	Recovery Well	NP	NP									-	11.35	-	17.9	1.76	NP	NP	1.76
LNG	CHES RW-4	12.35	11.85		8.79	Recovery Well	trace - 0.03	NP									10.92	10.94	-	12.35	0.91	0.02	NP	0.93
LNG	CHES RW-5	13.8	12.37		9.86	Recovery Well	NP	NP									-	11.6	-	13.8	0.77	NP	NP	0.77
LNG	ESS RW-1	8.46	NS			Recovery Well	NP	NP									-	5.11	-	8.46	NS	NP	NP	NS
LNG	ESS RW-2	11.07	NS			Recovery Well	NP	NP									-	7.62	-	11.07	NS	NP	NP	NS
LNG	ESS RW-3	16.8	14.73		11.69	Recovery Well	NP	NP									-	12.76	-	16.8	1.97	NP	NP	1.97
LNG	ESS RW-4	14.95	14.48		11.39	Recovery Well	NP	NP									-	12.53	-	14.95	1.95	NP	NP	1.95
LNG	ESS RW-5	17	14.84		11.56	Recovery Well	NP	NP									-	12.82	-	17	2.02	NP	NP	2.02
LNG	ESS RW-6	17.09	16.22		13.35	Recovery Well	NP	NP									-	14.27	-	17.09	1.95	NP	NP	1.95
LNG	GZ-216	17.75	11.55	10.31	9.04	Standpipe	NP	NP									-	6.61	-	17.75	3.70	NP	NP	3.70
LNG	GZ-104A	17.3	12.56	11.53	10.00	Standpipe	NP	NP									-	8.75	-	17.3	2.78	NP	NP	2.78
LNG	GZ-201	20	8.53	8.23	6.23	Standpipe	NP	NP																
LNG	VHB-13	15.90	11.58	11.42	12.04	Roadbox	NP	NP																

Notes

Well is located at the National Grid side of the Property

Well is located at the LNG Facility

Elevations are relative to City of Providence Datum

NP - Indicates No Product observed.

NS - Not Surveyed

Blanks indicate no measurement collected on that particular day.

Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.

Note 1. RCA-13 was noted to have an obstruction present in the well at a depth of approximately 7 feet in February 2013. After February 2013, the monitoring well was too damaged to be gauged but could be sampled.

Note 2. VHB-8 was noted to have significant damage in February 2013 and was noted as destroyed in November 2013.

Note 3. Protective casing damaged during water line repair, will be repaired when roadway is re-paved.

File No. 03103554.00
8/19/2014

SUMMARY OF GROUNDWATER AND NAPL MEASUREMENTS

642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Measured Well Depth (Feet below Top of PVC)	Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	August 2011								February 2012							
									Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
NG	RCA-1	15.4		11.44		Roadbox	NP	NP	-	6.66	-	15.4	4.78	NP	NP	4.78	-	6.33	-	15.5	5.11	NP	NP	5.11
NG	RCA-3	17.75	10.66	10.22	8.18	Standpipe	NP	trace	-	8.45	trace	17.75	1.77	NP	trace	1.77	-	9.4	trace	17.55	0.82	NP	trace	0.82
NG	RCA-11	14.95	11.93	11.67	9.14	Standpipe	NP	NP	-	6.92	-	14.95	4.75	NP	NP	4.75	-	6.91	-	15.05	4.76	NP	NP	4.76
NG	RCA-13	14.95	10.79	10.46	9.36	Standpipe	NP	NP	-	6.92	-	14.95	3.54	NP	NP	3.54	-	5.88	-	15.07	4.58	NP	NP	4.58
NG	RCA-14	15.28	11.64	11.30	9.61	Standpipe	NP	NP	-	9.91	-	15.28	1.39	NP	NP	1.39	-	8.81	-	15.35	2.49	NP	NP	2.49
NG	RCA-15	17.95		13.71		Standpipe	NP	NP	-	8.36	-	17.95	5.35	NP	NP	5.35	-	8.36	-	18.02	5.35	NP	NP	5.35
NG	RCA-17	14.75		13.18		Standpipe	NP	NP	-	7.96	-	14.75	5.22	NP	NP	5.22	-	7.37	-	14.86	5.81	NP	NP	5.81
NG	VHB-1	10.9		8.95	9.15	Roadbox	NP	NP	-	7.56	-	10.9	1.39	NP	NP	1.39	-	4.54	-	10.98	4.41	NP	NP	4.41
NG	VHB-3	9.15	10.43	10.63	7.83	Standpipe	NP	NP	trace	6.41	-	9.15	4.22	trace	NP	4.22	-	5.36	-	9.38	5.27	NP	NP	5.27
NG	VHB-6	13.95	11.74	11.76	9.08	Standpipe	NP	NP	-	8.26	-	13.95	3.50	NP	NP	3.50	-	7.38	-	13.75	4.38	NP	NP	4.38
NG	VHB-7	14.85	12.70	12.13	9.69	Standpipe	NP	NP	-	9.3	-	14.85	2.83	NP	NP	2.83	-	9.29	-	14.98	2.84	NP	NP	2.84
NG	VHB-8	11.5		11.12	11.13	Roadbox	NP	NP	-	5.74	-	11.5	5.38	NP	NP	5.38	-	5.4	-	11.6	5.72	NP	NP	5.72
NG	VHB-10	17.04	18.16	17.81	14.59	Standpipe	NP - 0.01	NP	12.22	12.23	-	17.04	5.58	0.01	NP	5.59	trace	11.83	-	17.16	5.98	trace	NP	5.98
NG	VHB-18	16.92	14.23	14.04	9.19	Standpipe	NP	NP	-	9.16	-	16.92	4.88	NP	NP	4.88	-	9.15	-	17.03	4.89	NP	NP	4.89
NG	VHB-21	16.55	12.64	12.49	9.93	Standpipe	trace - 0.01	NP	-	8.99	-	16.55	3.50	NP	NP	3.50	-	8.4	-	16.63	4.09	NP	NP	4.09
NG	VHB-22	17.67	12.10	11.80	9.99	Standpipe	NP - 0.01	NP	-	9.06	-	17.67	2.74	NP	NP	2.74	trace	7.94	-	17.31	3.86	trace	NP	3.86
NG	VHB-23	17.25	11.79	11.61	10.18	Standpipe	NP - 0.01	NP	8.50	8.55	-	17.25	3.06	0.05	NP	3.10	trace	8.8	-	17.85	2.81	trace	NP	2.81
NG	CHES RW-1	10.42	11.21		9.33	Recovery Well	NP	NP	-	7.22	-	10.42	3.99	NP	NP	3.99	-	6.3	-	10.55	4.91	NP	NP	4.91
NG	CHES RW-2	16.24	13.02		9.84	Recovery Well	NP - trace	NP	-	10.41	-	10.24	2.61	NP	NP	2.61	trace	10.24	-	10.35	2.78	trace	NP	2.78
NG	Unknown PVC Well	9.52		9.67	7.71	Standpipe	NP	NP	-	7.68	-	9.52	1.99	NP	NP	1.99	-	4.6	-	9.55	5.07	NP	NP	5.07
LNG	RCA-5	13.33	11.43	10.99	8.94	Standpipe	NP	NP	-	10.33	-	13.33	0.66	NP	NP	0.66	-	10.75	-	13.45	0.24	NP	NP	0.24
LNG	RCA-6	17.2	10.50	10.26		Roadbox	NP	NP	-	10.55	-	17.2	-0.29	NP	NP	-0.29	-	11.2	-	17.27	-0.94	NP	NP	-0.94
LNG	RCA-20	10.95	11.91	11.59	9.56	Standpipe	NP	NP	-	9.09	-	10.95	2.50	NP	NP	2.50	-	8.85	-	11.07	2.74	NP	NP	2.74
LNG	RCA-21	9.52		13.72	10.48	Standpipe	1.44 - 1.91	NP	10.72	13.66	-	13.75	0.06	2.94	NP	2.56	10.95	13.74	-	13.94	-0.02	2.79	NP	2.35
LNG	RCA-22	13	11.22	11.62	9.03	Standpipe	NP	NP	-	9.52	-	13	2.10	NP	NP	2.10	-	9.48	-	13.05	2.14	NP	NP	2.14
LNG	RCA-28	17.65		16.58		Standpipe	NP	NP	-	12	-	17.65	4.58	NP	NP	4.58	-	12.02	-	17.7	4.56	NP	NP	4.56
LNG	RCA-29	14.79		13.45		Standpipe	trace - 0.11	NP	trace	11.31	-	14.79	2.14	trace	NP	2.14	trace	11.73	-	14.79	1.72	trace	NP	1.72
LNG	RCA-32	15.98		12.16		Standpipe	NP	NP	-	9.64	-	15.98	2.52	NP	NP	2.52	-	9.75	-	16.05	2.41	NP	NP	2.41
LNG	RCA-33	13.12		9.67		Standpipe	NP	NP	-	7.74	-	13.12	1.93	NP	NP	1.93	-	8.37	-	13.26	1.30	NP	NP	1.30
LNG	RCA-34	13.55	13.78	13.79	11.46	Standpipe	NP	NP	-	11.59	-	13.55	2.20	NP	NP	2.20	-	8.91	-	13.61	4.88	NP	NP	4.88
LNG	RCA-36 (Note 3)	14.05	10.72	10.51		Roadbox	NP	NP	-	11.82	-	14.05	-1.31	NP	NP	-1.31	-	12.06	-	14.11	-1.55	NP	NP	-1.55
LNG	RCA-38	16.8		9.36		Standpipe	NP	NP	-	8.19	-	16.8	1.17	NP	NP	1.17	-	8.78	-	16.64	0.58	NP	NP	0.58
LNG	RCA-39	14.6	12.77	12.56	10.13	Standpipe	NP	NP	-	9.65	-	14.6	2.91	NP	NP	2.91	-	9.45	-	14.7	3.11	NP	NP	3.11
LNG	RCA-40	16.75	11.45	10.91	9.42	Standpipe	trace	NP	-	10.37	-	16.75	0.54	NP	NP	0.54	trace	10.78	-	16.9	0.13	trace	NP	0.13
LNG	VHB-20	17	13.86	13.64	11.63	Standpipe	NP	NP	-	8.91	-	17	4.73	NP	NP	4.73	-	8.85	-	17.17	4.79	NP	NP	4.79
LNG	CHES RW-3	17.9	13.11		9.85	Recovery Well	NP	NP	-	12.25	-	17.9	0.86	NP	NP	0.86	-	12.35	-	18	0.76	NP	NP	0.76
LNG	CHES RW-4	12.35	11.85		8.79	Recovery Well	trace - 0.03	NP	11.27	11.3	-	12.35	0.55	0.03	NP	0.58	11.67	11.68	-	12.45	0.17	0.01	NP	0.18
LNG	CHES RW-5	13.8	12.37		9.86	Recovery Well	NP	NP	-	11.9	-	13.8	0.47	NP	NP	0.47	-	12.3	-	13.8	0.07	NP	NP	0.07
LNG	ESS RW-1	8.46	NS			Recovery Well	NP	NP	-	6.71	-	8.46	NS	NP	NP	NS	-	5.41	-	8.6	NS	NP	NP	NS
LNG	ESS RW-2	11.07	NS			Recovery Well	NP	NP	-	8.24	-	11.07	NS	NP	NP	NS	-	8.35	-	11.2	NS	NP	NP	NS
LNG	ESS RW-3	16.8	14.73		11.69	Recovery Well	NP	NP	-	13.25	-	16.8	1.48	NP	NP	1.48	-	13.46	-	16.81	1.27	NP	NP	1.27
LNG	ESS RW-4	14.95	14.48		11.39	Recovery Well	NP	NP	-	13.02	-	14.95	1.46	NP	NP	1.46	-	13.25	-	15.04	1.23	NP	NP	1.23
LNG	ESS RW-5	17	14.84		11.56	Recovery Well	NP	NP	-	13.31	-	17	1.53	NP	NP	1.53	-	13.52	-	17.06	1.32	NP	NP	1.32
LNG	ESS RW-6	17.09	16.22		13.35	Recovery Well	NP	NP	-	14.77	-	17.09	1.45	NP	NP	1.45	-	14.99	-	17.12	1.23	NP	NP	1.23
LNG	GZ-216	17.75	11.55	10.31	9.04	Standpipe	NP	NP	-	7.65	-	17.75	2.66	NP	NP	2.66	-	6.88	-	17.65	3.43	NP	NP	3.43
LNG	GZ-104A	17.3	12.56	11.53	10.00	Standpipe	NP	NP	-	9.4	-	17.3	2.13	NP	NP	2.13	-	9.19	-	17.41	2.34	NP	NP	2.34
LNG	GZ-201	20	8.53	8.23	6.23	Standpipe	NP	NP									-	9.62	-	20.04	-1.39	NP	NP	-1.39
LNG	VHB-13	15.90	11.58	11.42	12.04	Roadbox	NP	NP	-	10.47	-	15.90	0.95	NP	NP	0.95	-	10.73	-	15.86	0.69	NP	NP	0.69

Notes

Well is located at the National Grid side of the Property

Well is located at the LNG Facility

Elevations are relative to City of Providence Datum

NP - Indicates No Product observed.

NS - Not Surveyed

Blanks indicate no measurement collected on that particular day.

Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.

Note 1. RCA-13 was noted to have an obstruction present in the well at a depth of approximately 7 feet in February 2013. After February 2013, the monitoring well was too damaged to be gauged but could be sampled.

Note 2. VHB-8 was noted to have significant damage in February 2013 and was noted as destroyed in November 2013.

Note 3. Protective casing damaged during water line repair, will be repaired when roadway is re-paved.

File No. 03-03-33554.00
8/19/2014

SUMMARY OF GROUNDWATER AND NAPL MEASUREMENTS

642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Measured Well Depth (Feet below Top of PVC)	Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	July 2012								February 2013							
									Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
NG	RCA-1	15.4		11.44		Roadbox	NP	NP	-	6.41	-	15.41	5.03	NP	NP	5.03	-	6.69	-	15.4	4.75	NP	NP	4.75
NG	RCA-3	17.75	10.66	10.22	8.18	Standpipe	NP	trace	-	7.91	trace	17.55	2.31	NP	trace	2.31	-	9.25	trace	17.65	0.97	NP	trace	0.97
NG	RCA-11	14.95	11.93	11.67	9.14	Standpipe	NP	NP	-	6.95	-	14.95	4.72	NP	NP	4.72	-	6.95	-	15	4.72	NP	NP	4.72
NG	RCA-13	14.95	10.79	10.46	9.36	Standpipe	NP	NP	-	7.21	-	15.07	3.25	NP	NP	3.25	-	5.81	-		4.65	NP	NP	4.65
NG	RCA-14	15.28	11.64	11.30	9.61	Standpipe	NP	NP	-	9.03	-	15.2	2.27	NP	NP	2.27	-	8.71	-	15.3	2.59	NP	NP	2.59
NG	RCA-15	17.95		13.71		Standpipe	NP	NP	-	8.32	-	18.05	5.39	NP	NP	5.39	-	8.4	-	18	5.31	NP	NP	5.31
NG	RCA-17	14.75		13.18		Standpipe	NP	NP	-	7.38	-	14.8	5.80	NP	NP	5.80	-	6.87	-	14.85	6.31	NP	NP	6.31
NG	VHB-1	10.9		8.95	9.15	Roadbox	NP	NP	-	4.81	-	10.85	4.14	NP	NP	4.14	-	4.88	-	10.88	4.07	NP	NP	4.07
NG	VHB-3	9.15	10.43	10.63	7.83	Standpipe	NP	NP	-	6.49	-	9.11	4.14	NP	NP	4.14	-	4.97	-	9.4	5.66	NP	NP	5.66
NG	VHB-6	13.95	11.74	11.76	9.08	Standpipe	NP	NP	-	8.61	-	12.7	3.15	NP	NP	3.15	-	7.38	-	12.25	4.38	NP	NP	4.38
NG	VHB-7	14.85	12.70	12.13	9.69	Standpipe	NP	NP	-	9.46	-	14.91	2.67	NP	NP	2.67	-	9.38	-	14.9	2.75	NP	NP	2.75
NG	VHB-8	11.5		11.12	11.13	Roadbox	NP	NP	-	5.9	-	11.6	5.22	NP	NP	5.22	-	5.25	-	10	5.87	NP	NP	5.87
NG	VHB-10	17.04	18.16	17.81	14.59	Standpipe	NP - 0.01	NP	12.45	12.47	-	17.16	5.34	0.02	NP	5.36	-	12.81	-	17.15	5.00	NP	NP	5.00
NG	VHB-18	16.92	14.23	14.04	9.19	Standpipe	NP	NP	-	9.21	-	17	4.83	NP	NP	4.83	-	9.23	-	17	4.81	NP	NP	4.81
NG	VHB-21	16.55	12.64	12.49	9.93	Standpipe	trace - 0.01	NP	9.31	9.32	-	16.63	3.17	0.01	NP	3.17	8.56	8.57	-	17.3	3.92	0.01	NP	3.92
NG	VHB-22	17.67	12.10	11.80	9.99	Standpipe	NP - 0.01	NP	8.82	8.86	-	17.31	2.94	0.04	NP	2.97	-	8.88	-	17.8	2.92	NP	NP	2.92
NG	VHB-23	17.25	11.79	11.61	10.18	Standpipe	NP - 0.01	NP	-	9.44	-	17.85	2.17	NP	NP	2.17	8.21	8.22	-	17.8	3.39	0.01	NP	3.39
NG	CHES RW-1	10.42	11.21		9.33	Recovery Well	NP	NP	-	7.89	-	10.5	3.32	NP	NP	3.32	-	6.86	-	10.3	4.35	NP	NP	4.35
NG	CHES RW-2	16.24	13.02		9.84	Recovery Well	NP - trace	NP	-	10.57	-	10.61	2.45	NP	NP	2.45	trace	10.42	-	16.3	2.60	trace	NP	2.60
NG	Unknown PVC Well	9.52		9.67	7.71	Standpipe	NP	NP	-	5.75	-	9.14	3.92	NP	NP	3.92	-	4.15	-	9.35	5.52	NP	NP	5.52
LNG	RCA-5	13.33	11.43	10.99	8.94	Standpipe	NP	NP	-	10.44	-	13.45	0.55	NP	NP	0.55	-	10.59	-	13.55	0.40	NP	NP	0.40
LNG	RCA-6	17.2	10.50	10.26		Roadbox	NP	NP	-	10.65	-	17.2	-0.39	NP	NP	-0.39	-	11.21	-	17.26	-0.95	NP	NP	-0.95
LNG	RCA-20	10.95	11.91	11.59	9.56	Standpipe	NP	NP	-	9.1	-	11.07	2.49	NP	NP	2.49	-	8.83	-	14.35	2.76	NP	NP	2.76
LNG	RCA-21	9.52		13.72	10.48	Standpipe	1.44 - 1.91	NP	11.17	12.82	-	14.35	0.90	1.65	NP	2.30	11.41	12.85	-	14.35	0.87	1.44	NP	2.10
LNG	RCA-22	13	11.22	11.62	9.03	Standpipe	NP	NP	-	9.69	-	13.05	1.93	NP	NP	1.93	-	9.77	-	13.2	1.85	NP	NP	1.85
LNG	RCA-28	17.65		16.58		Standpipe	NP	NP	-	12.08	-	17.7	4.50	NP	NP	4.50	-	12.28	-	17.75	4.30	NP	NP	4.30
LNG	RCA-29	14.79		13.45		Standpipe	trace - 0.11	NP	11.50	11.61	-	14.45	1.84	0.11	NP	1.84	trace	11.98	-	14.45	1.47	trace	NP	1.47
LNG	RCA-32	15.98		12.16		Standpipe	NP	NP	-	10.75	-	16.01	1.41	NP	NP	1.41	-	9.98	-	12.9	2.18	NP	NP	2.18
LNG	RCA-33	13.12		9.67		Standpipe	NP	NP	-	8.08	-	13.2	1.59	NP	NP	1.59	-	8.51	-	13.3	1.16	NP	NP	1.16
LNG	RCA-34	13.55	13.78	13.79	11.46	Standpipe	NP	NP	-	7.1	-	13.55	6.69	NP	NP	6.69	-	6.75	-	13.55	7.04	NP	NP	7.04
LNG	RCA-36 (Note 3)	14.05	10.72	10.51		Roadbox	NP	NP	-	10.24	-	14.1	0.27	NP	NP	0.27	-	11.62	-	14.07	-1.11	NP	NP	-1.11
LNG	RCA-38	16.8		9.36		Standpipe	NP	NP	-	8.48	-	16.7	0.88	NP	NP	0.88	-	9.05	-	16.7	0.31	NP	NP	0.31
LNG	RCA-39	14.6	12.77	12.56	10.13	Standpipe	NP	NP	-	9.85	-	14.65	2.71	NP	NP	2.71	-	9.86	-	14.75	2.70	NP	NP	2.70
LNG	RCA-40	16.75	11.45	10.91	9.42	Standpipe	trace	NP	trace	10.47	-	16.8	0.44	trace	NP	0.44	trace	10.85	-	16.8	0.06	trace	NP	0.06
LNG	VHB-20	17	13.86	13.64	11.63	Standpipe	NP	NP	-	8.91	-	17.05	4.73	NP	NP	4.73	-	9.12	-	17.2	4.52	NP	NP	4.52
LNG	CHES RW-3	17.9	13.11		9.85	Recovery Well	NP	NP	-	12.31	-	17.92	0.80	NP	NP	0.80	-	12.71	-	17.9	0.40	NP	NP	0.40
LNG	CHES RW-4	12.35	11.85		8.79	Recovery Well	trace - 0.03	NP	trace	11.4	-	12.4	0.45	trace	NP	0.45	trace	11.77	-	12.5	0.08	trace	NP	0.08
LNG	CHES RW-5	13.8	12.37		9.86	Recovery Well	NP	NP	-	12.08	-	13.8	0.29	NP	NP	0.29	-	12.4	-	13.8	-0.03	NP	NP	-0.03
LNG	ESS RW-1	8.46	NS			Recovery Well	NP	NP	-	6.59	-	8.46	NS	NP	NP	NS	-	5.27	-	8.55	NS	NP	NP	NS
LNG	ESS RW-2	11.07	NS			Recovery Well	NP	NP	-	8.18	-	11.1	NS	NP	NP	NS	-	8.39	-	11.2	NS	NP	NP	NS
LNG	ESS RW-3	16.8	14.73		11.69	Recovery Well	NP	NP	-	13.36	-	16.8	1.37	NP	NP	1.37	-	13.68	-	16.85	1.05	NP	NP	1.05
LNG	ESS RW-4	14.95	14.48		11.39	Recovery Well	NP	NP	-	13.14	-	15	1.34	NP	NP	1.34	-	13.44	-	15.05	1.04	NP	NP	1.04
LNG	ESS RW-5	17	14.84		11.56	Recovery Well	NP	NP	-	13.44	-	17.05	1.40	NP	NP	1.40	-	13.74	-	17.05	1.10	NP	NP	1.10
LNG	ESS RW-6	17.09	16.22		13.35	Recovery Well	NP	NP	-	14.86	-	17.1	1.36	NP	NP	1.36	-	15.16	-	17.15	1.06	NP	NP	1.06
LNG	GZ-216	17.75	11.55	10.31	9.04	Standpipe	NP	NP	-	7.72	-	17.68	2.59	NP	NP	2.59	-	7.22	-	17.65	3.09	NP	NP	3.09
LNG	GZ-104A	17.3	12.56	11.53	10.00	Standpipe	NP	NP	-	9.49	-	17.43	2.04	NP	NP	2.04	-	9.62	-	17.42	1.91	NP	NP	1.91
LNG	GZ-201	20	8.53	8.23	6.23	Standpipe	NP	NP	-	7.7	-	20.05	0.53	NP	NP	0.53	-	8.98	-	20.10	-0.75	NP	NP	-0.75
LNG	VHB-13	15.90	11.58	11.42	12.04	Roadbox	NP	NP	-	10.5	-	15.84	0.92	NP	NP	0.92	-	10.71	-	15.85	0.71	NP	NP	0.71

Notes

Well is located at the National Grid side of the Property

Well is located at the LNG Facility

Elevations are relative to City of Providence Datum

NP - Indicates No Product observed.

NS - Not Surveyed

Blanks indicate no measurement collected on that particular day.

Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.

Note 1. RCA-13 was noted to have an obstruction present in the well at a depth of approximately 7 feet in February 2013. After February 2013, the monitoring well was too damaged to be gauged but could be sampled.

Note 2. VHB-8 was noted to have significant damage in February 2013 and was noted as destroyed in November 2013.

Note 3. Protective casing damaged during water line repair, will be repaired when roadway is re-paved.

File No. 03403554.00
8/19/2014

SUMMARY OF GROUNDWATER AND NAPL MEASUREMENTS

642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Measured Well Depth (Feet below Top of PVC)	Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	November 2013							
									Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
NG	RCA-1	15.4		11.44		Roadbox	NP	NP	-	7.19	-	15.45	4.25	NP	NP	4.25
NG	RCA-3	17.75	10.66	10.22	8.18	Standpipe	NP	trace	-	9.44	trace	17.7	0.78	NP	trace	0.78
NG	RCA-11	14.95	11.93	11.67	9.14	Standpipe	NP	NP	-	7.41	-	14.72	4.26	NP	NP	4.26
NG	RCA-13	14.95	10.79	10.46	9.36	Standpipe	NP	NP	See Note 1							
NG	RCA-14	15.28	11.64	11.30	9.61	Standpipe	NP	NP	-	9.76	-	15.35	1.54	NP	NP	1.54
NG	RCA-15	17.95		13.71		Standpipe	NP	NP	-	8.77	-	18	4.94	NP	NP	4.94
NG	RCA-17	14.75		13.18		Standpipe	NP	NP	-	8.2	-	14.9	4.98	NP	NP	4.98
NG	VHB-1	10.9		8.95	9.15	Roadbox	NP	NP	-	4.81	-	10.9	4.14	NP	NP	4.14
NG	VHB-3	9.15	10.43	10.63	7.83	Standpipe	NP	NP	-	6.54	-	9.5	4.09	NP	NP	4.09
NG	VHB-6	13.95	11.74	11.76	9.08	Standpipe	NP	NP	-	9.48	-	13.8	2.28	NP	NP	2.28
NG	VHB-7	14.85	12.70	12.13	9.69	Standpipe	NP	NP	-	10.07	-	15	2.06	NP	NP	2.06
NG	VHB-8	11.5		11.12	11.13	Roadbox	NP	NP	See Note 2							
NG	VHB-10	17.04	18.16	17.81	14.59	Standpipe	NP - 0.01	NP	13.24	13.25	-	15.2	4.56	0.01	NP	4.57
NG	VHB-18	16.92	14.23	14.04	9.19	Standpipe	NP	NP	-	9.62	-	16.74	4.42	NP	NP	4.42
NG	VHB-21	16.55	12.64	12.49	9.93	Standpipe	trace - 0.01	NP	trace	10.26	-	16.6	2.23	trace	NP	2.23
NG	VHB-22	17.67	12.10	11.80	9.99	Standpipe	NP - 0.01	NP	10.35	10.36	-	17.8	1.44	0.01	NP	1.45
NG	VHB-23	17.25	11.79	11.61	10.18	Standpipe	NP - 0.01	NP	-	9.86	-	17.3	1.75	NP	NP	1.75
NG	CHES RW-1	10.42	11.21		9.33	Recovery Well	NP	NP	-	8.97	-	10.5	2.24	NP	NP	2.24
NG	CHES RW-2	16.24	13.02		9.84	Recovery Well	NP - trace	NP	-	11.22	-	16.2	1.80	NP	NP	1.80
NG	Unknown PVC Well	9.52		9.67	7.71	Standpipe	NP	NP	-	5.78	-	9.5	3.89	NP	NP	3.89
LNG	RCA-5	13.33	11.43	10.99	8.94	Standpipe	NP	NP	-	10.77	-	13.45	0.22	NP	NP	0.22
LNG	RCA-6	17.2	10.50	10.26		Roadbox	NP	NP	-	10.61	-	17.2	-0.35	NP	NP	-0.35
LNG	RCA-20	10.95	11.91	11.59	9.56	Standpipe	NP	NP	-	10.27	-	11.03	1.32	NP	NP	1.32
LNG	RCA-21	9.52		13.72	10.48	Standpipe	1.44 - 1.91	NP	12.26	14.17	-	14.35	-0.45	1.91	NP	1.17
LNG	RCA-22	13	11.22	11.62	9.03	Standpipe	NP	NP	-	10.3	-	13.05	1.32	NP	NP	1.32
LNG	RCA-28	17.65		16.58		Standpipe	NP	NP	-	12.46	-	17.48	4.12	NP	NP	4.12
LNG	RCA-29	14.79		13.45		Standpipe	trace - 0.11	NP	-	11.79	-	12.35	1.66	NP	NP	1.66
LNG	RCA-32	15.98		12.16		Standpipe	NP	NP	-	10.39	-	12.8	1.77	NP	NP	1.77
LNG	RCA-33	13.12		9.67		Standpipe	NP	NP	-	8.11	-	13.2	1.56	NP	NP	1.56
LNG	RCA-34	13.55	13.78	13.79	11.46	Standpipe	NP	NP	-	7.01	-	12.81	6.78	NP	NP	6.78
LNG	RCA-36 (Note 3)	14.05	10.72	10.51		Roadbox	NP	NP	-	10.28	-	11.8	0.23	NP	NP	0.23
LNG	RCA-38	16.8		9.36		Standpipe	NP	NP	-	9.25	-	16.5	0.11	NP	NP	0.11
LNG	RCA-39	14.6	12.77	12.56	10.13	Standpipe	NP	NP	-	10.8	-	14.64	1.76	NP	NP	1.76
LNG	RCA-40	16.75	11.45	10.91	9.42	Standpipe	trace	NP	-	10.7	-	16.85	0.21	NP	NP	0.21
LNG	VHB-20	17	13.86	13.64	11.63	Standpipe	NP	NP	-	9.26	-	16.88	4.38	NP	NP	4.38
LNG	CHES RW-3	17.9	13.11		9.85	Recovery Well	NP	NP	-	12.8	-	17.92	0.31	NP	NP	0.31
LNG	CHES RW-4	12.35	11.85		8.79	Recovery Well	trace - 0.03	NP	11.60	11.61	-	12.4	0.24	0.01	NP	0.25
LNG	CHES RW-5	13.8	12.37		9.86	Recovery Well	NP	NP	-	12.25	-	13.7	0.12	NP	NP	0.12
LNG	ESS RW-1	8.46	NS			Recovery Well	NP	NP	-	7.35	-	8.45	NS	NP	NP	NS
LNG	ESS RW-2	11.07	NS			Recovery Well	NP	NP	-	8.68	-	11.1	NS	NP	NP	NS
LNG	ESS RW-3	16.8	14.73		11.69	Recovery Well	NP	NP	-	13.94	-	16.8	0.79	NP	NP	0.79
LNG	ESS RW-4	14.95	14.48		11.39	Recovery Well	NP	NP	-	13.66	-	15	0.82	NP	NP	0.82
LNG	ESS RW-5	17	14.84		11.56	Recovery Well	NP	NP	-	14.01	-	17.03	0.83	NP	NP	0.83
LNG	ESS RW-6	17.09	16.22		13.35	Recovery Well	NP	NP	-	15.45	-	17.1	0.77	NP	NP	0.77
LNG	GZ-216	17.75	11.55	10.31	9.04	Standpipe	NP	NP	-	8.67	-	17.65	1.64	NP	NP	1.64
LNG	GZ-104A	17.3	12.56	11.53	10.00	Standpipe	NP	NP	-	10.21	-	17.53	1.32	NP	NP	1.32
LNG	GZ-201	20	8.53	8.23	6.23	Standpipe	NP	NP	-	8.1	-	20.08	0.13	NP	NP	0.13
LNG	VHB-13	15.90	11.58	11.42	12.04	Roadbox	NP	NP	-	10.9	-	15.86	0.52	NP	NP	0.52

Notes

Well is located at the National Grid side of the Property

Well is located at the LNG Facility

Elevations are relative to City of Providence Datum

NP - Indicates No Product observed.

NS - Not Surveyed

Blanks indicate no measurement collected on that particular day.

Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.

Note 1. RCA-13 was noted to have an obstruction present in the well at a depth of approximately 7 feet in February 2013. After February 2013, the monitoring well was too damaged to be gauged but could be sampled.

Note 2. VHB-8 was noted to have significant damage in February 2013 and was noted as destroyed in November 2013.

Note 3. Protective casing damaged during water line repair, will be repaired when roadway is re-paved.

NAPL RECOVERY

File No. 03.00033554.00
8/19/2014

642 Allens Avenue
Providence, Rhode Island

Well ID	Date	Start Pumping	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Estimated Volume Purged (gallons)	Tide Condition
RCA-21	7/1/2011	NR	10.07	13.65	3.58	NR	NR
	8/3/2011	NR	10.72	13.66	2.94	NR	NR
	2/3/2012	13:00	10.95	13.74	2.79	2.25 gal	Mid
	2/8/2012	14:30	10.93	13.28	2.35	2 gal	Low
	2/15/2012	11:20	11.28	12.75	1.47	1.25 gal	Low
	2/23/2012	13:13	11.56	12.6	1.04	0.75 gal	Low
	3/2/2012	13:45	11.77	12.52	0.75	1 gal	High
	3/9/2012	12:30	11.38	12.29	0.91	0.75 gal	Low to Mid
	4/13/2012	9:43	11.88	13.45	1.57	1.5 gal	Low to Mid
	5/16/2012	13:18	10.6	12	1.4	1 gal	Mid
	6/29/2012	9:16	10.7	12.55	1.85	1 gal	Low
	7/19/2012	9:21	11.17	12.82	1.65	1 gal	High
	8/24/2012	9:45	10.62	12.25	1.63	1.5 gal	Mid
	9/25/2012	13:24	10.85	12.33	1.48	2 gal	Mid
	10/31/2012	9:35	10.71	12.6	1.89	1.5 gal	High
	11/19/2012	13:45	10.87	12.55	1.68	0.75 gal	High to Mid
	12/20/2012	12:00	11.4	12.76	1.36	1 gal	High
	2/1/2013	11:30	11.41	12.85	1.44	1 gal	High
	2/26/2013	12:20	10.45	12.35	1.9	1 gal	Low
	3/25/2013	11:15	10.53	10.6	0.07	NR	Mid
	4/24/2013	10:30	11.09	12.43	1.34	1 gal	Mid
	5/31/2013	10:00	11.65	12.75	1.1	0.75 gal	Mid to Low
	6/25/2013	11:30	10.15	10.51	0.36	0.25 gal	Mid
	7/31/2013	7:00	10.9	12.77	1.87	1.25 gal	Mid
	8/28/2013	12:00	10.9	12.42	1.52	1.5 gal	Mid
	9/27/2013	11:00	10.83	12.25	1.42	1 gal	Mid
	10/30/2013	14:00	10.97	12.13	1.16	1 gal	Mid
	11/19/2013	10:30	12.26	14.17	1.91	1 gal	Low to Mid
	12/20/2013	10:45	11.45	12.72	1.27	1.25 gal	Mid to Low
	1/27/2014	10:00	10.98	12.32	1.34	0.5 gal	Low
	2/25/2014	13:00	10.81	11.8	0.99	0.5 gal	Mid
	3/20/2014	9:00	11.08	11.7	0.62	0.5 gal	Mid to High

Notes: Well is located at the LNG Facility
NR = Not Recovered
Volume purged was noted as a mixture of LNAPL and groundwater

Division 1-2

Request:

Re: the 642 Allens Avenue project, please:

a. Document and explain why costs for "emergency utility repairs including and an expedited upgrade to 900 feet of 16-inch water line" are considered environmental remediation expenses.

b. Identify the starting point and end point of the referenced 16-inch water line and identify all customers served by that line.

c. Explain the factors that created the need for the referenced upgrade and the reasons for expediting that upgrade.

d. Detail the nature and costs of all other "emergency utility repairs for which costs are included in the 642 Allens Avenue Project for the April 1,2013 – March 31, 2014 period.

Response:

a. All costs within this reporting period related to "emergency utility repairs" and "expedited upgrade to 900-feet of 16-inch water line" were for environmental support only during the implementation of these two projects. The environmental support costs are considered an environmental remediation expense due to the presence of manufactured gas plant (MGP) impacted soil and groundwater within the areas of the utility repairs and upgrades. The Company has developed a Soil Management Plan for the site and soil and groundwater encountered during this work was managed in accordance with the Soil Management Plan. Excess soil generated during the utility repairs was disposed of at a National Grid approved facility and groundwater was either treated on-Site prior to discharge to the ground surface in accordance with a RIDEM-approved plan or shipped off-Site for disposal at a National Grid approved facility. In this case, the Company believes that it is more cost-effective and in the best interest of customers to pay for the incremental costs associated with performing this environmental support work in an environmentally-impacted area as opposed to completely remediating the contamination at the site.

b. Refer to Attachment DIV1-2 for the plan that depicts the starting point and end point of the water line project. Please be advised that due to the voluminous nature of this attachment, the Company is providing DIV 1-2 on CD-ROM. I have The 16-inch diameter water line serves the fire suppression system for the National Grid Liquefied Natural Gas (LNG) Plant.

Division 1-2, page 2

c. The 16-inch water line experienced an unexpected failure on May 31, 2013 which resulted in the need for an emergency repair of an approximately 40-foot section of the water line. Based on the observations of the poor condition of the water line, the Company determined that an expedited replacement of approximately 900 feet of the fire suppression water line was required to be performed prior to the start of the vaporization season.

d. One additional "emergency utility repair" was conducted during the reporting period and costs included are for environmental support only. The project was related to the Company's emergency repair of an 18-inch diameter low pressure natural gas line and due to the depth of the excavation, dewatering was necessary to facilitate access for crews. Environmental support for the emergency gas leak repair totaled $109,901 and included $82,870 for Clean Harbors Environmental Services, Inc. supporting groundwater dewatering, treatment and discharge. In addition, GZA Geo Environmental, Inc. provided oversight for groundwater and soil management activities for $27,031.

Division 1-3

Request:

Re: the "Cost Breakdown by Category" for the 642 Allens Avenue project, please:

a. Detail the Consulting activities for which payments were made during the reporting period;

b. Identify the organization that provided each consulting service;

c. Provide copies of all reports, studies, or other documents which communicated the results of activities undertaken or completed by consultants for which payments were made during the reporting period.

Response:

a. Consulting activities conducted during the reporting period for which payment was made include preparation and participation in meeting with RIDEM; annual groundwater and semi-annual groundwater/non-aqueous phase liquid(NAPL) monitoring; reporting to RIDEM; environmental oversight for the natural gas leak repair, Hoxie Run project, utility pole replacement; review of historic plans and documents for the Site; monthly site visits and monthly NAPL recovery; boom repair/maintenance oversight; environmental support for manhole and catch basin repairs in the north west corner of the Site; preparation of the Supplemental Site Investigation Work Plan; environmental support/oversight for the LNG water line repair and replacement activities; and health and safety monitoring for the Hoxie Run project.

b. GZA GeoEnvironmental, Inc. conducted the services described in subpart (a) above. Coneco Engineers and Scientists conducted the health and safety monitoring for the Hoxie Run project.

Prepared by or under the supervision of: Michele Leone

Division 1-3, page 2

c. The following reports, studies, or other documents were prepared during the reporting period:
   - *Underground Injection Control Temporary Permit Request* by GZA GeoEnvironmental, Inc., dated, April 8, 2013;
   - *Summary Letter Report - Temporary On-site Treated Groundwater Discharge Permit*, by GZA GeoEnvironmental, Inc., dated May 23, 2013 ;
   - *RIPDES DMR Quarter 1 and Notice of Termination*, by GZA GeoEnvironmental, Inc., dated June 12, 2013;
   - *Water Line Upgrade – Ground water Discharge Permit Application,* by GZA GeoEnvironmental, Inc., dated July 31, 2013;
   - *Groundwater Monitoring Report - 2012*, by GZA GeoEnvironmental, Inc., dated August 19, 2013;
   - *Summary of Hoxie Run Natural Gas Line Upgrade*, by GZA GeoEnvironmental, Inc., dated December 12, 2013;
   - *Supplemental Site Investigation Work Plan (SSIWP),* by GZA GeoEnvironmental, Inc., dated February 27, 2014.

   Please see Attachment DIV 1-3 for copies of the reports, studies, or other documents listed above prepared during the reporting period. Due to the voluminous nature of this attachment, the Company is providing Attachment DIV 1-3 on CD-ROM.

Prepared by or under the supervision of: Michele Leone

Division 1-4

Request:

Re: the "Cost Breakdown by Category" for the 642 Allens Avenue project, please provide full supporting detail for the "Construction/Disposal/Removal Costs" showing separately costs of each construction, disposal, and removal activity and clearly identifying all costs associated with:

a. Emergency utility repairs
b. Expedited water line upgrades
c. Other activities

Response:

Please refer to Attachment DIV 1-4 for supporting detail for the "Construction/Disposal/ Removal" costs for the reporting period.

Division Data Request DIV 1-4

Date	Payee	Amount	Description of Service	Response
02/05/13	Clean Harbors Environmental Services, Inc.	$15,719.12	Environmental support for emergency repair natural gas leak	DIV 1-4a
04/03/13	Clean Harbors Environmental Services, Inc.	$15,148.10	Environmental support for emergency repair natural gas leak	DIV 1-4a
03/04/13	Clean Harbors Environmental Services, Inc.	$10,434.64	Environmental support for emergency repair natural gas leak	DIV1-4a
06/04/13	Clean Harbors Environmental Services, Inc.	$8,263.61	Environmental support for emergency repair natural gas leak	DIV 1-4a
07/08/13	Clean Harbors Environmental Services, Inc.	$33,304.81	Operate and decontamination of groundwater treatment system	DIV 1-4a
07/02/03	Clean Harbors Environmental Services, Inc.	$19,794.69	Environmental support for emergency water line repair	DIV 1-4b
10/01/13	Clean Harbors Environmental Services, Inc.	$9,451.58	Environmental support for water line upgrade	DIV 1-4b
11/04/13	Clean Harbors Environmental Services, Inc.	$12,932.01	Environmental support for water line upgrade	DIV 1-4b
12/04/13	Clean Harbors Environmental Services, Inc.	$29,137.73	Environmental support for water line upgrade	DIV 1-4b
10/16/13	Environmental Soil Management, Inc.	$56,735.58	Thermal Treatment for soil from water line upgrade	DIV 1-4b
10/28/13	Environmental Soil Management, Inc.	$25,707.83	Thermal Treatment for soil from water line upgrade	DIV 1-4b
11/06/13	Environmental Soil Management, Inc.	$30,329.81	Thermal Treatment for soil from water line upgrade	DIV 1-4b
10/31/14	Environmental Soil Management, Inc.	$37,159.14	Thermal Treatment for soil from water line upgrade	DIV 1-4b
11/20/13	Environmental Soil Management, Inc.	$5,404.53	Thermal Treatment for soil from water line upgrade	DIV 1-4b
11/20/13	Environmental Soil Management, Inc.	$41,648.66	Thermal Treatment for soil from water line upgrade	DIV 1-4b
11/20/13	Environmental Soil Management, Inc.	$48,556.88	Thermal Treatment for soil from water line upgrade	DIV 1-4b
01/11/13	Clean Harbors Environmental Services, Inc.	$890.35	Drum pick up/waste removal	DIV1-4c
05/14/13	Clean Harbors Environmental Services, Inc.	$1,183.76	Environmental support for pole replacement	DIV1-4c
05/21/13	Clean Harbors Environmental Services, Inc.	$858.23	Drum pick up/waste removal	DIV 1-4c
07/24/13	Clean Harbors Environmental Services, Inc.	$647.89	Replace absorbent boom in catch basin	DIV 1-4c
07/31/13	Clean Harbors Environmental Services, Inc.	$272.82	Restore Engineered Cap	DIV 1-4c
09/05/13	Clean Harbors Environmental Services, Inc.	$516.08	Drum pick up/waste removal	DIV 1-4c
09/19/13	Clean Harbors Environmental Services, Inc.	$992.96	Replace absorbent boom in catch basin	DIV 1-4c
10/01/13	Clean Harbors Environmental Services, Inc.	$2,107.90	Environmental support for sewer manhole repair	DIV 1-4c
10/02/13	Clean Harbors Environmental Services, Inc.	$2,228.81	Environmental support for pole replacement	DIV 1-4c
10/14/13	Clean Harbors Environmental Services, Inc.	$3,946.43	Environmental Support for sewer manhole repair	DIV 1-4c
10/16/13	Clean Harbors Environmental Services, Inc.	$7,397.06	Replace boom along shoreline	DIV 1-4c
12/26/13	Clean Harbors Environmental Services, Inc.	$493.97	Drum pick up/waste removal	DIV 1-4c
03/11/14	Clean Harbors Environmental Services, Inc.	$469.04	Drum pick up/waste removal	DIV 1-4c
	TOTAL:	$421,734.02		

Division 1-5

Request:

Re: the "Cost Breakdown by Category" for the 642 Allens Avenue project, please provide full supporting detail for the "Other Costs" associated with the 642 Allens Avenue project for the reporting period.

Response:

The amount for "Other Costs" associated with the 642 Allens Avenue project for the reporting period was $52,149. These costs include $51,752 in Company labor and burden for management of the 642 Allens Avenue project and $397 for Hudson Valley Aerial for aerial photographs of the Site. The Company project management activities performed during this reporting period were associated with oversight of the consultants and contractors performing environmental work at the Site including review of corresponding invoices, coordination with Company personnel related to environmental support during planned and emergency projects at the Site, communications and/or meetings with RIDEM, Narragansett Bay Commission, and the United States Coast Guard. In addition, project management activities included review of permit applications, draft monitoring reports, environmental summary reports, and disposal documentation and preparation for the Supplemental Site Investigation.

Division 1-6

Request:

Re: the 170 Allens Avenue project, please:

a. Detailed document the manner in which the dollar amounts of the Cargill reimbursements for costs incurred for the 170 Allens Avenue project were determined including the supporting workpapers, studies and analyses for those determinations.

b. Identify when Cargill was billed for the referenced $1,482,810 for the 170 Allens Avenue project and explain why the Company uses "cash" accounting rather than "accrual" accounting for reporting of such environmental cost reimbursements.

c. Explain why the Company was required to pay fees to the City of Providence for "the easement to perform the remedy," and document the dollar amounts of all fees paid to the City of Providence for the easement.

d. Detail the nature and physical parameters of the referenced easement obtained from the City of Providence.

e. Document all rental fees for dock use in 2012 that were included in the 2014 report, identify when those fees were billed, and provide a five-year history of rental fees billed and received for the referenced dock facilities.

Response:

a. Per a confidential agreement with Cargill, Inc. ("Cargill"), Cargill reimburses the Company a percentage share of all costs associated with the upland investigation and remediation of the site and certain ancillary costs associated with this project. The invoices to Cargill include charges related to actual applicable invoices paid by the Company that have been included in this and previous filings. Two invoices were sent to Cargill during the reporting period:

- The first invoice that was sent on April 16, 2013 was in the amount of $227,043 and covered the period from May 1, 2011 through April 1, 2013. Payment was received in May 2013 and was included in the "Other Costs" for this project during the reporting period.
- The second invoice that was sent on February 20, 2014 was in the amount of $1,482,811 and covered the period from April 2, 2013 through January

31, 2014. Payment was received on March 27, 2014 but the project did not get credited until April 2, 2014.

In addition, please see the response to Division Request 1-7c for the workpapers, studies and analyses that Cargill shared in the costs of preparing.

b. As indicated above, Cargill was invoiced for $1,482,810.55 on February 20, 2014 and the Company received payment on March 27, 2014. However, the project did not get credited for the payment until April 2, 2014 after the reporting period and was not included in this filing.

As a general matter for rate making purposes, the Company recovers costs based on cash expenditures, and excludes accrued costs from those recoveries as well as from rate base and deferred costs that earn a rate of return. Similarly, amounts billed to third parties, but not yet received, would also be excluded from cost recovery, rate base and deferred costs that earn a rate of return. However, in the process of preparing this response, the Company discovered that it had actually received the $1,482,810 from Cargill on March 27, 2014 shortly before the end of the Company's March 31, 2014 fiscal year end, but this payment did not post in fiscal year (FY) 2014 and instead posted in the following month of April, which is the first month in FY2015. Consequently, the Company should have reflected this receipt of cash from Cargill in its FY2014 Environmental Response Costs (ERC) reconciliation The Company has adjusted the FY2014 ERC reconciliation to reflect the credit of $1,482,810 as shown in Attachment DIV 1-6-b page 5, line 4 (b). As a result, this reduces the Environmental Response Cost Factor from $0.0014 per therm as filed on August 29, 2014, to $0.0011 per therm, or $0.0003 per therm. This revision results in an annual decrease for a residential heating customer using 846 therm of $0.25. See Attachment DIV 1-6b for the revised Schedule YC-1R and Schedule YC-4R.

c. The RIDEM-approved remedy for the upland portion of the site included a subsurface barrier wall and non-aqueous phase liquid collection trench. This wall/collection trench was installed continuously along a portion of the shoreline

of the river and eastern edge of the site. To be effective, the wall/collection trench was installed across Public Street, a public way. A permanent easement was required by the City of Providence to install this wall/collection trench in the public way. In addition, a temporary construction easement was required to conduct the work in the public way during the installation of the wall/collection trench, which also included revising the stormwater collection system to allow passage of stormwater through the wall/collection trench. The amount paid for these easements was based on an objective appraisal of the use of the City's property on a temporary and permanent basis. Please see Attachment DIV 1-6-c for a copy of the payment and City of Providence easement appraisal showing the requested details.

d. The easement includes a temporary construction easement covering 3,011.86 square feet for installing the above referenced wall/collection trench and associated stormwater collection system and a perpetual easement covering 305.53 square feet for the purposes of monitoring, maintaining and repairing the wall/collection trench. Please see Attachment DIV 1-6-d for a copy of the petition to the City of Providence for the easement and the subsequent resolutions of the City of Providence granting the easement that show the requested details. Note that a second resolution was required to correct a typographical error regarding costs for the easement in the original resolution.

e. The dock was leased by American Cruise Lines, Inc. during 2012 between May and October. The bill for the season's usage was issued on January 8, 2013 after extended discussions regarding the usage information. Please see Attachment DIV 1-6-e for a spreadsheet of the fees for the 2012 season. Payment was received in February 2013, but the project did not get credited until April 3, 2014. Except for the 2012 season, the dock has not been leased since the Company purchased the property in February 2012 because of ongoing remediation during 2013 and 2014. Except for the payment from American Cruise Lines for the 2012 season, no other payments have been received by the Company for use of the dock in the previous 5 year period.

National Grid - RI Gas
Summary of DAC Factors
Effective November 1, 2014

Section 1: DAC factor (not including annual ISR component) November 1, 2014 - October 31, 2015

Line No.	Description	Reference	Amount	Factor: Residential/ Small/ Medium C&I	Factor: Large/ X-Large	
1	System Pressure (SP)	YC-2S	$1,488,789	$0.0039	$0.0039	
2	Advanced Gas Technology Program (AGT)	YC-3	$0	$0.0000	$0.0000	
3	Low Income Assistance Program (LIAP)		$0	$0.0000	$0.0000	
4	Environmental Response Cost Factor (ERCF)	YC-4	$420,632	$0.0011	$0.0011	
5	Pension Adjustment Factor (PAF)	YC-5	($2,034,108)	($0.0052)	($0.0052)	
6	On-System Margin Credits (MC)	YC-6	$135,571	$0.0003	$0.0003	
7	Reconciliation Factor (R)	YC-7S	$1,312,366	$0.0038	$0.0025	
8	Service Quality Factor (SQP)		$0	$0.0000	$0.0000	
9	Earnings Sharing Mechanism (ESM)		$0	$0.0000	$0.0000	
10	Subtotal	Sum ([1]:[9])	$1,323,249	$0.0039	$0.0026	
11	Uncollectible Percentage	Dkt 4323	3.18%	3.18%	3.18%	
12	DAC factors grossed up for uncollectible	[10]/(1-[11])	$1,366,711	$0.0040	$0.0026	per therm
13	Revenue Decoupling Adjustment (RDA)	YC-8	($8,989,002)	($0.0325)	$0.0000	
14	Revenue Decoupling Adjustment Reconciliation	YC-7S	($754,074)	($0.0027)	$0.0000	
15	DAC factor	[12]+[13]+[14]	($8,376,365)	**($0.0312)**	**$0.0026**	**per therm**

Section 2: DAC factors including annual ISR component

Line No.		ISR Reconciliation w/o uncollectible[1] (therms)	Uncollectible Percentage[2]	ISR Reconciliation* (therms) (A)	Base DAC Component*[3] (therms) (B)	DAC Component Subtotal Rates* (therms) (C) =(A) + (B)	ISR Component*[4] (therms) (D)	November 1, 2014 DAC Rates* (therms) (E) = (C)+(D)
16	Res-NH	$0.0087	3.18%	$0.0089	($0.0312)	($0.0223)	$0.0222	($0.0001)
17	Res-NH-LI	$0.0087	3.18%	$0.0089	($0.0312)	($0.0223)	$0.0222	($0.0001)
18	Res-H	$0.0029	3.18%	$0.0029	($0.0312)	($0.0283)	$0.0148	($0.0135)
19	Res-H-LI	$0.0029	3.18%	$0.0029	($0.0312)	($0.0283)	$0.0148	($0.0135)
20	Small	$0.0029	3.18%	$0.0029	($0.0312)	($0.0283)	$0.0153	($0.0130)
21	Medium	$0.0024	3.18%	$0.0024	($0.0312)	($0.0288)	$0.0115	($0.0173)
22	Large LL	$0.0019	3.18%	$0.0019	$0.0026	$0.0045	$0.0092	$0.0137
23	Large HL	$0.0017	3.18%	$0.0017	$0.0026	$0.0043	$0.0091	$0.0134
24	XL-LL	$0.0001	3.18%	$0.0001	$0.0026	$0.0027	$0.0028	$0.0055
25	XL-HL	$0.0005	3.18%	$0.0005	$0.0026	$0.0031	$0.0035	$0.0066

***Factors Include Uncollectible Allowance**

[1] Schedule YC-9S
[2] Per Docket No. 4323
[3] Section 1, Line 15
[4] FY 15 ISR component per Docket No. 4474

National Grid - RI Gas
Environmental Response Cost (ERC) Factor
Effective November 1, 2014

Line No.	Description	Column / Line	Amount	
1	Amortization of Pre-FY2003 expenses	Col M, Ln 3	$0	
2	Amortization of FY2003 expenses	Col M, Ln 6	$0	
3	Amortization of FY2004 expenses - year 10 of 10	Col M, Ln 9	$0	
4	Amortization of FY2005 expenses - year 9 of 10	Col M, Ln 12	$13,668	
5	Amortization of FY2006 expenses - year 8 of 10	Col M, Ln 15	$43,602	
6	Amortization of FY2007 expenses - year 7 of 10	Col M, Ln 18	($75,829)	
7	Amortization of FY2008 expenses - year 6 of 10	Col M, Ln 21	($4,575)	
8	Amortization of FY2009 expenses - year 5 of 10	Col M, Ln 24	$96,575	
9	Amortization of FY2010 expenses - year 4 of 10	Col M, Ln 27	$208,826	
10	Amortization of FY2011 expenses - year 3 of 10	Col M, Ln 30	$452,295	
11	Amortization of FY2012 expenses - year 3 of 10	Col M, Ln 33	$558,394	
12	Amortization of FY2013 expenses - year 2 of 10	Col M, Ln 36	$136,852	
13	Amortization of FY2014 expenses - year 1 of 10	Col M, Ln 39	$300,824	
14		Subtotal	$1,730,632	
15	Base Rate Embedded ERC Funding		$1,310,000	
16	Cost in excess of Allowance		$420,632	
17	Firm Throughput		38,110,517	dths
18	Environmental Response Cost Factor per decatherm		$0.0110	per dth
19	Environmental Response Cost Factor per therm		**$0.0011**	**per therm**

14	Lines (1) to (13)
15	Docket No. 3401
16	Line (14) - Line (15)
17	Company Forecast
18	Line (16) / Line (17)
19	Line (18) / 10

National Grid - RI Gas
Environmental Response Cost (ERC) Factor
ERC Amortization Schedule

Line No.			FY2002 (a)	FY2003 (b)	FY2004 (c)	FY2005 (d)	FY2006 (e)	FY2007 (f)	FY2008 (g)	FY2009 (h)	FY2010 (i)	FY2011 (j)	FY2012 (k)	FY2013 (l)	FY2014 (m)
	ENVIRONMENTAL AMORTIZATION														
1	June 30, 2002														
2	NET ERC costs net of insurance	$12,510,252													
3	Amortization Period (years)	10		$1,251,025	$1,251,025	$1,251,025	$1,251,025	$1,251,025	$1,251,025	$1,251,025	$1,251,025	$1,251,025	$1,251,027	$0	
4	FY 2003														
5	NET ERC costs net of insurance	($6,012,673)													
6	Amortization Period (years)	10			($601,267)	($601,267)	($601,267)	($601,267)	($601,267)	($601,267)	($601,267)	($601,267)	($601,267)	($601,270)	$0
7	FY 2004														
8	NET ERC costs net of insurance	($472,960)													
9	Amortization Period (years)	10				($47,296)	($47,296)	($47,296)	($47,296)	($47,296)	($47,296)	($47,296)	($47,296)	($47,296)	($47,296)
10	FY 2005														
11	NET ERC costs net of insurance	$136,707													
12	Amortization Period (years)	10					$13,671	$13,671	$13,671	$13,671	$13,671	$13,671	$13,671	$13,671	$13,671
13	FY 2006														
14	NET ERC costs net of insurance	$436,020													
15	Amortization Period (years)	10						$43,602	$43,602	$43,602	$43,602	$43,602	$43,602	$43,602	$43,602
16	FY 2007														
17	NET ERC costs net of insurance	($758,291)													
18	Amortization Period (years)	10							($75,829)	($75,829)	($75,829)	($75,829)	($75,829)	($75,829)	($75,829)
19	FY 2008 & adjustment for FY2007														
20	NET ERC costs net of insurance	($45,755)													
21	Amortization Period (years)	10								($4,575)	($4,575)	($4,575)	($4,575)	($4,575)	($4,575)
22	FY 2009														
23	NET ERC costs net of insurance	$965,754													
24	Amortization Period (years)	10									$96,575	$96,575	$96,575	$96,575	$96,575
25	FY 2010														
26	NET ERC costs net of insurance	$2,088,264													
27	Amortization Period (years)	10										$208,826	$208,826	$208,826	$208,826
28	FY 2011														
29	NET ERC costs net of insurance	$4,522,947													
30	Amortization Period (years)	10											$452,295	$452,295	$452,295
31	FY 2012														
32	NET ERC costs net of insurance	$5,583,936													
33	Amortization Period (years)	10												$558,394	$558,394
34	FY 2013														
35	NET ERC costs net of insurance	$1,368,521													
36	Amortization Period (years)	10													$136,852
37	FY 2014														
38	NET ERC costs net of insurance	$3,008,237													
39	Amortization Period (years)	10													
40	Amortization Expense sub-total		$0	$1,251,025	$649,758	$602,462	$616,133	$659,735	$583,906	$579,331	$675,906	$884,732	$1,337,029	$644,393	$1,382,515
38	ENVIRONMENTAL REMEDIATION COSTS														
39	Beginning Balance		$12,510,252	$12,510,252	$6,497,579	$6,024,619	$6,161,326	$6,597,346	$5,839,055	$5,793,300	$6,759,054	$8,847,318	$13,370,265	$18,954,201	$20,322,722
40	Environmental Expenditures, net of Insurance			($6,012,673)	($472,960)	$136,707	$436,020	($758,291)	($45,755)	$965,754	$2,088,264	$4,522,947	$5,583,936	$1,368,521	$3,008,237
41	Ending Balance		$12,510,252	$6,497,579	$6,024,619	$6,161,326	$6,597,346	$5,839,055	$5,793,300	$6,759,054	$8,847,318	$13,370,265	$18,954,201	$20,322,722	$23,330,959
42	ACCUMULATED ENVIRONMENTAL REMEDIATION														
43	Beginning Balance		$0	$0	$1,251,025	$1,900,783	$2,503,245	$3,119,378	$3,779,113	$4,363,019	$4,942,350	$5,618,256	$6,502,988	$7,840,017	$8,484,410
44	Amortization Expense (1)		$0	$1,251,025	$649,758	$602,462	$616,133	$659,735	$583,906	$579,331	$675,906	$884,732	$1,337,029	$644,393	$1,382,515
45	Ending Balance		$0	$1,251,025	$1,900,783	$2,503,245	$3,119,378	$3,779,113	$4,363,019	$4,942,350	$5,618,256	$6,502,988	$7,840,017	$8,484,410	$9,866,925
46	NET ENVIRONMENTAL REMEDIATION COSTS		$12,510,252	$5,246,554	$4,123,836	$3,658,081	$3,477,968	$2,059,942	$1,430,281	$1,816,704	$3,229,062	$6,867,277	$11,114,184	$11,838,312	$13,464,034

(1) Amortization Expense is shown on a June 30 basis

Line No.			FY2015 (n)	FY2016 (o)	FY2017 (p)	FY2018 (q)	FY2019 (r)	FY2020 (s)	FY2021 (t)	FY2022 (u)	FY2023 (v)	FY2024 (w)	
	ENVIRONMENTAL AMORTIZATION												
1	June 30, 2002												
2	NET ERC costs net of insurance	$12,510,252											
3	Amortization Period (years)	10											
4	FY 2003												
5	NET ERC costs net of insurance	($6,012,673)											
6	Amortization Period (years)	10											
7	FY 2004												
8	NET ERC costs net of insurance	($472,960)											
9	Amortization Period (years)	10	$0										
10	FY 2005												
11	NET ERC costs net of insurance	$136,707											
12	Amortization Period (years)	10	$13,668	$0									
13	FY 2006												
14	NET ERC costs net of insurance	$436,020											
15	Amortization Period (years)	10	$43,602	$43,602	$0								
16	FY 2007												
17	NET ERC costs net of insurance	($758,291)											
18	Amortization Period (years)	10	($75,829)	($75,829)	($75,830)	$0							
19	FY 2008 & adjustment for FY2007												
20	NET ERC costs net of insurance	($45,755)											
21	Amortization Period (years)	10	($4,575)	($4,575)	($4,575)	($4,580)	$0						
22	FY 2009												
23	NET ERC costs net of insurance	$965,754											
24	Amortization Period (years)	10	$96,575	$96,575	$96,575	$96,575	$96,579	$0					
25	FY 2010												
26	NET ERC costs net of insurance	$2,088,264											
27	Amortization Period (years)	10	$208,826	$208,826	$208,826	$208,826	$208,826	$208,830	$0				
28	FY 2011												
29	NET ERC costs net of insurance	$4,522,947											
30	Amortization Period (years)	10	$452,295	$452,295	$452,295	$452,295	$452,295	$452,295	$452,292	$0			
31	FY 2012												
32	NET ERC costs net of insurance	$5,583,936											
33	Amortization Period (years)	10	$558,394	$558,394	$558,394	$558,394	$558,394	$558,394	$558,394	$558,390	$0		
34	FY 2013												
35	NET ERC costs net of insurance	$1,368,521											
36	Amortization Period (years)	10	$136,852	$136,852	$136,852	$136,852	$136,852	$136,852	$136,852	$136,852	$136,853	$0	
37	FY 2014												
38	NET ERC costs net of insurance	$3,008,237											
39	Amortization Period (years)	10	$300,824	$300,824	$300,824	$300,824	$300,824	$300,824	$300,824	$300,824	$300,824	$300,821	$0
40	Amortization Expense sub-total		$1,730,632	$1,716,964	$1,673,361	$1,749,186	$1,753,770	$1,657,195	$1,448,362	$996,066	$437,677	$300,821	$0
38	ENVIRONMENTAL REMEDIATION COSTS												
39	Beginning Balance		$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959
40	Environmental Expenditures, net of Insurance		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
41	Ending Balance		$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959	$23,330,959
42	ACCUMULATED ENVIRONMENTAL REMEDIA'												
43	Beginning Balance		$9,866,925	$11,597,557	$13,314,521	$14,987,882	$16,737,068	$18,490,838	$20,148,033	$21,596,395	$22,592,461	$23,030,138	$23,330,959
44	Amortization Expense (1)		$1,730,632	$1,716,964	$1,673,361	$1,749,186	$1,753,770	$1,657,195	$1,448,362	$996,066	$437,677	$300,821	$0
45	Ending Balance		$11,597,557	$13,314,521	$14,987,882	$16,737,068	$18,490,838	$20,148,033	$21,596,395	$22,592,461	$23,030,138	$23,330,959	$23,330,959
46	NET ENVIRONMENTAL REMEDIATION COSTS		$11,733,402	$10,016,438	$8,343,077	$6,593,891	$4,840,121	$3,182,926	$1,734,564	$738,498	$300,821	$0	$0

(1) Amortization Expense is shown on a June 30 basis

National Grid - RI Gas
Environmental Response Cost (ERC) Factor
ERC FY 2014 Detail

Line No.			Total Costs ending 3/31/2013	FY 2014 Costs ending 03/31/2014	Total Costs ending 3/31/2014
			(a)	(b)	(c) = (a) + (b)
1	Environmental Expenses				
2	907 & 908	Allens Avenue	$19,366,948	$716,489	$20,083,438
3	307	PCB Reg Pipe Abandon.	$748,003	$217,676	$965,679
4	379	Petroleum Site	$6,430,012	$1,378,016	$7,808,028
5	700	18 & 21 Holders COR	$2,776,743	$0	$2,776,743
6	161	Canal Street, Westerly	$29,133	$0	$29,133
7	178	Site Inv Connell Hwy Newp	$44,092	$0	$44,092
8	144	Westerly Soil Investigation	$82,184	$0	$82,184
9	171	Contaminated Regulators	$2,949,447	$80,472	$3,029,919
10	781	Mendon Road	$121,355	$0	$121,355
11	782	Tidewater	$1,267,751	$76,505	$1,344,256
12	783	Hamlet	$111,105	$1,967	$113,072
13	--	Thames & Wellington	$5,056,689	$255,258	$5,311,947
14	--	Misc MGP (NEG)	$231,971	$63,769	$295,740
15	--	Insurance Recovery	$1,040,903	$150,980	$1,191,882
16	--	East Providence (First Ave) Holder	$131,533	$67,105	$198,639
17		Sub-Total	$40,387,869	$3,008,237	$43,396,107
18	Insurance Recovery/Settlement				
19	910	Environmental Insurance Settlement		$0	
20	Net FY2014 Environmental Response Costs			$3,008,237	

4(b) This amount reflects a credit of $1,482,810 that the Company received in April 2014
17 Lines (2) through (16)
20 Line (17) + Line (19)

Check Date: **06/18/2013**

nationalgrid

Attachment DIV 1-6
R.I.P.U.C. Docket No. 4514
Page 1 of 3

Check Number: **7000404117**

Vendor ID:	**4000005855**	Amount of Invoices:	**$5,304.75**
Vendor Name:	**CITY OF PROVIDENCE**	Discounts Taken:	**$0.00**
Value Date:	**06/18/2013**	Amount of Payment:	**$5,304.75**

Transmission Distribution Adjustment Charge Filing

Please be advised that **NATIONAL GRID USA SERVICE COMPANY, INC** has generated a payment on behalf of **THE NARRAGANSETT ELECTRIC COMPANY**. The invoice payment details are as follows:

Origin	Invoice Number	Invoice Date	Invoice Received Date	Gross Amount	Discount Taken	Paid Amount	PO ID	Payment Message
NONPO	6112013	06/11/2013	06/18/2013	$5,304.75	$0.00	$5,304.75		Public Street National Grid Easement
				$5,304.75	$0.00	$5,304.75		

Contact the Accounts Payable Department at **1-888-483-2123** to receive payments electronically, update account information or make inquiries.

National Grid USA - Accounts Payable Department - 300 Erie Blvd West, Syracuse, NY 13202 1-888-4TDC-123 (1-888-483-2123)

DOCUMENT IS PRINTED ON CHEMICALLY REACTIVE PAPER - THE BACK OF THIS DOCUMENT INCLUDES A CHEMICAL WASH WARNING BOX

National Grid
300 Erie Boulevard West
Syracuse, NY 13202-4250

Citibank,NA
One Penn's Way
New Castle, DE 19720

62-20/311

7000404117

Date 06/18/2013

Check Amount $5,304.75****

Pay **** FIVE THOUSAND THREE HUNDRED FOUR AND 75/100 DOLLARS ****

To The Order Of
CITY OF PROVIDENCE
PO BOX 1456
PROVIDENCE, RI 02901-1456

Lorraine M. Lynch
Authorized Signature

Void after 120 Days

⑈7000404117⑈ ⑆031100209⑆ 3886064 7⑈

AAA

ANDOLFO APPRAISAL ASSOCIATES, INC.

REAL ESTATE APPRAISERS AND CONSULTANTS
THE BUSH BUILDING
216 WEYBOSSET STREET • PROVIDENCE • RHODE ISLAND 02903
(401) 273-8989 • FAX (401) 273-2510

May 29, 2013
(Amended from April 22, 2013)

Mr. David Quinn
City Tax Assessor
City of Providence
25 Dorrance Street
Providence, Rhode Island 02903

Re: Proposed Perpetual Easement and Temporary Construction Easement Across Public Street, Providence

Dear Mr. Quinn:

Pursuant to your request we have personally inspected the real estate located on Public Street, otherwise designated as Lots 325 and 489 on Plat 46 of the Tax Assessor's Plat Maps for the City of Providence, State of Rhode Island. The subject is located in the Upper South Providence neighborhood of the city.

The purpose of our inspection and subsequent analysis was to estimate the "as is" fee simple market values of a 15-day temporary construction easement and a perpetual easement for storm water management, or any other purpose, as requested by National Grid. Notably, the easement is needed by National Grid in order for the company to comply with Rhode Island Department of Environmental Management Remediation Regulations as relating to the former Cargill site at 170 Allens Avenue.

Specifically, the proposed easements will run along the center line of Public Street (for 120.11 feet along the length of the parcel and 25.08 feet in width). The temporary easement contains 3,011.86 square feet, while the permanent easement, as located within the boundaries of the temporary easement area, contains 305 square feet according to a map supplied by National Grid. The subject is located in a W-3 Waterfront: Port/maritime Industrial District. The City's Department of Public Works has no objection to this request; however, they will require a Class 1 Survey for recording prior to sale.

We have taken into account a number of factors in arriving at the fee simple market value for the requested easement. The petitioner will gain use of the parcel to further enhance the commercial viability or use of the Cargill site and any other adjacent properties that they may have an interest in.

ANDOLFO APPRAISAL ASSOCIATES, INC.

Mr. David Quinn
Page 2
May 29, 2013
(Amended from April 22, 2013)

Based on an analysis of comparable sales as contained within the offices of Andolfo Appraisal Associates, Inc., a value of $22.00 per foot is hereby estimated for this site.

For the perpetual easement, this value must be reduced by 25% due to fact that the City is not giving up its full fee ownership of the property, i.e., the street, as the proposed easement will affect only a portion of it.

Perpetual Easement

305 square feet x $22.00 per square foot = $6,710 x 75% = $5,032.50

Temporary Construction Easement

3,011.86 square feet x $22.00 p/square foot = $66,261 fee simple market value

$66,261 x .10 land earnings rate x $6,626.10 annual rent

$6,620.10 ÷ 365 days = $18.15 rent per day

15 days of construction x $18.15 per day = $272.25

Therefore, total compensation due to the City has been calculated at $5,304.75 given this revised scope of work as submitted by the petitioner, National Grid.

Respectfully submitted,

ANDOLFO APPRAISAL ASSOCIATES, INC.

William G. Floriani (fad)

William G. Floriani
Certified Residential Appraiser

Thomas S. Andolfo, MAI

Thomas S. Andolfo, MAI
Certified General Appraiser

WGF:TSA/fad

CITY OF PROVIDENCE
STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

PETITION TO THE CITY COUNCIL

TO THE HONORABLE CITY COUNCIL OF THE CITY OF PROVIDENCE:
The undersigned respectfully petitions your honorable body

Amended May 22, 2013

PETITION TO THE PROVIDENCE CITY COUNCIL
FOR AN EASEMENT ON PUBLIC STREET, PROVIDENCE, RHODE ISLAND

WHEREAS, the undersigned, The Narragansett Electric Company d/b/a National Grid, is the owner of the following parcels of land: those certain parcels of real estate appearing on the Providence Assessor's Plat 46, Lots 481, 489, and 501 (the "National Grid Lots"). Those lots along with Plat 46, Lots 128 and 325, will be referred to herein as "170 Allens Avenue" or the "Site"; and

WHEREAS, 170 Allens Avenue is the site of a former manufactured gas plant and bulk petroleum storage and distribution terminal; and

WHEREAS, the Rhode Island Department of Environmental Management ("RIDEM") issued a September 3, 2009 *Letter of Non-Compliance* (Amended November 23, 2009) to National Grid and the other potentially responsible parties, including Cargill, Incorporated ("Cargill"), Dr. Patrick Conley and the Rhode Island State Pier Properties, related to contamination at the 170 Allens Avenue Site; and

WHEREAS, National Grid and Cargill responded to the RIDEM *Letter of Non-Compliance* by submitting to RIDEM a *Supplemental Site Investigation Data Report* (September 2010), a *Remedial Alternative Evaluation Report* (December 2010), a *Sediment Field Investigation Report* (July 2011), and a *Remedial Alternative Evaluation Report Addendum – Containment Wall Design* (December 2011), all in accordance with Rule 7.08 of the RIDEM *Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases* ("Remediation Regulations"); and

WHEREAS, RIDEM issued a publicly-noticed *Program Letter* in February 2012 indicating that the investigation was complete; and

WHEREAS, RIDEM, in accordance with Rule 7.09 of the Remediation Regulations, issued a *Remedial Decision Letter* on July 6, 2012, that formally approved the Site investigation and identified the preferred remedial approach for the Site; and

WHEREAS, the approved preferred remedial approach identified by RIDEM includes containment of non-aqueous phase liquids (NAPL) via installation of a continuous stone collection trench equipped with a partially penetrating liner

downgradient of Lots 325 and 489, and requires the integration of stormwater management systems as depicted on the plans included in Exhibit A; and

WHEREAS, National Grid and Cargill, in accordance with Rule 9.00 of the Remediation Regulations, submitted a Remedial Action Workplan to RIDEM on December 3, 2012;

WHEREAS, Lots 325 and 489 are divided by the eastern end of Public Street, a public way located on land owned by the City of Providence; and

WHEREAS, the approved preferred remedial approach identified by RIDEM requires the installation of a below-grade stone collection trench across the eastern end of Public Street between Lots 325 and 489 in an area twenty-six (26) feet across and three (3) feet wide; and

WHEREAS, the preferred remedial approach identified by RIDEM also requires the installation of two (2) 60-inch diameter concrete manholes and associated stormwater piping within the eastern end of Public Street between Lots 325 and 489 as part of the stormwater management system integration; and

WHEREAS, National Grid will require temporary access to an area of Public Street measuring approximately 26-feet wide and 120-feet long for a period of approximately three weeks to complete installation; and

WHEREAS, National Grid will require the ability to maintain, monitor and repair the stone collection trench, manholes, below grade piping and monitoring wells at the eastern end of Public Street (the "Public Street Area") following installation;

NOW, THEREFORE, the undersigned respectively petitions this Honorable City Council to take all steps necessary and appropriate to grant a perpetual easement, effective on or before June 25, 2013, to National Grid to comply with the approved preferred remedial approach identified by RIDEM at the 170 Allens Avenue Site on the sections of Public Street Area indicated on Exhibit A. Specifically, National Grid requests:

(1) a temporary construction easement for the hatched area covering 3,011.86 square feet as identified in Exhibit A for purposes of installing a stone collection trench, two (2) concrete manholes, and below grade piping and groundwater monitoring wells consistent with the plans shown in Exhibit A;

(2) a perpetual easement for the shaded area covering 305.53 square feet as identified in Exhibit A for purposes of monitoring, maintaining and repairing as necessary a stone collection trench, two (2) concrete manholes, and below grade piping and groundwater monitoring wells consistent with the plans shown in Exhibit A.

Pursuant to this easement, National Grid shall have the right to install, maintain, repair, and replace the improvements indicated in Exhibit A. Further, the City, as landowner, shall grant National Grid the authority to apply for all necessary permits and approvals required to accomplish the same.

Any questions regarding this Petition may be addressed to:

Robin L. Main, Esquire
Hinckley, Allen & Snyder LLP
50 Kennedy Plaza, Suite 1500
Providence, RI 02903
401-274-2000

Kenneth E. Lento, P.E., LSP
Project Manager
Site Investigation & Remediation Group - New England
National Grid
40 Sylvan Road
Waltham, MA 02451
617-791-2627

THE NARRAGANSETT ELECTRIC
COMPANY d/b/a NATIONAL GRID

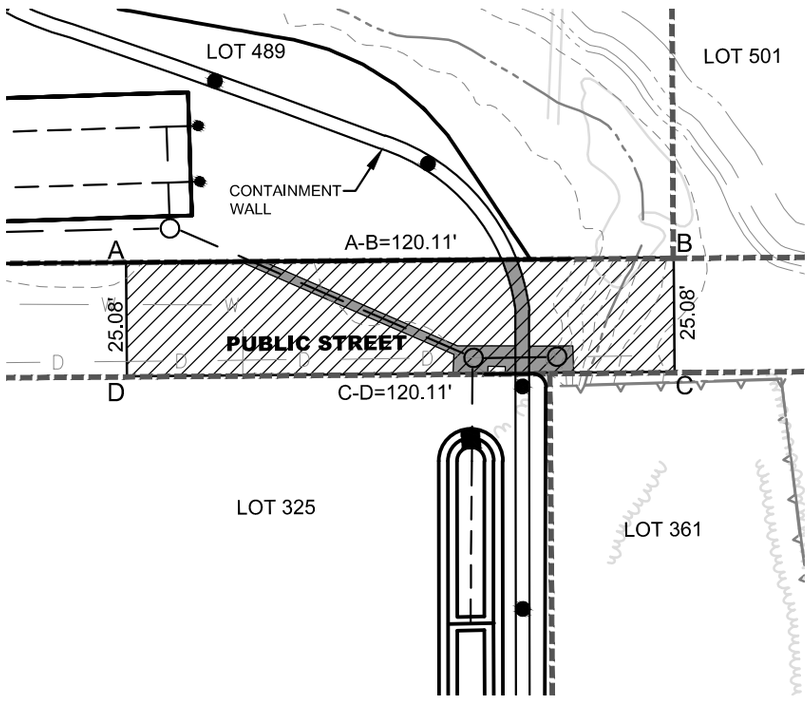
Name: Robin L. Main

Title: Partner

#51624929 (57972/133068)

EXHIBIT A

PROVIDENCE, R.I.
P. W. DEPT. ENGINEERING OFFICE
STREET LINE SECTION
Plan No. 064843
Date April 9, 2013



Notes: Hatched area (A-B-C-D-A) delineates the *temporary construction work area; total square footage = 3,011.86*
Gray shaded area indicates *proposed easement; total square footage = 305.53*

CITY OF PROVIDENCE, R.I.
Public Works Dept. Engineering Office
Showing Proposed easement for Public Street
Drawn by M. Strubel Checked by
Scale 1"=40' Date 4-9-2013
Correct Associate Engr.
Approved
CHEIF ENGINEER

Lot numbers taken from A.P. 46

\\GZAPROV\Jobs\ENV\33576.00.jph\FIGURES\GZA DWGS\CAPPING\8.5x13 MYLAR.dwg May 16, 2013-3:45pm

EFFECTIVE WITHOUT THE MAYOR'S SIGNATURE

THE CITY OF PROVIDENCE
STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

RESOLUTION OF THE CITY COUNCIL

No. 272

EFFECTIVE ~~Approved~~ June 17, 2013

IT IS HEREBY RESOLVED, That His Honor, the Mayor, is authorized to grant non-exclusive sub-surface easement below Public Street and its abutting sidewalk areas in the City of Providence to The Narragansett Electric Company, d/b/a National Grid ("National Grid"). Said easement shall be granted specifically upon the following provisions:

1. The easement shall be utilized only for the installation and maintenance of a below-grade stone collection trench across the eastern end of Public Street between Lots 325 and 489 in an area twenty-six (26) feet across and three (3) feet wide; the installation of two (2) 60-inch diameter concrete manholes and associated stormwater piping within the eastern end of Public Street between Lots 325 and 489 as part of the stormwater management system integration; and temporary access to an area of Public Street measuring approximately 26-feet wide and 120-feet long for a period of approximately three weeks to complete installation. The temporary construction easement shall not exceed 3,011.86 square feet and the perpetual easement shall not exceed 305.53 square feet, plus or minus, with dimensions indicated as a shaded area on the accompanying plan entitled: "Providence, RI Department of Public Works - Engineering Office, Street Line Section Plan No. 064843 dated April 9, 2013."

2. The easement shall be deemed to run with the land and shall operate against any successors in title and the easement or a memorandum of same shall be recorded by National Grid in the Office of Land Records for the City of Providence.

3. National Grid shall tender to the City the sum of five thousand three hundred four dollars and seventy five cents ($5304.75) in legal tender of the United States of America, of which three thousand thirty two dollars and fifty cents ($3,032.50) will be paid for the perpetual easement and two hundred seventy two dollars and twenty five cents ($272.25) will be paid for the temporary construction easement.

4. National Grid shall execute an indemnification and hold-harmless agreement with the City of Providence, to be approved by the City's Department of Law.

5. National Grid shall supply the City of Providence with a comprehensive general liability insurance policy during the period of construction naming said City of Providence, its agents, officers, servants and employees as additional-named insureds in a sum not less than one hundred thousand dollars ($100,000.00) which policy shall be approved by the City's Department of Law.

6. National Grid shall restore the portion of Public Street affected by construction to substantially its previous condition.

7. Such other terms and conditions as may be reflected in the record and minutes of the City Council Committee on Public Works and/or as may be deemed appropriate by the Mayor or the Department of Law.

IN CITY COUNCIL
JUN 06 2013

READ AND PASSED

PRES.

CLERK

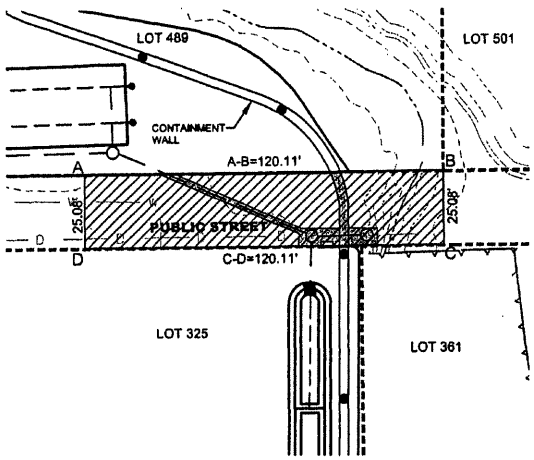
Effective without the Mayor's Signature

Anna M. Stetson
City Clerk

A true copy,
Attest

Anna M. Stetson
City Clerk

PROVIDENCE, R.I.
P. W. DEPT. ENGINEERING OFFICE
STREET LINE SECTION
Plan No. 064843
Date April 9, 2013



Notes: Hatched area (A-B-C-D-A) delineates the *temporary construction work area; total square footage = 3,011.86*
Gray shaded area indicates *proposed easement; total square footage = 305.53*

CITY OF PROVIDENCE, R.I.
Public Works Dept. Engineering Office
Showing Proposed easement for Public Street
Drawn by M. Strubel Checked by
Scale 1"=40' Date 4-9-2013
Correct Associate Engr.
Approved
CHEIF ENGINEER

Lot numbers taken from A.P. 46

\\CZAPROV\Jobs\DIV\33576.00.jph\FIGURES\CZA DWGS\CAPPING\8.5x13 MYLAR.dwg May 16, 2013-3:45pm

768
Q-60

THE CITY OF PROVIDENCE
STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

RESOLUTION OF THE CITY COUNCIL

No. 317

EFFECTIVE ~~APPROVED~~ July 12, 2013

WHEREAS, The Narragansett Electric Company, d/b/a National Grid ("National Grid") is the present beneficiary of City Counsel Resolution No. 272 (effective June 17, 2013); and

WHEREAS, Said resolution contemplated a temporary construction easement not to exceed 3,011.86 square feet and a perpetual easement not to exceed 305.53 square feet for the installation and maintenance of a below-grade stone collection trench across the eastern end of Public Street between Lots 325 and 489 in an area twenty-six (26) feet across and three (3) feet wide; the installation of two (2) 60-inch diameter concrete manholes and associated stormwater piping within the eastern end of Public Street between Lots 325 and 489 as part of the stormwater management system integration; and temporary access to an area of Public Street measuring approximately 26-feet wide and 120-feet long for a period of approximately three weeks to complete installation; and

WHEREAS, The resolution requires amendment to correct the amount of legal tender to be paid for the easement.

NOW, THEREFORE, BE IT RESOLVED, That Paragraph three (3) of Resolution No. 272, effective June 17, 2013, shall be amended to read as follows:

RESOLVED, DECREED, AND ORDERED:

National Grid shall tender to the City the sum of five thousand three hundred four dollars and seventy five cents ($5,304.75) in legal tender of the United States of America, of which five thousand thirty two dollars and fifty cents ($5,032.50) will be paid for the perpetual easement and two hundred seventy two dollars and twenty five cents ($272.25) will be paid for the temporary construction easement.

IN CITY COUNCIL

JUL 02 2013

READ AND PASSED

PRES.

CLERK

Effective without the
Mayor's Signature

Anna M. Stetson
City Clerk

A true copy,
Attest

Anna M. Stetson
City Clerk

Arrival Date	Time		Time for Day	Departure Date	Time		Time For Day	Total Hours	Max Hrs Reg Rate	Rate	Boat Size (ft)	Amount Due
May 19, 2012	11:00 PM	11:59 PM	1.00	May 20, 2012	12:00 AM	1:30 PM	13.50	14.50	26.00	3.17	215	$ 681.55
May 25, 2012	7:00 PM	11:59 PM	5.00	May 26, 2012	12:00 AM	8:00 AM	8.00	13.00	26.00	3.17	215	$ 681.55
June 10, 2012	12:00 PM	11:59 PM	12.00	June 10, 2012	12:00 AM	1:30 PM	13.50	25.50	26.00	3.17	205	$ 649.85
June 16, 2012	11:00 PM	11:59 PM	1.00	June 17, 2012	12:00 AM	1:30 PM	13.50	14.50	26.00	3.17	205	$ 649.85
June 22, 2012	6:00 PM	11:59 PM	6.00	June 23, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205	$ 649.85
June 29, 2012	6:00 PM	11:59 PM	6.00	June 30, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205	$ 649.85
July 6, 2012	6:00 PM	11:59 PM	6.00	July 7, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205	$ 649.85
July 8, 2012	11:00 PM	11:59 PM	1.00	July 10, 2012	12:00 AM	1:30 PM	13.50	14.50	26.00	3.17	166	$ 526.22
July 13, 2012	6:00 PM	11:59 PM	6.00	July 14, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205	$ 649.85
July 20, 2012	6:00 PM	11:59 PM	6.00	July 21, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205	$ 649.85
July 27, 2012	6:00 PM	11:59 PM	6.00	July 28, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205	$ 649.85
												$ 7,088.12
August 3, 2012	6:00 PM	11:59 PM	6.00	August 4, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205.00	$ 649.85
August 10, 2012	6:00 PM	11:59 PM	6.00	August 11, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205.00	$ 649.85
August 13, 2012	2:00 PM	11:59 PM	10.00	August 14, 2012	12:00 AM	1:30 PM	13.50	23.50	26.00	3.17	166.00	$ 526.22
August 17, 2012	6:00 PM	11:59 PM	6.00	August 18, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205.00	$ 649.85
August 24, 2012	6:00 PM	11:59 PM	6.00	August 25, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205.00	$ 649.85
August 31, 2012	6:00 PM	11:59 PM	6.00	September 1, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205.00	$ 649.85
												$ 3,775.47
September 3, 2012	5:00 PM	11:59 PM	7.00	September 4, 2012	12:00 AM	1:30 PM	13.50	20.50	26.00	3.17	166.00	$ 526.22
September 7, 2012	6:00 PM	11:59 PM	6.00	September 8, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205.00	$ 649.85
September 14, 2012	6:00 PM	11:59 PM	6.00	September 15, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205.00	$ 649.85
September 21, 2012	6:00 PM	11:59 PM	6.00	September 22, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205.00	$ 649.85
September 24, 2012	5:00 PM	11:59 PM	7.00	September 25, 2012	12:00 AM	1:30 PM	13.50	20.50	26.00	3.17	166.00	$ 526.22
September 28, 2012	6:00 PM	11:59 PM	6.00	September 29, 2012	12:00 AM	1:30 PM	13.50	19.50	26.00	3.17	205.00	$ 649.85
September 29, 2012	4:00 AM	1:30 PM	9.50					9.50	26.00	3.17	215.00	$ 681.55
September 29, 2012	8:00 AM	11:59 PM	16.00	September 30, 2012	12:00 AM	1:30 PM	13.50	29.50	26.00	3.17	166.00	$ 526.22
October 5, 2012	6:30 PM	11:59 PM	5.50	October 6, 2012	12:00 AM	8:30 AM	8.50	14.00	26.00	3.17	166.00	$ 526.22
							Extra layover time	3.50				$ 83.00
							Boat length	166.00				
							extra charge per foot	0.25			Sept/Oct fees	$ 5,468.83
							sub total	41.50			Parking income for lease term	$ 9,375.00
							2 segments	2.00				
							Additonal Due for Sept 30 dock time	83.00			Total due for lease term	$ 25,707.42

$0.25 per ft for each two hr layover

Division 1-7

Request:

Re: the "Cost Breakdown by Category" for the 170 Allens Avenue project, please:

a. Detail the Consulting activities for which payments were made during the reporting period;

b. Identify the organization that provided each consulting service;

c. Provide copies of all reports, studies, or other documents which communicated the results of activities undertaken or completed by consultants for which payments were made during the reporting period.

Response:

a. Consulting activities conducted during the reporting period for which payment was made include cost estimating, periodic reporting/meetings, groundwater/non-aqueous phase liquid gauging/monitoring/recovery, remedy design/preparation of bid package, bidding support, permitting, hazardous materials survey of buildings to be demolished, construction oversight, site perimeter air monitoring, preparation of Remedial Action Closure Report, preparation of environmental land use restriction submittals, preparation of Public Street easement submittal, and project management.

b. GZA GeoEnvironmental, Inc. conducted the cost estimating, periodic reporting/meetings, groundwater/non-aqueous phase liquid gauging/monitoring/recovery, remedy design/preparation of bid package, bidding support, permitting, hazardous materials survey of buildings to be demolished, construction oversight, site perimeter air monitoring, preparation of Remedial Action Closure Report, preparation of environmental land use restriction submittals, preparation of Public Street easement submittal activities. EECS, Inc. conducted the project management activities.

Prepared by or under the supervision of: Michele Leone

Division 1-7, page 2

c. The following reports, studies, or other documents were prepared during the reporting period:

- *Technical Specifications and Design Drawings for Site Remedial Implementation Bid Solicitation Package,* 170 Allens Avenue, by GZA GeoEnvironmental, Inc., dated April 2013.

- *Petition for Easement on Public Street by The Narragansett Electric Company d/b/a National Grid*, 170 Allens Avenue, by Hinckley, Allen, & Snyder, LLP, dated April 17, 2013.
- *Quarterly Groundwater Monitoring Summary Report #66, Former Northeast Petroleum Bulk Storage Terminal*, by GZA GeoEnvironmental, Inc., dated May 3, 2013.
- *April 2013 Progress Report – 170 Allens Avenue*, by GZA GeoEnvironmental, Inc., dated May 13, 2013.
- *May 2013 Progress Report – 170 Allens Avenue*, by GZA GeoEnvironmental, Inc., dated June 19, 2013.
- *Notice of Start of Work*, by GZA GeoEnvironmental, Inc., dated July 10, 2013.
- *July 2013 Progress Report – 170 Allens Avenue*, by GZA GeoEnvironmental, Inc., dated August 23, 2013.
- *August 2013 Progress Report – 170 Allens Avenue*, by GZA GeoEnvironmental, Inc., dated September 16, 2013.
- *September 2013 Progress Report – 170 Allens Avenue*, by GZA GeoEnvironmental, Inc., dated October 24, 2013.
- *October 2013 Progress Report – 170 Allens Avenue*, by GZA GeoEnvironmental, Inc., dated November 8, 2013.
- *Response to Physical Alteration Permit Application Comments*, 170 Allens Avenue, by GZA GeoEnvironmental, Inc., dated July 10, 2013.
- *Quarterly Groundwater Monitoring Summary Report #67, Former Northeast Petroleum Bulk Storage Terminal*, by GZA GeoEnvironmental, Inc., dated July 16, 2013.
- *Letter to Building Official – Building Permit No. B2013-9061*, by GZA GeoEnvironmental, Inc., dated November 27, 2013.
- *Letter to Building Official – Building Permit No. B2013-9057*, by GZA GeoEnvironmental, Inc., dated November 27, 2013.

Division 1-7, page 3

Please see Attachment DIV 1-7(1 of 8) through DIV1-7 (8 of 8) for copies of the reports, studies, or other documents listed above prepared during the reporting period. Please be advised that due to the voluminous nature of this attachment, the Company is providing Attachment DIV 1-7 (parts 1 through 8) on CD-ROM.

Prepared by or under the supervision of: Michele Leone

Division 1-8

Request:

Re: the "Cost Breakdown by Category" for the 170 Allens Avenue project, please provide full supporting detail for the "Construction/Disposal/ Removal Costs" showing separately costs of each construction, disposal, and removal activity.

Response:

Please see Attachment DIV 1-8 for supporting detail for the "Construction/Disposal/Removal Costs" showing separately each construction, disposal, and removal activity for the reporting period.

Division Data Request DIV 1-8

Date	Payee	Amount	Description of Service
8/15/2103	Charter Environmental, Inc.	$100,971.00	Construction of upland remedy primarily preliminary activities
9/6/2013	Charter Environmental, Inc.	$137,140.20	Construction of upland remedy primarily preliminary activities, demolition and stormwater system installation
10/8/2013	Charter Environmental, Inc.	$514,362.98	Construction of upland remedy primarily demolition, stormwater system installation, containment wall installation and water disposal
11/1/2013	Charter Environmental, Inc.	$440,586.01	Construction of upland remedy primarily demolition, stormwater system installation, containment wall installation, cap installation, and soil management/transportation
12/3/2013	Charter Environmental, Inc.	$295,136.63	Construction of upland remedy primarily demolition, stormwater system installation, cap installation and Allens Ave sidewalk work
1/31/2014	Charter Environmental, Inc.	$832,642.05	Construction of upland remedy primarily stormwater system installation, cap installation, and Allens Ave sidewalk work
2/28/2014	Charter Environmental, Inc.	$22,789.80	Construction of upland remedy primarily fencing and demobilization work
7/2/2013	Clean Harbors Environmental Services, Inc.	$1,806.16	Disposal of dense non-aqueous phase liquid from monitoring well gauging/recovery
10/16/2013	Environmental Soil Management, Inc.	$82,920.45	Thermal treatment for soil
10/24/2013	Environmental Soil Management, Inc.	$40,627.48	Thermal treatment for soil
10/31/2013	Environmental Soil Management, Inc.	$15,399.72	Thermal treatment for soil
	Total:	$2,484,382.48	

Division 1-9

Request:

Re: the PCB Regulated Pipe Abandonment project, please:

a. Provide full supporting detail for the "Construction/Disposal/Removal Costs" shown in the "Cost Breakdown by Category," including separate itemization of costs of each construction, disposal, and removal activity.

b. Provide a detailed explanation of the manner in which the Company's accelerated replacement of gas services and mains impacts its incurrence of PCB Regulated Pipe Abandonment costs.

Response:

a. The supporting detail for the "Construction/Disposal/Removal Costs" shown in the "Cost Breakdown by Category," including separate itemization of costs of each construction, disposal, and removal activity are included in Attachment DIV 1-9.

b. The PCB Regulated Pipe Abandonment project tracks costs associated with the removal of gas pipe from throughout the Rhode Island gas system, as well as in-place PCB testing of pipe as required by the U.S. Environmental Protection Agency. As the pipe is removed, the pipe material is brought to a Company facility where the materials are then consolidated, transported off-site and decontaminated. Any associated condensate and drip water are removed and disposed of from the field by a licensed Hazardous Waste Transporter. The costs included in this project relate to the PCB testing, decontamination and transport of these materials.

   The PCB Regulated Pipe Abandonment costs are directly related the amount of gas pipe that is removed from the system, and this is impacted by numerous factors including the following:

   - The amount of mains and services replaced by the Company. The Company has accelerated its replacement of gas services and mains to improve system reliability;

   - The number of leaks repaired. The Company removes some pipe during repair of system leaks; and

Division 1-9, page 2

- The increased number of state and public works projects. Many towns and the State of Rhode Island have been performing an increased number of infrastructure upgrades and replacements. The Company has been experiencing an increased amount of requests from government agencies to remove gas pipe that had been abandoned in place to allow for the replacement of bridges and installation of new subsurface utilities (i.e., water, sewer and drainage lines) in public right of ways that are becoming increasingly congested below the street level with active and abandoned piping.

Prepared by or under the supervision of: Michele Leone

Division Data Request DIV 1-9

Date	Payee	Invoice Number	Amount	Description of Services
01/07/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1230311	$139.97	Transport and decontamination of pipe from Prov-Melrose Service Center
01/17/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1342144	$645.21	Transport and decontamination of pipe from Prov-Melrose Service Center
01/17/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1342303	$2,283.18	Transport and decontamination of pipe from Prov-Dexter St. Service Center
01/17/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1342175R	$622.74	Transport and decontamination of pipe from Prov-Melrose Service Center
01/18/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1344000	$2,667.65	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
01/30/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1356202	$3,609.78	Transport and decontamination of pipe from Prov-Melrose Service Center
01/30/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1356220	$3,679.87	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
02/04/13	CLEAN HARBORS ENVIRONMENTAL SVCS	RI1362515	$4,011.97	Transport and decontamination of pipe from Prov-Melrose Service Center
02/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1364829	$622.74	Transport and decontamination of pipe from Middletown Service Center
02/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1364826	$622.74	Transport and decontamination of pipe from North Kingstown Service Center
02/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1364793	$3,005.96	Transport and decontamination of pipe from Cumberland Service Center
02/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1364937	$3,149.34	Transport and decontamination of pipe from Prov-Dexter St. Service Center
02/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1364826	$622.74	Transport and decontamination of pipe from North Kingstown Service Center
02/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1364829	$622.74	Transport and decontamination of pipe from Middletown Service Center
02/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1364807	$389.48	Transport and decontamination of pipe from Prov-Melrose Service Center
02/28/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1390783	$2,609.53	Transport and decontamination of pipe from Prov-Melrose Service Center
02/28/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1390780	$2,679.08	Transport and decontamination of pipe from Prov-Melrose Service Center
02/28/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1390793	$3,005.43	Transport and decontamination of pipe from Prov-Dexter St. Service Center
02/28/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1390790	$3,540.63	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
03/04/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1307979	$578.27	Transport and decontamination of pipe from Prov-Melrose Service Center
03/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1396029	$2,423.55	Transport and decontamination of pipe from Prov-Melrose Service Center
03/14/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1307982	$520.56	Transport and decontamination of pipe from Prov-Melrose Service Center
03/14/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1307943	$689.08	Transport and decontamination of pipe from Prov-Melrose Service Center
03/26/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1320315	$2,630.93	Transport and decontamination of pipe from Prov-Melrose Service Center
03/26/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1320322	$2,893.08	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
03/26/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1320355	$4,712.61	Transport and decontamination of pipe from Prov-Dexter St. Service Center
04/03/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1331542	$497.55	Transport and decontamination of pipe from Prov-Melrose Service Center
04/10/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1341270	$2,810.15	Transport and decontamination of pipe from Prov-Melrose Service Center
04/10/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1341277	$2,834.76	Transport and decontamination of pipe from Prov-Melrose Service Center
04/10/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1341275	$622.74	Transport and decontamination of pipe from Prov-Melrose Service Center
04/10/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1341273	$689.08	Transport and decontamination of pipe from Prov-Melrose Service Center
04/17/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1347923	$2,612.20	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
04/17/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1347917	$3,696.11	Transport and decontamination of pipe from Prov-Dexter St. Service Center
05/06/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1370743	$481.50	Transport and decontamination of pipe from Prov-Melrose Service Center
05/08/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1374813	$465.45	Transport and decontamination of pipe from Prov-Melrose Service Center
05/08/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1374816	$2,707.97	Transport and decontamination of pipe from Prov-Melrose Service Center
05/08/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1374806	$3,412.03	Transport and decontamination of pipe from Prov-Melrose Service Center
05/08/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1374811	$512.00	Transport and decontamination of pipe from Prov-Melrose Service Center
05/13/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1382840	$3,391.16	Transport and decontamination of pipe from Prov-Dexter St. Service Center
05/16/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1382841	$2,554.42	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
06/06/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000021601	$428.00	Transport and decontamination of pipe from Prov-Melrose Service Center
06/06/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000021444	$450.47	Transport and decontamination of pipe from Prov-Melrose Service Center
06/06/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000020947	$535.00	Transport and decontamination of pipe from Prov-Melrose Service Center
06/06/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000021569	$2,522.86	Transport and decontamination of pipe from Prov-Melrose Service Center
06/12/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000026912	$3,963.61	Transport and decontamination of pipe from Prov-Dexter St. Service Center
07/02/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000050639	$2,773.44	Transport and decontamination of pipe from Prov-Melrose Service Center
07/02/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000050641	$4,284.82	Transport and decontamination of pipe from Prov-Melrose Service Center
07/08/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000054242	$979.05	Transport and decontamination of pipe from Prov-Melrose Service Center
07/18/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000068262	$689.08	Transport and decontamination of pipe from Prov-Melrose Service Center
07/18/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000068221	$415.16	Transport and decontamination of pipe from Prov-Melrose Service Center
07/18/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000068139	$2,553.02	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
07/23/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000073570	$119.98	Transport and decontamination of pipe from Prov-Melrose Service Center
07/31/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000082018	$666.61	Transport and decontamination of pipe from Prov-Melrose Service Center
07/31/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000082065	$2,765.95	Transport and decontamination of pipe from Lincoln Service Center
07/31/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000082152	$2,890.61	Transport and decontamination of pipe from Prov-Melrose Service Center
08/01/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000085646	$3,450.75	Transport and decontamination of pipe from Prov-Melrose Service Center
08/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000090906	$1,886.95	Transport and decontamination of pipe from Prov-Dexter St. Service Center
08/15/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000102962	$1,847.36	Transport and decontamination of pipe from Prov-Randall Service Center
08/15/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000103132	$3,267.25	Transport and decontamination of pipe from Prov-Dexter St. Service Center
09/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000128002	$301.74	Transport and decontamination of pipe from Prov-Melrose Service Center
09/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000127992	$345.61	Transport and decontamination of pipe from North Kingstown Service Center
09/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000127885	$2,537.24	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
09/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000127984	$2,851.28	Transport and decontamination of pipe from Lincoln Service Center
09/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000128032	$2,946.51	Transport and decontamination of pipe from Prov-Dexter St. Service Center
09/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000128017	$3,788.07	Transport and decontamination of pipe from Prov-Melrose Service Center
10/02/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000160919	$689.08	Transport and decontamination of pipe from North Kingstown Service Center
10/02/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000163156	$2,597.69	Transport and decontamination of pipe from Lincoln Service Center
10/02/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000163158	$2,652.80	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
10/02/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000163161	$4,220.35	Transport and decontamination of pipe from Prov-Melrose Service Center
10/03/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000165866	$3,133.23	Transport and decontamination of pipe from Prov-Dexter St. Service Center
10/16/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000180274	$1,688.46	Transport and decontamination of pipe from Prov-Melrose Service Center
11/04/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000203114	$689.08	Transport and decontamination of pipe from North Kingstown Service Center
11/04/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000203121	$2,202.86	Transport and decontamination of pipe from Prov-Dexter St. Service Center
11/04/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000203120	$2,477.85	Transport and decontamination of pipe from Lincoln Service Center
11/04/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000203117	$2,521.19	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
11/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000205608	$622.74	Transport and decontamination of pipe from Middletown Service Center
11/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000205620	$1,166.03	Transport and decontamination of pipe from Prov-Melrose Service Center

Division Data Request DIV 1-9

Date	Payee	Invoice Number	Amount	Description of Services
11/05/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000203239	$2,446.82	Transport and decontamination of pipe from Prov-Melrose Service Center
11/28/13	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1278380	$622.74	Transport and decontamination of pipe from Kingston Service Center
12/02/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000236283	$2,425.42	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
12/02/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000236266	$2,601.97	Transport and decontamination of pipe from Lincoln Service Center
12/02/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000236291	$2,686.50	Transport and decontamination of pipe from Prov-Dexter St. Service Center
12/02/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000236297	$3,316.20	Transport and decontamination of pipe from Prov-Melrose Service Center
12/03/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000239143	$439.77	Transport and decontamination of pipe from Middletown Service Center
12/03/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000239142	$482.04	Transport and decontamination of pipe from North Kingstown Service Center
12/12/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000252940	$689.08	Transport and decontamination of pipe from North Kingstown Service Center
12/20/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000261548	$1,944.46	Transport and decontamination of pipe from Lincoln Service Center
12/20/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000261506	$3,553.20	Transport and decontamination of pipe from Prov-Melrose Service Center
12/24/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000264751	$2,302.37	Transport and decontamination of pipe from Prov-Dexter St. Service Center
12/24/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000264504	$2,543.66	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
01/09/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000284399	$653.40	Transport and decontamination of pipe from Middletown Service Center
01/09/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000284396	$717.20	Transport and decontamination of pipe from North Kingstown Service Center
01/16/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000290535	$3,139.68	Transport and decontamination of pipe from Prov-Melrose Service Center
01/16/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000290537	$3,705.08	Transport and decontamination of pipe from Lincoln Service Center
01/22/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000296132	$463.10	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
01/23/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000296531	$3,963.58	Transport and decontamination of pipe from Prov-Dexter St. Service Center
02/19/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000331987	$1,957.73	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
02/19/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000331982	$2,749.18	Transport and decontamination of pipe from Prov-Dexter St. Service Center
03/10/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000362303	$717.20	Transport and decontamination of pipe from North Kingstown Service Center
03/10/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000362300	$957.55	Transport and decontamination of pipe from Middletown Service Center
03/10/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000362297	$2,942.23	Transport and decontamination of pipe from Prov-Melrose Service Center
03/12/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000365117	$3,169.38	Transport and decontamination of pipe from Lincoln Service Center
03/17/14	CLEAN HARBORS ENVIRONMENTAL SVCS	1000369543	$4,028.48	Transport and decontamination of pipe from Prov-Allens Ave. Service Center
03/28/14	CLEAN HARBORS ENVIRONMENTAL SVCS	SB1322597	$2,150.84	Transport and decontamination of pipe from Prov-Melrose Service Center
06/10/13	CLEAN HARBORS ENVIRONMENTAL SVCS	1000040210	$3,640.94	Transport and decontamination of pipe from Prov-Melrose Service Center
	CLEAN HARBORS ENVIRONMENTAL SVCS		$606.40	NOTE: This mischarged was corrected in early fiscal year 15 (FY15)
		TOTAL:	$215,804	

Division 1-10

Request:

Re: the "Cost Breakdown by Category" for the PCB Regulated Pipe Abandonment project, please provide full supporting detail for the "Construction/Disposal/ Removal Costs" shown including separate itemization of costs of each construction, disposal, and removal activity.

Response:

Please see the Company's response to Division 1-9(a).

Division 1-11

Request:

Re: the Thames & Wellington project, please:

a. Describe the purpose of each referenced facility and/or utility upgrade and provide a detailed breakdown of the costs associated with those referenced upgrades;

b. Provide copies of the referenced "monthly status reports" provided to RIDEM and detail the costs incurred for preparation of those reports;

c. Provide full supporting detail for the "Consulting Costs" shown in the "Cost Breakdown by Category," including separate itemization of costs of each consulting activity;

d. Provide full supporting detail for the "Construction/Disposal/ Removal Costs" shown in the "Cost Breakdown by Category," including separate itemization of costs of each construction, disposal, and removal activity;

e. Provide supporting detail for the "Property Purchases/Settlements/Legal costs for associated with the Thames & Wellington project for the reporting period.

Response:

a. Two facility/utility projects were performed at the Thames and Wellington Site during the reporting period: (1) upgrade to the National Grid subsurface regulator station and (2) construction of an addition to the Retail Building A (by others). All costs within this reporting period related to the above projects were for only environmental support during the project implementation. The environmental support costs are considered an environmental remediation expense due to the presence of manufactured gas plant (MGP) impacted soil and groundwater within the areas of the projects.

- Regulator Station Upgrade: National Grid installed new vent poles to the gas regulator station located within the south eastern corner of the Site. GZA GeoEnvironmental, Inc. (GZA) provided oversight for soil management activities and Clean Harbors Environmental Services (Clean Harbors) managed and transported the excess soil off-site for treatment/disposal. Coneco Engineers and Scientists (Coneco) provided health and safety monitoring for the workers performing the excavation

activities. Soil was treated and/or disposed of at Environmental Soil Management, Inc. (ESMI) and Clean Harbors. The total cost for environmental support of the regulator station upgrade was $21,074 (GZA oversight: $5,996; Clean Harbors: $4,689; ESMI: $777; and Coneco: $9,612).

- Retail Building A Addition: The owner of Retail Building A built an addition to the building which involved disturbance of the RIDEM-approved engineered cap immediately west of the building. GZA provided oversight for soil management activities and documented the installation of a vapor barrier under the building addition and an engineered cap around the building consistent with other capped areas of the Site. In addition, GZA re-installed the soil gas monitoring points that were disturbed during the construction of the addition. The total cost for environmental support of the addition to Retail Building A was $44,867 (GZA: $17,944; Clean Harbors: $22,806; and ESMI:$4,117).

b. Copies of the monthly status reports are included as Attachment DIV 1-11 and include status reports numbers 29 through 41. Please note that report number 40 should be dated January 10, 2014, however it is incorrectly dated January 10, 2013.

c. For the reporting period "Consulting Costs" totaled $152,367. GZA costs totaled $142,755 for the reporting period and included: $14,624 for meetings/conference calls; $51,704 for routine Site monitoring, including NAPL gauging and recovery and annual groundwater monitoring; $1,063 for the inspection of the engineered cap; $5,813 for gas holder area oxygen release compound pilot testing; $5,267 for monthly reporting to RIDEM; $17,944 for environmental support for Retail Building A addition; $5,996 for environmental support for the upgrade for the gas regulator station upgrade and $40,343 for consulting services related to legal support. In addition, Coneco costs totaled $9,612 for health and safety monitoring in support of the gas regulator station upgrade.

d. For the reporting period "Construction/Disposal/ Removal Costs" totaled $35,009. Clean Harbors costs totaled $22,806 for environmental support for the expansion of retail building A, including stockpile management and loading soil for disposal; $1,079 for pick up and disposal of drums related to quarterly non-aqueouls phase liquid (NAPL) gauging and recovery; $479 related to pick up and disposal of a drum related to oxygen release compound exchange event; $4,689

for environmental support of the regulator station upgrade including soil management and transportation of soil for off-site treatment/disposal; $1,062for transportation and disposal of drums from the annual groundwater sampling event. ESMI costs totaled $777 for excess soil disposal for the gas regulator station upgrade and $4,117 for excess soil disposal from the Retail Building A addition.

e. No property purchases or settlements were made during the twelve months ended March 31, 2014. Legal fees in the amount of $41,595 were paid to Hinckley Allen LLP during the twelve months ended March 31, 2014.

MEMO

530 Broadway
Providence, Rhode Island 02903
Phone - (401) 421-4140
Fax - (401) 751-8613

TO: Joseph Martella- RIDEM

FROM: Todd Greene – GZA

CC: Amy McKinnon – NGRID *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: February 8, 2013

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – January 1 through January 31, 2013
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period January 1, 2013 through January 31, 2013.

SITE ACTIVITIES PERFORMED

No on-site activities were performed by GZA during the period January 1, 2013 to January 31, 2013.

FUTURE WORK/SCHEDULE

GZA is currently preparing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM during the second quarter of 2013.

We trust that this information meets your needs. Please feel free call me at 401-421-2714 or Amy McKinnon at 781-907-3644 if you have any questions.

MEMO

530 Broadway
Providence, Rhode Island 02903
Phone - (401) 421-4140
Fax - (401) 751-8613

TO: Joseph Martella- RIDEM

FROM: Todd Greene – GZA

CC: Amy Willoughby – NGRID *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: March 7, 2013

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – February 1 through February 28, 2013
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period February 1, 2013 through February 28, 2013.

SITE ACTIVITIES PERFORMED

No on-site activities were performed by GZA during the period February 1, 2013 to February 28, 2013.

FUTURE WORK/SCHEDULE

GZA is currently preparing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM during the second quarter of 2013.

We trust that this information meets your needs. Please feel free call me at 401-421-2714 or Amy Willoughby at 781-907-3644 if you have any questions.

MEMO

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

TO: Joseph Martella- RIDEM

FROM: Meg Kilpatrick – GZA

CC: Amy Willoughby – National Grid *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: April 16, 2013

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – March 1 through March 31, 2013
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period March 1, 2013 through March 31, 2013.

SITE ACTIVITIES PERFORMED

On March 29, 2013 GZA responded to a reported cap disturbance at the Site; this cap disturbance consisted of an excavation required as part of an addition to Retail Building A. This cap disturbance and associated response actions performed by National Grid and GZA are described in a memo submitted to RIDEM on April 4, 2013 (via email). No other on-site activities were performed by GZA during the period March 1, 2013 to March 31, 2013.

FUTURE WORK/SCHEDULE

GZA will continue to provide as needed services related to the Retail Building A addition cap disturbance and will continue to provide RIDEM with periodic updates on the cap disturbance. GZA is currently preparing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM during the second quarter of 2013. We also anticipate removing and replacing the oxygen releasing compound (ORC) socks in the five ORC pilot test wells in April/May 2013.

We trust that this information meets your needs. Please feel free call me at 401-421-2719 or Amy Willoughby at 781-907-3644 if you have any questions.

J:\ENV\33327.msk\Task-22 - Soil Cap Construction Services\RIDEM Monthly Status Reports\33327 RIDEM-StatRep-31-4-3-13-final.doc

MEMO

TO: Joseph Martella- RIDEM

FROM: Meg Kilpatrick – GZA

CC: Amy Willoughby – National Grid *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: May 7, 2013

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – April 1 through April 30, 2013
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period April 1, 2013 through April 30, 2013.

SITE ACTIVITIES PERFORMED

On March 29, 2013 GZA responded to a reported cap disturbance at the Site. This cap disturbance was related to an excavation being performed as part of an addition to the west side of Retail Building A. National Grid was unaware of this planned excavation prior to March 29, 2013. This cap disturbance and associated response actions performed by National Grid and GZA were described in a memorandum submitted to RIDEM on April 4, 2013 (via email).

GZA continued to provide as-needed support activities to National Grid, related to the cap disturbance in April 2013. Construction activities were performed by RCL Construction, on behalf of the developer, the Landings Real Estate Group. Between April 15 and April 22, GZA observed backfilling around the foundation walls with onsite material previously removed from the excavation, installation of the vapor barrier described in our April 4, 2013 memorandum, and installation of the concrete building slab (which functions as the new cap within the building addition footprint). At the contractor's request, a layer of filter fabric and three inches of 3/8-inch pea stone were substituted for the three inch sand layer (which was to be installed above the 15 millimeter polyethylene sheet) shown on the vapor barrier detail provided as part of our April 4, 2013 memorandum. Between April 22 and April 26, 2013, approximately 100 tons of displaced soil was disposed offsite at the Environmental Services Soil Management Companies (ESMI) facility in Loudon, New Hampshire by National Grid. All soil displaced by construction of the building addition foundation was either reused as on-Site backfill placed under the building slab or disposed of off-Site at ESMI by National Grid.

No other on-Site activities were performed by GZA during the period April 1, 2013 to April 30, 2013. It is our understanding that the landscape cap restoration will be completed this spring/summer, depending on the contractor's schedule.

FUTURE WORK/SCHEDULE

GZA will continue to provide as-needed services to National Grid related to the Retail Building A addition cap disturbance and will continue to provide RIDEM with periodic updates.

GZA is currently preparing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM during the second quarter of 2013. We also anticipate removing and replacing the oxygen releasing compound (ORC) socks in the five ORC pilot test wells in May/June 2013 and performing Site-wide groundwater elevation monitoring, Site-wide non-aqueous phase liquid (NAPL) gauging and Site outfall evaluations in May 2013.

We trust that this information meets your needs. Please feel free call me at 401-421-2719 or Amy Willoughby at 781-907-3644 if you have any questions.

J:\ENV\33327.msk\Task-22 - Soil Cap Construction Services\RIDEM Monthly Status Reports\33327 RIDEM-StatRep-32-5-7-13-final.doc

MEMO

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

TO: Joseph Martella- RIDEM

FROM: Meg Kilpatrick – GZA

CC: Amy Willoughby – National Grid *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: June 13, 2013

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – May 1 through May 31, 2013
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period May 1, 2013 through May 31, 2013.

SITE ACTIVITIES PERFORMED

GZA continued to provide as-needed support activities to National Grid related to the cap disturbance described in our Monthly Status Report dated April 16, 2013. Construction activities were performed by RCL Construction, on behalf of the developer, the Landings Real Estate Group (Landings). On May 24, GZA observed restoration of disturbed areas west of the building addition. An approximately 3-foot wide area was backfilled with one-foot of clean soil placed over an orange snow fence warning barrier, consistent with the existing onsite landscaped caps. According to RCL, this area will be landscaped in the future. On May 24, GZA also observed restoration of the disturbed brick walkway south of Retail Building A. From GZA's observations, the following was noted: disturbed portions of the walkway were restored by placement of a filter fabric, 10 inches of clean soil and placement of landscape pavers, all consistent with other capped walkway areas; and approximately 10 cubic yards of clean soil (loam) were used as part of these cap restorations. According to Landings, the material was obtained from the Old Simpson Gravel Pit in Tiverton, Rhode Island. Prior to delivery, the Landings Real Estate Group provided GZA and National Grid with laboratory results for VOCs, Total Metals (PP-13), SVOCs and TPH; results were below RIDEM's Residential Direct Exposure Criteria (RDEC).

According to RCL, a retaining wall will be constructed north of the Retail Building A addition that will directly abut the building addition and an existing retaining wall along Harrington Avenue. It is our understanding that the landscape cap restoration will be completed this summer, depending on the contractor's schedule.

The following routine Site monitoring activities were performed on May 3, 2013

- Piezometric groundwater measurements at all groundwater monitoring wells;

- Non-aqueous phase liquid (NAPL) gauging and recovery: Consistent with previous events, measurable NAPL was present in MW-202 (0.7 ft - DNAPL) and MW-307 (1.0 ft- DNAPL), which are located along the seawall on the western side of the Site. Approximately 0.4 gallons and 0.3 gallons of DNAPL were recovered from MW-202 and MW-307, respectively and 0.1 gallons of LNAPL was recovered from the PetroPore unit installed at MW-324.

  In addition, 0.4 feet of DNAPL was observed in well MW-403 which was installed in 2012 as a product gauging and recovery well in the vicinity of MW-202. Approximately 0.4 gallons of DNAPL was recovered from this well on May 3, 2013. The well was gauged again on May 22, 2013 and approximately 0.2 feet of DNAPL was present and approximately 0.2 gallons of DNAPL were recovered. NAPL gauging/recovery at this well will continue on a quarterly basis, in accordance with the existing Site monitoring activities. Recovered NAPL was containerized within a drum and subsequently transported off-Site for disposal by Clean Harbors;

- Stormwater outfall monitoring for sheen discharges: no sheens were observed at either outfall during this monitoring event; and

- On May 22, GZA replaced the oxygen releasing compound (ORC) socks in the five ORC pilot test wells (MW-340, MW-343, MW-344, MW-345 and MW-346). The used ORC socks were placed in a drum and properly disposed off-Site by Clean Harbors.

FUTURE WORK/SCHEDULE

GZA will continue to provide as-needed services to National Grid related to the Retail Building A addition cap disturbance and will continue to provide RIDEM with periodic updates. Following RCL's completion of the landscape restoration, a Closure Report documenting the cap repair activities will be prepared by GZA and submitted to RIDEM.

GZA is currently preparing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM during the second quarter of 2013. We also anticipate performing Site-wide groundwater elevation monitoring, Site-wide non-aqueous phase liquid (NAPL) gauging, Site outfall evaluations and groundwater sampling of eight (8) wells located immediately downgradient of the ORC treatment area in August/September 2013.

We trust that this information meets your needs. Please feel free call me at 401-421-2719 or Amy Willoughby at 781-907-3644 if you have any questions.

J:\ENV\33327.msk\Task-22 - Soil Cap Construction Services\RIDEM Monthly Status Reports\33327 RIDEM-StatRep-33-6-13-13 FINAL.doc

MEMO

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

TO: Joseph Martella- RIDEM

FROM: Meg Kilpatrick – GZA

CC: Amy Willoughby – National Grid *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: July 11, 2013

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – June 1 through June 30, 2013
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period June 1, 2013 through June 30, 2013.

SITE ACTIVITIES PERFORMED

No on-site activities were performed by GZA during the period June 1, 2013 to June 30, 2013.

FUTURE WORK/SCHEDULE

GZA will continue to provide as-needed services to National Grid related to the Retail Building A addition cap disturbance and will continue to provide RIDEM with periodic updates. Following completion of the landscape restoration by RCL Construction (the Retail Building A addition contractor), a Closure Report documenting the cap repair activities will be prepared by GZA and submitted to RIDEM.

National Grid currently plans to install vent poles and a new valve to the gas regulator station located immediately west of Retail Building E in the fall of 2013, however the work may be performed earlier if necessary. This work will include a shallow excavation (approximately 3 to 4 feet) to facilitate installation of new piping, fittings and vent poles on the southeastern portion of the Site. A health and safety plan will be developed for this work and excess soils will be managed and disposed off-Site consistent with applicable regulatory requirements. Activities related to this work will be documented in future Monthly Status Reports.

GZA is currently preparing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM during the second half of 2013. We also anticipate performing Site-wide groundwater elevation monitoring, Site-wide non-aqueous phase liquid (NAPL) gauging, Site outfall evaluations and groundwater sampling of eight (8) wells located immediately downgradient of the ORC treatment area in August/September 2013.

We trust that this information meets your needs. Please feel free call me at 401-421-2719 or Amy Willoughby at 781-907-3644 if you have any questions.

J:\ENV\33327.msk\Task-22 - Soil Cap Construction Services\RIDEM Monthly Status Reports\33327 RIDEM-StatRep-34 7-11-13-FINAL.doc

MEMO

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

TO: Joseph Martella- RIDEM

FROM: Meg Kilpatrick – GZA

CC: Amy Willoughby – National Grid *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: August 19, 2013

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – July 1 through July 31, 2013
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period July 1, 2013 through July 31, 2013.

SITE ACTIVITIES PERFORMED

No on-site activities were performed by GZA during the period July 1, 2013 to July 31, 2013.

FUTURE WORK/SCHEDULE

GZA will continue to provide as-needed services to National Grid related to the Retail Building A addition cap disturbance and will continue to provide RIDEM with periodic updates. Following completion of the landscape restoration by RCL Construction (the Retail Building A addition contractor), a Closure Report documenting the cap repair activities will be prepared by GZA and submitted to RIDEM.

As previously described in the monthly status report dated July 11, 2013, National Grid currently plans to install vent poles and a new valve to the gas regulator station located immediately west of Retail Building E in the fall of 2013, however the work may be performed earlier if necessary. This work will include a shallow excavation (approximately 3 to 4 feet) to facilitate installation of new piping, fittings and vent poles on the southeastern portion of the Site. A health and safety plan will be developed for this work and excess soils will be managed and disposed off-Site consistent with applicable regulatory requirements. Activities related to this work will be documented in future Monthly Status Reports.

GZA is currently preparing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM during the second half of 2013. We also anticipate performing Site-wide groundwater elevation monitoring, Site-wide non-aqueous phase liquid (NAPL) gauging, Site outfall evaluations and groundwater sampling of eight (8) wells located immediately downgradient of the ORC treatment area in August/September 2013.

We trust that this information meets your needs. Please feel free call me at 401-421-2719 or Amy Willoughby at 781-907-3644 if you have any questions.

J:\ENV\33327.msk\Task-22 - Soil Cap Construction Services\RIDEM Monthly Status Reports\33327 RIDEM-StatRep-35 8-19-13-FINAL.doc

MEMO

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

TO: Joseph Martella- RIDEM

FROM: Meg Kilpatrick – GZA
Jim Clark - GZA

CC: Amy Willoughby – National Grid *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: September 17, 2013

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – August 1 through August 31, 2013
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period August 1, 2013 through August 31, 2013.

SITE ACTIVITIES PERFORMED

The following routine Site monitoring activities were performed between August 7 and August 9, 2013.

- Piezometric groundwater measurements at all available groundwater monitoring wells.
- Non-aqueous phase liquid (NAPL) gauging and recovery: consistent with previous events, measurable NAPL was observed in MW-202 (0.5 ft - DNAPL) and MW-307 (0.7 ft- DNAPL), which are located along the seawall on the western side of the Site. Approximately 0.3 gallons of DNAPL were recovered from both MW-202 and MW-307 and 0.1 gallons of LNAPL was recovered from the PetroPore unit installed at MW-324. In addition, 0.1 feet of DNAPL was observed in well MW-403 which was installed in 2012 as a product gauging and recovery well in the vicinity of MW-202. Approximately 0.1 gallons of DNAPL was recovered from MW-403. Recovered NAPL was containerized within a drum and subsequently transported off-Site for disposal by Clean Harbors.
- Stormwater outfall monitoring for sheen discharges: no sheens were observed at either outfall during this monitoring event.

- Groundwater sampling of eight (8) wells (MW-301, MW-302, MW-303, MW-308, MW-309, MW-310, MW-330 and MW-334) located immediately downgradient of the ORC treatment area. Samples were submitted for the following laboratory analyses: volatile organic compounds (VOCs) via EPA Method 8260B and polycyclic aromatic hydrocarbons (PAHs) via EPA Method 8270. Results of this testing will be summarized in our *2013 Annual Monitoring Report*.

FUTURE WORK/SCHEDULE

GZA will continue to provide as-needed services to National Grid related to the Retail Building A addition cap disturbance and will continue to provide RIDEM with periodic updates. Following completion of the landscape restoration by RCL Construction (the Retail Building A addition contractor), a Closure Report documenting the cap repair activities will be prepared by GZA and submitted to RIDEM.

As described in previous monthly reports, National Grid currently plans to install vent poles and a new valve to the gas regulator station located immediately west of Retail Building E in the fall of 2013. This work is anticipated to include a shallow excavation (approximately 3 to 4 feet) to facilitate installation of new piping, fittings and vent poles on the southeastern portion of the Site. A health and safety plan will be developed for this work and excess soils will be managed and disposed off-Site consistent with applicable regulatory and National Grid requirements. Activities related to this work will be documented in future Monthly Status Reports.

GZA is currently preparing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM during the second half of 2013. We also anticipate performing Site-wide groundwater elevation monitoring, Site-wide non-aqueous phase liquid (NAPL) gauging, Site outfall evaluations, Site-wide groundwater sampling and soil gas monitoring in November/December 2013.

We trust that this information meets your needs. Please feel free call me at 401-421-2719 or Amy Willoughby at 781-907-3644 if you have any questions.

J:\ENV\33327.msk\Task-22 - Soil Cap Construction Services\RIDEM Monthly Status Reports\33327 RIDEM-StatRep-36 9-4-13-draft.doc

MEMO

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

TO: Joseph Martella- RIDEM

FROM: Meg Kilpatrick – GZA
Jim Clark - GZA

CC: Amy Willoughby – National Grid *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: October 9, 2013

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – September 1 through September 30, 2013
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period September 1, 2013 through September 30, 2013.

SITE ACTIVITIES PERFORMED

On September 18, 2013, GZA was onsite to observe progress of the Retail Building A building addition construction. GZA observed that surrounding landscape/hardscape cap had been restored, except for areas along the western side of the building addition. According to RCL Construction (the Retail Building A addition contractor), landscape/hardscape cap restoration will be completed in October/November, depending on the contractor's schedule.

No other on-Site activities were performed by GZA during the period September 1, 2013 to September 30, 2013.

FUTURE WORK/SCHEDULE

GZA will continue to provide as-needed services to National Grid related to the Retail Building A addition cap disturbance and will continue to provide RIDEM with periodic updates. Following completion of the landscape restoration by RCL Construction, a Closure Report documenting the cap repair activities will be prepared by GZA and submitted to RIDEM.

As described in previous monthly reports, National Grid currently plans to install vent poles and a new valve to the gas regulator station located immediately west of Retail Building E in the fall of 2013. This work is anticipated to include a shallow excavation (approximately 3 to 4 feet) to facilitate installation of new piping, fittings and vent poles on the southeastern portion of the Site. A health and safety plan will be developed for this work and excess soils will be managed and disposed off-Site consistent with applicable regulatory and National Grid requirements. Activities related to this work will be documented in future Monthly Status Reports.

GZA is currently preparing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM during the second half of 2013. We also anticipate performing Site-wide groundwater elevation monitoring, Site-wide non-aqueous phase liquid (NAPL) gauging, Site outfall evaluations, Site-wide groundwater sampling and soil gas monitoring in November/December 2013.

We trust that this information meets your needs. Please feel free call me at 401-421-2719 or Amy Willoughby at 781-907-3644 if you have any questions.

J:\ENV\33327.msk\Task-22 - Soil Cap Construction Services\RIDEM Monthly Status Reports\33327 RIDEM-StatRep-37 10-9-13-FINAL.doc

MEMO

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

TO: Joseph Martella- RIDEM

FROM: Meg Kilpatrick – GZA
Jim Clark - GZA

CC: Amy Willoughby – National Grid *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: November 19, 2013

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – October 1 through October 31, 2013
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period October 1, 2013 through October 31, 2013.

SITE ACTIVITIES PERFORMED

On October 3, 2013, GZA was on-Site to perform limited maintenance of the armor flex mat walkway installed along Newport Harbor. This maintenance involved the removal of ties from the matting to mitigate a potential tripping hazard.

Between October 30 and 31, 2013, GZA was on-Site to manage excavated soils generated during National Grid's gas regulator station work which was located immediately west of Retail Building E. An approximately 10-foot by 16-foot by 2-foot excavation was performed in the sidewalk and within Thames Street adjacent to the Site by National Grid Gas Operations to facilitate installation of new piping and fittings associated with the gas regulator station.

All excavated soil (approximately 12 cubic yards) was placed in a roll -off container and subsequently transported to a National Grid owned facility for staging pending disposal at a National Grid approved facility. Soils encountered during the excavation activities generally consisted of sand and gravel fill. No visual or olfactory evidence of MGP impacts were observed. Periodically, GZA collected soil samples during excavation activities for total volatile organic compound (TVOC) field screening with a handheld Thermo 580B photoionization detector (PID), equipped with a 10.6ev lamp. Results of the TVOC field screening were below the instrument's detection limit of approximately 1 parts per million (ppm). GZA collected one composite sample of the excavated material placed in the roll-off for waste characterization purposes. The sample was submitted for analytical testing to ESS Laboratory, in Cranston, Rhode Island for volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH),

semi-volatile organic compounds (SVOCs), RCRA 8 metals and reactivity. Once laboratory results are received, the excavated soil will be transported off-Site to a National Grid approved facility.

Soil excavation work associated with the gas regulator station is substantially complete and any further excavation will be limited to hand excavation. It is anticipated that work on the gas regulator station will be completed in November 2013. Any additional excess soils generated during the gas regulator upgrades will be placed in 55-gallon steel drums and transported off-site to a National Grid approved facility. Once the gas regulator upgrades are complete, the excavation will be backfilled with bedding sand.

No other on-Site activities were performed by GZA during the period October 1, 2013 to October 31, 2013.

FUTURE WORK/SCHEDULE

GZA will continue to provide as-needed services to National Grid related to the Retail Building A addition cap disturbance and will continue to provide RIDEM with periodic updates. Following completion of the landscape restoration by RCL Construction, a Closure Report documenting the cap repair activities will be prepared by GZA and submitted to RIDEM.

GZA is currently preparing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM by the end of 2013 or early in 2014. Annual Site-wide groundwater elevation monitoring, non-aqueous phase liquid (NAPL) gauging, outfall evaluations, groundwater sampling and soil gas monitoring was completed between November 4 and 15, 2013. As part of the monitoring round, the two soil gas probes (SG-9 and SG-10) destroyed during construction of the Retail Building A addition were replaced and sampled.

We trust that this information meets your needs. Please feel free call me at 401-427-2719 or Amy Willoughby at 781-907-3644 if you have any questions.

J:\ENV\33327.msk\Task-22 - Soil Cap Construction Services\RIDEM Monthly Status Reports\33327 RIDEM-StatRep-38 11-18-13-FINAL.doc

MEMO

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

TO: Joseph Martella- RIDEM

FROM: Meg Kilpatrick – GZA
Jim Clark - GZA

CC: Amy Willoughby – National Grid *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: December 12, 2013

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – November 1 through November 30, 2013
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period November 1, 2013 through November 30, 2013.

SITE ACTIVITIES PERFORMED

GZA performed the Site wide annual environmental monitoring program from November 4th through November 15, 2013 consistent with the *Remedial Alternative Evaluation Report* submitted to RIDEM on April 17, 2012. The annual environmental monitoring program included the following activities:

- Groundwater sampling of select monitoring wells, which included the semi-annual groundwater monitoring round associated with the ORC treatment area. A total of 50 groundwater samples were collected and submitted for analytical testing for VOCs, TPH, cyanide and phenols;
- Piezometric groundwater measurements at all groundwater monitoring wells;
- Non-aqueous phase liquid (NAPL) gauging and recovery. Consistent with previous events, measurable NAPL was limited to MW-202 (0.5 ft - DNAPL), MW-307 (0.8 ft-DNAPL), and MW-403 (0.3 feet DNAPL) which are located along the seawall on the western side of the Site. A total of approximately 1 gallon of DNAPL was recovered from these three wells. In addition, 0.3 gallons of LNAPL was recovered from the PetroPore unit installed at MW-324. Recovered NAPL was containerized within a drum and subsequently transported off-Site for disposal by Clean Harbors.

- Stormwater outfall monitoring for sheen discharges. No sheens were observed at either outfall during this monitoring event;

- Performance of a soil gas survey around existing building perimeters, A through E, the Club House and pile supported condominium building entrances constructed with slab-on-grade foundations. As part of the soil gas survey, the two soil gas probes (SG-9 and SG-10) destroyed during construction of the Retail Building A addition were replaced and sampled. The new probes were designated SG-9A and SG-10A and were installed by hand in approximately the same location as the previous probes. The probes consist of stainless steel points connected to flexible polyethylene tubing, set in a flush mounted monitoring well road box for protection. A total of 22 soil gas samples were collected and submitted for low level TO-15 analysis plus naphthalene; and

- Annual soil cap inspection. The soil cap appeared to be in good condition. During the cap evaluation, GZA observed that the landscaped areas around the Retail Building A addition were fully restored with mulch and planted flower boxes. In addition, during this inspection, GZA observed that the excavation associated with the gas regulator station upgrade which was performed in October 2013 had been backfilled and disturbed portions of the sidewalk adjacent to Retail Building E had been restored.

No other on-Site activities were performed by GZA during the period November 1, 2013 to November 30, 2013.

FUTURE WORK/SCHEDULE

As described above, restoration of cap disturbance associated with construction of the Retail Building A addition has been completed. A Closure Report documenting the cap repair activities will be prepared by GZA and submitted to RIDEM in early 2014.

Soil excavation work associated with the gas regulator station upgrade is substantially complete and any further excavation will be limited to hand excavation. It is anticipated that work on the gas regulator station will be completed in December 2013. Any additional excess soils generated during the gas regulator upgrades will be placed in 55-gallon steel drums and transported off-site to a National Grid approved facility.

GZA is currently preparing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM by the end of 2013 or early in 2014.

We trust that this information meets your needs. Please feel free call me at 401-427-2719 or Amy Willoughby at 781-907-3644 if you have any questions.

J:\ENV\33327.msk\Task-22 - Soil Cap Construction Services\RIDEM Monthly Status Reports\33327 RIDEM-StatRep-39 12-12-13-FINAL.doc

MEMO

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

TO: Joseph Martella- RIDEM

FROM: Meg Kilpatrick – GZA
Jim Clark - GZA

CC: Amy Willoughby – National Grid *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: January 10, 2013

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – December 1 through December 31, 2013
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period December 1, 2013 through December 31, 2013.

SITE ACTIVITIES PERFORMED

On December 4, 2013, GZA was on-Site to provide soil management oversight related to the excavated soils generated during National Grid's gas regulator station work which was located immediately west of Retail Building E. Limited excavation was performed by National Grid to facilitate installation of a vent pole associated with the gas regulator station; this limited excavation resulted in generation of one 55-gallon drum of soil, which was transported off-Site by Clean Harbors Environmental Services and disposed at a licensed receiving facility.

No other on-Site activities were performed by GZA during the period December 1, 2013 to December 31, 2013.

FUTURE WORK/SCHEDULE

As described in previous status reports, restoration of the cap disturbance associated with construction of the Retail Building A addition has been completed. A Closure Report documenting the cap repair activities will be prepared by GZA and submitted to RIDEM in early 2014.

Soil excavation work associated with the gas regulator station upgrade is substantially complete and any further excavation will be limited to hand excavation. It is anticipated that work on the gas regulator station will be completed in early 2014. Any additional excess soils generated during the gas regulator upgrades will be placed in 55-gallon steel drums and transported off-Site to a National Grid approved facility.

GZA is currently finalizing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM early in 2014.

We trust that this information meets your needs. Please feel free call me at 401-427-2719 or Amy Willoughby at 781-907-3644 if you have any questions.

J:\ENV\33327.msk\Task-22 - Soil Cap Construction Services\RIDEM Monthly Status Reports\33327 RIDEM-StatRep-40 1-10-13-FINAL.doc

MEMO

530 Broadway
Providence
Rhode Island
02909
401-421-4140
Fax: 401-751-8613
http://www.gza.com

TO: Joseph Martella- RIDEM

FROM: Meg Kilpatrick – GZA
Jim Clark - GZA

CC: Amy Willoughby – National Grid *(sent via email)*
Kathy Anderson – Wellington *(sent via email)*

DATE: February 06, 2014

FILE NO.: 03.0033327.00-C

RE: Monthly Status Report – January 1 through January 31, 2014
Former Providence Gas Co. Manufactured Gas Plant
Wellington Avenue and Thames Street
Newport, Rhode Island
RIDEM Case No. 2006-055

Sent via email

The following summarizes response actions completed at the above-referenced property (Site) for the period January 1, 2013 through January 31, 2014.

SITE ACTIVITIES PERFORMED

No on-Site activities were performed by GZA during the period January 1, 2014 to January 31, 2014.

FUTURE WORK/SCHEDULE

Soil excavation work associated with the gas regulator station upgrade is substantially complete and any further excavation will be limited to hand excavation. It is anticipated that work on the gas regulator station will be completed in early 2014. Note that this work is weather dependent and may not be conducted during cold weather. Any additional excess soils generated during the gas regulator upgrades will be transported off-Site to a National Grid approved facility.

GZA anticipates performing Site-wide groundwater elevation monitoring, Site-wide non-aqueous phase liquid (NAPL) gauging and Site outfall evaluations in March 2014.

GZA is currently finalizing an *Annual Monitoring Report* which summarizes the results of remediation and monitoring activities performed in 2012. We currently anticipate this report will be submitted to RIDEM within the next 60 days.

We trust that this information meets your needs. Please feel free call me at 401-427-2719 or Amy Willoughby at 781-907-3644 if you have any questions.

Division 1-12

Request:

Re: Miscellaneous MGP Program Costs, please provide supporting detail for the dollar amounts shown for Miscellaneous MGP Program Costs, and describe the purpose of each activity for which those costs were incurred.

Response:

The detail for the $63,769 in costs included in Miscellaneous MGP Program Costs, Rhode Island, including detail by month the Company labor charged to the project, the specific tasks performed each month, and the specifics of the material and expense costs incurred each month are included in Attachment DIV 1-12.

The labor charges included on this Project are for the following activities:

- Program management: Tasks include the preparation of the Annual Environmental Report for Gas Services, preparation of responses to data requests, reporting and updates to management, program/project management activities related to the overall RI-Gas MGP program and attendance at staff meetings, training and other MGP-related meetings.
- Financial management: Tasks include analyst review of invoices, processing and tracking of invoices, filing of invoices, review and management of consultant and contractor proposal and change notices, annual budgeting, monthly budget review and quarterly budget forecasting.
- Training: Tasks include attendance at coursework required for working at MGP sites.
- RI MGP Site Research: The Company worked with several firms to research information on certain RI-Gas holder and MGP sites.
- Contract program management and financial management: National Grid contracts with EECS, Inc. to provide contract services to support the program and financial management tasks described above to assist the Company's staff.

Division Data Request 1-12
EMPLOYEE LABOR

Month	Activities Performed[1, 2]	Total Labor
April 2013	Program management and financial management	$2,051
May 2013	Program management and financial management	$2,456
June 2013	Program management, financial management and preparation of the annual environmental report	$3,079
July 2013	Program management, financial management and preparation of the annual environmental report	$6,265
August 2013	Program management and financial management	$3,042
September 2013	Program management, financial management and response to Division Requests	$2,092
October 2013	Program management and financial management	$5,482
November 2013	Program management and financial management	$2,563
December 2013	Program management and financial management	$2,315
January 2014	Program management and financial management	$2,696
February 2014	Program management and financial management	$3,104
March 2014	Program management and financial management	$2,135
	TOTAL:	$37,279

Notes:
1. Program management: Tasks include the preparation of the Annual Environmental Report for Gas Services, preparation of Responses to the Division Requests, reporting and updates to management, program/project management activities related to the overall RI-Gas MGP program, and attendance staff meetings, training and other MGP-related meetings.
2. Financial management: Tasks include analyst review of invoices, processing and tracking of invoices, filing of invoices, review and management of consultant and contractor proposal and change notices, annual budgeting, monthly budget review and quarterly budget forecasting.

Division Data Request 1-12
EMPLOYEE EXPENSES

Month	Employee Expenses	Vehicle Charge	Total Expenses
April 2013		$335.98	$335.98
May 2013		$371.29	$371.29
June 2013		$288.30	$288.30
July 2013		$425.09	$425.09
August 2013		$528.29	$528.29
September 2013		$426.16	$426.16
October 2013		$639.16	$639.16
November 2013		$630.61	$630.61
January 2014		$677.68	$677.68
February 2014		$390.65	$390.65
February 2014	$510.57		$510.57
March 2014		$649.76	$649.76
TOTALS	$510.57	$5,362.97	$5,873.54

Notes:

1. Employee expenses. The expenses in February 2014 are for management travel to RI for a Newport MGP meeting, including tolls, parking and vehicle rental.
2. Vehicle charges. These charges are associated with employee use of their personal vehicles to drive to the MGP sites (or other related locations such as the RI Department of Environmental Management offices) associated with RI-Gas. All vehicle charges associated with RI-Gas MGP sites are carried under this general work order.

Division Data Request 1-12

OUTSIDE SERVICES

Month	Payee	Invoice No.	Amount	Description
May 2013	EECS	313	$1,146.00	Contract project and financial management activities
June 2013	Woodard & Curran	99620C	$195.92	Training (NEG share)
June 2013	GZA GeoEnvironmental, Inc.	0670373	$6,206.08	RI Gas Holder/MGP Site Research
August 2013	GZA GeoEnvironmental, Inc.	0673363	$560.84	RI Gas Holder/MGP Site Research
September 2013	EECS, Inc.	316	$4,692.00	Contract project and financial management activities
January 2014	EECS, Inc.	320	$1,636.00	Contract project and financial management activities
February 2014	EECS, Inc.	318	$568.47	Contract project and financial management activities
February 2014	Hinckely Allen	942586	$511.22	RI Gas Holder/MGP Site Research
March 2014	EECS, Inc.	325	$1,023.80	Contract project and financial management activities
March 2014	History Associates	3913.010-01	$4,040.00	RI Gas Holder/MGP Site Research
March 2014	CHWMEG	Various	$35.70	Disposal facility audits (NEG share)
		TOTAL:	$20,616.03	

Division 1-13

Request:

Re: the "Insurance Recovery Activities" addressed on page 14 of 18 of the Environmental Report, please provide a detailed itemization of costs included in the $150,980 of "Property Purchases/Settlements/Legal costs as well as the reasons for the Company's incurrence of those costs."

Response:
A detailed itemization of the Property Purchase/Settlements/Legal costs incurred in support of the Company's insurance recovery activities is included in Attachment DIV 1-13.

The costs were incurred by the Company for the environmental insurance and third party recovery activities, and include legal fees and expenses related to *OneBeacon America Insurance Company v. The Narragansett Electric Company*, Commonwealth of Massachusetts, County of Suffolk, Superior Court, Civil Docket No. SUCV2005-03086, and *The Narragansett Electric Company v. American Home Assurance, et al.*, Case No. 11 CIV 8299 (SDNY) 2011, in which the Company is pursuing insurance coverage for liabilities or potential liabilities associated with the environmental remediation of numerous sites.

Prepared by or under the supervision of: Michele Leone

Division Request 1-13

Vendor	Invoice Date	Invoice Number	Invoice Amount
COVINGTON & BURLING	4/23/2013	60603831	$419.50
COVINGTON & BURLING	4/30/2013	60603832	$10,077.94
COVINGTON & BURLING	5/24/2013	60606844	$494.88
COVINGTON & BURLING	5/30/2013	60607193	$8,139.13
COVINGTON & BURLING	6/28/2013	60610104	$247.47
COVINGTON & BURLING	7/30/2013	60613001	$26,386.60
COVINGTON & BURLING	8/23/2013	60615731	$52.31
COVINGTON & BURLING	8/23/2013	60615732	$136.62
COVINGTON & BURLING	7/26/2013	60612880	$145.08
COVINGTON & BURLING	6/28/2013	60610105	$146.11
COVINGTON & BURLING	7/26/2013	60612879	$456.31
COVINGTON & BURLING	9/12/2013	60618467	$1,063.80
COVINGTON & BURLING	9/24/2013	60618844	$6,542.84
COVINGTON & BURLING	9/24/2013	60618845	$9,390.67
COVINGTON & BURLING	6/28/2013	60610106	$14,772.63
COVINGTON & BURLING	8/31/2013	60616059	$20,078.81
COVINGTON & BURLING	11/15/2013	60622824	$2,157.42
COVINGTON & BURLING	10/25/2013	60621361	$4,294.85
COVINGTON & BURLING	10/29/2013	60621482	$11,565.94
COVINGTON & BURLING	11/15/2013	60623016	$22,732.71
COVINGTON & BURLING	12/23/2013	60627062	$52.65
COVINGTON & BURLING	12/23/2013	60627063	$239.80
COVINGTON & BURLING	12/23/2013	60627064-D1	$281.91
COVINGTON & BURLING	1/31/2014	60629865	$102.24
COVINGTON & BURLING	1/31/2014	60629866	$1,222.22
COVINGTON & BURLING	1/31/2014	60629867	$2,774.19
COVINGTON & BURLING	2/28/2014	60632274	$459.22
COVINGTON & BURLING	2/27/2014	60632011	$1,461.36
SALLY & FITCH LLP	4/16/2013	20675	$10.50
SALLY & FITCH LLP	5/13/2013	20936	$10.50
SALLY & FITCH LLP	6/11/2013	21225	$64.60
SALLY & FITCH LLP	8/22/2013	21818	$13.00
SALLY & FITCH LLP	7/12/2013	21404	$32.36
SALLY & FITCH LLP	9/19/2013	22080	$227.60
SALLY & FITCH LLP	10/16/2013	22447	$28.20
SALLY & FITCH LLP	12/13/2013	22892	$89.49
SALLY & FITCH LLP	11/19/2013	22700	$3,803.47
SALLY & FITCH LLP	1/17/2014	23183	$61.80
SALLY & FITCH LLP	2/19/2014	23471	$465.40
SALLY & FITCH LLP	3/17/2014	23705	$277.38
		Total:	**$150,980**

Division 1-14

Request:

Re: the East Providence (First Ave) Holder project, please provide full copies of the Site Investigation Report that was submitted to RIDEM and the referenced March 2014 Remedial Decision Letter from RIDEM.

Response:

The Site Investigation Report and March 2014 Remedial Decision Letter from RIDEM are included as Attachment DIV 1-14. Due to the voluminous nature of this attachment, the Company will provide a copy of Attachment DIV 1-14 on CD-ROM.

Division 1-15

Request:

Re: The August 1, 2014 Direct Testimony of Yi-An Chen

Re: witness Chen's Direct Testimony page 21 of 21, please provide monthly forecasted and actual throughput for each of the previous five years, since the 2008 base rate case.

Response:

As discussed with the Division on August 20, the request has been revised to state "Re: witness Chen's Direct Testimony page 21 of 21, please provide monthly forecasted and actual throughput for each of most recent five years."

Attachment DIV 1-15provides the actual and forecasted throughput per rate class for each of most recent five years.

Prepared by or under the supervision of: Yi-An Chen

Actual Throughput

Line No.													
1 Total THROUGHPUT	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Total Nov-Oct
2 Residential Non-Heating	53,856	72,115	106,210	85,485	75,061	56,075	43,806	34,773	31,337	26,038	28,156	33,639	646,551
3 Residential Non-Heating Low Income	1,228	1,917	3,920	3,982	3,696	2,198	1,465	866	681	585	655	756	21,950
4 Residential Heating	976,902	1,638,849	3,063,886	2,797,453	2,247,579	1,308,570	766,843	457,783	366,674	321,108	338,065	425,857	14,709,569
5 Residential Heating Low Income	109,132	175,730	337,180	316,550	289,312	165,907	107,144	65,672	47,950	40,882	43,526	51,457	1,750,443
6 Small C&I	124,663	230,236	615,969	359,350	354,709	183,324	102,574	58,577	50,135	42,040	46,311	65,398	2,233,285
7 Medium C&I	425,491	449,907	930,575	835,398	671,940	439,102	295,416	196,705	149,455	142,448	152,484	196,447	4,885,368
8 Large LLF	180,464	290,578	490,080	426,559	365,310	244,444	100,305	45,612	38,049	27,900	38,826	99,205	2,347,332
9 Large HLF	86,690	109,587	154,726	124,162	114,752	91,765	86,261	64,197	60,689	61,050	68,627	69,027	1,091,535
10 Extra Large LLF	51,235	83,127	123,668	123,362	85,471	47,925	38,794	17,451	16,783	17,068	20,013	38,137	663,035
11 Extra Large HLF	333,251	426,626	607,985	470,824	438,676	386,535	340,319	423,516	380,905	380,857	339,859	360,859	4,890,213
12 Default	20,878	12,047	18,196	6,670	3,609	10,153	4,098	2,672	2,303	3,253	2,834	3,429	90,142
13 Total Throughput	2,363,789	3,490,719	6,452,394	5,549,796	4,650,116	2,935,998	1,887,027	1,367,824	1,144,962	1,063,229	1,079,356	1,344,214	33,329,423

Source: GCR Deferred Filed Oct 10 - Docket 4097

14 Total THROUGHPUT	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Total Nov-Oct
15 Residential Non-Heating	40,798	63,453	80,291	77,880	71,380	60,827	42,710	35,440	29,795	25,513	28,158	28,795	585,039
16 Residential Non-Heating Low Income	1,398	2,777	3,680	3,784	3,139	2,654	1,609	945	705	596	638	667	22,592
17 Residential Heating	920,353	2,013,046	2,959,905	3,016,557	2,557,241	1,843,901	913,059	514,509	367,950	338,829	351,381	377,486	16,174,218
18 Residential Heating Low Income	104,771	205,482	294,768	304,459	263,112	220,131	115,189	71,759	51,639	42,811	45,777	48,508	1,768,404
19 Small C&I	115,197	292,499	487,812	495,049	407,231	275,546	123,393	68,788	54,697	46,827	46,018	47,648	2,460,705
20 Medium C&I	322,479	626,850	873,151	899,816	786,557	554,864	318,922	208,954	189,986	121,538	166,023	195,868	5,265,007
21 Large LLF	176,764	367,168	455,172	487,722	389,060	282,755	125,613	58,087	41,662	42,566	44,577	69,654	2,540,801
22 Large HLF	81,749	116,825	127,494	113,623	120,363	95,529	73,082	64,285	56,843	60,854	59,935	60,163	1,030,743
23 Extra Large LLF	90,335	184,501	173,230	177,020	139,442	117,347	52,426	16,660	15,713	18,268	21,217	46,703	1,052,861
24 Extra Large HLF	419,788	530,783	536,003	517,936	496,568	443,910	379,698	390,642	352,576	395,175	369,575	370,086	5,202,740
25 Default	6,488	8,866	9,625	7,820	7,946	6,143	3,930	1,961	4,023	1,378	1,818	2,170	62,168
26 Total Throughput	2,280,120	4,412,249	6,001,130	6,101,665	5,242,037	3,903,607	2,149,631	1,432,031	1,165,590	1,094,353	1,135,116	1,247,749	36,165,279

Source: GCR Deferred Filed Oct 11 -Docket No. 4199

27 Total THROUGHPUT	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Total Nov-Oct
28 Residential Non-Heating	44,902	58,419	74,486	80,015	74,243	58,071	44,656	34,394	28,068	26,163	26,022	30,065	579,502
29 Residential Non-Heating Low Income	1,359	1,937	2,622	2,598	2,895	1,917	1,163	778	656	736	661	872	18,195
30 Residential Heating	960,000	1,459,048	2,163,628	2,410,188	2,120,996	1,370,734	837,999	497,026	368,362	341,313	331,780	434,145	13,295,220
31 Residential Heating Low Income	114,787	155,722	228,341	228,599	220,671	142,168	85,332	55,790	41,653	39,722	37,547	48,823	1,399,154
32 Small C&I	122,071	197,162	331,804	365,172	314,636	190,004	104,113	55,623	47,044	43,411	37,395	47,403	1,855,837
33 Medium C&I	354,746	479,700	662,670	792,433	628,082	468,331	262,106	144,216	174,869	152,213	151,656	200,672	4,471,693
34 Large LLF	209,947	279,896	367,039	494,826	347,270	217,441	111,848	64,048	28,500	38,057	41,427	64,497	2,264,794
35 Large HLF	79,582	84,517	95,169	108,139	95,733	77,086	64,492	62,286	53,390	47,435	67,858	67,115	902,801
36 Extra Large LLF	120,944	120,883	133,177	211,833	153,086	86,165	60,302	20,222	5,670	15,557	13,889	25,817	967,546
37 Extra Large HLF	431,555	445,798	463,288	581,948	472,111	422,375	376,980	375,871	380,328	379,943	410,312	363,453	5,103,962
38 Default	4,486	5,240	5,962	9,219	5,189	4,187	11,286	(4,444)	1,056	1,283	1,076	1,687	46,227
39 Total Throughput	2,444,380	3,288,323	4,528,185	5,284,970	4,434,912	3,038,478	1,960,277	1,305,809	1,129,595	1,085,833	1,119,620	1,284,548	30,904,930

Source: GCR Deferred Filed Oct 12 - Docket No. 4283

	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Total Nov-Oct
40 Total THROUGHPUT													
41 Residential Non-Heating	45,986	78,983	98,907	109,290	100,574	85,531	54,040	36,130	28,862	27101.5	27610.2	30903.9	723,920
42 Residential Non-Heating Low Income	1,703	3,229	4,277	4,875	3,978	2,925	1,352	914	865	851.2	903.3	1087.6	26,961
43 Residential Heating	902,551	1,903,463	2,537,878	2,912,936	2,519,777	1,994,126	1,004,359	517,766	368,525	351754.2	355842.8	413994.1	15,782,971
44 Residential Heating Low Income	94,997	190,048	248,229	279,036	237,030	188,891	94,414	52,160	41,890	40616.8	40489.1	45534.6	1,553,337
45 Small C&I	106,317	269,726	399,055	480,777	383,824	278,735	128,656	49,170	40,658	44578.6	35651.1	49094.1	2,266,242
46 Medium C&I	290,265	651,514	762,706	903,074	782,902	588,764	325,217	187,113	158,376	162880.9	161806.7	196052.9	5,170,670
47 Large LLF	165,962	443,134	393,008	524,921	397,466	366,696	121,469	39,332	25,608	38823.8	45302.6	78374.5	2,640,097
48 Large HLF	79,960	115,555	121,058	134,042	113,580	113,111	69,178	68,502	71,204	63883.2	84826.5	84959.5	1,119,859
49 Extra Large LLF	95,882	201,014	187,246	316,328	97,718	300,780	(64,639)	(226)	(10,571)	12440.6	39524.5	40905.4	1,216,404
50 Extra Large HLF	437,237	550,319	518,236	633,997	460,632	561,744	351,363	281,695	477,302	397396.1	400826.2	365361.6	5,436,109
51 Default	1,820	8,109	7,008	9,834	5,832	6,429	1,890	(1,714)	1,457	1242	946.3	1264.5	44,117
52 Total Throughput	2,222,680	4,415,092	5,277,609	6,309,110	5,103,315	4,487,733	2,087,298	1,230,842	1,204,176	1,141,569	1,193,729	1,307,533	35,980,686

Source: GCR Deferred Filed Oct 13 for Nov 12 through Mar 13, GCR Annual Reconciliation Filing Filed July 14 for Apr through Oct 13- Docket No. 4346

	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Total Nov-Oct
53 Total THROUGHPUT													
54 Residential Non-Heating	52,939	103,262	141,802	141,832	138,940	103,094	65,116	37,167	29,077				813,229
55 Residential Non-Heating Low Income	2,401	5,198	6,878	6,529	6,217	4,678	3,213	1,508	1,202				37,823
56 Residential Heating	969,814	2,219,000	3,163,797	3,145,750	3,050,687	2,122,865	1,108,093	513,737	372,360				16,666,104
57 Residential Heating Low Income	99,566	219,809	302,587	289,373	283,752	210,481	123,623	57,730	44,605				1,631,526
58 Small C&I	115,595	324,268	517,511	521,961	496,004	313,467	141,840	58,923	44,241				2,533,810
59 Medium C&I	339,084	715,690	978,145	985,947	945,350	673,391	379,559	177,424	163,633				5,358,223
60 Large LLF	196,886	428,144	556,305	592,564	504,099	398,954	144,352	31,578	26,751				2,879,633
61 Large HLF	101,997	101,893	109,799	211,968	120,561	88,497	87,495	78,183	70,014				970,407
62 Extra Large LLF	106,115	238,139	242,187	250,714	181,749	191,500	37,882	1,542	(14,385)				1,235,444
63 Extra Large HLF	436,198	535,096	614,901	643,699	507,630	575,138	321,206	401,607	367,134				4,402,609
64 Default	2,475	7,881	7,468	49,428	3,273	65,503	(12,974)	71,604	(37,929)				156,730
65 Total Throughput	2,423,071	4,898,381	6,641,379	6,839,764	6,238,261	4,747,568	2,399,405	1,431,004	1,066,704				36,685,536

Source: GCR Deferred Filed July 14 - Docket No. 4436 (Note Nov 13 Total Throughput should have ben 2,423,071 dth as reported in GCR Annual Reconciliation Filing Filed July 14.)

Forecasted Throughput

Line No.													
1 Total THROUGHPUT	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Total Nov-Oct
2 Residential Non-Heating	46,350	60,595	74,986	74,836	65,606	62,697	59,731	49,819	41,240	37,916	37,067	39,674	650,517
3 Residential Heating	1,039,084	1,973,922	2,916,336	3,018,749	2,542,355	1,926,568	1,205,748	697,238	460,692	374,569	407,299	558,900	17,121,459
4 Small C&I	147,903	297,612	460,582	481,750	413,015	298,434	162,103	99,689	77,031	67,983	75,604	90,438	2,672,144
5 Medium C&I	395,678	654,350	916,290	949,435	886,185	563,556	388,203	260,711	184,607	174,705	188,841	260,845	5,823,405
6 Large LLF	227,001	377,970	503,601	494,466	445,219	327,708	175,075	102,746	69,399	52,596	63,335	108,342	2,947,458
7 Large HLF	92,131	112,565	127,363	124,629	122,203	99,635	86,190	78,097	65,848	81,556	79,808	74,511	1,144,535
8 Extra Large LLF	74,630	114,316	124,814	119,271	111,303	79,128	38,897	36,736	34,015	29,602	29,260	40,527	832,500
9 Extra Large HLF	385,937	358,521	421,606	372,201	388,649	456,719	315,865	288,018	262,033	270,396	319,180	327,791	4,166,917
10 Total Throughput	2,408,713	3,949,851	5,545,579	5,635,335	4,974,536	3,814,446	2,431,812	1,613,054	1,194,866	1,089,323	1,200,393	1,501,028	35,358,936

Source: GCR Filing Docket No. 4097

11 Total THROUGHPUT	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Total Nov-Oct
12 Residential Non-Heating	54,674	70,653	82,003	87,827	78,867	70,493	60,870	46,251	39,370	33,934	33,888	39,380	698,210
13 Residential Heating	1,104,878	2,046,100	2,750,982	2,917,818	2,636,773	1,990,787	1,114,772	639,475	404,535	324,025	378,664	506,454	16,815,263
14 Small C&I	117,722	232,014	356,367	380,345	326,862	224,723	116,333	61,244	58,320	40,721	20,031	51,998	1,986,681
15 Medium C&I	360,318	470,932	716,407	756,775	662,446	445,309	294,061	202,007	149,943	139,727	129,491	186,498	4,513,915
16 Large LLF	174,826	311,925	394,697	409,350	378,527	288,000	136,863	72,453	36,018	37,131	30,799	77,599	2,348,189
17 Large HLF	78,177	96,473	108,659	99,221	103,174	98,094	69,605	66,704	48,898	58,178	66,847	73,523	967,552
18 Extra Large LLF	64,465	102,715	174,056	145,431	118,617	84,095	34,091	47,628	9,099	16,197	(1,106)	30,327	825,615
19 Extra Large HLF	313,556	354,899	390,788	385,607	382,070	389,009	287,285	282,978	263,168	272,408	311,008	295,370	3,928,147
20 Total Throughput	2,268,616	3,685,711	4,973,960	5,182,373	4,687,337	3,590,511	2,113,880	1,418,739	1,009,352	922,322	969,622	1,261,149	32,083,572

Source: GCR Filing Docket No. 4199

21 Total THROUGHPUT	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Total Nov-Oct
22 Residential Non-Heating	48,787	57,359	74,908	72,427	62,047	52,923	43,928	35,764	31,804	28,744	28,529	35,143	572,364
23 Residential Heating	1,028,594	2,284,131	3,445,597	3,365,922	2,511,707	1,705,118	1,081,596	473,491	422,847	362,367	345,116	409,966	17,436,451
24 Small C&I	154,145	306,277	491,295	478,896	407,036	252,709	122,112	47,649	42,243	34,558	49,280	80,503	2,466,704
25 Medium C&I	384,835	683,624	1,039,674	972,492	798,012	420,268	243,494	106,097	128,572	80,628	134,162	213,538	5,205,395
26 Large LLF	226,330	411,067	548,439	496,664	444,434	326,807	120,419	62,590	20,845	19,091	34,149	94,057	2,804,893
27 Large HLF	98,847	95,115	162,692	126,073	121,975	101,638	83,115	79,512	65,664	70,556	57,951	94,502	1,157,639
28 Extra Large LLF	87,436	161,401	189,233	161,912	141,003	80,652	32,713	23,350	12,130	8,024	16,500	37,324	951,676
29 Extra Large HLF	442,612	481,256	649,419	550,308	541,380	501,282	396,175	426,407	385,094	353,465	381,374	451,689	5,560,462
30 Total Throughput	2,471,585	4,480,229	6,601,257	6,224,693	5,027,594	3,441,397	2,123,550	1,254,861	1,109,199	957,434	1,047,061	1,416,722	36,155,583

Source: GCR Filing Docket No. 4283

31 Total THROUGHPUT	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Total Nov-Oct
32 Residential Non-Heating	39,952	59,594	78,573	77,377	66,696	52,095	46,325	34,178	29,995	27,280	27,901	28,447	568,413
33 Residential Heating	1,099,863	2,058,633	3,053,892	3,108,191	2,680,218	1,998,463	1,232,855	674,166	443,392	388,331	399,794	515,751	17,653,549
34 Small C&I	121,739	254,777	460,531	442,493	396,614	264,475	142,278	71,605	53,665	47,990	48,259	48,988	2,353,415
35 Medium C&I	364,651	585,632	838,975	891,201	766,750	540,515	358,911	226,708	183,310	172,711	188,419	212,996	5,330,780
36 Large LLF	222,164	350,835	475,113	467,179	415,605	308,325	143,544	88,793	53,607	46,769	54,797	98,791	2,725,521
37 Large HLF	78,431	92,901	99,967	103,872	103,826	81,907	74,577	60,247	55,624	59,555	62,527	58,297	931,731
38 Extra Large LLF	109,175	161,825	182,320	176,119	149,486	99,241	47,910	23,709	18,513	18,206	23,719	50,092	1,060,314
39 Extra Large HLF	394,798	490,008	441,981	425,484	388,437	340,930	390,126	372,971	371,195	379,890	396,990	371,180	4,763,990
40 Total Throughput	2,430,775	4,054,205	5,631,350	5,691,916	4,967,631	3,685,951	2,436,526	1,552,377	1,209,300	1,140,732	1,202,406	1,384,542	35,387,711

Source: GCR Filing Docket No. 4346

41 Total THROUGHPUT	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Total Nov-Oct
42 Residential Non-Heating	48,298	78,202	111,021	119,337	79,602	64,567	56,216	40,932	31,123	28,396	28,939	35,495	722,127
43 Residential Heating	1,055,948	2,069,091	3,227,307	3,227,172	2,949,996	2,054,509	1,275,453	688,829	437,527	393,560	433,919	517,838	18,331,149
44 Small C&I	127,131	235,525	446,056	416,921	377,264	270,238	159,950	84,920	60,020	57,753	67,751	67,154	2,370,683
45 Medium C&I	361,547	643,182	896,477	881,766	735,106	529,439	377,672	198,292	153,309	146,809	165,423	212,386	5,301,406
46 Large LLF	227,029	394,669	545,109	488,890	450,991	303,505	185,732	73,578	38,435	33,853	47,110	106,920	2,895,821
47 Large HLF	94,792	115,687	137,449	127,574	130,253	104,717	93,374	82,589	64,726	67,975	81,772	75,653	1,176,561
48 Extra Large LLF	166,990	247,809	283,538	273,641	281,556	132,298	72,001	19,075	13,411	13,105	21,219	80,389	1,605,030
49 Extra Large HLF	523,718	621,329	666,342	580,527	631,002	490,774	446,243	423,981	419,902	423,083	412,107	458,867	6,097,877
50 Total Throughput	2,605,454	4,405,494	6,313,298	6,115,828	5,635,770	3,950,046	2,666,640	1,612,196	1,218,453	1,164,534	1,258,241	1,554,701	38,500,653

Source: GCR Filing Docket No. 4436

Redacted

Division 1-16

Request:

Re: witness Chen's Direct Testimony at page 6 of 21, please provide a list of each proposed AGT project the Company has identified for the 2014-2015 period, and for each project indicate:

a. The name of the customer (may be provided subject to confidentiality restrictions);

b. The projected annual gas use volumes for the proposed facility;

c. Description of the advanced technology to be utilized;

d. The estimated amount of the rebate the Company would offer for the project and the basis for computing the estimated rebate;

e. The estimated in-service date for the proposed facility;

f. The anticipated schedule for payment of rebates.

Response:

a. The name of the customer is [redacted]

b. The projected annual gas usage is 100,000 therms.

c. The advanced technology to be utilized is Combined Heat and Power System.

d. The estimated amount of the rebate the Company would offer is $300,000. This amount is based on 75% of the net present value of the Company's estimated margin using the AGT screening tool.

e. The estimated in-service date for the proposed facility is January 2016.

f. The anticipated schedule for payment of rebates is a one-time payment in December 2015.

Prepared by or under the supervision of: Yi-An Chen and Fred Paine

---

Division 1-17

Request:

Re: witness Chen's Direct Testimony at pages 6 and 7 of 21, please provide a list of each project during the last three years that have applied for but been denied rebates under the AGT program including:

a. The name of the customer (may be provided subject to confidentiality restrictions);

b. The projected annual gas use volumes for the proposed facility;

c. Description of the advanced technology proposed;

d. Reason for project denial;

e. Requested Rebate amount.

Response:

There were no projects which applied for but were denied rebates under the AGT program during the last three years.

Prepared by or under the supervision of: Yi-An Chen

Division 1-18

Request:

Re: witness Chen's Direct Testimony page 11 of 21 please provide:

a. The monthly throughput data used for the 12-month period to derive the PBOP Factor.

Response:

The table below contains the monthly throughput data used for the 12-month period to derive the PBOP Factor.

	Monthly throughput (dekatherm)
Nov-14	2,280,698
Dec-14	4,321,303
Jan-15	5,990,384
Feb-15	6,386,798
Mar-15	5,449,161
Apr-15	4,195,580
May-15	2,632,704
Jun-15	1,478,960
Jul-15	1,272,113
Aug-15	1,316,865
Sep-15	1,295,789
Oct-15	1,490,163
Total	38,110,517

Prepared by or under the supervision of: Yi-An Chen

Division 1-19

Request:

Re: witness Chen's Direct Testimony page 16 of 21, at lines 1-3, please provide the referenced "rate base allocation" factors from Docket No. 4323, and the amount of actual capital investment, and the allocated dollar amounts by rate class.

Response:

The Rate Base Allocation percentages approved in the 2012 Rate Case in Docket No. 4323 and used for the allocation of the revenue requirement on actual capital investment to the Company's rate classes is shown below.

Rate Class	Rate Base Amount	Rate Base %
Res-NH	$13,905,382	3.73%
Res-H	$229,406,864	61.56%
Small	$30,510,711	8.19%
Medium	$50,617,650	13.58%
Large LL	$22,496,078	6.04%
Large HL	$8,773,089	2.35%
XL-LL	$2,865,290	0.77%
XL-HL	$14,086,538	3.78%
Total	$372,661,602	100.00%

Source: Docket No. 4323, Compliance Filing, Attachment 8A, Schedule PMN-2, pages 3 and 4.

Provided as Attachment DIV-1-19 is Attachment WRR-1, page 9 of 13 (column (c), lines 1+4) from the Company's August 1, 2014 FY 2014 Gas Infrastructure, Safety, and Reliability Plan Reconciliation Filing in Docket No. 4380. As shown, the actual capital investment was $73.11 million. The allocation of the actual FY 2014 revenue requirement of $1,633,930 to rate classes is shown in Schedule YC-9, column (d), lines 3-10.

Prepared by or under the supervision of: Yi-An Chen

The Narragansett Electric Company
d/b/a National Grid
FY 2014 Gas ISR Revenue Requirement Reconciliation
FY 2012 - FY 2014 Incremental Capital Investment Summary

Line No.			Actual Fiscal Year 2012 (a)	Actual Fiscal Year 2013 (b)	Actual Fiscal Year 2014 (c)
	Capital Investment				
1	ISR-eligible Capital Investment	Col (a) Docket No. 4219 FY 2012 ISR Reconciliation Filing; Col (b) Docket No. 4306 FY 2013 ISR Reconciliation Filing; Col (c) Actual FY2014 ISR Gas Capital Investment per Company's Books	$54,681,347	$56,460,955	$70,404,045
2	ISR-eligible Capital Additions included in Rate Base per R.I.P.U.C. Docket No. 4323	Docket No. 4323 Schedule MDL-3-Gas Page 51, Line Notes 1(a), 2(b) and 3(e)	$47,660,716	$57,184,191	$47,653,493
3	Incremental ISR Capital Investment	Line 1 - Line 2	$7,020,631	($723,236)	$22,750,553
	Cost of Removal				
4	ISR-eligible Cost of Removal	Col (a) Docket No. 4219 FY 2012 ISR Reconciliation Filing; Col (b) Docket No. 4306 FY 2013 ISR Reconciliation Filing; Col (c) Actual FY 2014 ISR Gas Cost of Removal per Company's Books	$2,583,612	$3,152,565	$2,707,824
5	ISR-eligible Cost of Removal in Rate Base per R.I.P.U.C. Docket No. 4323	Docket No. 4323, Workpaper MDL-19-GAS, Page 3	$5,755,088	$4,701,396	$3,917,830
6	Incremental Cost of Removal	Line 4 - Line 5	($3,171,476)	($1,548,831)	($1,210,006)
	Retirements				
7	ISR-eligible Retirements	Col (a) Docket No. 4219 FY 2012 ISR Reconciliation filing; Col (b) Docket No. 4306 FY 2013 ISR Reconciliation filing; Col (c) Actual FY 2014 ISR Gas Retirements	$5,366,562	5,775,791	$5,274,944
8	ISR-eligible Retirements per R.I.P.U.C. Docket No. 4323	Col (a) Docket No. 4219 Supplemental Testimony 2-17-2011; Col (b) Docket No. 4306 FY 2013 ISR Proposal Filing; Col (c)= Line 2(c) * 7.68% Retirement rate per Docket No. 4323 (Workpaper MDL-19-GAS p 4)	$3,074,116	$2,498,949	$3,659,788
9	Incremental Retirements	Line 7- Line 8	$2,292,446	$3,276,842	$1,615,155

Division 1-20

Request:

Re: witness Chen's Attachment YC-6, please provide electronic spreadsheet file which fully documents the derivation of the detail on pages 4 through 7.

Response:

The electronic spreadsheet file of Schedule YC-6 which fully documents the derivation of the detail on pages 4 through 7 as well as the other schedules of Ms. Chen was provided to the Division on a CD-ROM on August 1, 2014.

Division 1-21

Request:

Re: witness Chen's Attachment YC-6, please:

a. Document all curtailment and interruptions of service for individual non-firm customers during period April 1, 2013 through March 31, 2014 and for each curtailment:

   i. Provide the start and stop dates and times for the curtailment or service interruption;

   ii. Detail the methods and calculations used to computed curtailed therms of gas use;

   iii. Provide the computation of any and all penalties or excess use charges for unauthorized gas use for each customer during each period of service curtailment or interruption.

   iv. Provide the reasons for each curtailment or interruption of service;

   v. Identify the dollar amounts by customer by month of any and all charges for unauthorized or excess gas use that were waived or forgiven by the Company, as well as the reasons for the Company's waiver or forgiveness of the subject charges.

b. Document all billing adjustments for individual customers in excess of $10,000 and provide all workpapers, data, and assumptions relied upon to support those adjustments, as well as the Company's reasons and rationales for those adjustments.

Response:

a.

   i. During the period April 1, 2013 through March 31, 2014, the start and stop dates and times for the curtailment or service interruption were:
   November 24, 2013 10:00 A.M. to November 25, 2013 10:00 A.M.;
   December 12, 2013 10:00 A.M. to December 19, 2013 10:00 A.M.;
   December 31, 2013 10:00 A.M. to January 5, 2014 10:00 A.M.;

January 6, 2014 10:00 A.M. to January 10, 2014 10:00 A.M.;
January 18, 2014 10:00 A.M. to January 18, 2014 10:58 A.M.;
January 21, 2014 10:00 A.M. to January 30, 2014 10:00 A.M.;
February 6, 2014 10:00 A.M. to February 13, 2014 10:00 A.M.;
February 16, 2014 10:00 A.M. to February 17, 2014 10:00 A.M.;
February 25, 2014 10:00 A.M. to March 6, 2014 10:00 A.M.;
March 13, 2014 10:00 A.M. to March 14, 2014 10:00 A.M.;
March 17, 2014 10:00 A.M. to March 18, 2014 10:00 A.M.

ii. Rhode Island Non-Firm customers are required to have phone lines that transmit gas usage via telemetered devices. During the winter curtailment season, the devices must call in every day and technicians are dispatched to collect the usage if a device does not call in. The Meter Data Services Department collects gas usage in an hourly format in the MV90 system and provides a query for the daily usage for each curtailment period to the Special Billing Department. Special Billing then multiplies the ccfs by the therm conversion factor and adjusts for the fuel allowance to come up with the therms to bill the customer.

iii. Attachment DIV-1-21-a contains the computation of all penalties or excess use charges that have been billed for unauthorized gas use for each customer during service curtailment or interruption in November and December 2013. The Company will supplement the details for January through March 2014 once the billing is completed. For purposes of confidentiality, the customer names have been replaced with their assigned customer number.

iv. All the curtailment or interruptions of service were due to the forecasted cold weather and LNG use.

v. There were no charges waived for unauthorized or excess gas use during this period.

b. Attachment DIV-1-21-b contains the details on all billing adjustments for individual customers in excess of $10,000.

Curtailment Period November 24, 2013

Assigned Customer #	Curtailment Date	Curtailment Use Billed (therm)	Pipeline	Daily Index (per Dth)	Penalty Multiplier	Curtailment Rate (per therm)	Curtailment Amount
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (e) x (f) / 10	(h) = (c) x (g)
6	11/24/2013	474	AGT	$14.89	5	$7.45	$3,533.56
17	11/24/2013	152	AGT	$14.89	5	$7.45	$1,135.22
19	11/24/2013	406	TGP	$12.10	5	$6.05	$2,454.04

Curtailment Period December 12-19, 2013

Assigned Customer #	Curtailment Date	Curtailment Use Billed (therm)	Pipeline	Daily Index (per Dth)	Penalty Multiplier	Curtailment Rate (per therm)	Curtailment Amount
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (e) x (f) / 10	(h) = (c) x (g)
36	12/13/2013	317	AGT	$26.53	5	$13.27	$4,200.75
55	12/16/2013	306	TGP	$32.22	5	$16.11	$4,926.91
55	12/17/2013	1,542	TGP	$22.43	5	$11.21	$17,286.08
55	12/18/2013	663	TGP	$20.36	5	$10.18	$6,751.04
55 TOTAL		2,511					$28,964.03
8	12/13/2013	21	AGT	$26.53	5	$13.27	$284.80
17	12/13/2013	80	AGT	$26.53	5	$13.27	$1,067.99
17	12/14/2013	88	AGT	$32.97	5	$16.48	$1,450.12
17	12/15/2013	79	AGT	$32.97	5	$16.48	$1,308.65
17	12/16/2013	72	AGT	$32.97	5	$16.48	$1,184.86
17	12/17/2013	80	AGT	$22.71	5	$11.36	$914.27
17	12/18/2013	65	AGT	$19.93	5	$9.96	$651.96
17	12/19/2013	70	AGT	$11.60	5	$5.80	$404.55
17 TOTAL		535					$6,982.40

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4514
2014 Distribution Adjustment Charge Filing
Responses to Division's First Set of Data Requests
Attachment DIV 1-21-b
Page 1 of 1

Assigned #	Month Charges Apply To	Banner Bill Date mo/yr	Sales or Trans	Customer Charge	Usage (therms)	Commodity charge	Commodity rate (per therm)	Distribution charge	Distribution rate	Sales tax	GET	Energy Efficiency Surcharge	Paperless credit	Other charges	Total revenue	Revenue subject to Margin Sharing	Gas Cost per Dth	Total Gas Cost	Total Margin	Comment	Adjustment details
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)
20	Mar-13	May-13	Trans	($715)	(92,141)	N/A		($6,754)	$0.0733		($17)	($3,842)	$0	($1)	($11,329)	($7,469)	$5.4590	$0	($7,469)	adj for Mar'13	This reflects the canceled gas charges for December 31, 2013 - January 30, 2014.
19	Nov-13	Dec-13	Trans	$715	79,692	$6,477	$16.5644	$5,813	$0.0733			$3,307		$1	$16,312	$13,004	$165.6442	$6,477	$6,528	Curtailment of 391 therms	This was for a curtailment on November 24, 2013 which was later cancelled and rebilled in June-July 2014. The original billed amount was $6,476.69 and the rebilled amount was $2,454.04.
8	Dec-13	Jan-14	Trans	($715)	(517,610)	N/A		($37,941)	$0.0733		($1,863)	($21,584)		($1)	($62,104)	($38,656)	$5.8338	$0	($38,656)	adj for Dec'13	This reflects the canceled gas charges for November 30, 2013 - December 31, 2013.
8	Dec-13	Jan-14	Trans	$715	517,590	$549	$26.1257	$37,939	$0.0733		$1,880	$21,583		$77	$62,744	$39,203	$261.2571	$549	$38,654	Curtailment of 21 therms	This was for a curtailment on December 12-19, 2013 which was later cancelled and rebilled in June-July 2014. The original billed amount was $548.64 and the rebilled amount was $284.80.
17	Dec-13	Jan-14	Trans	$485	18,752	$13,698	$26.5471	$1,337	$0.0733			$760		$1	$16,281	$15,520	$265.4705	$13,698	$1,822	Curtailment of 516 therms	This was for a curtailment on December 12-19, 2013 which was later cancelled and rebilled in June-July 2014. The original billed amount was $13,698.28 and the rebilled amount was $6,982.40.
36	Dec-13	Jan-14	Trans	($715)	(81,115)	N/A		($5,946)	$0.0733		($311)	($3,383)		($1)	($10,355)	($6,661)	$5.8338	$0	($6,661)	adj for Dec'13	This reflects the canceled gas charges for November 30, 2013 - December 31, 2013.
36	Dec-13	Jan-14	Trans	$715	80,810	$8,092	$26.5326	$5,923	$0.0733		$560	$3,370		$1	$18,661	$14,731	$265.3262	$8,092	$6,638	Curtailment of 305 therms	This was for a curtailment on December 12-19, 2013 which was later cancelled and rebilled in June-July 2014. The original billed amount was $8,092.45 and the rebilled amount was $4,200.75.
55	Dec-13	Jan-14	Trans	$715	24,455	$56,465	$23.3328	$1,615	$0.0733		$92	$919		$82	$59,888	$58,796	$233.3281	$56,465	$2,330	Curtailment of 2420 therms	This was for a curtailment on December 12-19, 2013 which was later cancelled and rebilled in June-July 2014. The original billed amount was $56,465.39 and the rebilled amount was $28,964.03.