400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: Enel Stillwater, LLC

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

Stillwater

County:

Churchill

Month of: December-2009

PLANT OUTPUT

Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.
21A-6	128		-	-	
√13-6	211	-	-	89,890,877	301
√13A-6	212	-	-	30,638,028	292
62A-30	495	-	-	50,313,673	305
45-30	503	-	-	20,872,752	289
→ 53A-30	926	-	-	17,298,523	266
67-19	606	-	-	145,346,185	302
√ 12A-6	447	-	-	55,679,590	270
81-1	181	-	-	46,864,258	270
88-1	950	· -	-	17,987,242	282
Total	;	20,814,900	15,027,116	474,891,128	286.27
53-30	501	Not used during	this period		

This report to be filed by the end of the month following the month herein reported.

nereby certify that the information given nerewith is t	rue, correct a	ng complete to the best of my	knowledge. 🖊
	a. /		11
	Signature 4	1 Min W	1/1/
F	Print Name	Dennis Ra	ish
	Position	Plant Mana	ger
	Date _	13-Jan-1	0

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

RECEIVED

JAN 19 2010

Division of Minerals

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: Enel Stillwater, LLC

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

<u>Stillwater</u>

County: Churchill

Month of: November-2009

PLANT OUTPUT

Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.
21A-6	128	-	- 0		0
13-6	211	-	-	94,544,951	300
√ 13A-6	212	-	-	34,719,493	292
62A-30	495	_	-	88,794,145	322
45-30	503	-	-	9,410,156	292
53A-30	926	-	- 0		0
67-19	606	- -	-	135,040,961	302
12A-6	447	-	-	13,301,624	266
81-1	181	-	-	42,234,930	268
88-1	950	-	- 17,855,730		283
Total		19,872,000	12,959,453	435,901,989	232.53
53-30	501	Not used this pe	eriod		

This report to be filed by the end of the month following the month herein reported.

I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.

Print Name Dennis Rash
Position Plant Manager
Date 13-Jan-10

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

RECEIVED

JAN 19 2010

Division of Minerals

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: Enel Stillwater, LLC

Churchill

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

Stillwater

County:

Month of: October-2009

PLANT OUTPUT

Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.
21A-6	128				-
13-6	211	-		92,872,328	299
13A-6	212	-		58,886,661	290
→ 62A-30	495	.	-	89,951,367	322
45-30	503	-	- 11,181,351		293
53A-30	926		- 4,928,619		268
67-19	606	-	-	138,868,692	302
· 12A-6	447	.	-	-	-
· 81-1	181		-	-	-
- 88-1	950	-	-	511,573	277
Total		20,814,900	10,629,846	397,200,590	293.10
53-30	501	Not used during	this period		

This report to be filed by the end of the month following the month herein reported.

I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.

Signature Print Name Position

Dennis Rash Plant Manager

Date

13-Jan-10



JAN 19 2010

Division of Minerals

revise s

State of Nevada DEPARTMENT OF BUSINESS AND INDUSTRY DIVISION OF MINERALS

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: Enel Stillwater, LLC

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

<u>Stillwater</u>

County: Churchill

Month of: September-2009

PLANT OUTPUT

Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.
21A-6	128	-	-		280.0
13-6	211	-	-	94,452,062	303.3
√ 13A-6	212		- .	57,964,867	294.2
→ 62A-30	495	-	,	71,463,301	325.0
→ 45-30	503	-	•	14,219,657	289.4
53A-30	926	~	.	40,977,882	266.6
67-19	606	-	-	130,611,734	302.2
Total		14,087,100	6,822,459	409,689,504	301.1
53-30	501	Not used durin	g this period		

This report to be filed by the end of the month following the month herein reported.

I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.

Signature Dennis Rash
Position Plant Manager
Date 13-Jan-10

Lowell Price

From:

Allen, John (Enel North America) [John.Allen@enel.com]

Sent:

Tuesday, October 13, 2009 7:55 AM

To: Subject: Lowell Price Stillwater II

Hello Lowell,

Greg passed your question regarding "nameplate" rating along to me. I checked with Bill and he said the "nameplate", or gross output, of Stillwater II would be $11.8 \, \text{MW} \times 4$, or $47.2 \, \text{MW}$. That is Stillwater II only. The old plant, Stillwater I, is no longer capable of operation and has been isolated from the grid.

Hope this helps, give me a call if you have any questions regarding this.

John Allen Regulatory Affairs Enel North America 1755 E. Plumb Lane, Suite 155 Reno, NV 89502 775 329-0700 ext. 107 775 329-0717 Fax

The information contained in this communication is confidential and may be legally privileged. It is intended solely for the use of the individual or entity to whom it is addressed and others authorized to receive it. If you are not the intended recipient please notify us immediately and be notified that any disclosure, copying, distribution or taking of any action in reliance on the contents of this information is strictly prohibited and may be unlawful.

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

RECEIVED

OCT 1 3 2009

Division of Minerals

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: Enel Stillwater, LLC

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

<u>Stillwater</u>

County: Churchill Month of: September-2009

PLANT OUTPUT

PLANT OUTFOR							
Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.		
21A-6	128	-	-		280.0		
13-6	211	-	-	94,452,062	303.3		
13A-6	212	-	-	57,964,867	294.2		
62A-30	495	-	-	71,463,301	325.0		
45-30	503	-	-	14,219,657	289.4		
53-30	501	-	-	40,977,882	266.6		
67-19	606	-	- -	130,611,734	302.2		
Total		14,087,100	6,822,459	409,689,504	301.1		
		3					

This report to be filed by the end of the month following the month herein reported.

I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.

Signature

Print Name

Dennis Rash

Position

Plant Manager

Date

09-Oct-09

OCT 1 3 2009

Division of Minerals

Stillwater Geothermal Power Plant

4785 Lawrence Lane Stillwater, NV 89406

PHONE:

775-423-0322 - 14/4/

FAX:

775-423-0692

October 8, 2009

Ms. Linda Wells
Program Assistant IV
State of Nevada
Commission on Mineral Resources
Division of Minerals
400 West King Street
Suite No. 106
Carson City, NV 89710

Re: Stillwater Geothermal Power Plant September 2009 – Monthly Report

UKR

Dear Ms. Wells:

Attached please find the monthly report of Geothermal Subsurface Injections and Geothermal Electric Producers Reports for the above referenced facility.

If you have any questions or comments, please do not hesitate to call me at (775) 423-0322

Sincerely,

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

RECEIVED

OCT 1 3 2009

Division of Minerals

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: Enel Stillwater, LLC

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

Stillwater

County:

Churchill

Month of: August-2009

PLANT OUTPUT

FLANT COTFOT							
Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.		
21A-6	128	-	-	25,638,928	280.0		
13-6	211	. -	-	69,365,501	300.6		
13A-6	212	· •	-	59,397,662	294.6		
62A-30	495	-	-	80,817,167	317.4		
45-30	503	-	-	14,199,481	289.3		
53-30	501	-	-	7,279,111	291.7		
67-19	606	<u>-</u>	-	125,697,034	301.6		
Total		12,151,400	6,024,996	382,394,883	301.5		
					, , , , , , , , , , , , , , , , , , ,		
					•		

This report to be filed by the end of the month following the month herein reported.

I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.

Signature Dennis Rash Print Name Plant Manager Position 09-Oct-09 Date

OCT 1 3 2009

Division of Minerals

Stillwater Geothermal Power Plant

4785 Lawrence Lane Stillwater, NV 89406

PHONE:

775-423-0322

FAX:

775-423-0692

October 8, 2009

Ms. Linda Wells
Program Assistant IV
State of Nevada
Commission on Mineral Resources
Division of Minerals
400 West King Street
Suite No. 106
Carson City, NV 89710

Re: Stillwater Geothermal Power Plant August 2009 – Monthly Report

WRL

Dear Ms. Wells:

Attached please find the monthly report of Geothermal Subsurface Injections and Geothermal Electric Producers Reports for the above referenced facility.

If you have any questions or comments, please do not hesitate to call me at (775) 423-0322

Sincerely,

Dennis W. Rash

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

RECEIVED

OCT 1 3 2009

Division of Minerals

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: Enel Stillwater, LLC

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

Stillwater

Churchill

County:

Month of: July-2009

PLANT OUTPUT

Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.
21A-6			-	24,663,444	280.0
13-6	211	-		7,094,782	301.5
13A-6	212	-	-	85,703,739	292.8
62A-30	495	-	-	96,760,566	318.8
45-30	503	-	-	0	291.9
53-30	501	-	-	0	300.1
67-19	606	-	-	145,842,594	301.5
Total	;	11,857,900	5,538,691	360,065,125	302.5
		MATERIA SE A A A A A A A A A A A A A A A A A A			

This report to be filed by the end of the month following the month herein reported.

l hereby certify that the information given herewith is true, correct an <u>d</u> complete to the best of my knowled	l herek	by certif	y that the	information	given h	erewith is true.	correct and co.	mplete to	the best	of m	/ knowle	dae
--	---------	-----------	------------	-------------	---------	------------------	-----------------	-----------	----------	------	----------	-----

Print Name

Dennis Rash

Position

Plant Manager 09-Oct-09

Date

OCT 1 3 2009

Division of Minerals

Stillwater Geothermal Power Plant

4785 Lawrence Lane Stillwater, NV 89406

PHONE:

775-423-0322

FAX:

775-423-0692

October 8, 2009

Ms. Linda Wells Program Assistant IV State of Nevada Commission on Mineral Resources Division of Minerals 400 West King Street Suite No. 106 Carson City, NV 89710

Re: Stillwater Geothermal Power Plant

July 2009 – Monthly Report

VKA

Dear Ms. Wells:

Attached please find the monthly report of Geothermal Subsurface Injections and Geothermal Electric Producers Reports for the above referenced facility.

If you have any questions or comments, please do not hesitate to call me at (775) 423-0322

Sincerely,

JUL 1 3 2009

Division of Minerals

State of Nevada **DEPARTMENT OF BUSINESS AND INDUSTRY DIVISION OF MINERALS**

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: Enel Stillwater, LLC

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

Stillwater

County:

Churchill

Month of: June-2009

PLANT OUTPUT

Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.
21A-6	128	-	-	0	0.0
13-6	211	-	-	100,783,489	305.9
13A-6	212	-	-	7,219,721	287.5
62A-30	495	-	-	85,178,718	318.8
45-30	503	-	-	493,304	311.4
53-30	501	-		1,525,175	284.9
67-19	606	-	•	118,717,915	302.4
Total		4,361,294	4,361,294	313,918,322	307.5
	:				

This report to be filed by the end of the month following the month herein reported.

I hereby certify that the	information given	herewith is true,	correct and com	plete to the bea	st of mv knowle d ae
---------------------------	-------------------	-------------------	-----------------	------------------	-----------------------------

Signature Print Name Dennis Rash Plant Manager Position 09-Jul-09 Date

JUL 1 3 2009

Division of Minerals

Stillwater Geothermal Power Plant

4785 Lawrence Lane Stillwater, NV 89406

PHONE:

775-423-0322

FAX:

775-423-0692

July 9, 2009

Ms. Linda Wells
Program Assistant IV
State of Nevada
Commission on Mineral Resources
Division of Minerals
400 West King Street
Suite No. 106
Carson City, NV 89710

Re: Stillwater Geothermal Power Plant

June 2009 - Monthly Report

Dear Ms. Wells:

Attached please find the monthly report of Geothermal Subsurface Injections and Geothermal Electric Producers Reports for the above referenced facility.

If you have any questions or comments, please do not hesitate to call me at (775) 423-0322

Sincerely,

Dennis W. Rash Plant Manager

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

RECEIVED

JUL 1 3 2009

Division of Minerals

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: Enel Stillwater, LLC

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

Stillwater

County:

Churchill

Month of: May-2009

PLANT OUTPUT

	PLANT OUTFUT							
Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.			
21A-6	128	-	-	14,125,539	284.1			
13-6	211	-	-	99,455,673	307.9			
13A-6	212	-	-	45,106,435	294.4			
62A-30	495	-	-	35,112,891	317.9			
45-30	503	-	<u>-</u>	3,806,332	295.1			
53-30	501	-	-	16,620,456	290.2			
67-19	606	-	-	141,847,181	1			
Total		4,405,024	4,405,024	356,074,505	303.0			

This report to be filed by the end of the month following the month herein reported.

I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.

Signature -Print Name Dennis Rash Position Plant Manager Date 09-Jul-09

JUL 1 3 2009

Division of Minerals

Stillwater Geothermal Power Plant

4785 Lawrence Lane Stillwater, NV 89406

PHONE:

775-423-0322

FAX:

775-423-0692

July 9, 2009

Ms. Linda Wells
Program Assistant IV
State of Nevada
Commission on Mineral Resources
Division of Minerals
400 West King Street
Suite No. 106
Carson City, NV 89710

Re: Stillwater Geothermal Power Plant

May 2009 - Monthly Report

Dear Ms. Wells:

Attached please find the monthly report of Geothermal Subsurface Injections and Geothermal Electric Producers Reports for the above referenced facility.

If you have any questions or comments, please do not hesitate to call me at (775) 423-0322

Sincerely,

Dennis W. Rash

JUL 1 3 2009

Division of Minerals

State of Nevada **DEPARTMENT OF BUSINESS AND INDUSTRY DIVISION OF MINERALS**

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: Enel Stillwater, LLC

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

Stillwater

County:

Churchill

Month of: April-2009

PLANT OUTPUT

LART COTT OF					
Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.
21A-6	128	-	-	247,884	226.2
13-6	211	-		81,527,387	305.9
13A-6	212	-	-	82,169,689	291.4
62A-30	495	-	-	37,779,637	291.5
45-30	503	-	-	9,029,286	289.6
53-30	501	-	-	29,145,598	292.3
67-19	606	-	. .	144,234,553	
Total		-6,985,973	-6,985,973	384,134,034	298.6

This report to be filed by the end of the month following the month herein reported.

I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.

Signature 4 Print Name

Dennis Rash

Position

Plant Manager

Date

09-Jul-09

JUL 1 3 2009

Division of Minerals

Stillwater Geothermal Power Plant

4785 Lawrence Lane Stillwater, NV 89406

PHONE:

775-423-0322

FAX:

775-423-0692

July 9, 2009

Ms. Linda Wells
Program Assistant IV
State of Nevada
Commission on Mineral Resources
Division of Minerals
400 West King Street
Suite No. 106
Carson City, NV 89710

Re: Stillwater Geothermal Power Plant

April 2009 - Monthly Report

Dear Ms. Wells:

Attached please find the monthly report of Geothermal Subsurface Injections and Geothermal Electric Producers Reports for the above referenced facility.

If you have any questions or comments, please do not hesitate to call me at (775) 423-0322

Sincerely,

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

RECEIVED

JUL 1 8 2009

Division of Minerals

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: Enel Stillwater, LLC

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

0

Stillwater

Churchill

County:

Month of: March-2009

PLANT OUTPUT

Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.
21A-6		_	_	11,045,844	277.0
13-6	211	-	_	60,295,139	306.7
13A-6	212	-	-	44,583,591	283.7
62A-30	495	-	_	27,701,126	328.8
45-30	503	-	-	6,640,801	287.2
53-30	501	-	-	33,534,436	302.8
67-19	606	-	-		
Total	ŕ	4,907,310	4,907,310	183,800,937	301.8

This report to be filed by the end of the month following the month herein reported.

I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.

Signature Print Name Dennis Rash

Plant Manager Position

Date 09-Jul-09

JUL 1 3 2009

Division of Minerals

Stillwater Geothermal Power Plant

4785 Lawrence Lane Stillwater, NV 89406

PHONE:

775-423-0322

FAX:

775-423-0692

July 9, 2009

Ms. Linda Wells
Program Assistant IV
State of Nevada
Commission on Mineral Resources
Division of Minerals
400 West King Street
Suite No. 106
Carson City, NV 89710

Re: Stillwater Geothermal Power Plant

March 2009 - Monthly Report

Dear Ms. Wells:

Attached please find the monthly report of Geothermal Subsurface Injections and Geothermal Electric Producers Reports for the above referenced facility.

If you have any questions or comments, please do not hesitate to call me at (775) 423-0322

Sincerely,

Dennis W. Rash

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

RECEIVED

JUL 1 3 2009

Division of Minerals

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: Enel Stillwater, LLC

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

Stillwater

County:

Churchill

Month of: February-2009

PLANT OUTPUT

PLANT OUTPUT					
Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.
21A-6	128	-	. -	18,620,582	277.1
13-6	211	-	-	2,888,064	306.0
13A-6	212		-	3,512,275	297.8
62A-30	495	-	-	3,608,842	332.0
45-30	503	-	-	1,025,920	285.1
53-30	501	-	- ,	1,575,741	310.5
67-19	606	- .	-		
Total				31,231,424	290.2
		- 5			
		r			

This report to be filed by the end of the month following the month herein reported.

I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.

Signature Print Name Dennis Rash Position Plant Manager 09-Jul-09 Date

JUL 1 3 2009

Division of Minerals

Stillwater Geothermal Power Plant

4785 Lawrence Lane Stillwater, NV 89406

PHONE:

775-423-0322

FAX:

775-423-0692

July 9, 2009

Ms. Linda Wells
Program Assistant IV
State of Nevada
Commission on Mineral Resources
Division of Minerals
400 West King Street
Suite No. 106
Carson City, NV 89710

Re: Stillwater Geothermal Power Plant February 2009 – Monthly Report

Dear Ms. Wells:

Attached please find the monthly report of Geothermal Subsurface Injections and Geothermal Electric Producers Reports for the above referenced facility.

If you have any questions or comments, please do not hesitate to call me at (775) 423-0322

Sincerely,

Dennis W. Rash

JUL 1 3 2009

Linda,

Division of Minerals

Here are the reports I am delinquent in. It has taken us a while to get the computer recording equipment right and records that are of use. We have worked out all the bugs and our information is pretty accurate and will allow me to get these reports completed in a timely manner. I apologize for my delinquency and promise not to allow it to happen again.

Sincerely,

Dennis W. Rash

Plant Manager ENEL Stillwater LLC



MAR 1 8 2009

Division of Minerals

State of Nevada DEPARTMENT OF BUSINESS AND INDUSTRY DIVISION OF MINERALS

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050

INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company: ENEL Stillwater LLC

Address: 4785 Lawrence Lane, Stillwater NV 89406

Plant

Stillwater

County:

Churchill

Month of: January-2009

PLANT OUTPUT

Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp.
12A-6	447	-	-	26,076,920	269.4
12-6	219	-	-	0.	0.0
45-30	128	-	-	0	0.0
13-6	211	-	-	0	
13A-6	212	-	~	0	0.0
62A-30	495	-	.	O	
81-1	181	-	-	15,964,259	270.3
Total		817,418	0	42,041,180	269.8

This report to be filed by the end of the month following the month herein reported.

I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.

Signature		
Print Name	Dennis Rash	
Position	Plant Manager	
Date	2/11/2008	

MAR 1 8 2009

Division of Minerals

Stillwater Geothermal Power Plant

4785 Lawrence Lane Stillwater, NV 89406

PHONE:

775-423-0322

FAX:

775-423-0692

March 16, 2009

Ms. Linda Wells
Program Assistant IV
State of Nevada
Commission on Mineral Resources
Division of Minerals
400 West King Street
Suite No. 106
Carson City, NV 89710

Re: Stillwater Geothermal Power Plant January 2009 – Monthly Report

Dear Ms. Wells:

Attached please find the monthly report of Geothermal Subsurface Injections and Geothermal Electric Producers Reports for the above referenced facility.

If you have any questions or comments, please do not hesitate to call me at (775) 423-0322

Sincerely,

Jennis W. Rash