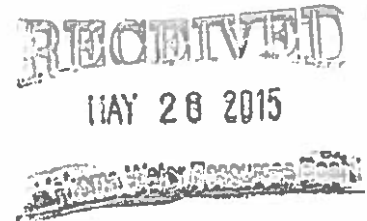




Robin Simmons
Land Manager

May 26, 2015



Oklahoma Water Resources Board
3800 N. Classen Boulevard
Oklahoma City, OK 73118
Attn: Mr Kent Wilkins

Re: Martin Marietta/TXI Mill Creek Limestone Quarry Monitoring Report Q1 2015

Dear Mr. Wilkins:

Attached please find the Q1 2015 Quarterly Monitoring Report for Martin Marietta/TXI's Mill Creek Limestone quarry. The report is summarized on the table labeled Appendix C. Supporting data is also included.

Please call if you have any questions or comments.

Sincerely,

A handwritten signature in cursive script that reads 'Robin L. Simmons'.

Robin L. Simmons, EIT
Land Manager

North Texas/Oklahoma District
1503 LBJ Parkway Suite 400, Dallas, Texas 75234
t. (972) 350-8228 m. (214) 213-6024 e. Robin.Simmons@martinmarietta.com
www.martinmarietta.com

ATTACHMENT 1 (Appendix C)
Martin Marietta (TXI) Mill Creek 2015

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Water Resources Dept.

Appendix C . Consumptive use of Pitwater

Q1 2015

PIT GROUNDWATER VOLUME		
1	Total volume pumped from producing mine pit(s) (AC-FT)	351.03
2	Volume of precipitation that falls onto the surface of producing Mine Pits (AC-FT)	70.49
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water (AC-FT)	32.40
4	other non pit waters pumped from the producing mining pit (AC-FT)	
5	add lines 2 through 4	102.89
6	Pit Groundwater Volume (AC-FT) (line 1 minus Line 5)	248.14
DEFINED ELEMENTS OF CONSUMPTIVE USE		
7	Vol. of pit groundwater that is driven off (by drying) the mined material transp. off of the mine site (AC-FT)	0.00
8	Vol. of pit groundwater that is carried away with the the mined material transp. off of the mine site (AC-FT)	2.43
9	Vol. of pit groundwater that evaporates from producing mine pits, process ponds and lined ponds (excluding structures used for augmentation) (AC-FT)	0.92
10	Volume of pit groundwater that is used for other beneficial uses off of the mine site (AC-FT) (includes on-site dust control)	6.25
11	DEFINED ELEMENTS OF CONSUMPTIVE USE of Pit groundwater (AC-FT) (add lines 7 through 10)	9.59
PIT GROUNDWATER BALANCE		
12	Lines 6 minus 11	238.55
13	Groundwater Augmentation Volume of pit groundwater returned to GW Basin or subbasin. (Troy Recharge AC-FT)	22.42
14	Stream Augmentation volume of pit water discharged to a definite Stream, during flow conditions that are less than or equal to the accepted exceedance level (AC-FT)	0.00
15	PPT and Runoff Volume of Precipitation and surface runoff into a recharge pit or holding pond (AC-FT)	85.59
16	Recycled Pit Groundwater - Volume of ground water returned to the mine pit or holding basin (AC-FT)	198.57
17	Other Non-Consumptive GW Losses Including pit GW returned to the land surface from which surface runoff flows into a mine pit and other losses (AC-FT)	8.27
18	add lines 13 through 17	314.86
19	OTHER CONSUMPTIVE USE Line 12 minus Line 18	-76.31
TOTAL REPORTED CONSUMPTIVE USE (AC-FT)		
	TOTAL NET CONSUMPTIVE USE (AC-FT) Line 11 plus line 19	-66.71

RESULTS FROM RUNOFF MODELLING

2015	pPT. Inches	Quarry Monthly Totals						FW Pond Monthly Totals			Re-cycle Recharge (Trov) Monthly Totals			TXI-Mill Creek Totals				
		Sump Direct ppt		In-Quarry Runoff		Runoff from beyond Quarry		Quarry Totals		Totals			Monthly Totals			Totals		
		ac-ft	ppt	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	Direct ppt	Runoff	ac-ft	Direct ppt	Runoff	ac-ft	Direct ppt	Runoff	ac-ft
January	5.70	0.16	56.96	31.33	88.45	10.36	35.05	19.32	51.77	29.84	175.12	0.00	0.00	0.00	0.00	0.00	0.00	
February	1.16	0.03	5.63	0.49	6.15	2.11	0.03	3.93	0.48	6.07	6.63	0.00	0.00	0.00	0.00	0.00	0.00	
March	2.78	0.08	7.62	0.58	8.28	5.05	0.09	9.42	0.67	14.56	8.96	0.00	0.00	0.00	0.00	0.00	0.00	
Q1 Subtotal	9.64	0.27	70.21	32.40	102.88	17.53	35.16	32.67	52.93	50.47	190.70	0.00	0.00	0.00	0.00	0.00	0.00	
April	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
May	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
June	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Q2 Subtotal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
July	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
August	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
September	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Q3 Subtotal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
October	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
November	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
December	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Q4 Subtotal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
ANNUAL TOTALS	9.64	0.27	70.21	32.40	102.88	17.53	35.16	32.67	52.93	50.47	190.70	0.00	0.00	0.00	0.00	0.00	0.00	

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Water Volume Movements

	January	February	March
Pumped from Pit	104.9	110.2	135.9
Groundwater Component of Pitwater	16.5	104.0	127.7
Quarry dust suppression	1.1	4.4	1.4
Q- freshwater pond	103.9	105.7	134.5
To Secondary FM7	265.4	236.6	332.6
To sand Plant FM8	72.4	60.8	81.6
to loadout FM6	401.7	305.3	382.9
to dust control FM9	4.9	1.6	1.1
to Plant FM7+FM8+FM6	739.5	602.6	797.2
to stream Augmentation	0.00	0.00	0.00
To Troy FM3	721.4	562.7	788.9
From Troy to Freshwater Pond FM4	635.8	481.7	773.2

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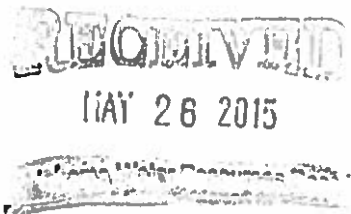
Quarter Summary	1st QTR
Total Tons Shipped	1,130,000
Total Acre Feet	24.93
Average Moisture %	3.00%

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 # The data you have obtained from this automated U.S. Geological Survey database
 # have not received Director's approval and as such are provisional and subject to
 # revision. The data are released on the condition that neither the USGS nor the
 # United States Government may be held liable for any damages resulting from its use.
 # Additional info: <http://help.waterdata.usgs.gov/policies/provisional-data-statement>
 #
 # File-format description: <http://help.waterdata.usgs.gov/faq/about-tab-delimited-output>
 # Automated-retrieval info: <http://help.waterdata.usgs.gov/faq/automated-retrievals>
 #
 # Contact: gs-w_support_nwisweb@usgs.gov
 # retrieved: 2015-05-14 16:58:32 EDT (nadww01)
 #

Data for the following 1 site(s) are contained in this file
 # USGS 07331200 Mill Creek near Mill Creek, OK
 # -----

Data provided for site 07331200
 # DD parameter statistic Description
 # 02 00060 00003 Discharge, cubic feet per second (Mean)
 #
 # Data-value qualification codes included in this output:
 # A Approved for publication -- Processing and review completed.
 # e Value has been estimated.
 #



agency_cd	site_no	datetime	02_00060_00003	02_00060_00003_cd
5s	15s	20d	14n	10s
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USGS	07331200	2015-01-02	1.9	A
USGS	07331200	2015-01-03	9.6	A
USGS	07331200	2015-01-04	2.4	A
USGS	07331200	2015-01-05	1.8	A
USGS	07331200	2015-01-06	1.8	A
USGS	07331200	2015-01-07	1.5	A
USGS	07331200	2015-01-08	1.6	A
USGS	07331200	2015-01-09	1.7	A
USGS	07331200	2015-01-10	1.6	A
USGS	07331200	2015-01-11	1.6	A
USGS	07331200	2015-01-12	1.5	A:e
USGS	07331200	2015-01-13	1.3	A:e
USGS	07331200	2015-01-14	1.3	A
USGS	07331200	2015-01-15	1.2	A
USGS	07331200	2015-01-16	1.2	A
USGS	07331200	2015-01-17	1.2	A
USGS	07331200	2015-01-18	1.2	A
USGS	07331200	2015-01-19	1.2	A
USGS	07331200	2015-01-20	1.1	A
USGS	07331200	2015-01-21	1.1	A
USGS	07331200	2015-01-22	1.5	A
USGS	07331200	2015-01-23	1.2	A
USGS	07331200	2015-01-24	1.1	A
USGS	07331200	2015-01-25	1.2	A
USGS	07331200	2015-01-26	1.2	A
USGS	07331200	2015-01-27	1.3	A
USGS	07331200	2015-01-28	1.1	A
USGS	07331200	2015-01-29	1.1	A
USGS	07331200	2015-01-30	1.3	A
USGS	07331200	2015-01-31	1.4	A

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 #
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 # Automated-retrieval info: <http://help.waterdata.usgs.gov/faq/automated-retrievals>
 #

Contact: gs-w_support_nwisweb@usgs.gov
 # retrieved: 2015-05-14 16:59:27 EDT (nadww01)
 #

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Data for the following 1 site(s) are contained in this file
 # USGS 07331200 Mill Creek near Mill Creek, OK
 # -----

Data provided for site 07331200
 # DD parameter statistic Description
 # 02 00060 00003 Discharge, cubic feet per second (Mean)
 #

Data-value qualification codes included in this output:
 # A Approved for publication -- Processing and review completed.
 # P Provisional data subject to revision.
 #

agency_cd	site_no	datetime	02_00060_00003	02_00060_00003_cd
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USGS	07331200	2015-02-03	1.6	A
USGS	07331200	2015-02-04	1.7	A
USGS	07331200	2015-02-05	1.6	P
USGS	07331200	2015-02-06	1.7	P
USGS	07331200	2015-02-07	1.6	P
USGS	07331200	2015-02-08	1.6	P
USGS	07331200	2015-02-09	1.6	P
USGS	07331200	2015-02-10	1.5	P
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USGS	07331200	2015-02-12	1.4	P
USGS	07331200	2015-02-13	1.4	P
USGS	07331200	2015-02-14	1.5	P
USGS	07331200	2015-02-15	1.6	P
USGS	07331200	2015-02-16	1.9	P
USGS	07331200	2015-02-17	1.6	P
USGS	07331200	2015-02-18	1.5	P
USGS	07331200	2015-02-19	1.5	P
USGS	07331200	2015-02-20	1.5	P
USGS	07331200	2015-02-21	1.5	P
USGS	07331200	2015-02-22	1.5	P
USGS	07331200	2015-02-23	1.5	P
USGS	07331200	2015-02-24	1.5	P
USGS	07331200	2015-02-25	1.5	P
USGS	07331200	2015-02-26	1.5	P
USGS	07331200	2015-02-27	1.5	P
USGS	07331200	2015-02-28	1.6	P

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 # Automated-retrieval info: <http://help.waterdata.usgs.gov/faq/automated-retrievals>
 #

Contact: gs-w_support_nwisweb@usgs.gov
 # retrieved: 2015-05-14 16:59:54 EDT (nadww01)
 #

Data for the following 1 site(s) are contained in this file
 # USGS 07331200 Mill Creek near Mill Creek, OK
 # -----

07331200
 MAY 26 2015

Data provided for site 07331200
 # DD parameter statistic Description
 # 02 00060 00003 Discharge, cubic feet per second (Mean)
 #



Data-value qualification codes included in this output:
 # P Provisional data subject to revision.
 #

agency_cd	site_no	datetime	02_00060_00003	02_00060_00003_cd
5s	15s	20d	14n	10s
USGS	07331200	2015-03-01	1.7	P
USGS	07331200	2015-03-02	2.0	P
USGS	07331200	2015-03-03	2.6	P
USGS	07331200	2015-03-04	10	P
USGS	07331200	2015-03-05	10	P
USGS	07331200	2015-03-06	8.4	P
USGS	07331200	2015-03-07	4.1	P
USGS	07331200	2015-03-08	3.6	P
USGS	07331200	2015-03-09	4.4	P
USGS	07331200	2015-03-10	10	P
USGS	07331200	2015-03-11	6.1	P
USGS	07331200	2015-03-12	4.5	P
USGS	07331200	2015-03-13	14	P
USGS	07331200	2015-03-14	18	P
USGS	07331200	2015-03-15	6.8	P
USGS	07331200	2015-03-16	5.6	P
USGS	07331200	2015-03-17	5.1	P
USGS	07331200	2015-03-18	6.0	P
USGS	07331200	2015-03-19	7.1	P
USGS	07331200	2015-03-20	8.1	P
USGS	07331200	2015-03-21	6.1	P
USGS	07331200	2015-03-22	7.3	P
USGS	07331200	2015-03-23	6.2	P
USGS	07331200	2015-03-24	5.5	P
USGS	07331200	2015-03-25	5.3	P
USGS	07331200	2015-03-26	14	P
USGS	07331200	2015-03-27	8.1	P
USGS	07331200	2015-03-28	7.6	P
USGS	07331200	2015-03-29	7.5	P
USGS	07331200	2015-03-30	6.1	P
USGS	07331200	2015-03-31	7.5	P

Daily Rainfall Total	Total Daily Evaporation
1/1/2015	0.75 0.21
1/2/2015	0 0.007
1/3/2015	0 0.008
1/4/2015	0 0.009
1/5/2015	0 0.004
1/6/2015	0 0.007
1/7/2015	0 0.007
1/8/2015	0 0.005
1/9/2015	0 0.004
1/10/2015	0.56 0.465
1/11/2015	3.52 0.007
1/12/2015	0 0.004
1/13/2015	0 0.009
1/14/2015	0 0.007
1/15/2015	0 0.009
1/16/2015	0 0.006
1/17/2015	0 0.005
1/18/2015	0 0.002
1/19/2015	0 0.099
1/20/2015	0.01 0.001
1/21/2015	0.09 0.011
1/22/2015	0 0.01
1/23/2015	0 0.004
1/24/2015	0 0.01
1/25/2015	0 0.003
1/26/2015	0 0.007
1/27/2015	0 0.007
1/28/2015	0 0.005
1/29/2015	0.25 0.173
1/30/2015	0.4 0.081
1/31/2015	0.12 0.016
2/1/2015	0.27 0.131
2/2/2015	0 0.042
2/3/2015	0 0.004
2/4/2015	0 0.009
2/5/2015	0 0.16
2/6/2015	0 0.215
2/7/2015	0 0.221
2/8/2015	0 0.276
2/9/2015	0 0.016
2/10/2015	0 0.02
2/11/2015	0 0.014
2/12/2015	0 0.014
2/13/2015	0 0.005
2/14/2015	0 0.006

11/26/2015
 11/26 2015

2/15/2015	0.69	0.098
2/16/2015	0	0.134
2/17/2015	0.01	0.052
2/18/2015	0	0.02
2/19/2015	0	0.006
2/20/2015	0	0.027
2/21/2015	0	0.048
2/22/2015	0.07	0.037
2/23/2015	0	0.018
2/24/2015	0.11	0.116
2/25/2015	0.01	0.013
2/26/2015	0	0.002
2/27/2015	0	0.011
2/28/2015	0	0.383
3/1/2015	0	0.008
3/2/2015	0	0.007
3/3/2015	0	0.008
3/4/2015	0	0.005
3/5/2015	0	0.004
3/6/2015	0	0.004
3/7/2015	0.17	0.008
3/8/2015	0	0.007
3/9/2015	0	0.008
3/10/2015	0.24	0.154
3/11/2015	0.01	0.004
3/12/2015	0.18	0.124
3/13/2015	0.06	0.05
3/14/2015	0.26	0.021
3/15/2015	0	0.009
3/16/2015	0	0.005
3/17/2015	0	0.007
3/18/2015	0.01	0.006
3/19/2015	0.51	0.24
3/20/2015	0	0.004
3/21/2015	0	0.005
3/22/2015	0.02	0.002
3/23/2015	0.38	0.09
3/24/2015	0	0.004
3/25/2015	0	0.005
3/26/2015	0	0.008
3/27/2015	0.18	0.006
3/28/2015	0.37	0.264
3/29/2015	0.06	0.004
3/30/2015	0	0.007
3/31/2015	0.33	0.466


 MAY 26 2015




MAY 26 2015

MESONET CLIMATOLOGICAL DATA SUMMARY
 (TISH) Tishomingo
 Latitude: 34-19-57
 Longitude: 96-40-44
 Nearest City: 6.0 N Tishomingo
 County: Johnson
 Elevation: 879 feet
 January 2015
 Time Period: Midnight-Midnight CST

DAY	TEMPERATURE (F)		DEG DAYS HDD CDD	HUMIDITY (%)		RAIN (in)	PRESSURE (in)		WIND SPEED (mph)		SOLAR (MJ/m2)		4" SOIL TEMPERATURES						
	MAX	MIN		AVG	DEWPT		MIN	MAX	STN	MSL	DIR	AVG	MAX	SOD	BARE	MIN	MAX		
1	34	28	30.8	27.2	99	62	87	0.21	29.33	30.28	NNE*	NA	9.3*	1.49	38.0	35.9	37	35	
2	38	33	36.1	35.5	99	96	98	0.66	29.18	30.12	NNE*	NA	14.0*	1.22	39.5	38.4	40	37	
3	44	31	38.4	36.2	99	75	92	0.21	28.97	29.90	SSW	5.7	18.2	5.70	41.8	41.9	45	40	
4	37	19	27.5	18.2	98	47	69	0.00	29.52	30.47	NNW	11.2	38.1	13.07	37.8	39.3	42	37	
5	42	18	29.0	17.4	82	39	63	0.00	29.55	30.51	S	7.9	22.7	12.96	35.7	36.5	40	35	
6	51	26	36.7	25.6	87	41	66	0.00	29.42	30.37	NNE	7.7	20.3	12.40	36.9	38.2	45	35	
7	32	14	25.8	9.4	67	31	50	0.00	29.76	30.72	NNE	16.5	42.5	11.81	35.9	35.4	37	34	
8	37	11	21.9	7.4	81	30	55	0.00	29.50	30.45	S	8.2	27.9	12.75	34.4	33.2	34	33	
9	36	18	26.8	11.1	87	28	54	0.00	29.55	30.50	N	9.8	27.4	12.22	34.0	32.9	33	33	
10	39	19	30.0	13.8	93	37	52	0.00	29.45	30.40	SSE*	8.4*	21.8*	6.50	33.8	32.8	33	33	
11	36	31	33.4	33.1	100	93	99	0.12	29.22	30.17	SE *	NA	15.9*	2.03	34.0	33.2	34	33	
12	38	31	34.8	30.9	100	63	86	0.00	29.41	30.36	N	11.8	27.9	2.09	36.1	35.8	37	34	
13	37	26	30.4	21.6	84	60	70	0.00	29.49	30.44	NNE	7.5	21.3	5.58	36.0	34.8	37	34	
14	38	26	32.5	19.9	71	47	60	0.00	29.38	30.33	N	3.6	8.8	4.15	36.0	34.5	36	34	
15	56	29	39.9	24.4	86	31	56	0.00	29.31	30.26	WNW	4.6	17.6	13.15	38.7	38.9	47	34	
16	61	25	42.3	28.5	90	26	62	0.00	29.24	30.19	S	7.1	18.7	13.05	39.3	39.7	47	35	
17	64	38	49.1	32.4	87	28	57	0.00	29.08	30.02	S	9.7	31.9	13.06	41.3	42.1	49	37	
18	69	27	49.6	25.3	85	14	43	0.00	29.22	30.16	SSW	9.6	28.7	14.22	41.8	42.0	49	36	
19	66	30	47.3	30.2	89	25	55	0.00	29.03	29.98	S	3.5	10.5	12.70	43.3	44.0	53	37	
20	64	33	48.5	31.9	91	27	57	0.00	29.07	30.01	NNE	10.8	27.6	13.04	43.8	44.4	51	40	
21	59	36	45.9	34.7	96	38	68	0.12	29.25	30.19	NNE	8.3	23.3	9.79	43.8	43.8	49	39	
22	42	34	38.5	36.4	97	86	92	0.52	29.37	30.32	NE	11.1	24.4	1.65	42.5	42.0	44	41	
23	49	31	39.6	30.0	89	38	70	0.00	29.25	30.19	N	7.6	22.5	11.50	42.0	41.8	47	39	
24	60	29	43.8	31.4	90	33	65	0.00	29.10	30.05	WSW	7.0	16.4	14.44	41.4	41.7	50	36	
25	59*	36*	49.0*	30.5*	77*	27*	52*	0.00*	29.05*	29.99*	NW *	12.5*	42.1*	14.41*	43.3*	43.7*	49*	40*	
26	71	27	49.0	32.7	92	26	58	0.00	29.16	30.11	NW	6.4	19.0	14.52	43.4	43.7	52	37	
27	76	40	57.3	36.4	79	23	49	0.00	29.16	30.10	SSW	5.2	13.5	14.75	47.1	48.5	57	42	
28	78	37	58.5	40.0	91	25	55	0.00	29.07	30.01	S	7.9	24.6	13.37	48.6	49.6	56	43	
29	60	43	52.3	34.3	71	38	51	0.00	29.33	30.28	N	12.4	29.4	12.80	48.8	48.9	53	45	
30	53	35	44.5	28.5	76	33	55	0.00	29.47	30.42	NNE	6.3	16.6	12.08	46.5	45.6	52	40	
31	49	41	44.8	34.6	98	51	69	0.86	29.16	30.10	SE	7.5	21.7	3.52	46.1	44.9	46	43	
	51*	29*	39.8*	27.4*	Monthly Averages ->				29.29*	30.24*		NNE*	8.4*	42.5*	9.87*	40.4*	40.3*	45*	37*

Temperature - Highest: 78*	Lowest: 11*	Degree Days - Total HDD: 776*	Total CDD: 0*	Number of Days With: Tmax ≥ 90: 0* Tmax ≤ 32: 1* Tmin ≤ 32: 20* Tmin ≤ 0: 0*	Rainfall ≥ 0.01 inch: 7* Rainfall ≥ 0.10 inch: 7* Avg Wind Speed ≥ 10 mph: 7* Max Wind Speed ≥ 30 mph: 4*
Rainfall: Monthly Total: 2.70* in. Greatest 24 Hr: 0.86* in.	Humidity - Highest: 100* Lowest: 14*				

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 Monthly data generated on Tuesday, February 17, 2015 at 11:07 UTC
 * Denotes incomplete record

MESONET CLIMATOLOGICAL DATA SUMMARY
 (TISH) Tishomingo
 Latitude: 34-19-57

February 2015
 Nearest City: 6.0 N Tishomingo
 Longitude: 96-40-44

Time Zone: Midnight-Midnight CST
 County: Johnston
 Elevation: 879 feet

DAY	TEMPERATURE (F)		DEG DAYS HDD CDD	HUMIDITY (%)		RAIN (in)	PRESSURE (in)		WIND SPEED DIR AVG MAX	SOLAR (MJ/m ²)	4" SOIL TEMPERATURES				
	MAX	MIN		MIN	MAX		STN	MSL			SOD	BARE	MAX	MIN	
1	50	25	41.1	33.7	27	0	29.07	30.01	NNW	12.6	31.6	45.8	45.9	50	40
2	39	16	27.6	16.3	37	0	29.38	30.33	NNW	5.8	23.5	39.6	38.9	44	36
3	54	24	38.3	27.1	26	0	29.24	30.19	SSE	7.7	24.5	40.5	40.2	47	36
4	47	30	38.6	34.8	26	0	29.16	30.11	S	9.7	32.9	41.5	40.5	44	37
5	33	23	28.8	21.7	37	0	29.44	30.40	N	9.5	27.7	39.0	36.6	39	35
6	55	25	39.8	31.8	25	0	29.29	30.24	S	9.8	27.6	40.5	39.8	47	35
7	67	33	49.2	41.2	15	0	28.97	29.91	S	10.4	30.2	43.6	43.9	52	37
8	75	43	56.3	44.7	6	0	28.92	29.86	SSE	5.3	18.1	48.3	50.0	59	43
9	70	45	56.9	38.4	7	0	29.14	30.08	ENE	8.5	18.6	49.6	50.6	58	45
10	65	39	50.7	39.3	13	0	29.04	29.98	ENE	9.1	23.4	48.9	49.0	56	43
11	60	37	47.8	35.2	16	0	29.20	30.14	ENE	12.4	29.4	48.1	47.5	52	44
12	51	29	39.0	22.1	25	0	29.45	30.41	NNE	10.0	25.4	44.9	43.4	51	38
13	67	25	45.2	26.8	19	0	29.29	30.24	SW	6.2	23.8	44.6	43.7	53	37
14	76	31	53.7	33.1	12	0	29.20	30.14	WSW	6.5	27.9	47.2	47.5	57	39
15	53	34	44.3	34.0	22	0	29.09	30.03	NE	9.7	20.8	47.3	46.8	51	43
16	34	24	28.2	25.2	36	0	29.15	30.09	N *	NA	28.7*	41.5	39.6	44	37
17	51	22	36.1	25.9	28	0	29.23	30.17	WSW	6.5	21.6	40.7	39.5	47	35
18	50	20	34.2	21.1	30	0	29.35	30.30	NE	5.4	19.5	41.5	40.2	48	36
19	50*	23*	36.4*	18.4*	28*	0*	29.31*	30.25*	SE *	8.7*	25.9*	40.8*	39.5*	47*	35*
20	45	37	41.9	34.6	24	0	28.92	29.86	ESE	8.6	22.2	41.7	40.5	43	38
21	55	39	46.3	38.3	18	0	28.96	29.90	N	12.3	27.0	45.0	45.4	52	42
22	44	24	33.1	28.5	31	0	29.34	30.28	NNE	16.4	34.0	41.5	39.5	44	36
23	25	20	22.1	16.8	43	0	29.56	30.52	NNE	12.9	30.5	36.5	34.3	36	34
24	34	21	26.6	19.7	38	0	29.24	30.19	WNW	4.2	9.4	35.2	33.4	34	33
25	53	28	37.1	27.7	24	0	28.93	29.87	W	3.6	12.7	38.5	37.6	46	33
26	37	24	29.6	17.1	35	0	29.31	30.26	N	15.6	34.4	38.5	37.1	41	35
27	23	18	20.3	12.8	44	0	29.51	30.47	NE	11.5	23.2	4.88	33.5	35	33
28	30	20	25.4	23.9	40	0	29.41	30.36	E	5.6	15.1	34.4	33.0	33	33
	50*	28*	38.4*	28.2*	<- Monthly Averages ->		29.22*	30.16*	N *	9.1*	34.4*	42.2*	41.3*	47*	37*

Temperature - Highest: 76*	Degree Days - Total HDD: 733*	Number of Days With: Tmax ≥ 90: 0*	Rainfall ≥ 0.01 inch: 7*
Lowest: 16*	Total CDD: 0*	Tmax ≤ 32: 3*	Rainfall ≥ 0.10 inch: 4*
Rainfall: Monthly Total: 1.13* in.	Humidity - Highest: 100*	Tmin ≤ 32: 20*	Avg Wind Speed ≥ 10 mph: 9*
Greatest 24 Hr: 0.60* in.	Lowest: 22*	Tmin ≤ 0: 0*	Max Wind Speed ≥ 30 mph: 6*

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 Monthly data generated on Thursday, April 24, 2015 at 13:05 UTC
 * Denotes incomplete record



MAY 26 2015

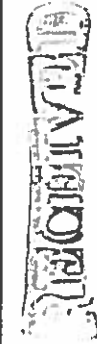
MESONET CLIMATOLOGICAL DATA SUMMARY
(TISH) Tishomingo
Latitude: 34-19-57

March
Nearest City: 6.0 N Tishomingo
Longitude: 96-40-44

Time Zone: Midnight-Midnight CST
County: Johnston
Elevation: 879 feet

DAY	TEMPERATURE (F)		DEG DAYS HDD CDD	HUMIDITY (%)		RAIN (in)	PRESSURE (in) STN MSL	WIND SPEED (mph)		SOLAR (MJ/m2)		4" SOIL TEMPERATURES						
	MAX	MIN		AVG	DEWPT			MAX	MIN	AVG	MAX	MIN	SOD	BARE	MAX	MIN		
1	34	30	31.9	30.5	99	87	95	0.30	29.39	30.34	NNE*	NA	21.3*	6.33	35.0	33.3	33	
2	38	31	34.2	32.1	99	85	92	0.17	29.34	30.29	NNE	6.4	20.5	4.50	37.0	33.7	34	
3	48	38	43.3	43.1	100	98	99	0.03	28.99	29.93	S	6.8	17.5	3.60	40.8	39.2	44	
4	46	23	33.3	31.4	99	87	93	0.30	29.12	30.07	NNE*	NA	35.5*	1.79	40.5	40.2	43	
5	40	16	28.8	16.3	89	37	61	0.15	29.56	30.52	SW *	NA	6.1*	21.97	37.3	37.1	42	
6	53	20	36.2	24.9	94	38	67	0.00	29.53	30.48	SSW	6.1	20.2	21.56	39.2	41.8	51	
7	62	24	45.2	30.9	95	30	61	0.00	29.39	30.34	SSW	6.0	15.9	21.10	42.6	44.8	55	
8	55	46	50.1	40.1	98	55	69	0.00	29.19	30.13	S	8.5	18.9	8.94	46.4	47.5	51	
9	49	45	46.9	46.3	99	96	97	0.37	29.07	30.01	ENE	7.2	14.8	2.72	46.9	47.6	49	
10	55	39	48.5	46.0	99	72	91	0.01	29.09	30.03	NNW	4.8	12.4	5.45	48.0	49.1	52	
11	71	37	53.8	43.1	100	34	72	0.00	29.27	30.21	NNE	6.7	20.1	21.31	49.4	51.6	62	
12	69	46	57.9	47.3	88	49	69	0.00	29.19	30.14	ENE	6.6	16.3	15.95	52.4	53.9	61	
13	57	53	54.6	52.7	96	89	93	0.69	29.04	29.98	NNW	9.9	23.8	2.15	53.1	53.7	55	
14	59	54	55.9	49.8	92	71	80	0.03	29.16	30.10	N	13.4	31.9	8.47	53.5	54.6	52	
15	69	51	58.8	50.6	91	53	75	0.00	29.31	30.26	NNE	5.4	15.5	14.99	56.0	57.7	66	
16	77	45	60.7	50.3	99	38	73	0.00	29.20	30.15	SSW	6.4	21.9	18.97	57.6	58.5	65	
17	76	55	64.0	50.7	94	40	64	0.00	29.14	30.09	NNE	8.7	20.4	16.56	59.1	59.6	66	
18	56	53	54.5	50.9	99	69	89	0.31	29.07	30.01	E	5.1	13.2	3.35	56.7	56.1	58	
19	55	51	52.5	52.1	99	95	99	0.04	29.05	29.99	E	7.7	21.5	2.95	55.4	55.3	56	
20	62	48	53.2	47.4	97	59	82	0.29	29.20	30.15	NNE	8.3	20.8	14.63	56.0	56.8	63	
21	63	49	55.1	48.8	93	63	80	0.08	29.16	30.11	E	4.4	12.8	7.75	55.9	56.3	60	
22	66	49	55.2	47.4	97	48	77	0.23	29.08	30.03	ESE	3.0	11.8	16.85	57.8	58.6	66	
23	73	45	59.9	51.2	99	48	75	0.00	29.10	30.04	SSE	7.7	19.1	23.04	59.1	60.2	69	
24	82	55	68.3	56.0	82	44	66	0.00	28.93	29.87	S	11.1	29.8	20.93	61.5	61.9	69	
25	81	53	68.0	58.9	96	44	75	0.35	28.90	29.83	SSE	12.9	39.2	18.01	63.5	63.7	70	
26	61	40	50.7	36.6	90	27	63	0.00	29.15	30.09	N	14.9	35.7	23.21	58.6	57.9	63	
27	58	41	49.9	36.4	90	41	61	0.00	29.19	30.13	N	7.8	29.8	16.14	54.8	52.9	59	
28	75	40	57.4	42.3	93	31	61	0.00	29.10	30.04	SSE	7.0	20.0	22.93	56.8	55.4	65	
29	81	44	62.3	45.9	82	31	58	0.00	29.08	30.02	NNE	9.6	22.4	23.72	59.7	58.7	68	
30	78*	48*	63.4*	50.2*	94*	38*	64*	0.00*	29.16*	30.10*	SSE*	7.3*	20.6*	NA	61.8*	60.8*	70*	
31	84	56	70.8	61.3	99	44	75	0.00	28.99	29.92	SSE	7.1	22.8	20.82	65.9	66.1	75	
	62*	43*	52.4*	44.2*	<-	Monthly Averages	->		29.17*	30.11*	NNE*	7.7*	39.2*	13.69*	52.2*	52.4*	58*	48*

Temperature - Highest: 84*	Degree Days - Total HDD: 398*	Number of Days With: Tmax ≥ 90: 0*	Rainfall ≥ 0.01 inch: 15*
Lowest: 16*	Total CDD: 11*	Tmax ≤ 32: 0*	Rainfall ≥ 0.10 inch: 10*
Rainfall: Monthly Total: 3.35* in.	Humidity - Highest: 100*	Tmin ≤ 32: 6*	Avg Wind Speed ≥ 10 mph: 4*
Greatest 24 Hr: 0.69* in.	Lowest: 27*	Tmin ≤ 0: 0*	Max Wind Speed ≥ 30 mph: 4*



Date	Reference ET, Short [in]	Reference ET, Tall [in]	Cool Season Gross ET [in]	Warm Season Gross ET [in]	Pan Evaporation [in]
2015-04-15	0.13	0.15	0.12	0.08	0.16
2015-04-14	0.05	0.06	0.04	0.03	0.06
2015-04-13	0.08	0.11	0.07	0.05	0.11
2015-04-12	0.14	0.19	0.13	0.09	0.19
2015-04-11	0.18	0.23	0.16	0.11	0.23
2015-04-10	0.19	0.26	0.17	0.12	0.26
2015-04-09	0.21	0.30	0.20	0.13	0.30
2015-04-08	0.11	0.15	0.10	0.07	0.15
2015-04-07	0.14	0.19	0.13	0.09	0.18
2015-04-06	0.13	0.18	0.12	0.08	0.17
2015-04-05	0.05	0.06	0.04	0.03	0.06
2015-04-04	0.18	0.25	0.17	0.11	0.25
2015-04-03	0.18	0.25	0.17	0.11	0.27
2015-04-02	0.19	0.26	0.18	0.12	0.27
2015-04-01	0.12	0.17	0.11	0.07	0.16
2015-03-31	0.17	0.21	0.16	0.10	0.21
2015-03-30	0.18	0.24	0.17	0.11	0.23
2015-03-29	0.22	0.31	0.21	0.14	0.30
2015-03-28	0.17	0.22	0.16	0.10	0.22
2015-03-27	0.11	0.15	0.10	0.07	0.14
2015-03-26	0.15	0.22	0.14	0.09	0.22
2015-03-25	0.18	0.24	0.16	0.11	0.24
2015-03-24	0.20	0.28	0.19	0.12	0.27
2015-03-23	0.14	0.18	0.13	0.09	0.18
2015-03-22	0.10	0.11	0.09	0.06	0.12
2015-03-21	0.07	0.08	0.06	0.04	0.08
2015-03-20	0.10	0.13	0.09	0.06	0.12
2015-03-19	0.03	0.03	0.02	0.02	0.03
2015-03-18	0.04	0.05	0.04	0.03	0.05
2015-03-17	0.16	0.22	0.14	0.10	0.20
2015-03-16	0.14	0.18	0.13	0.09	0.17
2015-03-15	0.11	0.14	0.10	0.07	0.13
2015-03-14	0.08	0.11	0.07	0.05	0.11
2015-03-13	0.03	0.04	0.03	0.02	0.04
2015-03-12	0.11	0.14	0.10	0.07	0.14
2015-03-11	0.13	0.17	0.12	0.08	0.16
2015-03-10	0.04	0.04	0.03	0.02	0.04
2015-03-09	0.02	0.03	0.02	0.01	0.03
2015-03-08	0.08	0.11	0.08	0.05	0.11
2015-03-07	0.11	0.15	0.10	0.07	0.14
2015-03-06	0.09	0.11	0.08	0.05	0.11
2015-03-05	0.07	0.09	0.06	0.04	0.09
2015-03-04	0.04	0.06	0.04	0.02	0.05
2015-03-03	0.02	0.02	0.02	0.01	0.03
2015-03-02	0.03	0.03	0.02	0.02	0.03
2015-03-01	0.02	0.03	0.02	0.01	0.03
2015-02-28	0.02	0.02	0.02	0.01	0.02
2015-02-27	0.03	0.05	0.03	0.02	0.04
2015-02-26	0.07	0.11	0.07	0.05	0.11
2015-02-25	0.07	0.09	0.07	0.04	0.09

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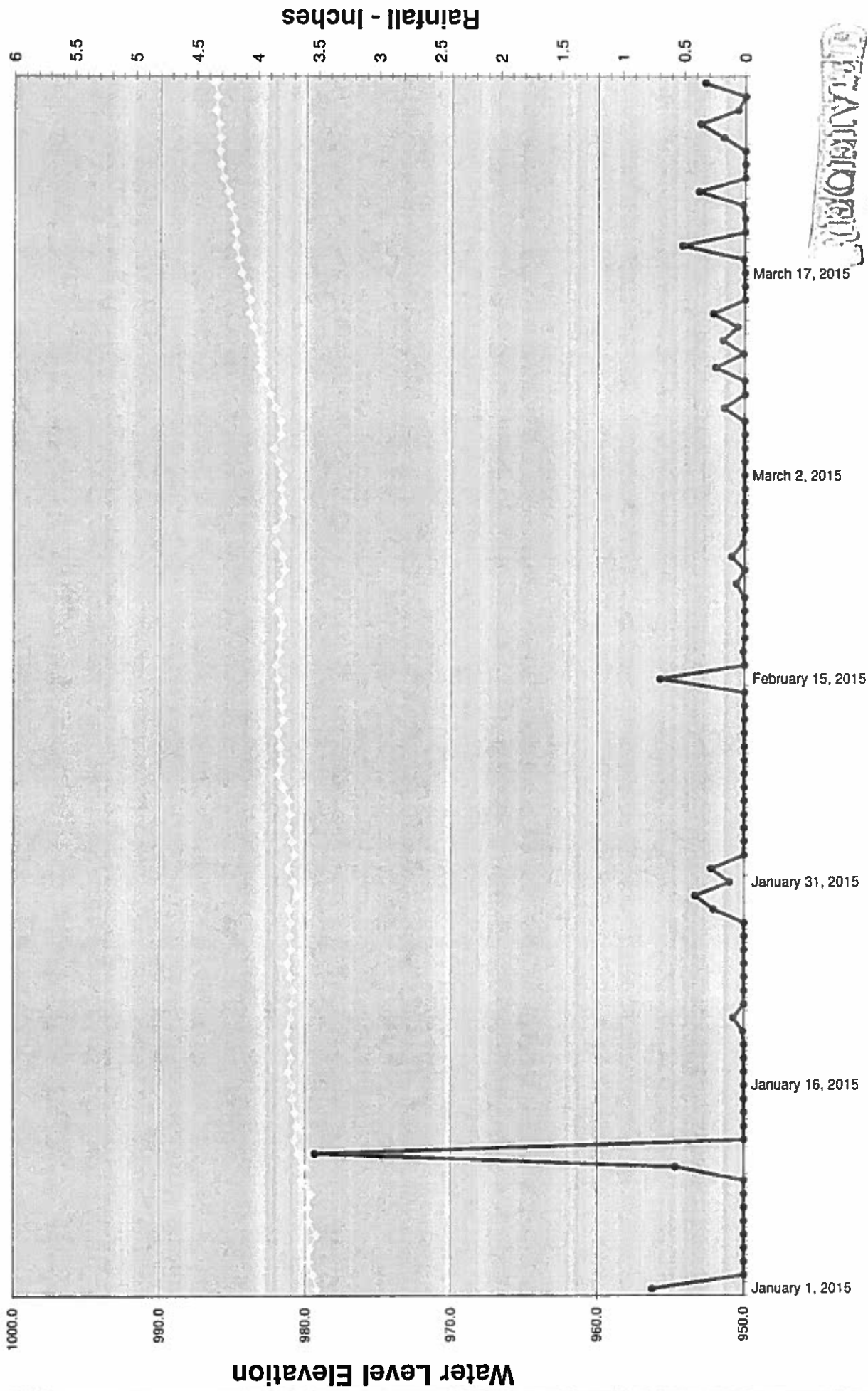
2015-02-24	0.04	0.05	0.04	0.02	0.05
2015-02-23	0.03	0.04	0.02	0.02	0.04
2015-02-22	0.05	0.07	0.04	0.03	0.06
2015-02-21	0.09	0.12	0.08	0.05	0.12
2015-02-20	0.04	0.06	0.04	0.03	0.05
2015-02-19	0.10	0.14	0.09	0.06	0.14
2015-02-18	0.07	0.09	0.06	0.04	0.09
2015-02-17	0.07	0.10	0.07	0.04	0.09
2015-02-16	0.03	0.04	0.03	0.02	0.04
2015-02-15	0.07	0.10	0.07	0.04	0.10
2015-02-14	0.14	0.21	0.13	0.09	0.18
2015-02-13	0.11	0.17	0.11	0.07	0.15
2015-02-12	0.10	0.15	0.09	0.06	0.14
2015-02-11	0.11	0.17	0.10	0.07	0.16
2015-02-10	0.11	0.16	0.10	0.07	0.15
2015-02-09	0.13	0.20	0.13	0.08	0.18
2015-02-08	0.11	0.14	0.10	0.07	0.13
2015-02-07	0.11	0.15	0.10	0.07	0.14
2015-02-06	0.08	0.11	0.07	0.05	0.10
2015-02-05	0.03	0.05	0.03	0.02	0.04
2015-02-04	0.04	0.05	0.03	0.02	0.05
2015-02-03	0.08	0.11	0.07	0.05	0.10
2015-02-02	0.05	0.07	0.05	0.03	0.06
2015-02-01	0.05	0.07	0.04	0.03	0.07
2015-01-31	0.06	0.09	0.05	0.04	0.07
2015-01-30	0.07	0.11	0.07	0.05	0.10
2015-01-29	0.12	0.18	0.11	0.07	0.17
2015-01-28	0.14	0.21	0.13	0.08	0.18
2015-01-27	0.10	0.14	0.09	0.06	0.12
2015-01-26	0.10	0.16	0.10	0.06	0.13
2015-01-25	0.12	0.18	0.11	0.07	0.17
2015-01-24	0.08	0.12	0.07	0.05	0.10
2015-01-23	0.06	0.08	0.05	0.04	0.07
2015-01-22	0.02	0.03	0.02	0.01	0.03
2015-01-21	0.08	0.12	0.07	0.05	0.10
2015-01-20	0.12	0.19	0.11	0.07	0.16
2015-01-19	0.06	0.09	0.06	0.04	0.08
2015-01-18	0.13	0.22	0.13	0.08	0.19
2015-01-17	0.11	0.17	0.10	0.07	0.15
2015-01-16	0.08	0.12	0.07	0.05	0.10
2015-01-15	0.06	0.09	0.06	0.04	0.08
2015-01-14	0.03	0.04	0.03	0.02	0.04
2015-01-13	0.04	0.06	0.04	0.03	0.05
2015-01-12	0.03	0.04	0.02	0.02	0.03
2015-01-11	0.01	0.01	0.01	0.01	0.02
2015-01-10	0.05	0.08	0.05	0.03	0.07
2015-01-09	0.06	0.09	0.05	0.03	0.08
2015-01-08	0.05	0.08	0.05	0.03	0.07
2015-01-07	0.06	0.09	0.05	0.03	0.09
2015-01-06	0.06	0.10	0.06	0.04	0.08
2015-01-05	0.05	0.08	0.05	0.03	0.07
2015-01-04	0.05	0.07	0.04	0.03	0.06

RECEIVED
MAY 26 2015

2015-01-03	0.02	0.03	0.02	0.01	0.03
2015-01-02	0.01	0.01	0.01	0.01	0.02
2015-01-01	0.02	0.02	0.02	0.01	0.02
2014-12-31	0.03	0.05	0.03	0.02	0.05
2014-12-30	0.05	0.07	0.04	0.03	0.06
2014-12-29	0.05	0.07	0.04	0.03	0.06
2014-12-28	0.04	0.05	0.04	0.02	0.05
2014-12-27	0.04	0.06	0.04	0.03	0.06
2014-12-26	0.03	0.03	0.02	0.02	0.03
2014-12-25	0.11	0.17	0.10	0.07	0.15
2014-12-24	0.06	0.09	0.05	0.04	0.07
2014-12-23	0.08	0.12	0.07	0.05	0.10
2014-12-22	0.06	0.09	0.06	0.04	0.08
2014-12-21	0.02	0.03	0.02	0.01	0.03
2014-12-20	0.02	0.03	0.02	0.01	0.03
2014-12-19	0.02	0.02	0.02	0.01	0.02
2014-12-18	0.01	0.01	0.01	0.01	0.02
2014-12-17	0.01	0.01	0.01	0.01	0.02
2014-12-16	0.06	0.09	0.06	0.04	0.08
2014-12-15	0.08	0.13	0.08	0.05	0.11
2014-12-14	0.02	0.03	0.02	0.01	0.03
2014-12-13	0.03	0.03	0.03	0.02	0.03
2014-12-12	0.02	0.02	0.01	0.01	0.02
2014-12-11	0.04	0.05	0.03	0.02	0.04
2014-12-10	0.05	0.08	0.05	0.03	0.06
2014-12-09	0.05	0.07	0.05	0.03	0.06
2014-12-08	0.04	0.05	0.04	0.02	0.05
2014-12-07	0.02	0.02	0.02	0.01	0.02
2014-12-06	0.03	0.04	0.03	0.02	0.04
2014-12-05	0.05	0.06	0.04	0.03	0.06
2014-12-04	0.02	0.02	0.02	0.01	0.02
2014-12-03	0.02	0.02	0.02	0.01	0.02
2014-12-02	0.04	0.07	0.04	0.03	0.06
2014-12-01	0.06	0.09	0.06	0.04	0.08
2014-11-30	0.12	0.19	0.11	0.07	0.17
2014-11-29	0.16	0.25	0.14	0.10	0.22
2014-11-28	0.10	0.16	0.10	0.06	0.14
2014-11-27	0.06	0.10	0.06	0.04	0.08
2014-11-26	0.09	0.14	0.08	0.05	0.12
2014-11-25	0.06	0.08	0.05	0.03	0.07
2014-11-24	0.09	0.14	0.08	0.06	0.12
2014-11-23	0.11	0.17	0.10	0.07	0.15
2014-11-22	0.02	0.03	0.02	0.01	0.03
2014-11-21	0.02	0.02	0.02	0.01	0.02
2014-11-20	0.08	0.12	0.07	0.05	0.10
2014-11-19	0.09	0.14	0.08	0.05	0.12
2014-11-18	0.07	0.11	0.07	0.05	0.10
2014-11-17	0.05	0.08	0.05	0.03	0.07
2014-11-16	0.03	0.04	0.02	0.02	0.03
2014-11-15	0.06	0.09	0.06	0.04	0.08
2014-11-14	0.04	0.06	0.04	0.03	0.06

LIBRARY
MAY 26 2015

Mill Creek Water Levels First Quarter - CY2015



Date

Recorded Rainfall

10-03 WL ELEV



MAY 26 2015