Environmental Protection Correspondence Control Sheet

Document # ENV2.06-009e

Date e-Submission: 4/21/06

Date of Letter: 4/21/06

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for March 2006

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR) required by provisions of our Groundwater Permit. This

report was submitted electronically using eDEP on 4/21/06. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None



Entergy Nuclear Operations, Inc. Pilgrim Station

600 Rocky Hill Road Plymouth, MA 02360

Stephen J. Bethay Director, Nuclear Assessment

ENV 2.06-009e April 21, 2006

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for March 2006

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the March 2006 Groundwater Permit Discharge Report in accordance with the subject permit. There were no permit exceedences this month.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on April 21, 2006.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely,

Stephen J. Bethay

JJS/dm

Enclosure: Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

cc: R. Rondeau, DEP SERO



Groundwater Permit DISCHARGE MONITORING REPORT

389	
1. Permit Number	
640900523	
2. Tax identification Nu	mber

3. Sampling Month & Frequency

2006 MAR MONTHLY

A. Facility Information

Delete the selected form.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return

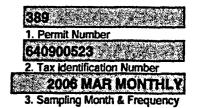


1.	Facility name, address:						
	PILGRIM POWER STATION						
	a. Name						
	ROCKY HILL ROAD						
	b. Street Address		00000				
	PLYMOUTH	MA d. State	02360 e. Zip Code				
	c. City	u. State	e. zip coue				
2.	Contact information:						
	JACOB J. SCHEFFER						
	a. Name of Facility Contact Person						
	5088308323	jscheff@entergy.com					
	b. Telephone Number	c. e-mail address					
3.	Sampling information:						
	3/1/2006	SAIC/R.I. ANALYTICAL					
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name					
	VARIOUS						
	c. Analysis Performed By (Name)						
B.	Form Selection	······································					
1.	Please select Form Type and Sampling Month & F	requency					
	Discharge Monitoring Report - 2006 Mar I	vioriuliy					
	All forms for submittal have been completed.						
,	7 This is the last selection.						
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2



Groundwater Permit DISCHARGE MONITORING REPORT



Fill all empty fields as Not-Detected

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	160	3.0	2.0
TSS MG/L	120	2.0	2.0
TOTAL DISSOLVED SOLIDS MG/L	870	1000	10
CHLORIDE MG/L	120	120	5.0



Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Groundwater Discharge Program

Groundwater Permit DAILY LOG SHEET

389
1. Permit Number
640900523

2. Tax identification Number

3. Sampling Month & Frequency

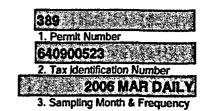
2006 MAR DAILY

A	Facility Information								
1.	Facility name, address:								
	PILGRIM POWER STATION								
	a. Name								
	ROCKY HILL ROAD								
	b. Street Address								
	PLYMOUTH c. City	MA d. State	02360 e. Zip Code						
	•	u. Julie	e. zip code						
2.	Contact information:								
	JACOB J. SCHEFFER								
	a. Name of Facility Contact Person								
	5088308323	jscheff@entergy.com							
	b. Telephone Number	c. e-mail address							
3.	Sampling information:								
	3/1/2006	WWTP INSTRUMENTATION	ON						
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name							
	VARIOUS								
	c. Analysis Performed By (Name)								
B.	Form Selection								
1.	Please select Form Type and Sampling Month & Frequency								
	Daily Log Sheet - 2006 Mar Daily								
	All forms for submittal have been completed.								
2 🔽	This is the last selection.								

3 Delete the selected form.



Groundwater Permit DAILY LOG SHEET



Date	Effluent	Reuse	alysis Inf	Turbidity	Influent	Effluent	Chlorine	UV
Date	Flow GPD	Flow GPD	Flow GPD	Turbidity	pH	pH	Residual (mg/l)	intensity (%)
1	4410					7.0		
2	3600					7.0		
3	2980					7.0		
4	1330					7.0		
5	740		÷			7.1		
6	3960					7.0		
7	4440					7.0		
. 8	4220					7.0		
9	5130					7.1		
10	3270					7.0		
11	890					7.1		
12	1840					7.1		
13	2410					7.1		
14	2630					7.0		
15	4180					6.9		
16	4220					7.0		
17	1830					7.0		
18	2030					7.0		
19	1450					7.0		
20	3510					7.0		



Groundwater Permit DAILY LOG SHEET

389
1. Permit Number
640900523
2. Tax Identification Number
2006 MAR DAILY
3. Sampling Month & Frequency

C. Daily Readings/Analysis Information (cont.)								
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	4670					7.0		
22	5620					7.0		
23	5360	*				7.0		
24	4530					7.0		
25	1800					7.1		
26	1760					7.0		
27	6610					7.1		
28	5620					7.1		
29	5960					7.1		
30	5520					7.1		
31	3260					7.1		



389 1. Permit Number 640900523

2. Tax identification Number

Groundwater Permit

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following

certification

If you are filing electronic-ally and want to attach additional comments, select the check box.

https://edep

Facility Information		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

a. Signature	b. Date (mm/dd/vvvv)

Reporting Package Comments

- 1) THE EFFLUENT RESULT FOR TOTAL SUSPENDED SOLIDS IS ACTUALLY LESS THAN (<) THE DETECTION LIMIT.
- 2) THE CONCENTRATIONS OF BOD AND TSS IN THE EFFLUENT OF THE MARCH 2006 SAMPLES ARE NOT IN EXCESS OF 15% OF THE BOD AND TSS CONCENTRATIONS IN THE INFLUENT SAMPLES.

my homepage = start new = continue current = my profile = help = clop out

Signature

Please check the form(s) you wish to accept.

Comments - 1 Form(s)

EXECUTION OF PERSON MAKING SUBMITTAL

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

By entering my name I acknowledge that I have read and agree with the certification statement.

NAME Jacob J. Scheffer Date 04/21/2006

Laccept

I do not accept

MassDEP Home o Contacts o Feedback o Tour o Privacy

Version: 4.9.6.0

eder: rim keceipt

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 67204

Date and Time Submitted: 4/21/2006 10:04:47 AM

User Email: jscheff@entergy.com

DEP Transaction ID: 67204

Date and Time Submitted: 4/21/2006 10:04:47 AM

User Email: jscheff@entergy.com

DEP Transaction ID: 67204

Date and Time Submitted: 4/21/2006 10:04:47 AM

User Email: jscheff@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1 - 2006 Mar Monthly)

Daily Log Sheet(2006 MAR DAILY)

Form Name: Comments

print receipt

cancel

Environmental Protection Correspondence Control Sheet

Document # ENV2.06-006e

Date e-Submission: 3/21/06

Date of Letter: 3/22/06

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for February 2006

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR) required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 3/21/06. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None



Entergy Nuclear Operations, Inc. Pilgrim Station

600 Rocky Hill Road Plymouth, MA 02360

Stephen J. Bethay Director, Nuclear Assessment

ENV 2.06-006e March 22, 2006

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re: Groundwater Discharge Permit SE #2-389

Discharge Report for February 2006

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the February 2006 Groundwater Permit Discharge Report in accordance with the subject permit. There were no permit exceedences this month.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on March 21, 2006.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely,

Stephen J. Bethay

JJS/dm

Enclosure: Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

cc: R. Rondeau, DEP SERO



Groundwater Permit DISCHARGE MONITORING REPORT

389	
1. Permit Number	
640900523	

2. Tax identification Number 2006 FEB MONTHLY 3. Sampling Month & Frequency

Α.	Fa	cili	ty	Inf	orm	ation
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3 Delete the selected form.

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1.	Facility name, address:						
	PILGRIM POWER STATION						
	a. Name						
	ROCKY HILL ROAD						
	b. Street Address						
	PLYMOUTH	MA d. State	02360				
	c. City	d. State	e. Zip Code				
2.	Contact information:						
	JACOB J. SCHEFFER						
	a. Name of Facility Contact Person						
	(508) 830-8323	jscheff@entergy.com					
	b. Telephone Number	c. e-mail address					
3.	Sampling information:						
	2/17/2006	SAIC/R.I. ANALYTICAL					
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name					
	VARIOUS						
	c. Analysis Performed By (Name)						
B.	Form Selection						
1.	Please select Form Type and Sampling Month & Fi	requency					
	, , , , , , , , , , , , , , , , , , ,						
	All forms for submittal have been completed.						
2	This is the last selection.						



Groundwater Permit

DISCHARGE MONITORING REPORT

389 1. Permit Number 640900523

2. Tax identification Number

2006 FEB MONTHLY

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS ≈ Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	120	3.0	2.0
TSS MG/L	110	2.0	2.0
TOTAL DISSOLVED SOLIDS MG/L	880	940	10
CHLORIDE	150	150	5.0



Groundwater PermitDAILY LOG SHEET

389	
1. Permit Number	
640900523	
2. Tax identification Number	

3. Sampling Month & Frequency

2006 FEB DAILY

A. Facility Information

Delete the selected form.

Important:
When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return
key.



1.	Facility name, address:		
	PILGRIM POWER STATION		
	a. Name		
	ROCKY HILL ROAD		
	b. Street Address	<u></u>	
	PLYMOUTH c. City	MA d. State	02360 e. Zip Code
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person	· · · · · · · · · · · · · · · · · · ·	
	(508) 830-8323	jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	
3.	Sampling information:		
	2/17/2006	PNPS WWTP	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
B.	Form Selection		
1.	Please select Form Type and Sampling Month & F	requency	
	All forms for submittal have been completed.		
2 🗸	This is the last selection.		



Groundwater PermitDAILY LOG SHEET

389

1. Permit Number

640900523

2. Tax identification Number

2006 FEB DAILY

3. Sampling Month & Frequency

Date	Effluent Flow GPD	Reuse Flow GPD	irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
1	5880					7.0		
2	3730					7.0		
3	5240					7.0		
4	1450					6.9		
5	1620					6.9		
6	5310					7.0		
7	5460					7.0		
8	5280					6.9		
9	4610					6.9		
10	3650					6.9		
11	760					7.0		
12	2040					7.0		
13	5100					7.5		
14	5290					7.0		
15	3750					7.0		
16	4400				·	7.0		
17	3750					7.0		
18	810					7.0		
19	1790					7.1		
	[



Groundwater Permit

DAILY LOG SHEET

389)	

1. Permit Number

640900523

2. Tax identification Number

2006 FEB DAILY

3. Sampling Month & Frequency

C. Daily Readings/Analysis Information (cont.)								
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	3820					7.0		
22	5160					7.0		
23	3390					7.0		
24	2980					7.1		
25	1600					7.0		
26	1360					7.0		
27	3480					7.0		
28	4380					7.0		
29								
30								
31								



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Groundwater Discharge Program

389		
1. Permit Numbe	r	
		_

Groundwater Permit

1.	Permit	Number		
64	10900	523		
7	Tay ide	entificatio	n Numbe	r

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following certification

If you are filing

electronic-ally

and want to attach

additional comments.

select the

check box.

Certification

acility Information		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		•
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

JACOB J. SCHEFFER	03/16/2006
a. Signature	b. Date (mm/dd/yyyy)

Reporting Package Comments

- 1) THE EFFFLUENT ANALYTICAL RESULT FOR TOTAL SUSPENDED SOLIDS (TSS) WAS ACTUALLY LESS THAN (<) THE DETECTION LIMIT.
- 2) IN ACCORDANCE WITH PERMIT REQUIREMENTS, THE CONCENTRATIONS OF BOD AND TSS IN THE WWTP EFFLUENT SAMPLES FOR FEBRUARY 2006 ARE NOT IN EXCESS OF 15% OF THE BOD AND TSS CONCENTRATIONS IN THE INFLUENT SAMPLES.

https://edep.

my homepage start new continue current my profile help log out

Signature

Comments - 1 Form(s)

✓CERTIFICATION OF PERSON MAKING SUBMITTAL

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

By entering my name I acknowledge that I have read and agree with the certification statement.

NAME Jacob J. Scheffer Date 03/16/2006



MassDEP Home o Contacts o Feedback o Tour o Privacy

Version: 4.8.4.0

Environmental Protection Correspondence Control Sheet

Document # ENV2.06-003e

Date e-Submission: 2/14/06

Date of Letter: 2/15/06

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description:</u> Monthly Groundwater Permit DMR for January 2006

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR) required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 2/14/06.

The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None



Entergy Nuclear Operations, Inc. Pilgrim Station

600 Rocky Hill Road Plymouth, MA 02360

Stephen J. Bethay Director, Nuclear Assessment

ENV 2.06-003e

February 15, 2006

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for January 2006

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the January 2006 Groundwater Discharge Report in accordance with the subject permit. This report includes the quarterly oil and grease analysis, and the semi-annual VOC and monitoring well analysis data. There were no permit exceedences this month.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on February 14, 2006.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely,

Stephen J. Bethay

JJS/dm

Enclosure:

Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

cc:

R. Rondeau, DEP SERO



Groundwater Permit DISCHARGE MONITORING REPORT

38	9		
1.1	ermit Nur	nber	
64	0900523	3	

2. Tax identification Number 2006 JAN MONTHLY

3. Sampling Month & Frequency

A	. Facility Information							
1.	Facility name, address:							
	PILGRIM POWER STATION							
	a. Name							
	ROCKY HILL ROAD							
	b. Street Address							
	PLYMOUTH	MA	02360					
	c. City	d. State	e. Zip Code					
 3. 	Contact information:							
	JACOB J. SCHEFFER							
	a. Name of Facility Contact Person							
	(508) 830-8323	jscheff@entergy.com						
	b. Telephone Number	c. e-mail address						
	Sampling information:							
	1/13/2006	SAIC/R.I. ANALYTICAL						
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name						
	VARIOUS							
	c. Analysis Performed By (Name)							
В.	Form Selection							
1.	Please select Form Type and Sampling Month & F	requency						
	Discharge Monitoring Report - 2006 Jan I	Monthly						
	All forms for submittal have been completed.	All forms for submittal have been completed						
_								
	₹ This is the last selection							

computer, use only the tab key to move your cursor - do not use the return key.

Important: When filling out forms on the



3 Delete the selected form.



Groundwater Permit DISCHARGE MONITORING REPORT

ſ	389
	1. Permit Number
	640900523
	2. Tax identification Number
	2006 JAN MONTHLY

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	86	2.0	2.0
TSS MG/L	53	2.0	2.0
TOTAL DISSOLVED SOLIDS MG/L	880	890	10
CHLORIDE MG/L	140	150	5.0



Groundwater Permit DISCHARGE MONITORING REPORT

389	
1. Permit Number	
640900523	
2. Tax identification Number	25

2006 QUARTERLY 1
3. Sampling Month & Frequency

A. Facility Information

3 Delete the selected form.

1. Facility name, address: PILGRIM POWER STATION a. Name ROCKY HILL ROAD b. Street Address MA 02360 PLYMOUTH d. State c. City e. Zip Code 2. Contact information: JACOB J. SCHEFFER a. Name of Facility Contact Person jscheff@entergy.com (508) 830-8323 b. Telephone Number c. e-mail address 3. Sampling information: 1/13/2006 SAIC/R.I. ANALYTICAL b. Laboratory Name a. Date Sampled (mm/dd/yyyy) **VARIOUS** c. Analysis Performed By (Name) **B. Form Selection** 1. Please select Form Type and Sampling Month & Frequency Discharge Monitoring Report - 2006 Quarterly 1 All forms for submittal have been completed. 2 This is the last selection.

Important:
When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return
key.





Groundwater Permit DISCHARGE MONITORING REPORT

389	
1. Permit Number	
640900523	
2 Tay identification	Nicoshor

2006 QUARTERLY 1

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
OIL & GREASE	4.4	1.0	1.0



Groundwater Permit DAILY LOG SHEET

389
1. Permit Number
640900523

2. Tax identification Number

2006 JAN DAILY

3. Sampling Month & Frequency

A. Facility Information 1

3 Delete the selected form.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1.	Facility name, address:					
	PILGRIM POWER STATION					
	a. Name					
	ROCKY HILL ROAD		·			
	b. Street Address		00000			
	c. City	MA d. State	02360 e. Zip Code			
	·	v. otato	e. zip oode			
2.	Contact information:					
	JACOB J. SCHEFFER					
	a. Name of Facility Contact Person					
	(508) 830-8323	jscheff@entergy.com				
	b. Telephone Number	c. e-mail address				
3.	Sampling information:					
	1/13/2006	PNPS WWTP				
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name				
	VARIOUS					
	c. Analysis Performed By (Name)					
B.	Form Selection					
1.	Please select Form Type and Sampling Month & Fr	equency				
	Daily Log Sheet - 2006 Jan Daily					
	All forms for submittal have been completed.					
2 _	This is the last selection.					



Groundwater PermitDAILY LOG SHEET

389		

1. Permit Number 640900523

2. Tax identification Number

2006 JAN DAILY

3. Sampling Month & Frequency

C. Da	C. Daily Readings/Analysis Information							
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV intensity (%)
1	3590	·				7.5		
2	1610					7.5		
3	7950					7.2		
4	7820					7.1		
5	4690					7.1		
6	3180					7.0		
7	1340					7.0		
8	1390					7.1		
9	4850					7.1		
10	4960					7.1		
11	4220					7.1		
12	5090					7.1		
13	3790					7.0		
14	6010					7.1		
15	1780					7.0		
16	4530					7.0		
17	3180					7.0		
18	2390					6.9		
19	1080					7.0		
20	2290					6.9		



Groundwater PermitDAILY LOG SHEET

389	_
1. Permit Number	_
640900523	_
2. Tax identification Number	_

2006 JAN DAILY
3. Sampling Month & Frequency

C. Daily Readings/Analysis Information (cont.)								
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	1540					6.9		
22	690					7.0		
23	4930					7.0		
24	4460					7.0		
25	6020					7.1		
26	3700					7.0		
27	4510					7.0		
28	1580					7.0		
29	1270					7.1		
30	4580					7.1		
24	5000					7.0		



Groundwater Permit DISCHARGE MONITORING REPORT

389		
1. Pen	nit Number	
6409	00523	
2. Tax	identification	n Number

2005 SEMI-ANNUAL 2
3. Sampling Month & Frequency

A. Facility Information

3 Delete the selected form.

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



4	Facility of the address of					
1.						
	PILGRIM POWER STATION a. Name					
	ROCKY HILL ROAD					
	b. Street Address					
	PLYMOUTH	MA	02360			
	c. City	d. State	e. Zip Code			
2.	Contact information:					
	JACOB J. SCHEFFER					
	a. Name of Facility Contact Person					
	(508) 830-8323	jscheff@entergy.com				
	b. Telephone Number	c. e-mail address				
3.	Sampling information:					
	1/13/2006	SAIC/R.I. ANALYTICAL				
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	······································			
	VARIOUS					
	c. Analysis Performed By (Name)					
B.	Form Selection					
1.	Please select Form Type and Sampling Month & F	requency				
	Discharge Monitoring Report - 2005 Semi	-Annual 2				
	All forms for submittal have been completed.					
2	This is the last selection.					



Groundwater Permit DISCHARGE MONITORING REPORT

389	
1. Permit Number	
640900523	

2. Tax identification Number 2005 SEMI-ANNUAL 2

3. Sampling Month & Frequency

E. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in μg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
ACETONE ugal	NS	NS	NS
BENZENE ug/L	1	1	1
1,1 DICHLOROETHANE	1	1	1
1,2 DICHLOROETHANE	1	1	1
1,1 DICHLOROETHYLENE	1	1	1
CIS-1,2-DICHLOROETHYLENE	NS	NS	NS
TRANS 1,2 DICHLOROETHYLENE	1	1	1
ETHYL BENZENE	1	1	1
METHYLENECHLORIDE	5	5	5
TOLUENE UG/L	30	1	1
O-XYLENE	1	1	1
P/M XYLENE	1	1	
CARBON TETRACHLORIDE	1	1	[1
CHLOROFORM ug/L	1	1	1
2-BUTANONE (MEK)	NS	NS	NS



Groundwater Permit DISCHARGE MONITORING REPORT

389	
1. Permit Number	
640900523	

2. Tax identification Number

2005 SEMI-ANNUAL 2
3. Sampling Month & Frequency

E. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
4-METHYL-2-PENTANONE (MIBK) ugal	NS	NS	NS
TRICHLOROETHYLENE UG/L	1	1	1
TETRACHLOROETHYLENE UGAL	1	1	1
1,1,1 TRICHLOROETHANE	1	1	1
VINYLCHLORIDE UG/L	1	1	1
STYRENE ug/L	NS	NS	NS
CHLOROBENZENE UG/L	1	1	1
METHYL TERTIARY BUTYL ETHER UG/L	NS	NS	NS
CHLOROETHANE UG/L	10	10	10
1,2-DICHLOROPROPANE	1	1	1
DIBROMOCHLOROMETHANE UG/L	1	1	1
1,1,2-TRICHLOROETHANE	1	1	1
2-CHLOROETHYLVINYL ETHER UGAL	2	2	2
BROMODICHLOROMETHANE UGAL	1	1	
BROMOFORM UG/L	1	1	1



Groundwater Permit DISCHARGE MONITORING REPORT

3	89	
1.	Permit Number	
6	40900523	
2.	Tax identification Number	

2005 SEMI-ANNUAL 2

3. Sampling Month & Frequency

E. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
1,1,2,2-TETRACHLOROETHANE	1	1	1
CHLOROMETHANE ugr.	10	10	10
BROMOMETHANE uga.	10	10	10
CARBONDISULFIDE UGAL	NS	NS	NS
2-HEXANONE UGAL	NS	NS	NS
ACROLEIN ugz.	NS	NS	NS
ACRYLONITRILE UG/L	NS	NS	NS
TRANS-1,3-DICHLOROPROPENE	1	1	1
CIS-1,3-DICHLOROPROPENE	1	1	1



Groundwater PermitMONITORING WELL DATA REPORT

389	
1. Permit Number	
640900523	
2 Tay identification	Mussbar

2005 SEMI-ANNUAL 2
3. Sampling Month & Frequency

A. Facility Information

3 Delete the selected form.

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1.	Facility name, address:		
	PILGRIM POWER STATION		
	a. Name		
	ROCKY HILL ROAD		
	b. Street Address	346	02360
	PLYMOUTH c. City	MA d. State	e. Zip Code
2.	Contact information: JACOB J. SCHEFFER		
	a. Name of Facility Contact Person	lacke#@antannican	
	(508) 830-8323 b. Telephone Number	jscheff@entergy.com c. e-mail address	
3.	Sampling information: 1/12/2006 a. Date Sampled (mm/dd/yyyy) VARIOUS c. Analysis Performed By (Name)	SAIC/R.i. ANALYTICAL b. Laboratory Name	
B.	Form Selection		
1.	Please select Form Type and Sampling Month & F	requency	
	Monitoring Well Data Report - 2005 Semi	-Annual 2	
	All forms for submittal have been completed.		
2 🔽	This is the last selection.		



Groundwater PermitMONITORING WELL DATA REPORT

389 1. Permit Number 640900523

2. Tax identification Number 2005 SEMI-ANNUAL 2

3. Sampling Month & Frequency

C. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled.
- DRY = Not enough water in well to sample.

1. Parameter/Contaminant Units	3 2. Well #	5 3. Well #	6 4. Well #	5. Well #	6. Well #	7. Well #
PH s.u.	5.8	5.5	5.5			
TOTAL DISSOLVED SOLIDS MG/L	38	240	310			
AMMONIA-N MG/L	0.19	0.23	0.15			
NITRATE-N MG/L	0.2	4.1	8.6			
TOTAL NITROGEN(NO3+NO2+TKN)	0.2	4.1	8.6			
STATIC WATER LEVEL	44.00	62.25	63.21			
SPECIFIC CONDUCTANCE	98	500	590			



Groundwater PermitMONITORING WELL DATA REPORT

389	
1. Permit Number	
640900523	

2. Tax identification Number 2005 SEMI-ANNUAL 2

3. Sampling Month & Frequency

D. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.
- DRY = Not enough water in well to sample.

1. Parameter/Contaminant Units	3 2. Well #	5 3. Well #	6 4. Well#	5. Well #	6. Well#	7. Well #
ACETONE UG/L	NS	NS	NS			
BENZENE UGAL	1	1	1			
1,1 DICHLOROETHANE	1	1	1			
1,2 DICHLOROETHANE	1	1	1			
1,1 DICHLOROETHYLENE	1	1	1			
CIS-1,2-DICHLOROETHYLENE	NS	NS	NS			
TRANS 1,2 DICHLOROETHYLENE	1	1	1			
ETHYL BENZENE	1	1	1			
METHYLENECHLORIDE	5	5	5			
TOLUENE	1	1	1.			
O-XYLENE	1	1	1			
P/M XYLENE	1	1	1			
CARBON TETRACHLORIDE	1	1	1			
CHLOROFORM UGA	2	3	1			
2-BUTANONE (MEK)	NS	NS	NS			



Groundwater PermitMONITORING WELL DATA REPORT

389	9		
1. F	ermit Nur	nber	
640	900523	}	

2. Tax identification Number 2005 SEMI-ANNUAL 2

3. Sampling Month & Frequency

D. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in μg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.
- DRY = Not enough water in well to sample.

DR1 - Not enough water in wen to sample.						
1. Parameter/Contaminant Units	3 2. Well #	5 3. Well #	6 4. Well #	5. Well #	6. Well#	7. Well #
4-METHYL-2-PENTANONE (MIBK)	NS	NS	NS			
TRICHLOROETHYLENE UG/L	1	1	1			
TETRACHLOROETHYLENE UGAL	1	1	1			
1,1,1 TRICHLOROETHANE	1	1	1			
VINYLCHLORIDE UG/L	1	1	1			
STYRENE	NS	NS	NS			
CHLOROBENZENE UG/L	1	1	1			
METHYL TERTIARY BUTYL ETHER UGAL	NS	NS	NS			
CHLOROETHANE	10	10	10			
1,2-DICHLOROPROPANE	1	1	1			
DIBROMOCHLOROMETHANE UGL	1	1	1			
1,1,2-TRICHLOROETHANE	1	1	1			
2-CHLOROETHYLVINYL ETHER UGAL	2	2	2			
BROMODICHLOROMETHANE	1	1	1			
BROMOFORM	1	1	1			



Groundwater PermitMONITORING WELL DATA REPORT

389	
1. Permit Number	
640900523	

2. Tax identification Number 2005 SEMI-ANNUAL 2

3. Sampling Month & Frequency

D. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.
- DRY = Not enough water in well to sample.

1. Parameter/Contaminant Units	3 2. Well #	3. Well #	4. Well #	5. Well #	6. Well#	7. Well #
1,1,2,2-TETRACHLOROETHANE	1	1	1			
CHLOROMETHANE UGAL	10	10	10			
BROMOMETHANE UG/L	10	10	10			
CARBONDISULFIDE UG/L	NS	NS	NS			
2-HEXANONE	NS	NS	NS			
ACROLEIN ugz	NS	NS	NS			
ACRYLONITRILE UG/L	NS	NS	NS			
TRANS-1,3-DICHLOROPROPENE	1	1	1			
CIS-1,3-DICHLOROPROPENE	1	1	1			



1. Permit Number

640900523

2. Tax identification Number

Groundwater Permit

important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following certification

If you are filing electronic-ally and want to attach additional comments, select the check box.

https://edep

Facility Information		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

a. Signature	b. Date (mm/dd/yyyy)

Reporting Package Comments

- 1) The effluent BOD and TSS values are both less than (<) the detection limit.
- 2) The effluent value for oil and grease is less than (<) the detection limit.
- All influent and effluent VOC valus are less than (<) the detection limit except for influent toluene and influent chlorobenzene.
- 4) The following VOCs were also analyzed but were not listed on Form E-VOC Analysis information:
 - a) dichlorobenzenes: <1 for influent and effluent values
 - b) trichlorofluoromethane: <1 for influent and effluent values
- 5) On the Monitoring Well Data Report-VOC Analysis Information Form, all values are less than (<) the detection limit except for chloroform at well #3 and well #5.
- 6) The following VOCs were also analyzed, but were not listed on the Monitoring Well Data Report-VOC Analysis Form:
 - a) dichlorobenzenes: all wells less than (<) the detection limit
 - b) trichlorofluoromethane: all wells less than (<) the detection limit.
- 7) In accordance with permit requirements, the concentrations of BOD and TSS in the WWTP effluent samples for January 2006 are not in excess of 15% of the BOD and TSS concentrations in the influent samples.

my homepage | start new | continue current | my profile | help | log out

Signature

Please check the form(s) you wish to accept.

Comments - 1 Form(s)

EXECUTION OF PERSON MAKING SUBMITTAL

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly respons for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of f and imprisonment for knowing violations.

By entering my name I acknowledge that I have read and agree with the certification statement.

NAME Jacob J. Scheffer Date 02/13/2006

laccept

I do not acc

MassDEP Home o Contacts o Feedback o Tour o Privacy

Version: 4.6.0.0

Page 1 of 2

eDEP: Print Receipt

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 60350

Date and Time Submitted: 2/14/2006 8:32:48 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 60350

Date and Time Submitted: 2/14/2006 8:32:48 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 60350

Date and Time Submitted: 2/14/2006 8:32:48 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 60350

Date and Time Submitted: 2/14/2006 8:32:48 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 60350

Date and Time Submitted: 2/14/2006 8:32:48 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 60350

Date and Time Submitted: 2/14/2006 8:32:48 AM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1 - 2006 Jan Monthly)

Discharge Monitoring Report(1 - 2006 Jan Monthly)
Discharge Monitoring Report(1 - 2006 Quarterly 1)
Discharge Monitoring Report - VOC(1 - 2005 Semi-Annual 2)
Discharge Monitoring Report - VOC(3 - 2005 Semi-Annual 2)
Discharge Monitoring Report - VOC(2 - 2005 Semi-Annual 2)
Daily Log Sheet(2006 JAN DAILY)
Monitoring Well Data Report - VOC(2 - 2005 Semi-Annual 2)
Monitoring Well Data Report - VOC(1 - 2005 Semi-Annual 2)

Monitoring Well Data Report - VOC(1 - 2005 Semi-Annual 2)
Monitoring Well Data Report - VOC(3 - 2005 Semi-Annual 2)

Form Name: Comments

print receipt

cancel

Environmental Protection Correspondence Control Sheet

Document # ENV2.06-001e

Date e-Submission: 1/16/06

Date of Letter: 1/16/06

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for December 2005

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR)

required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 1/16/06. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None



Entergy Nuclear Operations, Inc. Pilgrim Station 600 Rocky Hill Road Plymouth, MA 02360

Stephen J. Bethay Director, Nuclear Assessment

ENV 2.06-001e January 16, 2006

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for December 2005

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the December 2005 Groundwater Discharge Report in accordance with the subject permit. There were no permit exceedences this month.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on January 16, 2006.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely,

Stephen J. Bethay

JJS/dm

Enclosure:

Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

cc:

R. Rondeau, DEP SERO



Groundwater Permit DISCHARGE MONITORING REPORT

	389
	1. Permit Number
	640900523
_	2. Tax identification Number
	2005 DEC MONTHLY

3. Sampling Month & Frequency

Α.	Fa	cili	ty	Inf	or	m	ati	on

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return





	_						
1.	Facility name, address:						
	PILGRIM POWER STATION						
	a. Name						
	ROCKY HILL ROAD						
	b. Street Address PLYMOUTH	MA	02360				
	c. City	d. State	e. Zip Code				
_	•	C	Jp 3313				
2.	Contact information:						
	JACOB J. SCHEFFER						
	a. Name of Facility Contact Person						
	5088308323	Jscheff@entergy.com c. e-mail address					
	b. Telephone Number	c. e-maii address					
3.	Sampling information:						
	12/16/2005	SAIC/RI ANALYTICAL					
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name					
	VARIOUS						
	c. Analysis Performed By (Name)						
<u> </u>	Form Selection						
В.	Form Selection						
1.	Please select Form Type and Sampling Month & Fo	requency					
	Discharge Monitoring Report - 2005 Dec Monthly						
	All forms for submittal have been completed.						
	•						
2	This is the last selection.						

3 Delete the selected form.



Groundwater Permit DISCHARGE MONITORING REPORT

1. Permit Number
640900523
2. Tax identification Number

2005 DEC MONTHLY
3. Sampling Month & Frequency

Fill all empty fields as Not-Detected

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	84	2.0	2.0
TSS MG/L	74	2.0	2.0
TOTAL DISSOLVED SOLIDS MG/L	1000	1000	10
CHLORIDE MG/L	150	140	5.0



Groundwater PermitDAILY LOG SHEET

389		
1. Permi	t Number	
640900)523	

2. Tax identification Number

2005 DEC DAILY

3. Sampling Month & Frequency

	A.	Facility Information		
Important: When filling out	1.	Facility name, address:		
forms on the computer, use		PILGRIM POWER STATION		
only the tab key		a. Name		
to move your cursor - do not		ROCKY HILL ROAD		
use the return		b. Street Address		·
key.		PLYMOUTH	MA	02360
		c. City	d. State	e. Zip Code
VE I	2.	Contact information:		
		JACOB J. SCHEFFER		
		a. Name of Facility Contact Person		
		5088308323	jscheff@entergy.com	
		b. Telephone Number	c. e-mail address	
	3.	Sampling information:		
		12/16/2005	SAIC/RI ANALYTICAL	
		a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
		VARIOUS		
		c. Analysis Performed By (Name)		
	B.	Form Selection		
	1.	Please select Form Type and Sampling Month & Fr	equency	
		Daily Log Sheet - 2005 Dec Daily		
		All forms for submittal have been completed.		
	2	This is the last selection.		

3 Delete the selected form.



Groundwater Permit DAILY LOG SHEET

389
1. Permit Number
640900523
2. Tax identification Number

2005 DEC DAILY

3. Sampling Month & Frequency

	ily Read	-	_					
Date	Effluent Flow GPD	Reuse Flow GPD	irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
1	5530					7.0		
2	4230					7.2		
3	2490					7.0		
4	2460					7.0		
5	5160					7.0		
6	6580					7.1		
7	7040					7.0		
8	3830					7.2		
9	520					6.9		
10	1880					7.0		
11	2050					7.0		
12	3420					6.9		
13	4720					7.0		
14	4220					7.1		
15	5420				•	7.0		
16	1480					7.0		
17	1500					7.0		
18	1680					7.0		
19	3890					7.6		

5490

7.6



Groundwater Permit DAILY LOG SHEET

389 1. Permit Number

640900523

2. Tax identification Number

2005 DEC DAILY

3. Sampling Month & Frequency

C. Da	ily Read	lings/An	alysis Inf	ormation	n (cont.)			
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	3390					7.6		
22	1490					7.4		
23	650					7.2		
24	730					7.2		
25	1340	,				7.2		
26	1420					7.2		
27	1620					7.2		
28	3990					7.0		
29	3670					7.1		
30	2520					7.1		
31	4860					7.1		



3	89	
	_	_

1. Permit Number

640900523

2. Tax identification Number

Groundwater Permit

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following certification

If you are filing electronic-ally and want to attach additional comments, select the check box.

https://edep.

Facility Information		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel proper gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

a. Signature	b. Date (mm/dd/vyyy)

Reporting Package Comments

- 1) EFFLUENT VALUES FOR BOD AND TSS ON THE MONTHLY FORM WERE ACTUALLY LESS THAN (<) THE ANALYTICAL DETECTION LIMIT.
- 2) AS REQUIRED BY THE DISCHARGE PERMIT, THE CONCENTRATIONS OF BOD AND TSS IN THE EFFLUENT OF THE DECEMBER 2005 SAMPLES WERE NOT IN EXCESS OF 15% OF THE BOD AND TSS CONCENTRATIONS IN THE INFLUENT SAMPLES.

continue current

Signature

Ground Water Permit - 2 Form(s)

✓CERTIFICATION OF PERSON MAKING SUBMITTAL

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

By entering my name I acknowledge that I have read and agree with the certification statement.

NAME Jacob J. Scheffer

Date 01/12/2006



MassDEP Home o Contacts o Feedback o Tour o Privacy

Version: 4.5.1.0

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 58164

Date and Time Submitted: 1/16/2006 8:18:21 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 58164

Date and Time Submitted: 1/16/2006 8:18:21 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 58164

Date and Time Submitted: 1/16/2006 8:18:21 AM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1 - 2005 Dec Monthly)

Daily Log Sheet(2005 DEC DAILY)
Form Name: Certification & Comments





Environmental Protection Correspondence Control Sheet

Document # ENV2.05-028e

Date e-Submission: 12/15/05

Date of Letter: 12/16/05

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for November 2005

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR) required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 12/15/05. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None



Entergy Nuclear Operations, Inc. Pilgrim Station

600 Rocky Hill Road Plymouth, MA 02360

Stephen J. Bethay Director, Nuclear Assessment

ENV 2.05-028e

December 16, 2005

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for November 2005

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the November 2005 Groundwater Discharge Report in accordance with the subject permit. There were no permit exceedences this month.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on December 15, 2005.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's **Environmental Protection Group.**

Sincerely,

Stephen J. Bethay

JJS/dm

Enclosure:

Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

CC:

R. Rondeau, DEP SERO



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Groundwater Discharge Program

Groundwater Permit DISCHARGE MONITORING REPORT

389	
1. Permit Number	
640900523	

2. Tax identification Number

2005 NOV MONTHLY

3. Sampling Month & Frequency

	A	. Facility Information		
Important: When filling out	1.	Facility name, address:		
forms on the computer, use		PILGRIM POWER STATION		
only the tab key		a. Name		
to move your cursor - do not		ROCKY HILL ROAD		
use the return		b. Street Address		
key.		PLYMOUTH	MA	02360
		c. City	d. State	e. Zip Code
٧١	2.	Contact information:		
		JACOB J. SCHEFFER		
		a. Name of Facility Contact Person		
		5088308323	jscheff@entergy.com	
		b. Telephone Number	c. e-mail address	
	3.	Sampling information:		
		11/16/2005	SAIC/R.I. ANALYTICAL	
		a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
		VARIOUS		
		c. Analysis Performed By (Name)		
	B.	Form Selection		
	1.	Please select Form Type and Sampling Month & Fi	requency	
		Discharge Monitoring Report - 2005 Nov N	Monthly	
		All forms for submittal have been completed.		
	2 _	This is the last selection.		

3 Delete the selected form.



Groundwater Permit DISCHARGE MONITORING REPORT

1. Permit Number
640900523
2. Tax identification Number
2005 NOV MONTHLY

3. Sampling Month & Frequency

Fill all empty fields as Not-Detected

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	130	2.0	2.0
TSS MG/L	110	2.0	2.0
TOTAL DISSOLVED SOLIDS MGA	620	730	10
CHLORIDE MG/L	120	120	5.0



Groundwater Permit DAILY LOG SHEET

389	
1. Permit Number	
640900523	

2. Tax identification Number

2005 NOV DAILY

3. Sampling Month & Frequency

A.	Facility Information		
1.	Facility name, address:		
	PILGRIM POWER STATION		
	a. Name		
	ROCKY HILL ROAD		
	b. Street Address		
	PLYMOUTH	MA	02360
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	5088308323	jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	
3.	Sampling information:		
	11/16/2005	SAIC/R.I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
В.	Form Selection		
1.	Please select Form Type and Sampling Month & Fr	requency	
	Daily Log Sheet - 2005 Nov Daily		
	All forms for submittal have been completed.		

to move your cursor - do not use the return



Important: When filling out forms on the computer, use only the tab key



2 This is the last selection.

3 Delete the selected form.



Groundwater Permit DAILY LOG SHEET

1. Permit Number
640900523
2. Tax identification Number
2005 NOV DAILY

3. Sampling Month & Frequency

C.	Daily	Readings	Analysis	Information
•	,			

O. Du	ny itoda	1119 <i>317</i> 111	ary 313 mm	ominacioi	•			
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
1	2510					7.5		
2	1440					7.5		
3	6780					7.5		
4	2790					7.4		
5	2190					7.4		
6	2180					7.4		
7	6960					7.4		
8	6130					7.5	•	
9	5350					7.5		
10	5250					7.5		
11	2100					7.4		
12	2210					7.3		
13	1320					7.4		
14	5160					7.0		
15	7750					7.1		
16	6570					6.8		
17	9740					6.9		
. 18	9740		•			7.0		
19	6390					7.0		
20	3380					7.0		



Groundwater Permit DAILY LOG SHEET

5900

30

31

389
1. Permit Number
640900523
2. Tax Identification Number

2005 NOV DAILY

3. Sampling Month & Frequency

C. Da	. Daily Readings/Analysis Information (cont.)							
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	9350					7.1		
22	6060					7.1		
23	3650					7.1		
24	1640					7.1		
25	1700					7.1		
26	870					7.0		
27	3160					7.1		
28	5980					7.1		
29	4510					7.2		

7.1



389			
De	mit	NI.	imi

Permit Number

640900523

2. Tax identification Number

Groundwater Permit

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following certification

If you are filing electronic-ally and want to attach additional comments, select the

check box.

https://edep

racility information		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all attachments were prepared under my
direction or supervision in accordance with a system designed to assure that qualified personnel properly
gather and evaluate the information submitted. Based on my inquiry of the person or persons who
manage the system, or those persons directly responsible for gathering the information, the information
submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there
are significant penalties for submitting false information, including the possibility of fine and imprisonment
for knowing violations."

a. Signature	b. Date (mm/dd/yyyy)

Reporting Package Comments

ı	A) MONTHLY EFFLUENT VALUES FOR BIOCHEMICAL OXYGEN DEMAND (BOD) AND TOTAL
١	SUSPENDED SOLIDS (TSS) ARE LESS THAN (<) THE DETECTION LIMIT.

B) THE CONCENTRATIONS OF BOD AND TSS IN THE EFFLUENT OF THE NOVEMBER 2005 SAMPLES ARE NOT IN EXCESS OF 15% OF THE BOD AND TSS CONCENTRATIONS IN THE INFLUENT SAMPLES.

my homepage, start new continue current my profile help log out

Signature

Please check the form(s) you wish to accept.

Ground Water Permit - 2 Form(s)

☑ CERTIFICATION OF PERSON MAKING SUBMITTAL

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

By entering my name I acknowledge that I have read and agree with the certification statement.

NAME Jacob J. Scheffer Date 12/13/2005

Laccept

I do not accept

MassDEP Home o Contacts o Feedback o Tour o Privacy

Version: 4.4.5.0

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 56315

Date and Time Submitted: 12/15/2005 3:29:17 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 56315

Date and Time Submitted: 12/15/2005 3:29:17 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 56315

Date and Time Submitted: 12/15/2005 3:29:17 PM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1 - 2005 Nov Monthly)

Daily Log Sheet(2005 NOV DAILY)
Form Name: Certification & Comments

print receipt

cancel

Environmental Protection Correspondence Control Sheet

Document # ENV2.05-026e

Date e-Submission: 11/16/05

Date of Letter: 11/17/05

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for October 2005

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR) required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 11/16/05.

The report was also sent in hard copy form to the Plymouth

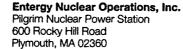
Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None





ENV 2.05-026e

November 17, 2005

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for October 2005

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the October 2005 Groundwater Discharge Report in accordance with the subject permit. There were no permit exceedences this month.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on November 16, 2005.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely,

- 10 | 4.1011 00

Enclosure:

JJS/dm

Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

CC:

R. Rondeau, DEP SERO



Groundwater Permit DISCHARGE MONITORING REPORT

389
1. Permit Number
640900523

2. Tax identification Number **2005 OCT MONTHLY**

3. Sampling Month & Frequency

A. Facility Information

3 Delete the selected form.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return



1.	Facility name, address:			
	PILGRIM POWER STATION			
	a. Name			
	ROCKY HILL ROAD			
	b. Street Address			
	PLYMOUTH	MA	02360	
	c. City	d. State	e. Zip Code	
2.	Contact information:			
	JACOB J. SCHEFFER			
	a. Name of Facility Contact Person			
	(508) 830-8323	jscheff@entergy.com		
	b. Telephone Number	c. e-mail address		
3.	Sampling information:			
	10/7/2005	SAIC/R. I. ANALYTICAL		
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name		
	VARIOUS			
	c. Analysis Performed By (Name)			
В.	Form Selection			
1.	Please select Form Type and Sampling Month & Frequency			
	Discharge Monitoring Report - 2005 Oct Monthly			
	All forms for submittal have been completed.			
2 🗖	This is the last selection.			



Groundwater Permit DISCHARGE MONITORING REPORT

389		
1. Per	mit Number	
6409	00523	

2. Tax identification Number

2005 OCT MONTHLY

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	130	3.0	2.0
TSS MG/L	100	2.0	2.0
TOTAL DISSOLVED SOLIDS MG/L	810	1000	10
CHLORIDE MG/L	100	100	5.0



Groundwater Permit DISCHARGE MONITORING REPORT

All forms for submittal have been completed.

2 This is the last selection.

3 Delete the selected form.

3	89		
1	. Permit I	Number	
6	409005	523	

2. Tax identification Number 2005 QUARTERLY 4

3. Sampling Month & Frequency

A	. Facility Information		
1.	Facility name, address:		
	PILGRIM POWER STATION		
	a. Name		
	ROCKY HILL ROAD		
	b. Street Address		
	PLYMOUTH	MA	02360
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	(508) 830-8323	jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	
3.	Sampling information:		
	10/7/2005	SAIC/R. I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
-	VARIOUS		
	c. Analysis Performed By (Name)		
B.	Form Selection		
1.	Please select Form Type and Sampling Month & F	requency	
	Discharge Monitoring Report - 2005 Quar	terly 4	

to move your cursor - do not use the return key.

Important: When filling out forms on the computer, use only the tab key





Groundwater Permit DISCHARGE MONITORING REPORT

389		
1. Permit Numb	er	
640900523		
2. Tax identifica	tion Number	

3. Sampling Month & Frequency

2005 QUARTERLY 4

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
OIL & GREASE	10.0	2.2	0.5



Groundwater PermitDAILY LOG SHEET

389
1. Permit Number
640900523

2. Tax identification Number

2005 OCT DAILY
3. Sampling Month & Frequency

A. Facility Information

Delete the selected form.

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





	Facility name, address:		
1.			
	PILGRIM POWER STATION a. Name		
	ROCKY HILL ROAD		
	b. Street Address		
	PLYMOUTH	MA	02360
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	(508) 830-8323	Jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	
3.	Sampling information:		
	10/7/2005	SAIC/R. I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
B.	Form Selection		
1.	Please select Form Type and Sampling Month & F	requency	
	Daily Log Sheet - 2005 Oct Daily		
	All forms for submittal have been completed.		
2 🔽	This is the last selection.		



Groundwater PermitDAILY LOG SHEET

389
1002
1 Permit Number

640900523

2. Tax identification Number 2005 OCT DAILY

3. Sampling Month & Frequency

C. Daily Readings/Analysis Information								
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
1	640					7.5		
2	1550					7.5		
3	5700					7.4		
4	4640					7.5		
5	4470					7.5		
6	5830					7.4		
7	5330					7.4		
8	2880					7.4		
9	4380					7.4		
10	1570					7.4		
11	5010					7.5		
12	4580					7.5		
13	6980					7.3		
14	2060					7.4		
15	6390					7.4		
16	2050					7.4		
17	5310					7.4		
18	4770					7.5		
19	4420					7.5		
20	5220					7.4		



Groundwater PermitDAILY LOG SHEET

389		
1. Permit	Number	
640900	523	

2. Tax identification Number

2005 OCT DAILY
3. Sampling Month & Frequency

C. Daily Readings/Analysis Information (cont.)

Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	4230					7.4		
22	1600					7.5		
23	2490					7.4		
24	5580					7.3		
25	12110					7.4		
26	8310					7.2		
27	6490					7.4		
28	1350					7.4		
29	800					7.4		
30	2220					7.2		
31	2540					7.2		



389

1. Permit Number

640900523

Groundwater Permit

2. Tax identification Number

	Facility Information	<u>, </u>	
Important:	PILGRIM POWER STATION		
When filling out	a. Name		
forms on the computer, use	ROCKY HILL ROAD		
only the tab key	b. Street Address		
to move your	PLYMOUTH	MA	02360
cursor - do not use the return	c. City	d. State	e. Zip Code
key.			
	Certification		
		·	•
	"I certify under penalty of law t	hat this document and all attachmen	its were prepared under my
	direction or supervision in accorda	nce with a system designed to assur	re that qualified personnel properly
	gather and evaluate the information	n submitted. Based on my inquiry of	the person or persons who
Any person		ons directly responsible for gathering	
signing a		wledge and belief, true, accurate and	
document under 314 CMR		ting false information, including the p	possibility of fine and imprisonmen
5.14(1) or (2)	for knowing violations."		
shall make the			
following certification			
OUI BILLOUIST.	a. Signature	b. Date (mm/dd/y	(YYY)
	Reporting Package Co	mments	
If you are filing			
electronic-ally		MONTHLY REPORT IS ACTUALLY LES	SS THAN (<) THE DETECTION
and want to	LIMIT.		
attach additional	2) THE CONCENTRATIONS OF BO	D AND TSS IN THE EFFLUENT OF TH	IE OCTOBER 2005 SAMPLES
comments,	ARE NOT IN EXCESS OF 15% OF	THE BOD AND TSS CONCENTRATION	NS IN THE INFLUENT SAMPLES.
select the			
check box.			
		,	
	j		
			1
https://edep			
<u> </u>			
	1		

my homepage start new , continue current , my profile , help , log out

Signature

Ground Water Permit - 3 Form(s)

✓CERTIFICATION OF PERSON MAKING SUBMITTAL

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly respons for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of f and imprisonment for knowing violations.

By entering my name I acknowledge that I have read and agree with the certification statement.

NAME Jacob J. Scheffer Date 11/16/2005



MassDEP Home o Contacts o Feedback o Tour o Privacy

Version: 4.3.7.0

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 54238

Date and Time Submitted: 11/16/2005 3:56:04 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 54238

Date and Time Submitted: 11/16/2005 3:56:04 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 54238

Date and Time Submitted: 11/16/2005 3:56:04 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 54238

Date and Time Submitted: 11/16/2005 3:56:04 PM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1 - 2005 Quarterly 4)

Discharge Monitoring Report(1 - 2005 Oct Monthly)

Daily Log Sheet(2005 OCT DAILY)
Form Name: Certification & Comments

print receipt

cancel

Environmental Protection Correspondence Control Sheet

Document # ENV2.05-021e

Date e-Submission: 10/17/05

Date of Letter: 10/19/05

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for September 2005

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR) required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 10/17/05. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None



Entergy Nuclear Operations, Inc. Pilgrim Station

600 Rocky Hill Road Plymouth, MA 02360

Stephen J. Bethay

Director, Nuclear Assessment

ENV 2.05-021e

October 19, 2005

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for September 2005

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the September 2005 Groundwater Discharge Report in accordance with the subject permit. There were no permit exceedences this month.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on October 17, 2005.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely,

Stephen J./Bethav

JJS/dm

Enclosure:

Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

CC:

R. Rondeau, DEP SERO

ENVIRONMENTAL PROTECTION CORRESPONDENCE REVIEW SIGNATURE SHEET

Title: WWTP Groundwater Permit Mont	thly Discharge Monitoring Report for September 2005
N/A Site Vice President Date:	Information is accurate, complete, and consistent with ENGC business planning strategy. Effect on safety and reliability of the plant has been evaluated adequately. Preserves PNPS regulation for conservative decision making. Explain:
N/A Director, Operations & Plant Manager Date:	Effect on safety and reliability of the plant has been evaluated adequately. Information is accurate, complete, and consistent with ENGC business planning strategy. Preserves PNPS regulation for conservative decision making. Explain:
John J. Whalley WWTF Onier Operator Operations Dept. Date: 1017 05	Effect on safety and reliability of the plant has been evaluated adequately. Information is accurate, complete, and correct with PNPS business planning strategy. Information was reviewed before electronic submission. Explain:
Stephen J. Bethay Director Nuclear Assessment Date: 10/19/05	Consistent with PNPS strategy governing regulatory activities. Information is accurate and complete. Information has received proper review for actual content, commitment ownership, and fiscal oversight. Explain:
Jacob J. Scheffer Soul Schuffer Superintendent Environmental Protection Date: 10/17/05	Applicable regulatory documents have been considered in content of letter. Information is consistent with other regulatory strategies and commitments. Information is accurate and complete. Information is consistent with ENGC Environment Compliance Management Policy. Explain: Report is consistent with Groundwater Permit requirements and e-DEP submission requirements.
Jacob J. Scheffer Soul & Souffer DMF Preparer Environmental Protection Date: 10/17/05	Information is accurate and complete. Source documents verified. Commitments are identified and owners assigned. Letter is grammatically correct and free of typographical errors. Explain: Reviewed the Initial Information and completed electronic forms.



Groundwater Permit DISCHARGE MONITORING REPORT

389	
1. Permi	t Number
64090	0523

2. Tax identification Number 3. Sampling Month & Frequency

2005 SEP MONTHLY

A.	Fa	cility	Inform	ation
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3 Delete the selected form.

important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return



1.	Facility name, address:		
١.			
	PILGRIM POWER STATION a. Name		
	ROCKY HILL ROAD		
	b. Street Address		
	PLYMOUTH	MA	02360
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
,	(508) 830-8323	jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	
3.	Sampling information:		
	9/15/2005	SAIC/R. I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
B.	Form Selection		
1.	Please select Form Type and Sampling Month & F	requency	
	Discharge Monitoring Report - 2005 Sep M	Monthly	
	All forms for submittal have been completed.		
2 _	This is the last selection.		



Groundwater Permit DISCHARGE MONITORING REPORT

389	
1. Permit Number	
640900523	
2. Tax identification	Number

2005 SEP MONTHLY

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	78	2.0	2.0
TSS MG/L	13	2.3	2.0
TOTAL DISSOLVED SOLIDS MG/L	920	880	10
CHLORIDE MG/L	110	110	5.0



Important:
When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Groundwater Discharge Program

Groundwater Permit DAILY LOG SHEET

389	
1. Permit Nu	ımber
64090052	3

2. Tax identification Number 2005 SEP DAILY

3. Sampling Month & Frequency

Ā.	Facility Information		
1.	Facility name, address:		
	PILGRIM POWER STATION	· · · · · · · · · · · · · · · · · · ·	
	a. Name		
	ROCKY HILL ROAD		
	b. Street Address		
	PLYMOUTH	MA	02360
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	(508) 830-8323	jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	
3.	Sampling information:		
	9/15/2005	SAIC/R. I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
B.	Form Selection		
1.	Please select Form Type and Sampling Month & F	requency	
	Daily Log Sheet - 2005 Sep Daily		
	All forms for submittal have been completed.		
2 🔽	This is the last selection.		

3 Delete the selected form.



Groundwater PermitDAILY LOG SHEET

389		
1. Per	rmit Number	
0400		

2. Tax Identification Number 2005 SEP DAILY

3. Sampling Month & Frequency

C. Da	ily Read	ings/Ana	alysis Inf	ormatio	า			<u> </u>
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
1	5560					7.0		
2	1960					7.0		
3	2370					7.0		
4	1240					7.0		
5	1200					7.1		
6	6300					7.1		
7	4830					7.1		
8	4470					7.1		
9	5390					7.1		
10	580					7.1		
11	2280					7.1		
12	4760					7.1		
13	4850					7.1		
14	6000					7.1		
15	6250					7.0		
16	2170					7.0		
17	3030					7.1		
18	2200					7.1		
19	6140					7.0		
20	6690					7.0		



Groundwater Permit

DAILY LOG SHEET

389			
4 -	. ** * *		

1. Permit Number

640900523

2. Tax identification Number

2005 SEP DAILY

3. Sampling Month & Frequency

C. Da	3. Daily Readings/Analysis Information (cont.)								
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)	
21	5520					7.0			
22	4660					7.1			
23	3410					7.0			
24	6510					7.0			
25	1620					7.0			
26	5260					7.0			
27	6510					7.1			
28	8150					7.1			
29	4870					7.1			
30	5170					7.3			

31



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Groundwater Discharge Program

Groundwater Permit

389		
1. Permit N	lumber	
6409005	23	

2. Tax identification Number

Important: When filling out forms on the computer, use only the tab key cursor - do not





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following certification

If you are filing electronic-ally and want to attach additional comments, select the check box.

Facility Information		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all attachments were prepared under my
direction or supervision in accordance with a system designed to assure that qualified personnel properly
gather and evaluate the information submitted. Based on my inquiry of the person or persons who
manage the system, or those persons directly responsible for gathering the information, the information
submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there
are significant penalties for submitting false information, including the possibility of fine and imprisonment
for knowing violations."

a. Signature	b. Date (mm/dd/yyyy)	

Reporting Package Comments

DAILY FLOW READING WERE TAKEN BY CONTINUOUS RECORDER AT THE PILGRIM WWTP.				
DAILY EFFLUENT PH READINGS WERE TAKEN AT THE PILGRIM WWTP AT THE POINT OF DISCHARGE.				
•				
•				
•	•		•	
		÷		

Mass. Gov

SEARCH MASS.GOV



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my profile

Signature

homepage current submittal

Please check the form(s) you wish to accept.

Ground Water Permit - 2 Form(s)

online forms

☑ CERTIFICATION OF PERSON MAKING SUBMITTAL

data converter tool I certify under penalty of law that this document and all attachments were prepared under my

instructions

direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including

the possibility of fine and imprisonment for knowing violations.

contacts **feedback**

By entering my name I acknowledge that I have read and agree with the certification statement.

survey tour the site

NAME Jacob J. Scheffer

10/17/2005 Date

exit eDEP

b Illinem

dep home • calendar • new additions • search • site map • privacy policy contact eDEP

Version 4.2.1.0

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 51768

Date and Time Submitted: 10/17/2005 3:28:36 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 51768

Date and Time Submitted: 10/17/2005 3:28:36 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 51768

Date and Time Submitted: 10/17/2005 3:28:36 PM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1 - 2005 Sep Monthly)

Daily Log Sheet(2005 SEP DAILY)
Form Name: Certification & Comments





Environmental Protection Correspondence Control Sheet

Document # ENV2.05-019e

Date e-Submission: 9/20/05

Date of Letter: 9/22/05

Distribution

S. J. Bethay

R. Maher

V. Nutter (WPO)

J. J. Scheffer

J. J. Whalley

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for August 2005

Electronic & Hard Copy Submission

Summary: Submission of monthly Discharge Monitoring Report (DMR)

required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 9/20/05. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer: J. J. Scheffer

Action: None



Entergy Nuclear Operations, Inc.
Pilgrim Station
600 Rocky Hill Road

600 Rocky Hill Road Plymouth, MA 02360

ENV 2.05-019e

September 22, 2005

Stephen J. Bethay Director, Nuclear Assessment

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for August 2005

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the August 2005 Groundwater Discharge Report in accordance with the subject permit. There were no permit exceedences this month.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on September 20, 2005.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely,

Stephen J. Bethay

JJS/dm

Enclosure:

Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

cc: R. Rondeau, DEP SERO



Groundwater PermitDISCHARGE MONITORING REPORT

	389
	1. Permit Number
	640900523
	2. Tax identification Number
Г	2005 AUG MONTHLY

3. Sampling Month & Frequency

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not



use the return

A	. Facility Information		
1.	Facility name, address:		
	PILGRIM POWER STATION		
	a. Name		
	ROCKY HILL ROAD		
	b. Street Address		
	PLYMOUTH	MA	02360
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	(508) 830-8323	jscheff@entergy.com	•
	b. Telephone Number	c. e-mail address	
3.	Sampling information:		
	8/19/2005	SAIC/R.I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
3.	Form Selection		
	Please select Form Type and Sampling Month & Fr	requency	
	Discharge Monitoring Report - 2005 Aug N	Monthly	
	All forms for submittal have been completed.		
	This is the last selection	1	
	I INC IC TIO ISET COIDMINN		

3 Delete the selected form.



Groundwater Permit DISCHARGE MONITORING REPORT

389
1. Permit Number
640900523
2. Tax identification Number
2005 AUG MONTHU

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	72	3	2.0
TSS MG/L	140	4.0	2.0
TOTAL DISSOLVED SOLIDS MG/L	860	840	10
CHLORIDE MGA.	100	99	5.0



Groundwater Permit DISCHARGE MONITORING REPORT

A Facility Information

389
1. Permit Number
640900523
 2. Tax identification Number
2005 QUARTERLY 3
 2 Campling Month & Empurance

When filling out computer, use only the tab key

Important:

forms on the

to move your cursor - do not use the return



	. I domey information	•	
1.	Facility name, address:		
	PILGRIM POWER STATION		
	a. Name		
	ROCKY HILL ROAD	,	
	b. Street Address	G.A.	02360
	PLYMOUTH c. City	MA d. State	e. Zip Code
	·	g. omic	c. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	(508) 830-8323 b. Telephone Number	Jscheff@entergy.com c. e-mail address	
	•	C. E-mail audiess	
3.	Sampling information:		
	8/19/2005	SAIC/R.I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
B.	Form Selection		
1.	Please select Form Type and Sampling Month & F	-requency	
	Discharge Monitoring Report - 2005 Quar	rterly 3	
	All forms for submittal have been completed.		
2 _	This is the last selection.		
3	Delete the selected form.		



Groundwater Permit DISCHARGE MONITORING REPORT

389		
1. Per	mit Number	
6409	00523	
2. Tax	identification	n Number
	2005 011	ADTEDI V 1

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
OIL & GREASE	150	1.3	0.5



Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return

key.

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Groundwater Discharge Program

Groundwater Permit DAILY LOG SHEET

ſ	389
, L	1. Permit Number
	640900523

2. Tax identification Number

2005 AUG DAILY

3. Sampling Month & Frequency

A	. Facility Information		
1.	Facility name, address:		
	PILGRIM POWER STATION		
	a. Name		
	ROCKY HILL ROAD		
	b. Street Address		, , , , , , , , , , , , , , , , , , ,
	PLYMOUTH	MA	02360
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	(508) 830-8323	jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	
3.	Sampling information:		
	8/19/2005	SAIC/R.I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
В.	Form Selection		
1.	Please select Form Type and Sampling Month	& Frequency	
	Daily Log Sheet - 2005 Aug Daily		
	All forms for submittal have been complete	d	

2 This is the last selection.

Delete the selected form.



Groundwater Permit

DAILY LOG SHEET

389

1. Permit Number

640900523

2. Tax identification Number

2005 AUG DAILY

3. Sampling Month & Frequency

Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
1	5910					6.8		
2	5400					6.9		
3	5570					6.9		
4	5080		-			6.9		
5	2910					6.9		
6	2120					6.9		
7	1500					6.9		
8	4520					6.9		
9	6120					6.9		
10	7440					6.9		
11	8540					6.9		
12	3930					6.9		
13	3690					6.9		
14	3090					6.9		
15	3750					6.9		
16	5630					6.9		
17	5920					6.9		
18	5160					6.9		
19	2010					6.7		
20	2040					6.8		



Groundwater PermitDAILY LOG SHEET

389	
1. Permit Number	
640900523	
2 Tax identification	n Number

2005 AUG DAILY

3. Sampling Month & Frequency

C. Da	ily Read	lings/An	alysis In	formatio	n (cont.)			
Date	Effluent Flow GPD	Reuse Flow GPD	irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	1900		,			6.9		
22	6060					6.9		
23	3640					7.0		
24	5050					7.0		
25	5490					7.0		
26	4680					7.0		
27	1420					7.0		
28	2160					7.0		
29	5890					7.0		
30	6210					7.0		
94 .	5500							<u></u>



38	9		
1. F	ermit Numb	er	

Groundwater Permit

	Cittil (Valide)	
ICA.	0900523	
104	りついりとう	
L_		_
21	ax identification Number	ar

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following certification

If you are filing electronic-ally and want to attach additional comments, select the check box.

acility Information		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all attachments were prepared under my
direction or supervision in accordance with a system designed to assure that qualified personnel properly
gather and evaluate the information submitted. Based on my inquiry of the person or persons who
manage the system, or those persons directly responsible for gathering the information, the information
submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment
for knowing violations."

a. Signature	b. Date (mm/dd/yyyy)	

Reporting Package Comments

According to discharge permit requirements, the monthly average concentrations of BOD and TSS in the discharge is not to exceed 15% of the monthly average concentrations of BOD and TSS in the influent. The concentrations of BOD and TSS in the effluent of the August 2005 samples are not in excess of 15% of the BOD or TSS concentrations in the influent samples.					

Mass. Gov



calendar . new additions . search . site man



my profile

Signature

homepage current submittal

Please check the form(s) you wish to accept.

Ground Water Permit - 3 Form(s)

online forms

☑ CERTIFICATION OF PERSON MAKING SUBMITTAL

data converter tool

instructions

I certify under penalty of law that this document and all attachments were prepared under r direction or supervision in accordance with a system designed to assure that qualified pers properly gather and evaluate the information submitted. Based on my inquiry of the person persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accu complete. I am aware that there are significant penalties for submitting false information, in

contacts the possibility of fine and imprisonment for knowing violations.

<u>feedback</u> survey

By entering my name I acknowledge that I have read and agree with the certification

statement.

tour the site

NAME Jacob J. Scheffer

Date | 09/19/2005

exit eDEP

LAccept

dep home • calendar • new additions • search • site map • privacy policy contact eDEP

Version 4.1.1.0

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 47527

Date and Time Submitted: 9/20/2005 1:11:46 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 47527

Date and Time Submitted: 9/20/2005 1:11:46 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 47527

Date and Time Submitted: 9/20/2005 1:11:46 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 47527

Date and Time Submitted: 9/20/2005 1:11:46 PM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1 - 2005 Aug Monthly) Discharge Monitoring Report(1 - 2005 Quarterly 3)

Daily Log Sheet(2005 AUG DAILY) Form Name: Certification & Comments





Environmental Protection Correspondence Control Sheet

Document # ENV2.05-017e

Date e-Submission: 8/23/05

Date of Letter: 8/24/05

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for July 2005

Electronic & Hard Copy Submission

Summary: Submission of monthly Discharge Monitoring Report (DMR)

required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 8/23/05. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer: J. J. Scheffer

Action: None



Entergy Nuclear Operations, Inc.
Pilgrim Station

600 Rocky Hill Road Plymouth, MA 02360

ENV 2.05-017e

August 24, 2005

Stephen J. Bethay Director, Nuclear Assessment

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for July 2005

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the July 2005 Groundwater Discharge Report in accordance with the subject permit. There were no permit exceedences this month.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on August 23, 2005.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely.

Stephen J. Bethay

JJS/dm

Enclosure:

Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

CC:

R. Rondeau, DEP SERO



Groundwater Permit DISCHARGE MONITORING REPORT

389	
1. Permit N	umber
6409005	23
2. Tax iden	tification Number

2005 JUL MONTHLY 3. Sampling Month & Frequency

A.	Fa	cilit	y I	nfo	orm	atio	n
----	----	-------	-----	-----	-----	------	---

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return

3 Delete the selected form.



1.	Facility name, address:		
	PILGRIM POWER STATION		
	a. Name		
	ROCKY HILL ROAD		
	b. Street Address		
	PLYMOUTH	MA	02360
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	(508) 830-8323	jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	<u>المنظم و المنظم و ا</u>
3.	Sampling information:		-
	7/26/2005	SAIC/R.I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
B.	Form Selection	· · · · · · · · · · · · · · · · · · ·	
1.	Please select Form Type and Sampling Month & F	requency	
	All forms for submittal have been completed.		
2 —	This is the last selection.	·	



Bureau of Resource Protection - Groundwater Discharge Program

Groundwater Permit

DISCHARGE MONITORING REPORT

389
1. Permit Number
640900523
2. Tax Identification Number

3. Sampling Month & Frequency

2005 JUL MONTHLY

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	390	6.9	2.0
TSS MG/L	1600	4.7	2.0
TOTAL DISSOLVED SOLIDS MG/L	690	910	10
CHLORIDE	120	120	5.0



Groundwater Permit DAILY LOG SHEET

389	
1. Permit Number	
640900523	
2. Tax identification Numl	ber

2005 JUL DAILY

3. Sampling Month & Frequency

Facility Information 1.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return



2.

3.

1.

3 Delete the selected form.

Facility name, address:		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		7 /2000
PLYMOUTH	MA d. State	02360
c. City	G. State	e. Zip Code
Contact information:		
JACOB J. SCHEFFER		
a. Name of Facility Contact Person		
(508) 830-8323	jscheff@entergy.com	
b. Telephone Number	c. e-mail address	
Sampling information:		
7/26/2005	SAIC/R.I. ANALYTICAL	
a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
VARIOUS		
c. Analysis Performed By (Name)		
Form Selection		
Please select Form Type and Sampling Month &	Frequency	
<u> </u>		
All forms for submittal have been completed.		



Groundwater Permit

DAILY LOG SHEET

389

1. Permit Number

640900523

2. Tax identification Number

2005 JUL DAILY

3. Sampling Month & Frequency

C. Da	ily Read	ings/Ana	alysis Inf	ormatio	n			
Date	Effluent Flow GPD	Reuse Flow GPD	irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
1	5610					7.0		
2	1090					7.0		
3	880					6.9		
4	1570					6.9		
5	4050					6.9		
6	6010					6.9		
7	5360					7.0		
8	2550					6.9		
9	2390					6.9		
10	1820					6.9		
11	3900					7.0		
12	9790					7.0		
13	7470					7.0		
14	5040					7.0		
15	5860					7.0		
16	1610					7.0		
17	2110					6.9		
18	7100					6.9		
19	7690					7.0		
20	6030					6.9		



Groundwater Permit DAILY LOG SHEET

389	
1. Permit Number	er
640900523	
2. Tax identificat	ion Number
2005 JUL DA	AILY

3. Sampling Month & Frequency

C. Da	ily Kead	ings/An	aiysis int	ormatioi	n (cont.)	
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Ef ph

Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	4590					6.9		
22	4870					6.9		
23	2300					6.9		
24	1400					6.9		
25	5730					6.9		
26	7090					6.9		
27	8670					6.9		
28	7350					6.8		
29	5210					6.9		
30	3090					6.9		
31	1540					6.9		



Groundwater Permit

389	
1. Permit Number	_
640900523	
2. Tax identification Number	_

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following certification

If you are filing electronic-ally and want to attach additional comments, select the check box.

acility Information		
PILGRIM POWER STATION	•	
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

a. Signature	b. Date (mm/dd/yyyy)

Reporting Package Comments

NO COMME	RIS INIS MONIN.
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data converter tool

instructions

contacts

feedback survey

tour the site

Ground Water Permit - 2 Form(s)

✔CERTIFICATION OF PERSON MAKING SUBMITTAL

I certify under penalty of law that this document and all attachments were prepared under r direction or supervision in accordance with a system designed to assure that qualified pers properly gather and evaluate the information submitted. Based on my inquiry of the person persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accu complete. I am aware that there are significant penalties for submitting false information, in the possibility of fine and imprisonment for knowing violations.

By entering my name I acknowledge that I have read and agree with the certification

statement.

NAME Jacob J. Scheffer

Date 08/12/2005

Ne

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Version 4.1.1.0

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 44955

Date and Time Submitted: 8/23/2005 10:35:13 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 44955

Date and Time Submitted: 8/23/2005 10:35:13 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 44955

Date and Time Submitted: 8/23/2005 10:35:13 AM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1 - 2005 Jul Monthly)

Daily Log Sheet(2005 JUL DAILY)
Form Name: Certification & Comments

Print

Cancel

Environmental Protection Correspondence Control Sheet

Document # ENV2.05-015e

Date e-Submission: 7/19/05

Date of Letter: 7/20/05

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for June 2005

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR) required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 7/19/05. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None



Entergy Nuclear Operations, Inc. Pilgrim Station 600 Rocky Hill Road Plymouth, MA 02360

Stephen J. Bethay Director, Nuclear Assessment

ENV 2.05-015e July 20, 2005

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389 Discharge Report for June 2005

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the June 2005 Groundwater Discharge Report in accordance with the subject permit. There were no permit exceedences this month.

This month's report includes quarterly, semi-annual and monitoring well information.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on July 19, 2005.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely,

Stephen J. Bethay

JJS/dm

Enclosure:

Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

cc:

R. Rondeau, DEP SERO



Groundwater Permit DISCHARGE MONITORING REPORT

389					
1. Perm	it Num	ber			
64090	0523		,		
				•	

2. Tax identification Number

2005 JUN MONTHLY

3. Sampling Month & Frequency

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not



use the return

A.	Facility Information		
1.	Facility name, address:		
	PILGRIM POWER STATION		
	a. Name		
	ROCKY HILL ROAD		
	b. Street Address	[[aaaa
	PLYMOUTH	MA d. State	02360 e. Zip Code
	c. City	u. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	(508) 830-8323	jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	
3.	Sampling information:		
	6/3/2005	SAIC/ R.I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
B.	Form Selection		1
1.	Please select Form Type and Sampling Month & Fi	requency	
	Discharge Monitoring Report - 2005 Jun N	Monthly	
	All forms for submittal have been completed.		
2	This is the last selection.		

3 Delete the selected form.



Groundwater PermitDISCHARGE MONITORING REPORT

389	
1. Permit Number	
640900523	

2. Tax identification Number 2005 JUN MONTHLY

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	450	2.0	2.0
TSS MG/L	1600	2.3	2.0
TOTAL DISSOLVED SOLIDS MG/L	880	950	10
CHLORIDE MG/L	210	240	5.0



Groundwater Permit DISCHARGE MONITORING REPORT

38	9				
1.	?emit	Numb	er		
64	0900	523			
2.	Tax ide	ntifica	tion	Numb	er

2005 QUARTERLY 2
3. Sampling Month & Frequency

A. Facility Information

3 Delete the selected form.

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1.	Facility name, address:	•	
••	PILGRIM POWER STATION		
	a. Name		
	ROCKY HILL ROAD		
	b. Street Address		
	PLYMOUTH	MA	02360
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	(508) 830-8323	jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	
3.	Sampling information:		
	6/29/2005	SAIC/ R.I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
B.	Form Selection		
1.	Please select Form Type and Sampling Month & Fr	requency	
	Discharge Monitoring Report - 2005 Quart	erly 2	
	All forms for submittal have been completed.		
, 	This is the last selection		
2 _	This is the last selection.		



Groundwater Permit DISCHARGE MONITORING REPORT

1. Permit Number	389	
	1. Permit Numbe	er .
640900523	640900523	

2005 QUARTERLY 2
3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
OIL & GREASE	110	0.5	0.5



Groundwater Permit DAILY LOG SHEET

389			
1. Permit	Number	,	
6409005	23		

2. Tax identification Number

3. Sampling Month & Frequency

2005 JUN DAILY

Facility Information

Delete the selected form.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return



Α.	racing information		
1.	Facility name, address:		
	PILGRIM POWER STATION		
	a. Name		
	ROCKY HILL ROAD	<u></u>	
	b. Street Address PLYMOUTH	MA	02360
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	(508) 830-8323	jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	
3.	Sampling information:		
	6/3/2005	SAIC/ R.I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
B.	Form Selection		
1.	Please select Form Type and Sampling Month & Fi	requency	
	Daily Log Sheet - 2005 Jun Daily		
	All forms for submittal have been completed.		
2 _	This is the last selection.		



Groundwater PermitDAILY LOG SHEET

389	
1. Permit	Number
640900	523

2. Tax identification Number

2005 JUN DAILY

3. Sampling Month & Frequency

C. Da	ily Read	ings/Ana	lysis Inf	ormatio	1			
Date	Effluent Flow GPD	Reuse Flow GPD	irrigation Flow GPD	Turbidity	influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
1	3750					7.1		
2	7830					7.1		
3	4670					7.1		
4	2160					7.0		
5	1470					7.0		
6	5820					7.0		
7	6300					7.0		
8	7060					7.0		
9	6230					6.9		
10	3420					6.9		
11	2220					6.9		
12	730					6.9		
13	4870					6.9		
14	5190					6.9		
15	5730					7.0		
16	6640					7.0		
17	4830					7.1		
18	2360					7.1		
19	520					7.1		
20	5330					7.1		



Groundwater PermitDAILY LOG SHEET

389	
1. Permit Number	
640900523	
2. Tax identification	n Number

3. Sampling Month & Frequency

2005 JUN DAILY

C. Daily Readings/Analysis Information (cont.)								
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	7650					7.1		
22	5210					7.1		
23	7380					7.1		
24	2030					7.0		
25	2340					7.0		
26	2420					7.0		
27	5170					7.0		
28	6310					7.0		
29	5270					7.0		
30	7780					7.0		



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Groundwater Discharge Program

Groundwater Permit DISCHARGE MONITORING REPORT

389		
1. Permit	Number	
640900		
2. Tax ide	ntification Nur	nber

2005 SEMI-ANNUAL 1

3. Sampling Month & Frequency

	A.	Facility Information				
Important: When filling out forms on the computer, use only the tab key to move your	1.	Facility name, address:				
		PILGRIM POWER STATION				
		a. Name				
		ROCKY HILL ROAD				
cursor - do not use the return		b. Street Address				
key.		PLYMOUTH	MA	02360		
		c. City	d. State	e. Zip Code		
	2.	Contact information:				
		JACOB J. SCHEFFER				
		a. Name of Facility Contact Person				
		(508) 830-8323	jscheff@entergy.com			
		b. Telephone Number	c. e-mail address			
	3.	Sampling information:				
		6/3/2005	SAIC/ R.I. ANALYTICAL			
		a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name			
		VARIOUS				
		c. Analysis Performed By (Name)				
	B.	Form Selection		·		
	1.	Please select Form Type and Sampling Month & F	requency			
		Discharge Monitoring Report - 2005 Semi-Annual 1				
		All forms for submittal have been completed.				
	2 🚐	This is the last selection.				

Delete the selected form.



Groundwater PermitDISCHARGE MONITORING REPORT

389	
1. Permit Number	
64666566	

2. Tax identification Number

2005 SEMI-ANNUAL 1
3. Sampling Month & Frequency

E. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section
- NS = Not Sampled.

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
ACETONE UG/L	NS	NS	NS
BENZENE UG/L	1	1	1
1,1 DICHLOROETHANE	1	1	1
1,2 DICHLOROETHANE	1	1	1
1,1 DICHLOROETHYLENE	1	1	1
CIS-1,2-DICHLOROETHYLENE	NS	NS	NS
TRANS 1,2 DICHLOROETHYLENE	1	1	1
ETHYL BENZENE	1	1	1
METHYLENECHLORIDE UG/L	5	5	5
TOLUENE UG/L	96	1	1
O-XYLENE	[1	1	1
P/M XYLENE	1	1	1
CARBON TETRACHLORIDE	1	1	1
CHLOROFORM UGAL	<u>[1</u>	1	1
2-BUTANONE (MEK)	NS	NS	NS



Groundwater Permit DISCHARGE MONITORING REPORT

389	
1. Permit	Number
640900	523
2. Tax ide	entification Number

2005 SEMI-ANNUAL 1

3. Sampling Month & Frequency

E. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
4-METHYL-2-PENTANONE (MIBK)	NS	NS	NS
TRICHLOROETHYLENE UG/L	1	1	1
TETRACHLOROETHYLENE UG/L	[1	1	1
1,1,1 TRICHLOROETHANE	1	1	1
VINYLCHLORIDE	1	1	1
STYRENE	NS	NS	NS
CHLOROBENZENE UG/L	2 ,	1	1
METHYL TERTIARY BUTYL ETHER	NS	NS	NS
CHLOROETHANE	10	10	10
1,2-DICHLOROPROPANE	1	1	1
DIBROMOCHLOROMETHANE		1	1
1,1,2-TRICHLOROETHANE	1	[1	[1
2-CHLOROETHYLVINYL ETHER	2	2	2
BROMODICHLOROMETHANE UGAL	1	1	1
BROMOFORM	[1	1	1



Groundwater Permit DISCHARGE MONITORING REPORT

1. Permit Number 640900523	389		
640900523	1. Permit	Vumber	
	640900	523	

2005 SEMI-ANNUAL 1

3. Sampling Month & Frequency

E. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
1,1,2,2-TETRACHLOROETHANE	1	1	1
CHLOROMETHANE UGAL	10	10	10
BROMOMETHANE UG/L	10	10	10
CARBONDISULFIDE ugr.	NS	NS	NS
2-HEXANONE UG/L	NS	NS	NS
ACROLEIN UG/L	NS	NS	NS
ACRYLONITRILE UG/L	NS	NS	NS
TRANS-1,3-DICHLOROPROPENE	1	1	1
CIS-1,3-DICHLOROPROPENE	1	1	1



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Groundwater Discharge Program

Groundwater Permit MONITORING WELL DATA REPORT

389			
1. Perm	it Numbe	•	
64090	0523		

2. Tax identification Number 2005 SEMI-ANNUAL 1

3. Sampling Month & Frequency

	A.	Facility Information				
Important: When filling out	1.	Facility name, address:				
forms on the computer, use		PILGRIM POWER STATION				
only the tab key to move your cursor - do not		a. Name				
		ROCKY HILL ROAD				
use the return		b. Street Address				
key.		PLYMOUTH	MA	02360		
		c. City	d. State	e. Zip Code		
	2.	Contact information:				
		JACOB J. SCHEFFER				
		a. Name of Facility Contact Person				
		(508) 830-8323	jscheff@entergy.com			
		b. Telephone Number	c. e-mail address			
	3.	Sampling information:				
		6/29/2005	SAIC/ R.I. ANALYTICAL			
		a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name			
		VARIOUS				
		c. Analysis Performed By (Name)				
	B.	Form Selection				
	1.	Please select Form Type and Sampling Month & F	requency			
		Monitoring Well Data Report - 2005 Semi-	Annual 1			
		All forms for submittal have been completed.				
	215	This is the last selection				

3 Delete the selected form.



Groundwater Permit MONITORING WELL DATA REPORT

389 1. Permit Number 640900523

> 2. Tax identification Number 2005 SEMI-ANNUAL 1

3. Sampling Month & Frequency

C. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled.
- DRY = Not enough water in well to sample.

1. Parameter/Contaminant Units	3 2. Well #	5 3. Well#	6 4. Well #	5. Well #	6. Well#	7. Well #
PH s.u.	6.4	5.8	5.4			
TOTAL DISSOLVED SOLIDS	58	230	220			
AMMONIA-N MG/L	0.25	0.34	0.17			
NITRATE-N MG/L	0.1	3.1	4.9			
TOTAL NITROGEN(NO3+NO2+TKN)	0.6	3.6	5.5			
STATIC WATER LEVEL FEET	44.2	62.3	62.5			
SPECIFIC CONDUCTANCE	120	430	420			



Groundwater PermitMONITORING WELL DATA REPORT

389
1. Permit Number
640900523

2. Tax identification Number

2005 SEMI-ANNUAL 1

3. Sampling Month & Frequency

D. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.
- DRY = Not enough water in well to sample.

1. Parameter/Contaminant Units	3 2. Well #	5 3. Well #	6 4. Well #	5. Well #	6. Well#	7. Well #
ACETONE UGAL	NS	NS	NS			
BENZENE	1	1	1			
1,1 DICHLOROETHANE	1	1	1			
1,2 DICHLOROETHANE	1	1	1			
1,1 DICHLOROETHYLENE	1	1	1			
CIS-1,2-DICHLOROETHYLENE	NS	NS	NS			
TRANS 1,2 DICHLOROETHYLENE	1	1	1			
ETHYL BENZENE	1	1	1			
METHYLENECHLORIDE UGL	5	5	5			
TOLUENE	1	1	1	·		
O-XYLENE UGL	1	1	1			
P/M XYLENE	1	1	1			
CARBON TETRACHLORIDE	1	1	1			
CHLOROFORM	1	3	1			
2-BUTANONE (MEK)	NS	NS	NS			



Groundwater PermitMONITORING WELL DATA REPORT

389
1. Permit Number
640900523

2. Tax identification Number
2005 SEMI-ANNUAL 1
3. Sampling Month & Frequency

D. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.
- DRY = Not enough water in well to sample.

1. Parameter/Contaminant Units	3 2. Well#	5 3. Well #	6 4. Well #	5. Well #	6. Well#	7. Well #
4-METHYL-2-PENTANONE (MIBK)	NS	NS	NS			
TRICHLOROETHYLENE	1	1	1			
TETRACHLOROETHYLENE UGAL	1	1	1			
1,1,1 TRICHLOROETHANE	1	1	1			
VINYLCHLORIDE	1	1	1			
STYRENE	NS	NS	NS			
CHLOROBENZENE UG/L	1	1	1			
METHYL TERTIARY BUTYL ETHER UGAL	NS .	NS	NS			
CHLOROETHANE UG/L	10	10	10			
1,2-DICHLOROPROPANE	1	1	1			
DIBROMOCHLOROMETHANE UG/L	1	1	1			
1,1,2-TRICHLOROETHANE	1	1	1			
2-CHLOROETHYLVINYL ETHER	2	2	2			
BROMODICHLOROMETHANE UG/L	1	1				
BROMOFORM	1	1	1			



Groundwater Permit MONITORING WELL DATA REPORT

389
1. Permit Number
640900523

2. Tax identification Number 2005 SEMI-ANNUAL 1

3. Sampling Month & Frequency

D. VOC Analysis Informatio). V	OC A	Analy	/sis	info	rmat	tion
----------------------------	------	------	-------	------	------	------	------

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.
- DRY = Not enough water in well to sample.

1. Parameter/Contaminant Units	2. Well #	3. Well #	4. Well #	5. Well #	6. Well #	7. Weil #
1,1,2,2-TETRACHLOROETHANE	1	1	1			
CHLOROMETHANE UG/L	10	10	10			
BROMOMETHANE UG/L	10	10	10			
CARBONDISULFIDE UG/L	NS	NS	NS			
2-HEXANONE	NS	NS	NS			
ACROLEIN UG/L	NS	NS	NS			
ACRYLONITRILE UG/L	NS	NS	NS			ş
TRANS-1,3-DICHLOROPROPENE	1	1	1			
CIS-1,3-DICHLOROPROPENE	1	1	1			



Groundwater Permit

38	9		
1. F	ermit N	umber	
64	09005	23	

2. Tax identification Number

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following certification

If you are filing electronic-ally and want to attach additional comments, select the check box.

acility Information		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

a. Signature	•	b. Date (mm	/dd/yyyy)	

Reporting Package Comments

- 1) THE EFFLUENT VALUE FOR BOD IS LESS THAN (<) THE DETECTION LIMIT.
- 2) THE EFFLUENT VALUE FOR THE QUARTERLY OIL AND GREASE SAMPLE IS LESS THAN (<) THE DETECTION LIMIT.
- 3) ALL INFLUENT AND EFFLUENT VOC VALUES ARE LESS THAN (<) THE DETECTION LIMIT EXCEPT FOR INFLUENT TOLUENE AND INFLUENT CHLOROBENZENE.
- 4) THE FOLLOWING VOCS WERE ALSO ANALYZED, BUT WERE NOT LISTED ON FORM E-VOC ANALYSIS INFORMATION:
- A) DICHLOROBENZENES: INFLUENT=3 UG/L, EFFLUENT <1 UG/L
- B) TRICHLOROFLUOROMETHANE: INFLUENT AND EFFLUENT BOTH <1 UG/L
- 5) ON THE MONITORING WELL DATA REPORT-VOC ANALYSIS INFORMATION FORM, ALL VALUES ARE LESS THAN (<) THE DETECTION LIMIT EXCEPT FOR CHLOROFORM FOR WELL #3 AND WELL #5.
- 6) THE FOLLOWING VOCS WERE ALSO ANALYZED, BUT WERE NOT LISTED ON THE MONITORING WELL DATA REPORT-VOC ANALYSIS INFORMATION FORM:
- A) DICHLOROBENZENES: ALL WELLS<1 UG/L
- B) TRICHLOROFLUOROMETHANE: ALL WELLS<1 UG/L
- 7) IN ACCORDANCE WITH PERMIT REQUIREMENTS, THE CONCENTRATIONS OF BOD AND TOTAL SUSPENDED SOLIDS (TSS) IN THE WWTP EFFLUENT SAMPLES FOR JUNE 2005 ARE NOT IN EXCESS OF 15% OF THE BOD AND TSS CONCENTRATIONS IN THE INFLUENT SAMPLES.

Mass. Gov

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Signature

my homepage Please check the form(s) you wish to accept.

current submittal **Ground Water Permit - 5 Form(s)**

online forms

CERTIFICATION OF PERSON MAKING SUBMITTAL

data

converter tool

instructions

contacts

feedback survey

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direction or supervision in accordance with a system designed to assure that qualified pers properly gather and evaluate the information submitted. Based on my inquiry of the person persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accu complete. I am aware that there are significant penalties for submitting false information, in the possibility of fine and imprisonment for knowing violations.

I certify under penalty of law that this document and all attachments were prepared under r

By entering my name I acknowledge that I have read and agree with the certification statement.

NAME Jacob J. Scheffer

07/19/2005 Date

exit eDEP

III. Gent

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Version 4.1.1.0

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 42142

Date and Time Submitted: 7/19/2005 4:30:06 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 42142

Date and Time Submitted: 7/19/2005 4:30:06 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 42142

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Date and Time Submitted: 7/19/2005 4:30:06 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 42142

Date and Time Submitted: 7/19/2005 4:30:06 PM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1 - 2005 Quarterly 2) Discharge Monitoring Report(1 - 2005 Jun Monthly)

Discharge Monitoring Report - VOC(1 - 2005 Semi-Annual 1)

Discharge Monitoring Report - VOC(2 - 2005 Semi-Annual 1)

Discharge Monitoring Report - VOC(3 - 2005 Semi-Annual 1)

Daily Log Sheet(2005 JUN DAILY)

Monitoring Well Data Report(1 - 2005 Semi-Annual 1)
Monitoring Well Data Report - VOC(2 - 2005 Semi-Annual 1)

Monitoring Well Data Report - VOC(3 - 2005 Semi-Annual 1)

Monitoring Well Data Report - VOC(1 - 2005 Semi-Annual 1)

Form Name: Certification & Comments

Print

Cancel

Environmental Protection **Correspondence Control Sheet**

Document # ENV2.05-012e

Date e-Submission: 6/21/05

Date of Letter: .6/22/05

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for May 2005

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR) required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 6/21/05. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None



Entergy Nuclear Operations, Inc. Pilgrim Station 600 Rocky Hill Road Plymouth, MA 02360

Stephen J. Bethay Director, Nuclear Assessment

ENV 2.05-012e

June 22, 2005

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for May 2005

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the May 2005 Groundwater Discharge Report in accordance with the subject permit. During May, the effluent value (1100 mg/l) for total dissolved solids (TDS) exceeded the permit limit of 1000 mg/l.

Since the influent TDS concentration at the WWTP was 740 mg/l, it is logical to conclude that the source of the elevated TDS had to be something at the WWTP, or a contaminated sample. The only known source of TDS at the WWTP is the MgOH injection being used for influent pH adjustment. The MgOH injection parameters were examined, and it was determined that the MgOH concentration and feed rate were within the recommended range for proper pH control. This is further corroborated by the fact that the effluent pH for the day the sample was taken was 7.0. If the MgOH was being overfed, the pH would have been higher.

We believe that the high TDS value was the result of a contaminated sample. We received the May sampling results on May 31st, and resampled on June 3rd. The results of the analysis of the June 3rd sample showed an influent TDS concentration of 880 mg/l and an effluent concentration of 950mg/l.

We will continue to closely monitor the TDS concentration values.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on June 21, 2005.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely.

Stephen J. Bethav

JJS/dm

Enclosure:

Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

cc:

R. Rondeau, DEP SERO



Groundwater Permit DISCHARGE MONITORING REPORT

389
1. Permit Number
640900523

2. Tax identification Number

2005 MAY MONTHLY 3. Sampling Month & Frequency

2 This is the last selection.

3 Delete the selected form.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return



A.	Facility information						
1.	Facility name, address:						
	PILGRIM POWER STATION						
	a. Name						
	ROCKY HILL ROAD						
	b. Street Address						
	PLYMOUTH	MA	02360				
	c. City	d. State	e. Zip Code				
2.	Contact information:						
	JACOB J. SCHEFFER						
	a. Name of Facility Contact Person						
	(508) 830-8323	jscheff@entergy.com					
	b. Telephone Number	c. e-mail address					
3.	Sampling information:						
	5/13/2005	SAIC/R.I. ANALYTICAL	LABORATORIES				
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name					
	VARIOUS						
	c. Analysis Performed By (Name)						
B.	Form Selection						
1.	Please select Form Type and Sampling Month & Frequency						
	Discharge Monitoring Report - 2005 May	Discharge Monitoring Report - 2005 May Monthly					
	All forms for submittal have been completed.						



Groundwater Permit DISCHARGE MONITORING REPORT

389		
1. Permit	Number	
640900	523	

2. Tax identification Number

2005 MAY MONTHLY

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	420	2.0	2.0
TSS Mg/L	1700	3.7	2.0
TOTAL DISSOLVED SOLIDS MG/L	740	1100	10
CHLORIDE MG/L	210	200	5.0



Groundwater Permit DAILY LOG SHEET

389
1. Permit Number
640900523

2. Tax identification Number

2005 MAY DAILY

3. Sampling Month & Frequency

Facility Information

2 This is the last selection.

3 Delete the selected form.

important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return



/\.	i dointy information					
1.	Facility name, address:					
	PILGRIM POWER STATION					
	a. Name					
	ROCKY HILL ROAD					
	b. Street Address					
	PLYMOUTH	MA	02360			
	c. City	d. State	e. Zip Code			
2.	Contact information:					
	JACOB J. SCHEFFER					
	a. Name of Facility Contact Person					
	(508) 830-8323	jscheff@entergy.com				
	b. Telephone Number	c. e-mail address				
3.	Sampling information:					
	5/13/2005	SAIC/R.I. ANALYTICAL LA	ABORATORIES			
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	·			
	VARIOUS					
	c. Analysis Performed By (Name)					
B.	Form Selection					
1.	Please select Form Type and Sampling Month & Fr	requency				
	Daily Log Sheet - 2005 May Daily					
	All forms for submittal have been completed.					



Groundwater PermitDAILY LOG SHEET

389	
1. Permit Number	
640900523	

2. Tax identification Number

2005 MAY DAILY

3. Sampling Month & Frequency

C. Da	ily Read	ings/Ana	alysis Inf	formatio	n			
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
1	11940		-			7.0		
2	12980					7.0		
3	13870					7.1		
4	14580					7.0		
5	13950					7.1		
6	12350					7.0		
7	9430					7.0		
8	7060					7.0		
9	8640					7.0		
10	9290					7.0		
1 1	7760					7.1		
12	7920					7.0		
13	6510					7.0		
14	2960	-				7.1		
15	2420					7.1		
16	8320					7.1		
17	4850					7.1		
18	6370					7.1		
19	5950					7.1		
20	4460					7.1		



Groundwater Permit

DAILY LOG SHEET

389	
1. Permit Number	
640900523	

2. Tax identification Number

2005 MAY DAILY
3. Sampling Month & Frequency

3. Sampling Month & Frequency

C. Da	ily Read	ings/Ana	llysis Inf	ormatior	n (cont.)			
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	1220					7.1		
22	1460					7.1		
23	7430					7.1		
24	6300					7.1		
25	5880					7.1		
26	6590					7.2		
27	3100					7.1		
28	2550					7.1		
29	870					7.1		
30	2920					7.1		
31	7000					7.1		



389 1. Permit Number

Groundwater Permit

640900523 2. Tax identification Number

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return kev.





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following certification

If you are filing electronic-ally and want to attach additional comments. select the check box.

Facility Information		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

. 1	
a. Signature	b. Date (mm/dd/yyyy)

Reporting Package Comments

- 1) THE EFFFLUENT VALUE FOR BOD SHOULD READ LESS THAN (<) 2.0.
- 2) THE EFFLUENT VALUE OF 1100 MG/L FOR TOTAL DISSOLVED SOLIDS (TDS) EXCEEDS THE PERMIT LIMIT OF 1000 MG/L.

SINCE THE INFLUENT TDS CONCENTRATION AT THE WWTP WAS 740 MG/L, IT IS LOGICAL TO CONCLUDE THAT THE SOURCE OF THE ELEVATED EFFLUENT TDS HAD TO BE SOMETHING AT THE WWTP OR A CONTAMINATED SAMPLE. THE ONLY KNOWN SOURCE OF TDS AT THE WWTP IS THE MGOH INJECTION BEING USED FOR INFLUENT PH ADJUSTMENT. THE MGOH INJECTION PARAMETERS WERE EXAMINED AND IT WAS DETERMINED THAT THE CONCENTRATION AND FEED RATE WERE WITHIN THE RECOMMENDED RANGE FOR PROPER PH CONTROL. THIS IS FURTHER CORROBORATED BY THE FACT THAT THE EFFLUENT PH FOR THE DAY THAT THE SAMPLE WAS TAKEN WAS 7.0. IF THE MGOH WAS BEING OVERFED, THE PH WOULD HAVE BEEN HIGHER.

WE BELIEVE THAT THE HIGH EFFFLUENT TDS VALUE WAS THE RESULT OF A CONTAMINATED SAMPLE. WE RECEIVED THE RESULTS OF THE MAY SAMPLING ON MAY 31ST AND RESAMPLED ON JUNE 3RD. THE RESULTS OF THE ANALYSIS OF THE JUNE 3RD SAMPLE SHOWED AN INFLUENT TDS CONCENTRATION OF 880 MG/L AND AN EFFLUENT CONCENTRATION OF 950 MG/L.

WE WILL CONTINUE TO CLOSELY MONITOR THE TDS CONCENTRATION VALUES.

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Signature

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homepage current submittal

Ground Water Permit - 2 Form(s)

online forms

CERTIFICATION OF PERSON MAKING SUBMITTAL

data converter tool I certify under penalty of law that this document and all attachments were prepared under r direction or supervision in accordance with a system designed to assure that qualified pers properly gather and evaluate the information submitted. Based on my inquiry of the person persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurately complete. I am aware that there are significant penalties for submitting false information, in

instructions

the possibility of fine and imprisonment for knowing violations.

feedback survey

contacts

By entering my name I acknowledge that I have read and agree with the certification

statement.

NAME Jacob J. Scheffer

Date 06/21/2005

exit eDEP

tour the site

I Accept

I Do No

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Version 3.6.27.0

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 40060

Date and Time Submitted: 6/21/2005 3:25:54 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 40060

Date and Time Submitted: 6/21/2005 3:25:54 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 40060

Date and Time Submitted: 6/21/2005 3:25:54 PM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1 - 2005 May Monthly)

Daily Log Sheet(2005 MAY DAILY)
Form Name: Certification & Comments

Print

Cancel

Environmental Protection Correspondence Control Sheet

Document # ENV2.05-010e

Date e-Submission: 5/16/05

Date of Letter: 5/18/05

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for April 2005

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR) required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 5/16/05. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None



Entergy Nuclear Operations, Inc. Pilgrim Station 600 Rocky Hill Road

Plymouth, MA 02360

ENV 2.05-010e

May 18, 2005

Stephen J. Bethay Director, Nuclear Assessment

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for April 2005

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the April 2005 Groundwater Discharge Report in accordance with the subject permit. There were no permit exceedences this month.

The April TDS and chloride effluent values have dropped back down below the permit limit. In an effort to further investigate the cause of the high values we have experienced over the last three months, we sampled all three of the lift stations and the raw water coming into the station. This sampling showed the highest TDS concentration occurred in lift station "C", which is located in the rear of the cafeteria. This location is near the bottom of an incline and is therefore exposed to runoff from the site truck entrance. It may also be impacted by water softener chemicals from the cafeteria. A combination of runoff containing road salt and softener chemicals from the cafeteria may have contributed to the high reading over the past few months. We will continue to investigate this matter in an effort to determine if anything can be devised to prevent a future reoccurrence.

At approximately 6:00 p.m. on April 21, 2005, about 100 to 200 gallons of water overflowed from a septic system inspection/clean-out manhole (located on the south side of the Operations & Maintenance (O&M) building) and flowed into a storm drain. According to people who witnessed the incident, the water that flowed into the storm drain was clear and had no odor. As soon as the overflow was noticed the water to the O&M building was shut off. A drain cleaning contractor was brought in and the line from the manhole to the septic tank was cleaned out, and the system was returned to normal operation. This occurrence was reported to DEP and EPA Region I by telephone and electronic mail on April 22, 2005.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on May 16, 2005.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely.

Stephen J. Bethav

JJS/dm

Enclosure:

Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

CC:

R. Rondeau, DEP SERO



Groundwater Permit DISCHARGE MONITORING REPORT

All forms for submittal have been completed.

2 This is the last selection.

3 Delete the selected form.

A. Facility Information

1. Facility name, address:

389		
1. Permit	Number	
1. Permit Nu 64090052		

2. Tax identification Number 2005 APR MONTHLY

3. Sampling Month & Frequency

Important:
When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return
key.

	PILGRIM POWER STATION					
	a. Name					
	ROCKY HILL ROAD	ROCKY HILL ROAD				
	b. Street Address					
	PLYMOUTH	MA	02360			
	c. City	d. State	e. Zip Code			
2.	Contact information:					
	JACOB J. SCHEFFER					
	a. Name of Facility Contact Person					
	(508) 830-8323	jscheff@entergy.co	om			
	b. Telephone Number	c. e-mail address				
3.	Sampling information:					
	4/22/2005	R.I. ANALYTICAL-S	SAIC			
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name				
	VARIOUS					
	c. Analysis Performed By (Name)					
В.	Form Selection					
1.	Please select Form Type and Sampling Month & Frequency					
	Discharge Monitoring Report - 2005 Apr Monthly					



Groundwater Permit DISCHARGE MONITORING REPORT

389
1. Permit Number
640900523

2. Tax identification Number 2005 APR MONTHLY

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	87	6.7	2.0
TSS MG/L	74	2.0	2.0
TOTAL DISSOLVED SOLIDS MG/L	640	920	10
CHLORIDE MG/L	180	180	5.0



Important:
When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Groundwater Discharge Program

Groundwater Permit

Discharge Monitoring Report

389	
1. Permit Number	
640900523	

2. Tax identification Number 2005 Quarterly 1

3. Sampling Month & Frequency

A.	Facility Information			
1.	Facility name, address:			
	PILGRIM POWER STATION			
	a. Name			
	ROCKY HILL ROAD			
	b. Street Address			
	PLYMOUTH	MA	02360	
	c. City	d. State	e. Zip Code	
2.	Contact information:			
	JACOB J. SCHEFFER			
	a. Name of Facility Contact Person			
	(508) 830-8323	jscheff@entergy.com		
	b. Telephone Number	c. e-mail address		
3.	Sampling information:			
	4/22/2005	R.I. ANALYTICAL-SAIC		
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name		
	VARIOUS			
	c. Analysis Performed By (Name)			
В.	Form Selection			
1.	Please select Form Type and Sampling Month & Frequency			
	Discharge Monitoring Report - 2005 Quarterly 1			
	All forms for submittal have been completed.			
2 _	This is the last selection.			

3 Delete the selected form.



Groundwater Permit DISCHARGE MONITORING REPORT

3	39		
1.	Permit Nu	ımber	
6	1090052	23	
	Tax identi		Number

2005 QUARTERLY 1

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
OIL & GREASE	5.2	0.7	0.5



Groundwater Permit

Daily Log Sheet

3 Delete the selected form.

389
1. Permit Number
640900523

2. Tax identification Number 2005 Apr Daily

3. Sampling Month & Frequency

A.	Facility Information					
1.	Facility name, address:					
	PILGRIM POWER STATION					
	a. Name					
	ROCKY HILL ROAD					
	b. Street Address	7	00000			
	PLYMOUTH c. City	d. State	02360 e. Zip Code			
	C. Ony	u. State	e. Zip Code			
2.	Contact information:					
	JACOB J. SCHEFFER					
	a. Name of Facility Contact Person					
	(508) 830-8323	scheff@entergy.com				
	b. Telephone Number	c. e-mail address				
3.	Sampling information:					
	4/22/2005	R.I. ANALYTICAL-SAIC				
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name				
	VARIOUS					
	c. Analysis Performed By (Name)					
B.	Form Selection					
1.	Please select Form Type and Sampling Month & Frequency					
	Daily Log Sheet - 2005 Apr Daily					
	All forms for submittal have been completed.					
2 1	This is the last selection.	•				

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.







Groundwater PermitDAILY LOG SHEET

389

1. Permit Number

640900523

2. Tax identification Number

2005 APR DAILY

C. Da	ily Read	ings/Ana	lysis Inf	ormation	n	1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-		
Date	Effluent Flow GPD	Reuse Flow GPD	irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV intensity (%)
1	3800					6.9		
2	2220					6.9		
3	2280					6.9		
4	5440					6.9		
5	6140					6.9		
6	5860					6.8		
7	6980					6.9		
8	7910					6.9		
9	1010					6.8		
10	2020					6.8		
11	6850					6.8		
12	9550					6.8		
13	8050					6.9		
14	9550					6.8		
15	10480					6.9		
16	6980					6.8	j	
17	5080				-	6.9		
18	10710					6.9		
19	14320					7.0		
20	14190					7.2		



Groundwater Permit DAILY LOG SHEET

389	
1. Permit Number	
640900523	
2. Tax identification Nur	nber

2005 APR DAILY

Daily Readings/Analysis Information (cont.)								
Date	Effluent Flow GPD	Reuse Flow GPD	irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	13640		,			7.2		
22	13990					7.1		
23	12420					7.1		
24	10350					7.0		
25	14650					7.0		
26	14510					7.1		
27	15780					7.1		
28	13770					7.1		
29	15420					7.1		
30	14240					7.1		



389
1. Permit Number
640900523

Groundwater Permit

389	
Permit Number	
640900523	
2. Tax identification Number	er

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following certification

If you are filing
electronic-ally
and want to
attach
additional
comments,
select the
check box.

Facility Information		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

a. Signature	b. Date (mm/dd/yyyy)

Reporting Package Comments

The April TDS and chloride effluent values have dropped back down below the permit limit. In an effort to further investigate the cause of the high values we have experienced over the last three months, we sampled all three of the lift stations and the raw water coming into the station. This sampling showed the highest TDS concentration occurred in lift station "C", which is located in the rear of the cafeteria. This location is near the bottom of an incline and is therefore exposed to runoff from the site truck entrance. It may also be impacted by water softener chemicals from the cafeteria. A combination of runoff containing road salt and softener chemicals from the cafeteria may have contributed to the high reading over the past few months. We will continue to investigate this matter in an effort to determine if anything can be devised to prevent a future reoccurrence.

Scheffer, Jacob

From:

Scheffer, Jacob

Sent:

Tuesday, May 17, 2005 10:16 AM

To:

'Marybeth Chubb'

Cc:

Whalley, John; 'Rick Rondeau'; Egan, Joseph

Subject: Additional Comment for April Groundwater Permit

Marybeth:

As I mentioned to you over the phone today, on May 16, 2005, I submitted Pilgrim's Groundwater Permit Discharge Monitoring Report for April via eDEP, and forgot to include a comment regarding a system overflow that occurred in April. Immediately following are the details of that occurrence.

At approximately 6:00 p.m. on April 21, 2005, about 100 to 200 gallons of water overflowed from a septic system inspection/clean-out manhole (located on the south side of the Operations & Maintenance (O&M) building) and flowed into a storm drain. According to people who witnessed the incident, the water that flowed into the storm drain was clear and had no odor. As soon as the overflow was noticed the water to the O&M building was shut off. A drain cleaning contractor was brought in and the line from the manhole to the septic tank was cleaned out, and the system was returned to normal operation. This occurrence was reported to DEP SERO (Rick Rondeau) and the EPA Regional Office by telephone and electronic mail on April 22, 2005.

If you have any questions about this occurrence, please call me at 508-830-8323.

Jay



dep home . calendar . new additions . search . site map



my profile

Signature

my homepage Please check the form(s) you wish to accept.

current submittal **Ground Water Permit - 3 Form(s)**

online forms

CERTIFICATION OF PERSON MAKING SUBMITTAL

data converter tool

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and

instructions

complete. I am aware that there are significant penalties for submitting false information, including

the possibility of fine and imprisonment for knowing violations.

contacts

By entering my name I acknowledge that I have read and agree with the certification

feedback survey

statement. NAME Jacob J. Scheffer

tour the site

05/12/2005 **Date**

exit eDEP

I Do Not Accept

dep home • calendar • new additions • search • site map • privacy policy contact eDEP

Version 3.6.27.0

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 36205

Date and Time Submitted: 5/16/2005 9:55:40 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 36205

Date and Time Submitted: 5/16/2005 9:55:40 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 36205

Date and Time Submitted: 5/16/2005 9:55:40 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 36205

Date and Time Submitted: 5/16/2005 9:55:40 AM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1 - 2005 Apr Monthly)
Discharge Monitoring Report(1 - 2005 Quarterly 1)

Daily Log Sheet(2005 APR DAILY)
Form Name: Certification & Comments



Cancel

Scheffer, Jacob

Scheffer, Jacob From:

Monday, May 02, 2005 3:56 Sent:

To: Whalley, John

Subject: April WWTP Effluent Values

John:

George Petersen called today with the April sampling results. They were all under the permit limits:

 TDS: 920 mg/l • Chloride: 180 mg/l • BOD: 6.7 mg/l • TSS: 2.0 mg/l

Here are the results of the extra sampling:

Town Water: TDS= 96 mg/l, Cl= 30 mg/l
Lift Station A: TDS= 580 mg/l, Cl= 170 mg/l

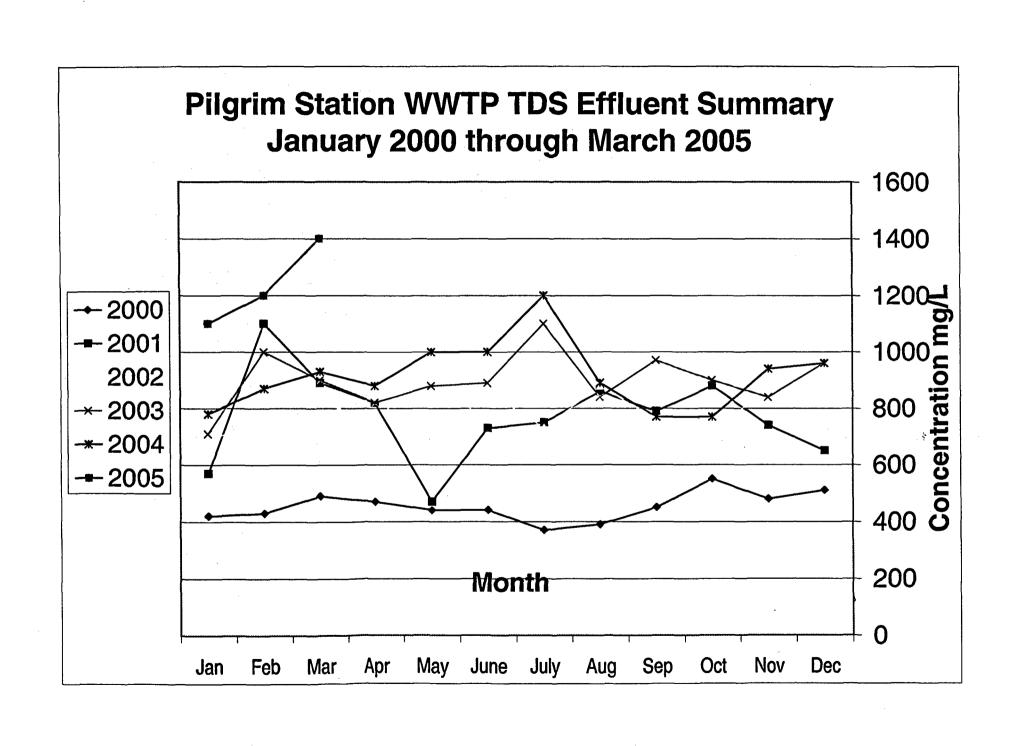
• Lift Station B: TDS= 650 mg/l, Cl= 250 mg/l

• Lift Station C: TDS= 750 mg/l, Cl= 240 mg/l

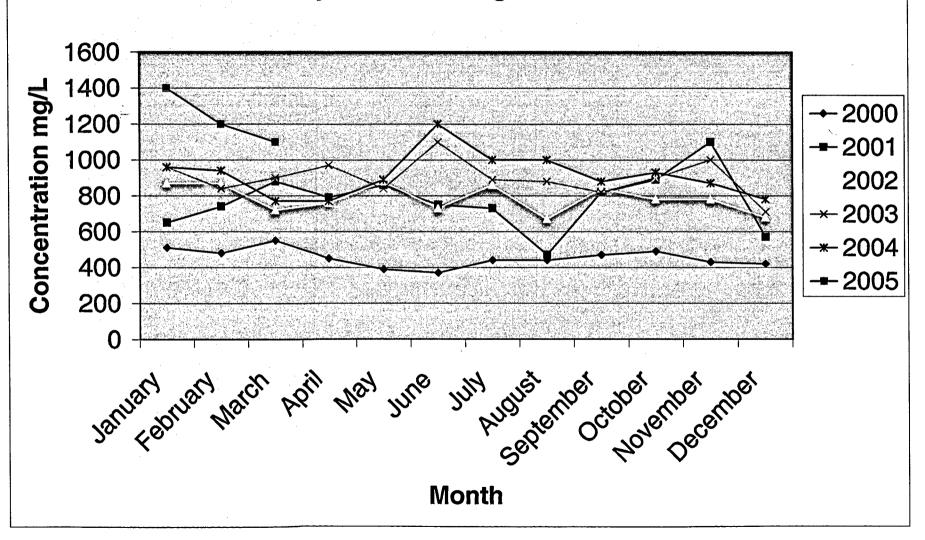
He will fax the results to us soon.

Call me when you get a chance and we will discuss the results.

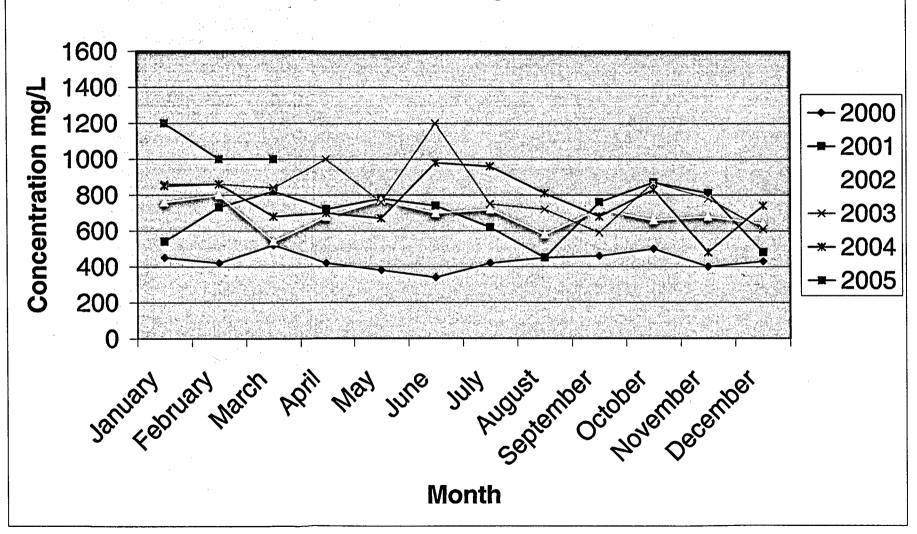
Jay

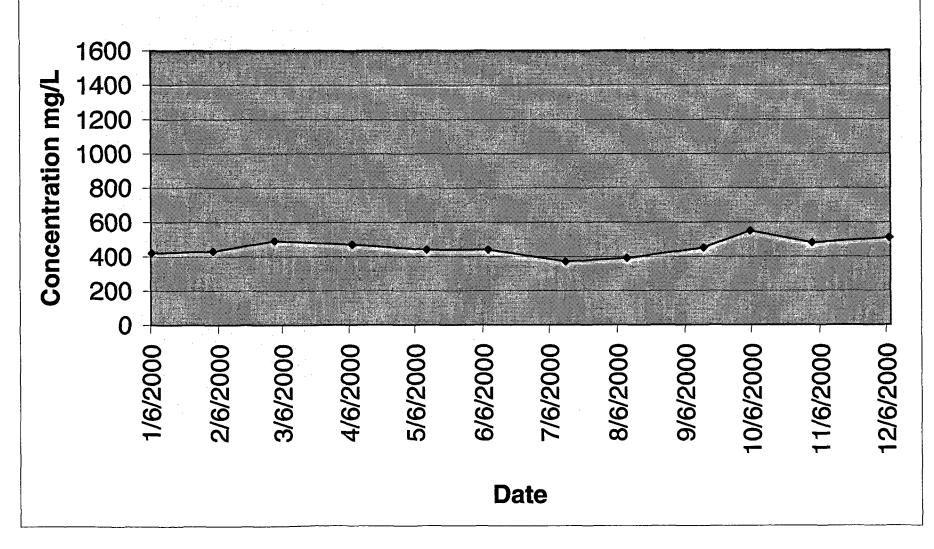


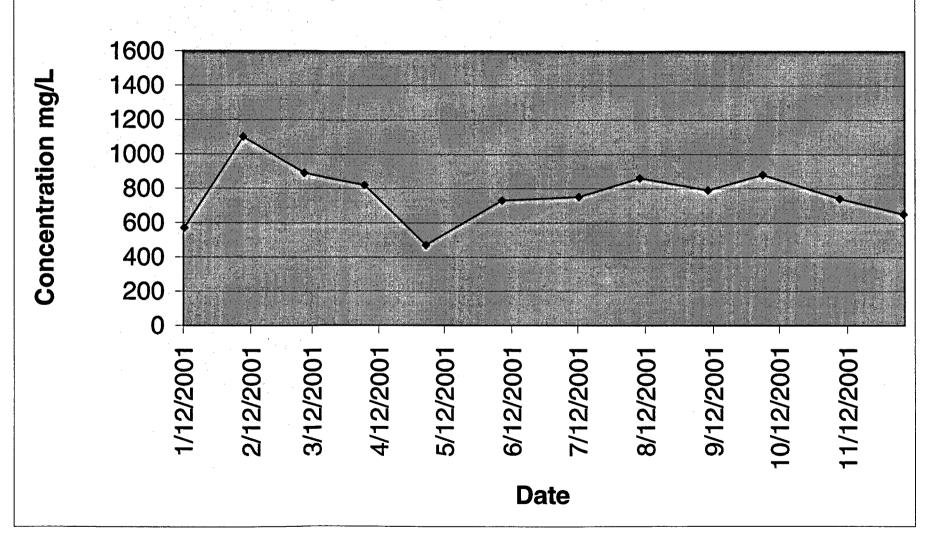
Pilgrim Station WWTP TDS Effluent Summary January 2000 through March 2005

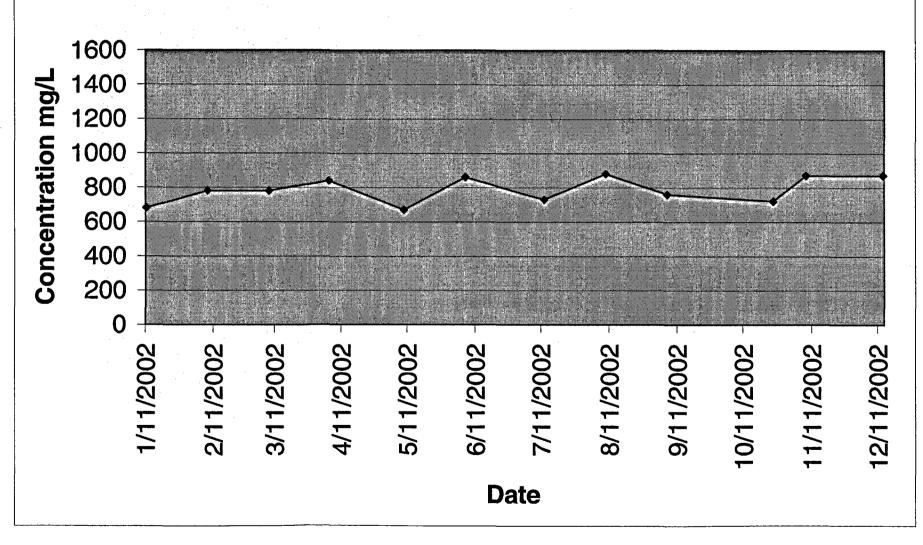


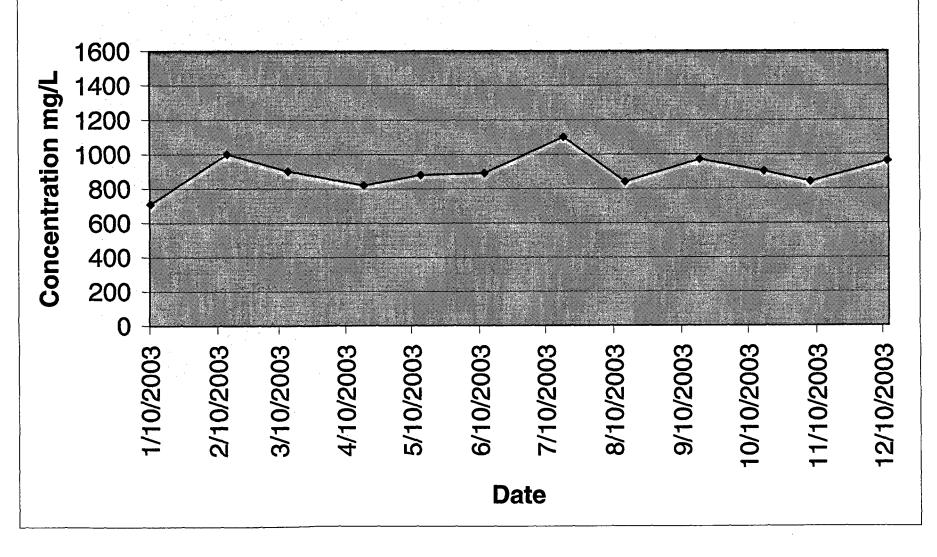
Pilgrim Station WWTP TDS Influent Summary January 2000 through March 2005

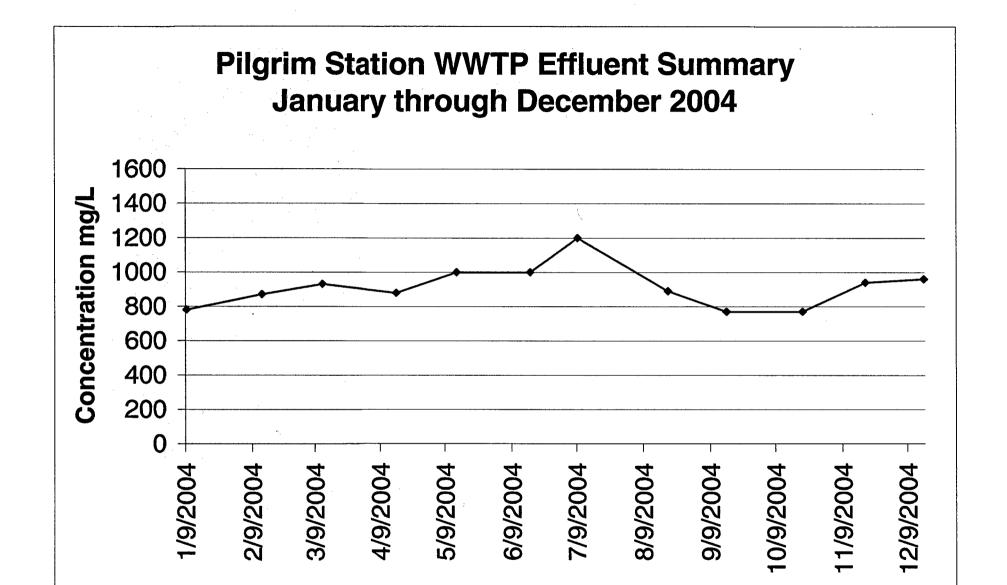




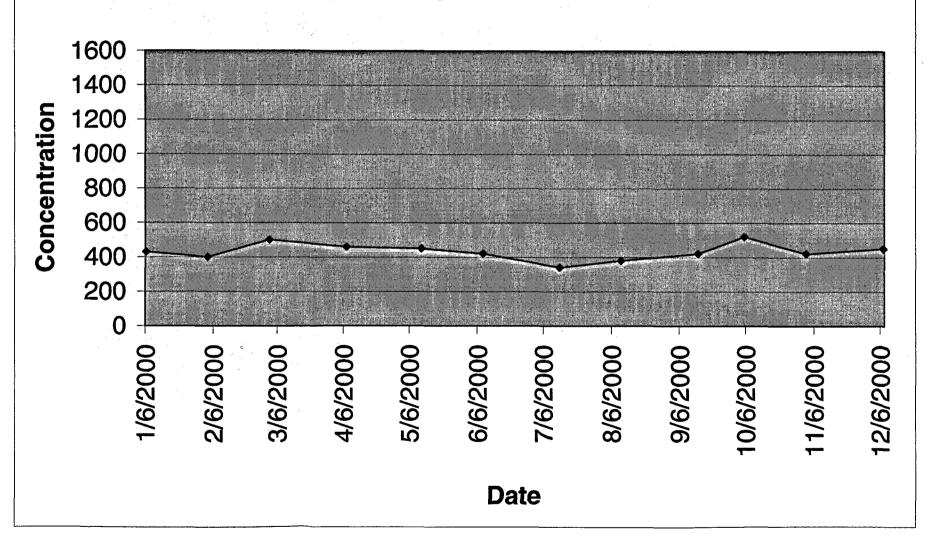


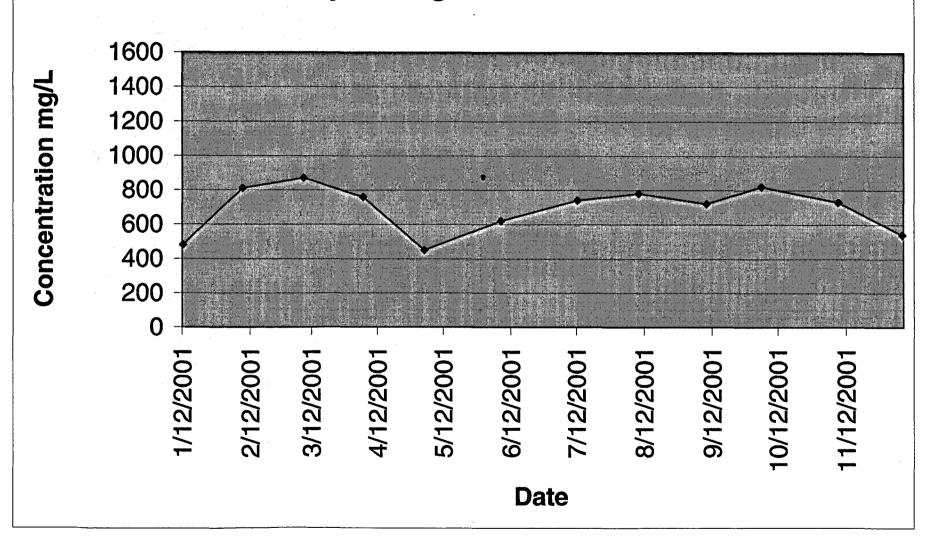


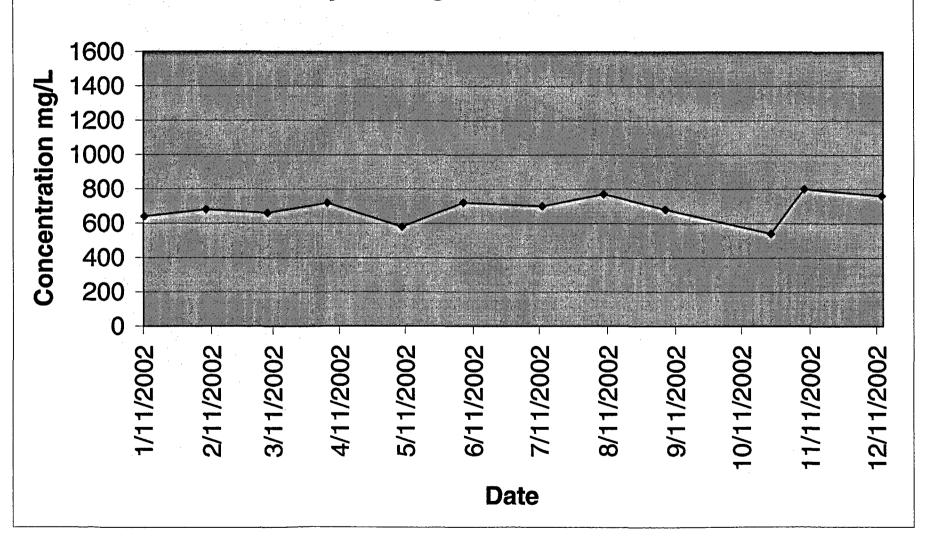


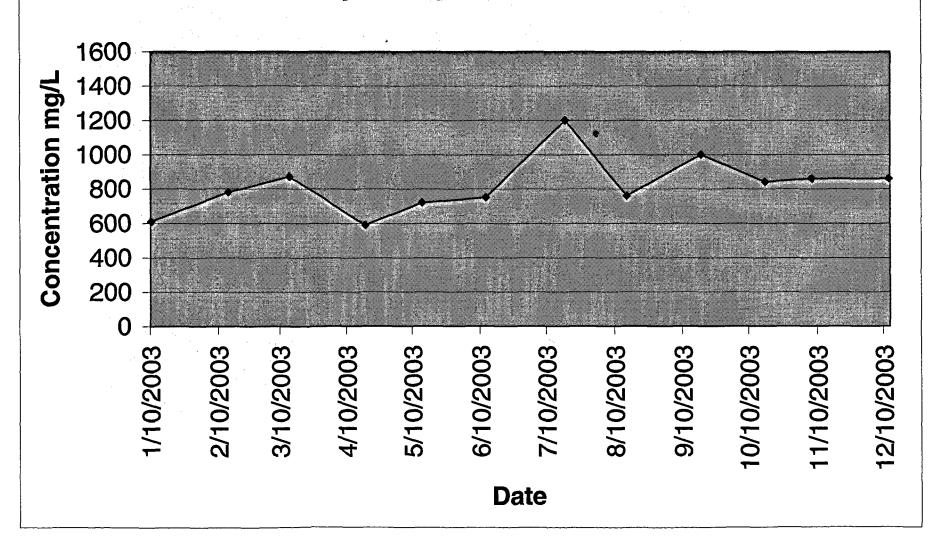


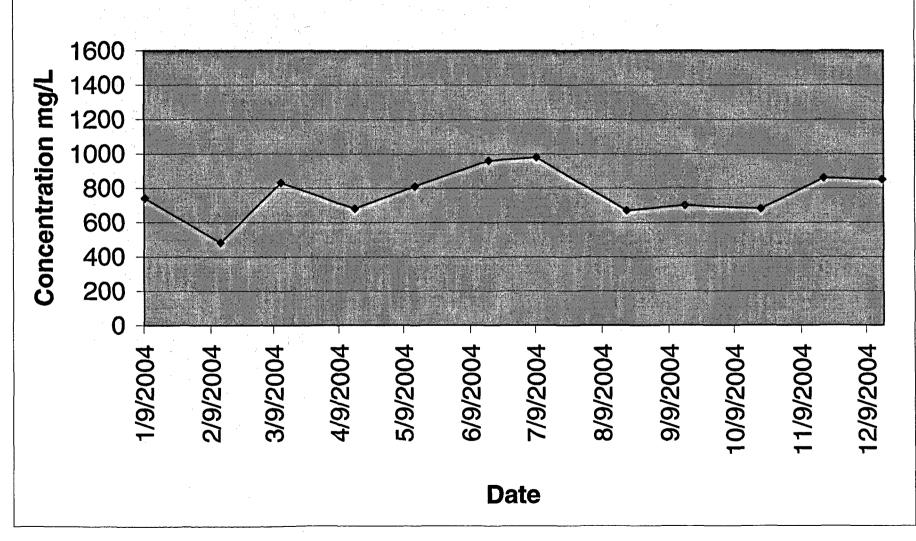
Date

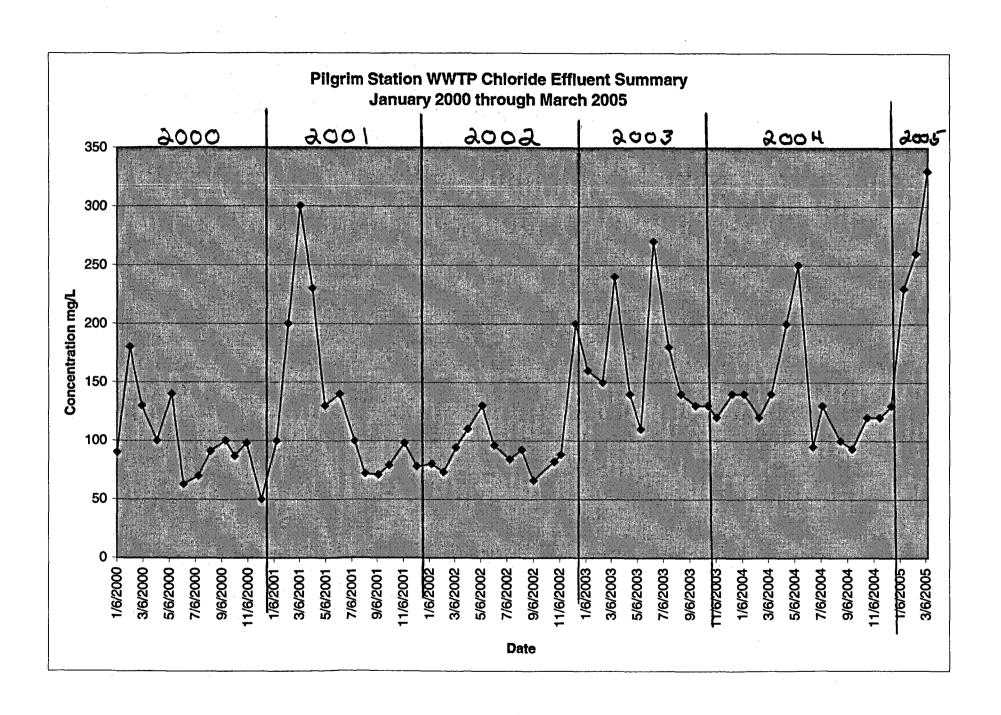












Entergy

CONDITION REPORT

CR-PNP-2005-01942

Originator: Scheffer, Jacob J

Originator Group: Environmental Mgmt

Supervisor Name: Bethay, Stephen J

Discovered Date: 04/27/2005 07:48

Originator Phone: 8323

Operability Required: N

Reportability Required: N

Initiated Date: 04/27/2005 07:57

Condition Description:

During process of cleaning the piping between septic tank #2 and lift station "B", the pump float in the lift station became disengaged (broken grommet). This did not result in an overflow and it is not reportable.

Immediate Action Description:

Float was temporarily reconnected and the lift station is operable.

Suggested Action Description:

Make permanent repairs to float.

Environmental Protection Correspondence Control Sheet

Document # ENV2.05-009e

Date e-Submission: 4/22/05

Date of Letter: 4/22/05

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description:</u> Monthly Groundwater Permit DMR for March 2005

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR) required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 4/22/05. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None



Entergy Nuclear Operations, Inc. Pilorim Station

600 Rocky Hill Road Plymouth, MA 02360

Stephen J. Bethay Director, Nuclear Assessment

ENV 2.05-009e April 22, 2005

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for March 2005

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the March 2005 Groundwater Discharge Report in accordance with the subject permit. The effluent limit for total dissolved solids (TDS) of 1000 mg/l was exceeded by 400 mg/l. This was most likely a result of the infiltration of road salt into the system, which caused the influent TDS value to be higher than the permit limit. At the wastewater treatment plant, magnesium hydroxide is added for pH control, which resulted in the effluent TDS value exceeding the permit limit. The effluent limit for chloride (250 mg/l) was also exceeded. At the WWTP, the influent value for chloride was 360 mg/l, and since the WWTP is not designed for chloride removal, the effluent value was 330 mg/l. The high influent value for chloride is a further indicator of salt infiltration. In March, road salt was widely used at Pilgrim due to adverse weather conditions. Please see the comment section of the enclosed report for a description of the efforts being taken to further investigate this matter.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on April 22, 2005.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely,

Stephen J. Bethay

JJS/dm

Enclosure:

Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

CC:

R. Rondeau, DEP SERO



Groundwater Permit DISCHARGE MONITORING REPORT

All forms for submittal have been completed.

2 This is the last selection.

3 Delete the selected form.

389	
1. Permit Number	
640900523	

2. Tax identification Number

2005 MAR MONTHLY

	Α	. Facility Information				
Important: When filling out	1.	Facility name, address:				
forms on the computer, use		PILGRIM POWER STATION				
only the tab key		a. Name				
to move your		ROCKY HILL ROAD				
cursor - do not use the return		b. Street Address				
key.		PLYMOUTH	MA	02360		
		c. City	d. State	e. Zip Code		
	2.	Contact information:				
		JACOB J. SCHEFFER				
		a. Name of Facility Contact Person				
		(508) 830-8323	jscheff@entergy.	.com		
		b. Telephone Number	c. e-mail address			
	3.	Sampling information:				
		3/10/2005	SAIC/R. I. ANALY	/TICAL		
		a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name			
		VARIOUS	ĺ			
		c. Analysis Performed By (Name)				
	B.	. Form Selection				
	1.	Please select Form Type and Sampling M	onth & Frequency			
		Discharge Monitoring Report - 200	5 Mar Monthly			



Groundwater Permit DISCHARGE MONITORING REPORT

389		
1. Permit	Number	
640900	523	
2. Tax ide	ntificatio	n Number

2005 MAR MONTHLY

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	200	3.6	3.0
TSS MG/L	300	ND	2.0
TOTAL DISSOLVED SOLIDS MG/L	1200	1400	10
CHLORIDE MG/L	360	330	5.0



Groundwater Permit

Daily Log Sheet

Delete the selected form.

389	
1. Permit Number	
640900523	
2. Tax identification Numb	er

2005 Mar Daily

	A	. Facility Information				
Important: When filling out forms on the	1.	Facility name, address:				
		PILGRIM POWER STATION				
computer, use only the tab key		a. Name				
to move your		ROCKY HILL ROAD				
cursor - do not use the return		b. Street Address				
key.		PLYMOUTH	MA	02360		
		c. City	d. State	e. Zip Code		
AITH	2.	Contact information:				
		JACOB J. SCHEFFER				
		a. Name of Facility Contact Person				
	(508) 830-8323		jscheff@entergy.com			
		b. Telephone Number	c. e-mail address			
	3.	Sampling information:				
		3/10/2005	SAIC/R. I. ANALYTICA	\L		
		a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name			
		VARIOUS	•			
		c. Analysis Performed By (Name)				
	•					
	B.	Form Selection				
	1.	Please select Form Type and Sampling Month & F	requency			
		Daily Log Sheet - 2005 Mar Daily				
		All forms for submittal have been completed.				
	2	This is the last selection.				



Groundwater Permit

DAILY LOG SHEET

389			
1. Per	mit Nun	nber	
6409	00523		

2. Tax identification Number

2005 MAR DAILY

C. Da	ily Read	ings/Ana	alysis Inf	ormatio	n			
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
1	4460					7.0		
2	4080					7.0		
3	4760					7.0		
4	2940					6.9		
5	840					6.9		
6	1000					6.9		
7	2850					6.9		
8	5400					6.9		
9	4430					6.8		
10	5760					6.9		
11	5420	,				6.8		
12	2260					6.8		
13	1520					6.8		
14	3980					6.9		
15	5530					6.9		
16	5110					6.9		
17	5460					6.9		
18	5290			·		6.9		
19	850					6.9		
20	1230					6.9		



Groundwater PermitDAILY LOG SHEET

389	
1. Permit Number	
640000522	

2. Tax identification Number 2005 MAR DAILY

C. Dai	ily Read	ings/Ana	lysis Inf	ormation	(cont.)			
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	5350					7.0		
22	5500					7.0		
23	6070					7.0		
24	5950					6.9		
25	5440					6.9		
26	2110					6.9		
27	1390					6.8		
28	6250					6.8		
29	7540					7.0		
30	6080					6.9		
31	5460					7.0		



Groundwater Permit

389
1. Permit Number
640900523

2. Tax identification Number

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If you are filing electronic-ally and want to attach additional comments, select the check box.

Facility Information		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all at	tachments were prepared under my
direction or supervision in accordance with a system designed	to assure that qualified personnel properly
gather and evaluate the information submitted. Based on my is	nquiry of the person or persons who
manage the system, or those persons directly responsible for	gathering the information, the information
submitted is, to the best of my knowledge and belief, true, acc	
are significant penalties for submitting false information, include	ling the possibility of fine and imprisonment
for knowing violations."	

a. Signature	b. Date (mm/dd/yyyy)
a. Digitature	D. Date (Illinadryyyy)

Reporting Package Comments

THE EFFLUENT LIMITS FOR TOTAL DISSOLVED SOLIDS (TDS) AND CHLORIDE WERE EXCEEDED IN MARCH.

THE INFLUENT VALUE FOR TDS WAS 1200 MG/L, WHICH EXCEEDS THE PERMIT EFFLUENT LIMIT OF 1000 MG/L, AND SINCE THE FACILITY WAS NOT DESIGNED TO REMOVE TDS AND, IN ADDITION, MAGNESIUM HYDROXIDE IS ADDED AT THE WWTP FOR PH CONTROL IT IS NOT SURPRISING THAT THE EFFLUENT VALUE OF 1400 MG/L EXCEEDED THE PERMIT LIMIT.

THE INFLUENT VALUE FOR CHLORIDE (360 MG/L) WAS ALSO HIGHER THAN THE PERMIT EFFLUENT LIMIT OF 250 MG/L, AND, SINCE THE WWTP WAS NOT DESIGNED TO REMOVE CHLORIDE, THE EFFLUENT VALUE OF 330 MG/L EXCEEDED THE PERMIT LIMIT.

WE BELIEVE THAT THE PRIMARY CAUSE OF THE HIGH INFLUENT TDS AND CHLORIDE VALUES IS THE INFILTRATION INTO THE SYSTEM OF ROAD SALT, WHICH WAS USED EXTENSIVELY AT THE SITE THIS WINTER. PILGRIM IS INVESTIGATING OTHER POTENTIAL SOURCES OF THE HIGH TDS AND CHLORIDE VALUES. WE PLAN TO SAMPLE THE RAW WATER COMING INTO THE STATION AND WE WILL ATTEMPT TO OBTAIN RAW WATER DATA GOING BACK FIVE YEARS FROM THE TOWN OF PLYMOUTH. ON APRIL 22, 2005, WE ALSO PLAN TO SAMPLE EACH LIFT STATION FOR BOD, TSS, TDS AND CHLORIDE TO DETERMINE IF THE PROBLEM IS BEING GENERATED BY A PARTICULAR SECTION OF THE PLANT. ALONG WITH SAIC, WE ARE EXAMINING THE PAST FIVE YEARS WORTH OF INFLUENT AND EFFLUENT DATA FROM THE WWTP TO SEE IF THERE IS A DISCERNABLE PATTERN OR TREND. WE WILL KEEP DEP INFORMED OF OUR PROGRESS IN THESE MATTERS.

Mass.Gov

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SEARCH MASS GUY

7



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my profile

Signature

my homepage Please check the form(s) you wish to accept.

current submittal **Ground Water Permit - 2 Form(s)**

online forms

☑ CERTIFICATION OF PERSON MAKING SUBMITTAL

data converter tool I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the

instructions

information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including

contacts

the possibility of fine and imprisonment for knowing violations.

feedback survey

By entering my name I acknowledge that I have read and agree with the certification

statement.

Statemen

NAME Jacob J. Scheffer Date 04/22/2005

exit eDEP

tour the site

- I Accept

- I Do Not Accept

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Version 3.5.3.1

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 34429

Date and Time Submitted: 4/22/2005 11:07:29 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 34429

Date and Time Submitted: 4/22/2005 11:07:29 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 34429

Date and Time Submitted: 4/22/2005 11:07:29 AM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

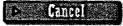
location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1)
Daily Log Sheet(2005 MAR DAILY)
Form Name: Certification & Comments





Scheffer, Jacob

From: Whalley, John

Sent: Tuesday, April 19, 2005 6:57 PM

To: Scheffer, Jacob

Subject: RE: Comments for March WWTP Report

On Friday, April 22, 2005, we will sample all 3 lift stations and the town water supply for BOD, TSS, TDS, and Cl. We will also be performing our regular monthly samples that day. We also took grab samples for chloride on 4/4/05 to determine trend increasing on influent - results were INF 470 mg/L and EFF 360 mg/L. Snow banks were still melting at this time. We also determined the water softener used in the Support Bldg is INHIBITOR N from Barclay Chemical Inc MSDS number BXGRN. That is all the info I have at this point. I agree with what you wrote except add the other samples we are doing for each lift station and remove the part about sampling the septic tanks. I'll try to come see you Thursday morning. Call with any questions.

John

----Original Message-----From: Scheffer, Jacob

Sent: Monday, April 18, 2005 4:42 PM

To: Whalley, John

Subject: Comments for March WWTP Report

John:

Here is what I was thinking of using for the comment section of the monthly report:

"The effluent limits for total dissolved solids (TDS) and chloride were exceeded in March. The influent value for TDS was 1200 mg/l and since the facility was not designed to remove TDS and magnesium hydroxide is added at the WWTP for pH control it is not surprising that the effluent limit was exceeded. The influent value for chloride (360 mg/l) was also higher than the permit effluent limit of 250 mg/l, and, since the WWTP was not designed to remove chloride, the effluent value of 330 mg/l exceeded the permit limit.

We believe that the primary cause of the high influent TDS and chloride values is the infiltration into the system of road salt, which was used extensively at the site this winter. Pilgrim is also investigating other potential sources of the high values. We plan to sample the raw water coming into the station and we will attempt to obtain raw water data going back five years from the Town of Plymouth. We also plan to sample each lift station and septic tank for TDS and chloride to determine if the problem is being generated by a particular section of the plant. Along with SAIC, we are examining the past five years worth of influent and effluent data from the WWTP to see if there is a discernable pattern or trend. We will keep DEP informed of our progress in these matters."

Any comments?

Jay

BENZOTRIAZOLE

CAS # 95-14-7

Synonym: - 1,2,3 Benzotriazole

1,2-Aminoazophenylene Azimidobenzene

Aziminobenzene Benzene Azimide 2,3 Diazaindole

Trade Name: - BT / BT-PG

Formula: - C₆H₅N₃

Off-white to light yellow solid.

Assay 98.0% min.

Application: - Corrosion Inhibitors. Photographic chemical, intermediate for dyes, coupling agents, fungicides, pharmaceuticals, and miscellaneous chemicals.

Request Technical Bulletin COR4315.

BARCLAY CHEMICAL INC -- INHIBITOR N ______ MSDS Safety Information _______ FSC: 6850 MSDS Date: 11/09/1992 MSDS Num: BXGRN LIIN: 00N059278 Product ID: INHIBITOR N MFN: 01 Responsible Party Cage: 1HA92 Name: BARCLAY CHEMICAL CO INC Address: 150 COOLIDGE AVE City: WATERTOWN MA 02172 Info Phone Number: 617-926-3400 Emergency Phone Number: 800-424-9300 (CHEMTREC) Published: Y ______ Contractor Summary _____ Cage: 1HA92 Name: BARCLAY CHEMICAL CO Address: 150 COOLIDGE AVE City: WATERTOWN MA 02172 Phone: 617-926-3400 Ingredients ___________ Cas: 95-14-7 RTECS #: DM1225000 Name: 1H-BENZOTRIAZOLE; (1-H BENZOTRIAZOLE) % Wt: <5 OSHA PEL: 15 MG/M3 (MFR) ACGIH TLV: 10 MG/M3 (MFR) Cas: 7632-00-0 RTECS #: RA1225000 Name: NITROUS ACID, SODIUM SALT; (SODIUM NITRITE) (CERCLA) % Wt: 20-40 OSHA PEL: N/K (FP N) ACGIH TLV: N/K (FP N) EPA Rpt Qty: 100 LBS DOT Rpt Qty: 100 LBS Name: SUPP DATA: HEMOGLOBIN OCCURS SPONT AFTER TERMINATION OF EXPOS, MOD CYANOSIS NEED BE TREATED ONLY BY SUPPORTIVE ____ Name: ING 3:MEASURES SUCH AS BED REST & OXYGEN INHALATION. Health Hazards Data Handling and Disposal Fire and Explosion Hazard Information ______ Flash Point Text: NONE

Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).

Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EOUIPMENT (FP N). Control Measures ______ Physical/Chemical Properties B.P. Text: >212F,>100C M.P/F.P Text: 10F,-12C Vapor Pres: SUPP DATA Spec Gravity: 1.3 PH: 9-10 Evaporation Rate & Reference: SAME AS WATER Solubility in Water: 100% Appearance and Odor: LIQUID, PALE YELLOW SOLUTION; FAINT ODOR. ************************************* Reactivity Data Stability Indicator: YES Stability Condition To Avoid: NONE SPECIFIED BY MANUFACTURER. Materials To Avoid: INCOMPAT W/ACIDS, AMMONIUM SALTS, AMINES, ACTIVATED CARBON, CYANIDES & REDUCING AGENTS. MAY REACT W/SECONDARY OR(SUPDAT) Toxicological Information Ecological Information ______ MSDS Transport Information ______ __________ Regulatory Information Other Information ______ Product ID: INHIBITOR N Cage: 1HA92 Company Name: BARCLAY CHEMICAL CO Street: 150 COOLIDGE AVE City: WATERTOWN MA Zipcode: 02172 Health Emergency Phone: 800-424-9300 (CHEMTREC) Label Required IND: Y Date Of Label Review: 05/04/1995 Status Code: C Label Date: 05/04/1995 Origination Code: G Eye Protection IND: YES Skin Protection IND: YES Signal Word: WARNING Respiratory Protection IND: YES Health Hazard: Moderate Contact Hazard: Moderate

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: ACUTE:OVEREXPOSURE MAY INCLUDE SKIN IRRITATION, NAUSEA, HEADACHE, REDUCTION OF BLOOD'S OXYGEN CARRYING CAPACITY W/CYANOSIS, WEAKNESS OR SHORTNESS OF BREATH BY FORMATION OF METHEMOGLOBIN. TOXIC EFFECTS DESCRIBED IN ANIMALS FROM SHORT EXPOSURES INCLUDE CYANOSIS & VASODILATION. MAY BE ABSORBED THROUGH SKIN. CHRONIC:NONE LISTED BY MANUFACTURER.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.



	FACSI	MILE TRANSMITTAL SHEET
	то: Bob Maher c/o John Whalley Jay Scheffer	FROM: George Petersen
	COMPANY: Entergy	DATE: 4/12/05
	FAX NUMBER: 508 830-8939, (-8575), (-8529)	TOTAL NO. OF PAGES INCLUDING COVER:
FAX:	PHONE NUMBER: 508 830 8960) 508 830 8146	SENDER'S REFERENCE NUMBER:
	Resample April 05 - Chloride only	YOUR REFERENCE NUMBER: Work Order# 0503-03675
	X urgent	□ PLEASE COMMENT □ PLEASE REPLY □ PLEASE RECYCLE

NOTES/COMMENTS:

Attached is the re-sampled monitoring results for samples collected 4/4/05. As shown in the table below, the chloride result shows the chloride exceeding the 250 mg/L effluent limitation by 110 mg/L.

As we discussed last week, the source of elevated chloride may be the deicing agents (salt) being used in response to the near record snow falls during these months. With the heavy rain over the weekend of April 2 and 3, it's possible some runoff might have entered the sanitary system at manhole cover locations.

Parameter	Effluent Limit	Effluent Result	Exceedance?
Chloride	470 mg/L	360	Yes .

3-25-05FAX.DOC



Page 1 of 2

CERTIFICATE OF ANALYSIS

SAIC Engineering Attn: Ms. Lisa Reynolds 10 Main Street Lakeville, MA 02347 Date Received: 04/04/2005 Date Reported: 04/11/2005 P.O.#: 4400054573 Work Order# 0504-05065

DESCRIPTION: TWO WASTEWATER SAMPLES

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015 NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

enc: Chain of Custody



Page 2 of 2

R.L. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

SAIC Engineering

Date Received: 04/04/2005 Work Order #: 0504-05065

Sample # 001 SAMPLE DESCRIPTION:

INFLUENT #1

SAMPLE TYPE: GRAB SAMPLE DATE/TIME: 04/04/2005 @ 11:35

PARAMETER

SAMPLE RESULTS

470

360

DET. LIMIT

5.0

UNITS

mg/l

METHOD

EPA 300.0

ANALYZED

DATE

04/08/2005

ANALYST MI.

CHLORIDE

Sample # 002 SAMPLE DESCRIPTION:

EFFLUENT #1

SAMPLE TYPE: GRAB SAMPLE DATE/TIME: 04/04/2005 @ 11:40

PARAMETER

SAMPLE RESULTS

DET. LIMIT

UNITS

METHOD

DATE ANALYZED

ANALYST

CHLORIDE

5.0 mg/l

EPA 300.0

04/08/2005

ML

R 41 : Was Tel:	•	ytical Lab 10e 1888 180 170	oratories 131 Coolidge Hudson, M Tel: 888-2 Fax: 978-5	St, Bldg. 2 A 01749 28-3334 68-0078	ab or Composite	of Containers & Type T	Preservation Code P	Matrix Code M																^	04/14/2005 08:48 FAI
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	SAIC Meeting
	Joe Cantwell J. Whalley T. Scheffer
	George Petierson R. Haher T. Egan
	Data from 2000 - 2001
	788 4 TOS-soth voie in 2001
	2000 ~ 430 TOS(TH) HFO TOS (EFF)
	Solvolule to onung offsete seption tanks on a guarterly basis.
	and to the system.
	Mag water goes into septié nesteur.
	no results from Cl analysis.
	Sertic tends #2, (L.S. B) well be
	desludged next week (4/11/05)
	No felter so beo nester to treat TDS
	We should look at you water duter going back 5 gra.
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	Jook at part fine years of doctor &
Æ	Sample each left statum.
	Sample each left statum. (BOD, TSS, TIDS, C1)
	Sample roeu water.



FACS	SIMILE TRANSMITTAL SHEET	
TO: Bob Maher and Jay Scheffer c/o John Whalley	FROM: George Petersen	
COMPANY: Entergy	DATE: 4/5/05	
FAX NUMBER: 508 830-8529	TOTAL NO. OF PAGES INCLUD	ING COVER:
PHONE NUMBER: 508 830 8960/508 830 8146	SENDER'S REFERENCE NUMBE	R:
RE: Conference Call – Friday, 4/8/05	your reference number: Work Order# 0503-	03675
□ urgent □ for review	□ PLEASE COMMENT □ PLEASE REP	LY DPLEASE RECYCLE
	:	

NOTES/COMMENTS:

As we discussed yesterday, SAIC will set up a conference call for this Friday, April 8, 2005 at 10 AM to review possible corrective action alternatives to address the elevated Total Dissolved Solids (TDS) and elevated chloride concentrations exceeding the effluent limitation criteria, per the DEP's issued discharge permit.

For the third consecutive month, the monthly monitoring results for samples collected at the WWTF reported the effluent TDS concentration exceeding the effluent limitation of 1,000 mg/L and the chloride result exceeding the 250 mg/L effluent limitation.

To call into the conference call – dial 1-800-366-7242. Listen to the instructions of the voice prompt and when asked to enter a pass code followed by the # sign, enter the pass code 5118 #.

The voice prompt will ask you to identify yourself by name followed by the # sign; the system will automatically enter you into the meeting.

It is not necessary for all participants at the Pilgrim Station to be in one conference room, the conference call will be set up with multiple phone lines to allow for each participant to call in from their office or remote location.

4-5-05FAX.DOC

Environmental Protection Correspondence Control Sheet

Document # ENV2.05-007e

Date e-Submission: 3/21/05

Date of Letter: 3/24/05

Distribution

S. J. Bethay R. Maher V. Nutter (WPO)

J. J. Scheffer

J. J. Whalley

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for February 2005

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR) required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 3/21/05. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None



Entergy Nuclear Operations, Inc. Pilgrim Station

600 Rocky Hill Road Plymouth, MA 02360

Stephen J. Bethay Director, Nuclear Assessment

ENV 2.05-007e March 24, 2005

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for February 2005

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the February 2005 Groundwater Discharge Report in accordance with the subject permit. The effluent limit for total dissolved solids (TDS) of 1000 mg/l was exceeded by 200 mg/l. This was most likely a result of the infiltration of road salt into the system, which caused the influent TDS value to be equal to the permit limit. At the wastewater treatment plant, magnesium hydroxide is added for pH control, which resulted in the effluent TDS value exceeding the permit limit. The effluent limit for chloride (250 mg/l) was also exceeded. At the WWTP, the influent value for chloride was 270 mg/l, and since the WWTP is not designed for chloride removal, the effluent value was 260 mg/l. The high influent value for chloride is a further indicator of salt infiltration. In February, road salt was widely used at Pilgrim due to adverse weather conditions.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on March 21, 2005.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely.

Stephen J. Bethay

JJS/dm

Enclosure:

Pilgrim Nuclear Power Station's Monthly

Groundwater Discharge Report

CC:

R. Rondeau, DEP SERO



Groundwater Permit DISCHARGE MONITORING REPORT

389	•
1. Permit Number	•
640900523	

2. Tax identification Number 2005 FEB MONTHLY

3. Sampling Month & Frequency

A.	Facility Information		
1.	Facility name, address:		
	PILGRIM POWER STATION		· · · · · · · · · · · · · · · · · · ·
	a. Name		
	ROCKY HILL ROAD		
	b. Street Address		
	PLYMOUTH	MA	02360
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	(508) 830-8323	jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	
3.	Sampling information:		
	2/11/2005	SAIC/R.I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
В.	Form Selection		
1.	Please select Form Type and Sampling Month & Fi	requency	
	Discharge Monitoring Report - 2005 Feb M	Monthly	
	All forms for submittal have been completed.		
ء ا	This is the last selection		

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



3 Delete the selected form.



Groundwater Permit DISCHARGE MONITORING REPORT

3	89		···········	•
1.	Permit N	umber		
6	409005	23		

2. Tax identification Number

2005 FEB MONTHLY

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	100	3.0	3.0
TSS MG/L	160	2.0	2.0
TOTAL DISSOLVED SOLIDS MG/L	1000	1200	10
CHLORIDE MG/L	270	260	5.0



Groundwater PermitDAILY LOG SHEET

389	·	·····
1. Perm	it Number	
64090	0523	

2. Tax identification Number 2005 FEB DAILY

3. Sampling Month & Frequency

A.	Facility Information		
1.	Facility name, address:		
	PILGRIM POWER STATION		
	a. Name		
	ROCKY HILL ROAD		
	b. Street Address		
	PLYMOUTH	MA	02360
	c. City	d. State	e. Zip Code
2.	Contact information:		
	JACOB J. SCHEFFER		
	a. Name of Facility Contact Person		
	(508) 830-8323	jscheff@entergy.com	
	b. Telephone Number	c. e-mail address	······································
3.	Sampling information:		
	2/11/2005	SAIC/R.I. ANALYTICAL	
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
	VARIOUS		
	c. Analysis Performed By (Name)		
<u> </u>	Form Selection		
1	Diogram asiast Form Type and Compline Month 9 Er		
•	Please select Form Type and Sampling Month & Fr	requency	
	Daily Log Sheet - 2005 Feb Daily		
	All forms for submittal have been completed.		
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11	This is the last selection.		

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



3 Delete the selected form.



Groundwater Permit

DAILY LOG SHEET

3	39			
1.	Permit I	Number		
6	10900	23		
2.	Tax ide	ntificatio	n Number	

2005 FEB DAILY

3. Sampling Month & Frequency

C. Daily Readings/Analysis Information								
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
1	4150					7.1		
2	5830					7.0		
3	1680					7.0		
4	3260					7.1		
5	2790					7.2		
6	200					7.2		
7	4850					7.2		
8	4620					7.1		
9	6150					7.1		
10	4980					7.1		
11	6020					7.0		
12	2860					7.0		
13	1470					7.0		
14	2290					7.0		
15	7980					7.0		
16	3740			·		7.0		
17	4930					7.1		
18	5600					7.1		
19	1380					7.1		
20	1950					7.0		



Groundwater Permit DAILY LOG SHEET

389	
1. Permit N	lumber
6400005	23

2. Tax identification Number 2005 FEB DAILY

3. Sampling Month & Frequency

C. Dai	C. Daily Readings/Analysis Information (cont.)							
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	870					7.0		
22	5260					7.0		
23	4980					7.2		
24	4570					7.1		
25	5280					7.2		
26	650					7.1		
27	1620					7.1		
28	4730					6.9		
29								
30								

31



389

1. Permit Number

640900523

2. Tax identification Number

Groundwater Permit

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following certification

If you are filing electronic-ally and want to attach additional comments, select the check box.

Facility Information		
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

<u></u>		
a. Signature	b. Date (mm/dd/yyyy)	

Reporting Package Comments

- 1) THE EFFFLUENT VALUES FOR BOD AND TSS LISTED ON THE DISCHARGE MONITORING REPORT FORM ARE ACTUALLY LESS THAN (<) THE DETECTION LIMIT.
- 2) IN FEBRUARY THE EFFLUENT VALUES FOR TOTAL DISSOLVED SOLIDS (TDS) AND CHLORIDE EXCEEDED PERMIT LIMITS.

THE INFLUENT VALUE FOR TDS WAS AT THE PERMIT LIMIT OF 1000 MG/L AND SINCE MGOH IS ADDED AT THE WWTP FOR PH CONTROL, THE EFFLUENT LIMIT WAS EXCEEDED BY 200 MG/L.

THE INFLUENT VALUE FOR CHLORIDE OF 270 MG/L EXCEEDED THE PERMIT OF 250 MG/L, AND SINCE THE WWTP IS NOT DESIGNED FOR CHLORIDE REMOVAL THE EFFLUENT CONCENTRATION OF 260 MG/L EXCEEDED THE PERMIT LIMIT.

WE BELIEVE THAT THE HIGH INFLUENT VALUES WERE CAUSED BY THE INFILTRATION OF ROAD SALT INTO THE SYSTEM. ROAD SALT WAS USED EXTENSIVELY AT THE FACILITY IN FEBRUARY DUE TO THE ADVERSE WEATHER CONDITIONS. PILGRIM HAS ATTEMPTED TO IMPROVE THE SEALS OF THE LIFT STATION COVERS.

THE PERMIT EXCEEDENCES WERE DISCUSSED WITH RICHARD RONDEAU OF DEP'S SOUTHEAST REGIONAL OFFICE ON MARCH 3, 2005. Mass. Gov

SEARCH MASS.GOV



dep home . calendar . new additions . search . site map



my profile

Signature

my homepage **Ground Water Permit - 2 Form(s)**

current submittal

online forms

data

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the

converter tool

information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

instructions

✓CERTIFICATION OF PERSON MAKING SUBMITTAL

contacts

By entering my name I acknowledge that I have read and agree with the certification

statement.

03/21/2005

feedback survey

NAME Jacob J. Scheffer

Date

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Version 3.5.3.1

Next

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 31847

Date and Time Submitted: 3/21/2005 1:42:20 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 31847

Date and Time Submitted: 3/21/2005 1:42:20 PM

User Email: Imedeir@entergy.com

DEP Transaction ID: 31847

Date and Time Submitted: 3/21/2005 1:42:20 PM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1)
Daily Log Sheet(2005 FEB DAILY)
Form Name: Certification & Comments

> Print

c Cancel

Environmental Protection Correspondence Control Sheet

Document # ENV2.05-005e

Date e-Submission: 2/24/05

Date of Letter: 2/25/05

Distribution

S. J. Bethay

V. Nutter (WPO)

J. J. Whalley

R. Maher

J. J. Scheffer

J. W. Egan

<u>Title/Description</u>: Monthly Groundwater Permit DMR for January 2005

Electronic & Hard Copy Submission

Summary:

Submission of monthly Discharge Monitoring Report (DMR) required by provisions of our Groundwater Permit. This report was submitted electronically using eDEP on 2/24/05. The report was also sent in hard copy form to the Plymouth

Board of Health

Lead Engineer:

J. J. Scheffer

Action:

None



Entergy Nuclear Operations, Inc.

Pilgrim Station 600 Rocky Hill Road Plymouth, MA 02360

Stephen J. Bethay Director, Nuclear Assessment

ENV 2.05-005e

February 25, 2005

Plymouth Board of Health Plymouth Town Hall 11 Lincoln Street Plymouth, MA 02360

Re:

Groundwater Discharge Permit SE #2-389

Discharge Report for January 2005

To Whom It May Concern:

Entergy Nuclear Operations, Inc. hereby submits the January 2005 Groundwater Discharge Report in accordance with the subject permit. The effluent limit for total dissolved solids (TDS) of 1000 mg/l was exceeded by 100 mg/l. This was most likely a result of the infiltration of road salt into the system, which caused the influent TDS value to be equal to the permit limit. At the wastewater treatment plant, magnesium hydroxide is added for pH control, which resulted in the effluent TDS value exceeding the permit limit. In January, road salt was widely used at Pilgrim due to adverse weather conditions.

This report was submitted electronically to the MA Department of Environmental Protection using eDEP on February 24, 2005.

Should you have any questions regarding this report, please contact Mr. Jacob Scheffer (508-830-8323), or Mr. Joseph Egan (508-830-8915) of Pilgrim's Environmental Protection Group.

Sincerely,

Stephen J. Bethay

JJS/dm

Enclosure: PNPS's Monthly Groundwater Discharge Report

cc: R. Rondeau, DEP SERO



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Groundwater Discharge Program

Groundwater Permit DISCHARGE MONITORING REPORT

389
1. Permit Number
640900523

2. Tax identification Number

2005 JAN MONTHLY

3. Sampling Month & Frequency

	A.	Facility Information						
Important: When filling out	1.	Facility name, address:						
forms on the computer, use		PILGRIM POWER STATION						
only the tab key		a. Name						
to move your cursor - do not		ROCKY HILL ROAD						
use the return		b. Street Address						
key.		PLYMOUTH	MA	02360				
		c. City	d. State	e. Zip Code				
	2.	Contact information:						
		JACOB J. SCHEFFER						
		a. Name of Facility Contact Person						
		(508) 830-8323	jscheff@entergy.com					
		b. Telephone Number	c. e-mail address					
	3.	Sampling information:	·					
		1/14/2005	SAIC/R.I. ANALYTICAL LA	ABORATORIES, INC.				
		a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name					
		VARIOUS						
		c. Analysis Performed By (Name)						
	B. Form Selection							
	1.	Please select Form Type and Sampling Month & Fr	requency					
		Discharge Monitoring Report - 2005 Jan M	lonthly					
		All forms for submittal have been completed.						

This is the last selection.

Delete the selected form.



Groundwater Permit DISCHARGE MONITORING REPORT

389	
1. Permit Number	•
640900523	

2. Tax identification Number

2005 JAN MONTHLY

3. Sampling Month & Frequency

D. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND"
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
BOD MG/L	220	3.0	3.0
TSS	770	2.0	2.0
TOTAL DISSOLVED SOLIDS MG/L	1000	1100	10
CHLORIDE MG/L	220	230	5.0



Groundwater Permit DAILY LOG SHEET

389
1. Permit Number
640900523

2. Tax identification Number 2005 JAN DAILY

3. Sampling Month & Frequency

A. Facility Information

Delete the selected form.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return



1. Facility name, address: PILGRIM POWER STATION a. Name ROCKY HILL ROAD	
a. Name ROCKY HILL ROAD	
ROCKY HILL ROAD	
b. Street Address	
PLYMOUTH MA 02360	
c. City d. State e. Zip (Code
2. Contact information:	
JACOB J. SCHEFFER	
a. Name of Facility Contact Person	
(508) 830-8323]scheff@entergy.com	
b. Telephone Number c. e-mail address	
3. Sampling information:	
1/14/2005 SAIC/R.I. ANALYTICAL LABORAT	TORIES, INC.
a. Date Sampled (mm/dd/yyyy) b. Laboratory Name	
VARIOUS	
c. Analysis Performed By (Name)	
B. Form Selection	
D. I Olli Oelection	
Please select Form Type and Sampling Month & Frequency	
Daily Log Sheet - 2005 Jan Daily	
	·
All forms for submittal have been completed.	
2 This is the last selection.	



Groundwater Permit

389 1. Permit Number 640900523

2. Tax identification Number 2005 JAN DAILY

3. Sampling Month & Frequency

DAILY LOG SHEET

C. Daily Readings/Analysis Information								
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV intensity (%)
1	2310					7.6		
2	1140					7.6		
3	5630					7.7		
4	4750					7.7		
5	4310					7.4		
6	7040					7.4		
7	3500					7.3		
8	1680					7.3		
9	1710					7.3		
10	5960					7.3		
11	5680			t.		7.3		
12	6560					7.2		
13	5030					7.3		
14	5270	·				7.3		
15	1440					7.3		
16	1200					7.3		
17	5370		·			7.1		
18	6160					7.1		
19	2470					7.0		
20	4790					7.2		



Groundwater Permit

DAILY LOG SHEET

	389				
١	1 Da	mit A	lumber	·	

640900523
2. Tax identification Number

2005 JAN DAILY

3. Sampling Month & Frequency

C. Daily Readings/Analysis Information (cont.)								
Date	Effluent Flow GPD	Reuse Flow GPD	Irrigation Flow GPD	Turbidity	Influent pH	Effluent pH	Chlorine Residual (mg/l)	UV Intensity (%)
21	5090					7.2		
22	910					7.3		
23	1700					7.3		
24	4520					7.3		
25	7830					7.3		
26	5530					7.1		
27	5500					7.0		
28	4750					7.1		
29	1000					7.1		
30	2580					7.1		
31	4900					7.1		



Groundwater Permit DISCHARGE MONITORING REPORT

389			
1. Perm	it Numb	er	
64090	0523		

2. Tax identification Number 2004 SEMI-ANNUAL 2

3. Sampling Month & Frequency

	A	. Facility Information		
Important: When filling out	1.	Facility name, address:		
forms on the computer, use		PILGRIM POWER STATION		
only the tab key		a. Name		
to move your		ROCKY HILL ROAD		
cursor - do not use the return		b. Street Address		
key.		PLYMOUTH	MA	02360
		c. City	d. State	e. Zip Code
	2.	Contact information:		
		JACOB J. SCHEFFER		
		a. Name of Facility Contact Person		
		(508) 830-8323	jscheff@entergy.com	
		b. Telephone Number	c. e-mail address	
	3.	Sampling information:		
		1/14/2005	SAIC/R.I. ANALYTICAL	LABORATORIES, INC.
		a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name	
		VARIOUS		
		c. Analysis Performed By (Name)		
	R	Form Selection		
	U.			
	1.	Please select Form Type and Sampling Month & F	requency	
		Discharge Monitoring Report - 2004 Semi	-Annual 2	
		All forms for submittal have been completed.		
	2	This is the last selection.		

3 Delete the selected form.



Groundwater Permit DISCHARGE MONITORING REPORT

3	89			
1	Permit	Numbe	er	
6	40900	523		
2	Tax ide	entificat	ion Nur	nber

2004 SEMI-ANNUAL 2 3. Sampling Month & Frequency

E. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l. For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
ACETONE UG/L	NS	NS	NS
BENZENE ugr.	1	1	1
1,1 DICHLOROETHANE	1	1	1
1,2 DICHLOROETHANE	1	1	1
1,1 DICHLOROETHYLENE	1	1	1
CIS-1,2-DICHLOROETHYLENE	NS	NS	NS
TRANS 1,2 DICHLOROETHYLENE	1	1	1
ETHYL BENZENE ugal	1	1	1
METHYLENECHLORIDE UG/L	5	5	5
TOLUENE uar	34	1	1
O-XYLENE uga.	NS	NS	NS
P/M XYLENE ug/L	NS	NS	NS
CARBON TETRACHLORIDE	1	1	1
CHLOROFORM UG/L	4	1	1
2-BUTANONE (MEK)	NS	NS	NS



Groundwater PermitDISCHARGE MONITORING REPORT

389	
1. Permit Number	
640900523	

2. Tax identification Number 2004 SEMI-ANNUAL 2

3. Sampling Month & Frequency

E. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
4-METHYL-2-PENTANONE (MIBK)	NS	NS	NS
TRICHLOROETHYLENE	1	1	1
TETRACHLOROETHYLENE UGAL	1	1	1
1,1,1 TRICHLOROETHANE UG/L	1	1	1
VINYLCHLORIDE UG/L	1	1	1
STYRENE	NS	NS	NS
CHLOROBENZENE UGAL	4	1	1
METHYL TERTIARY BUTYL ETHER UGAL	NS	NS	NS
CHLOROETHANE UGL	10	10	10
1,2-DICHLOROPROPANE	1	1	1
DIBROMOCHLOROMETHANE UGAL	1	1	1
1,1,2-TRICHLOROETHANE		1	[1
2-CHLOROETHYLVINYL ETHER UG/L	2	2	2
BROMODICHLOROMETHANE UG/L	1	[1	1
BROMOFORM UGZL	1	1	1



Groundwater Permit DISCHARGE MONITORING REPORT

389	P.,	
1. Perm	it Number	
64090	0523	

2. Tax identification Number 2004 SEMI-ANNUAL 2

3. Sampling Month & Frequency

E. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.

1. Parameter/Contaminant Units	2. Influent	3. Effluent	4. Effluent Method Detection Limit
1,1,2,2-TETRACHLOROETHANE	1	1	1
CHLOROMETHANE UGAL	10	10	10
BROMOMETHANE UGAL	10	10	10
CARBONDISULFIDE UGAL	NS	NS	NS
2-HEXANONE	NS	NS	NS
ACROLEIN ug/L	NS	NS	NS
ACRYLONITRILE UGAL	NS	NS	NS
TRANS-1,3-DICHLOROPROPENE	1	1	
CIS-1,3-DICHLOROPROPENE	1	1	



Groundwater PermitMONITORING WELL DATA REPORT

3	89		
1	Permit N	lumber	
6	409005	23	
2	Tax ider	ntificatio	n Number

2004 SEMI-ANNUAL 2
3. Sampling Month & Frequency

A. Facility Information

Important:
When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return
key.





1.	Facility name, address:	•					
. ••	PILGRIM POWER STATION						
	a. Name						
	ROCKY HILL ROAD						
	b. Street Address						
	PLYMOUTH	MA d. State	02360				
	c. City	a. State	e. Zip Code				
2.	Contact information:						
	JACOB J. SCHEFFER						
	a. Name of Facility Contact Person						
	(508) 830-8323	jscheff@entergy.com					
	b. Telephone Number	c. e-mail address					
3.	Sampling information:						
	1/18/2005	SAIC/R.I. ANALYTICAL L	ABORATORIES, INC.				
	a. Date Sampled (mm/dd/yyyy)	b. Laboratory Name					
	VARIOUS						
	c. Analysis Performed By (Name)						
B.	Form Selection						
1.	Please select Form Type and Sampling Month & F	requency					
	Monitoring Well Data Report - 2004 Semi-Annual 2						
	All forms for submittal have been completed.						
	•	• .					
2	This is the last selection.						
3	Delete the selected form.						



Groundwater Permit MONITORING WELL DATA REPORT

1. Permit Number
640900523
2. Tax identification Number

2004 SEMI-ANNUAL 2

3. Sampling Month & Frequency

C. Contaminant Analysis Information

- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- TNTC = too numerous to count.
- NS = Not Sampled.
- DRY = Not enough water in well to sample.

1. Parameter/Contaminant Units	3 2. Well #	5 3. Well #	6 4. Well#	5. Well #	6. Well#	7. Well #
PH s.u.	5.6	5.2	5.4			
TOTAL DISSOLVED SOLIDS	74	560	170			
AMMONIA-N MG/L	0.1	0.1	0.1			
NITRATE-N MG/L	1.2	2.5	2.8			
TOTAL NITROGEN(NO3+NO2+TKN) MG/L	1.2	2.5	2.8			
STATIC WATER LEVEL	45.9	64.0	65.2			
SPECIFIC CONDUCTANCE	85	900	250			



Groundwater PermitMONITORING WELL DATA REPORT

389
1. Permit Number
640900523

2. Tax identification Number 2004 SEMI-ANNUAL 2

3. Sampling Month & Frequency

D. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/I.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.
- DRY = Not enough water in well to sample.

1. Parameter/Contaminant Units	3 2. Well #	5 3. Well #	6 4. Well #	5. Well #	6. Well#	7. Well #
ACETONE UG/L	NS	NS	NS			
BENZENE ugr.	1	1	1			
1,1 DICHLOROETHANE	1	1	1			
1,2 DICHLOROETHANE	1	1	1			
1,1 DICHLOROETHYLENE	1	1	1			
CIS-1,2-DICHLOROETHYLENE	NS	NS	NS			
TRANS 1,2 DICHLOROETHYLENE	1	1	1			
ETHYL BENZENE	1	1	1			
METHYLENECHLORIDE UG/L	5	5	5			
TOLUENE	1	1	1			
O-XYLENE	NS	NS	NS			
P/M XYLENE	NS	NS	NS			
CARBON TETRACHLORIDE	1	1	1	·		
CHLOROFORM	2	3	1			
2-BUTANONE (MEK)	NS	NS	NS			



Groundwater PermitMONITORING WELL DATA REPORT

389	
1. Permit Number	
640900523	

2. Tax identification Number

2004 SEMI-ANNUAL 2

3. Sampling Month & Frequency

D. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/l.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.

DRY = Not enough water in well to sample.						
1. Parameter/Contaminant Units	3 2. Well #	5 3. Well #	6 4. Well #	5. Well #	6. Well #	7. Well #
4-METHYL-2-PENTANONE (MIBK)	NS	NS	NS			
TRICHLOROETHYLENE UG/L	1	1	1			
TETRACHLOROETHYLENE UG/L	1	1	1			
1,1,1 TRICHLOROETHANE	1	1	1			
VINYLCHLORIDE	1	1	1			
STYRENE	NS	NS	NS			
CHLOROBENZENE UGAL	1	1	1			
METHYL TERTIARY BUTYL ETHER UGAL	NS	NS	NS			
CHLOROETHANE UG/L	10	10	10			
1,2-DICHLOROPROPANE	1	1	1			
DIBROMOCHLOROMETHANE UGL	1	1	1			
1,1,2-TRICHLOROETHANE	1	1	1			
2-CHLOROETHYLVINYL ETHER UG/L	2	2	2			
BROMODICHLOROMETHANE	1	1	1			
BROMOFORM	1	1	1			



Groundwater PermitMONITORING WELL DATA REPORT

389
1. Permit Number
640900523

2. Tax identification Number

2004 SEMI-ANNUAL 2

3. Sampling Month & Frequency

D. VOC Analysis Information

- If VOCs are present, please indicate the amounts of the individual compounds in µg/I.
- For "0", below detection limit, or not detected, enter "ND".
- For greater than (>) or less than (<) value, enter number only and note greater than (>) or less than (<) in the Comments section.
- NS = Not Sampled.
- DRY ≈ Not enough water in well to sample.

1. Parameter/Contaminant Units	2. Well #	3. Well #	4. Well #	5. Well #	6. Well#	7. Weil #
1,1,2,2-TETRACHLOROETHANE	1	1	1			
CHLOROMETHANE UGAL	10	10	10			
BROMOMETHANE UGAL	10	10	10			
CARBONDISULFIDE UG/L	NS	NS	NS			
2-HEXANONE	NS	NS	NS			
ACROLEIN UG/L	NS	NS	NS	•		
ACRYLONITRILE UGAL	NS	NS	NS			
TRANS-1,3-DICHLOROPROPENE	1	1	1			
CIS-1,3-DICHLOROPROPENE	1	1	1			



389 1. Permit Number 640900523

2. Tax identification Number

Groundwater Permit

Important:
When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return
key.





Any person signing a document under 314 CMR 5.14(1) or (2) shall make the following certification

If you are filing electronic-ally and want to attach additional comments, select the check box.

acility Information	· · · · · · · · · · · · · · · · · · ·	
PILGRIM POWER STATION		
a. Name		
ROCKY HILL ROAD		
b. Street Address		
PLYMOUTH	MA	02360
c. City	d. State	e. Zip Code

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

a. Signature	b. Date (mm/dd/yyyy)

Reporting Package Comments

A) THE JANUARY TOTAL DISSOLVED SOLIDS (TDS) EFFLUENT VALUE OF 1100 MG/L EXCEEDED THE PERMIT LIMIT OF 1000 MG/L. WE BELIEVE THAT THIS WAS THE RESULT OF INFILTRATION INTO THE SYSTEM OF ROAD SALT, WHICH WAS USED EXTENSIVELY IN JANUARY DUE TO ADVERSE WEATHER CONDITIONS. THE ELEVATED VALUE FOR CHLORIDE IS ALSO INDICATIVE THAT INFILTRATION MAY HAVE OCCURRED.

- B) THE EFFLUENT VALUES FOR BOD AND TSS WERE BOTH LESS THAN (<) THE DETECTION LIMIT.
- C) ALL INFLUENT AND EFFLUENT VOC VALUES ARE LESS THAN (<) THE DETECTION LIMIT EXCEPT FOR BENZENE, CHLOROFORM, TOLUENE AND CHLOROBENZENE.
- D) THE FOLLOWING VOCS WERE ALSO ANALYZED, BUT WERE NOT LISTED ON FORM E:
 - 1) TRICHLOROFLUOROMETHANE-INFLUENT & EFFLUENT BOTH <1 UG/L
 - 2) DICHLOROBENZENES-INFLUENT=3 UG/L, EFFLUENT=1 UG/L
 - 3) XYLENES-INFLUENT & EFFLUENT BOTH <1 UG/L
- E) ON THE MONITORING WELL DATA REPORT-CONTAMINANT ANALYSIS INFORMATION FORM, ALL WELL VALUES FOR AMMONIA-N ARE <1 UG/L.
- F) ON THE MONITORING WELL DATA REPORT-VOC ANALYSIS INFORMATION FORM, ALL VALUES LISTED SHOULD BE PRECEDED BY A LESS THAN (<) SIGN EXCEPT FOR CHLOROFORM.
- G) THE FOLLOWING VOCS WERE ALSO ANALYZED BUT WERE NOT LISTED ON THE MONITORING WELL DATA REPORT FORM:
 - 1) TRICHLOROFLUOROMETHANE-<1 UG/L ALL WELLS
 - 2) DICHLOROBENZENES-<1 UG/L ALL WELLS
 - 3) XYLENES-<1 UG/L ALL WELLS

Mass. Gov

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my profile

Signature

my <u>homepage</u> **Ground Water Permit - 4 Form(s)**

current submittal

data

✔CERTIFICATION OF PERSON MAKING SUBMITTAL

online forms

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including

instructions

converter tool

the possibility of fine and imprisonment for knowing violations.

contacts

By entering my name I acknowledge that I have read and agree with the certification

statement.

feedback

survey

NAME Jacob J. Scheffer

Date | 02/23/2005

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Version 3.5.3.1

eDEP: Print Receipt

Submittal Summary & Receipt

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My Homepage" to review your status.

DEP Transaction ID: 29828

Date and Time Submitted: 2/24/2005 8:20:38 AM

User Email: Imedeir@entergy.com

DEP Transaction ID: 29828

Date and Time Submitted: 2/24/2005 8:20:38 AM

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Date and Time Submitted: 2/24/2005 8:20:38 AM

User Email: Imedeir@entergy.com

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

Form Name: Ground Water Permit

Facility Information:

Tax Identification Number: 640900523

location: ROCKY HILL ROAD

Address: PLYMOUTH

ZIP: 02360

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Address: PLYMOUTH

ZIP: 02360

Discharge Monitoring Report(1)

Discharge Monitoring Report - VOC(2)

Discharge Monitoring Report - VOC(3)

Discharge Monitoring Report - VOC(1)

Daily Log Sheet (2005 JAN DAILY)

Monitoring Well Data Report(1)

Monitoring Well Data Report - VOC(1)

Monitoring Well Data Report - VOC(2) Monitoring Well Data Report - VOC(3) Form Name: Certification & Comments

