



MILL CREEK DOLOMITE, LLC.

9915 West Amos Conley Road
P.O. Box 239
Mill Creek, OK 74856
(580)384-5271

09/20/18

Kent Wilkens, Assistant Chief
Planning and Management Division
State of Oklahoma
Water Resources Board
3800 N. Classen Boulevard
Oklahoma City, OK 73118

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SEP 24 2018

Oklahoma Water Resources Board

Re: Consumptive Use of Pit Water, 2nd Quarter Report 2018

Dear Mr. Wilkins;

As required under **Oklahoma Statute 82-1020.2 (E) (1)** and **Oklahoma Administrative Code 785:30-15**, Mill Creek Dolomite is submitting the following water report for the second quarter of calendar year 2018.

If you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,

Ken Baker
Quality, Safety and Environmental Manager
Mill Creek Dolomite, LLC
kenb@min-ad.com.com

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SEP 24 2018

CONSUMPTIVE USE REPORT

2nd Quarter 2018

MILL CREEK DOLOMITE, LLC

MILL CREEK MINE & MILL

Oklahoma Water Resources Board

TABLE 1: Estimated Consumptive Use of Pit Water

PIT GROUNDWATER VOLUME		VALUES (Gal)
1	Total volume of water pumped from the producing mine pit (s)	18,258,772
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	32,865,656
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water	0
4	Other non-pit waters pumped from the producing mine pit	0
5	Add lines 2 through 4	32,865,656
6	Pit Ground Water Volume (Line 1 minus Line 5)	-14,606,884
DEFINED ELEMENTS OF CONSUMPTIVE USE		
7	Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site	36,043
8	Volume of pit groundwater that is carried away with the mined material transported off the mining site (shipped)	0
9	Volume of pit groundwater that evaporates from the producing mine pit, process water ponds, and lined ponds (Excluding structures used for augmentation)	3,501,659
10	Volume of pit water groundwater that is used for other beneficial uses off the mine site	966,214
11	Defined Elements of Consumptive Use of Pit Groundwater (Add Lines 7 through 10)	4,503,916
PIT GROUNDWATER BALANCE		
12	Line 6 minus Line 11	-19,110,800
13	Groundwater Augmentation: Volume of pit groundwater returned to the groundwater basin or subbasin, pursuant to a Management Plan	
14	Stream Augmentation: Volume of pit groundwater discharged to a definite stream, during flow conditions that are less than or equal to 50% exceedance, pursuant to a Management Plan	
15	Precipitation & Run-off Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation	
16	Recycled Pit Groundwater Volume of pit groundwater returned to a mine pit or holding basin (not included on lines 7 through 10)	
17	Other Non-Consumptive Losses Including pit groundwater returned to the land surface from which runoff flows into a mine pit and other losses (not included in lines 7 through 10)	
18	Add lines 13 through 17	0
19	Other Consumptive Use (adjusted) (Line 12 minus Line 18)	-19,110,800
TOTAL REPORTED CONSUMPTIVE USE OF PIT WATER		
20	Total Net Reported Consumptive Use (Line 11 plus Line 19)	-14,606,884

**MILL CREEK DOLOMITE, LLC
PIT WATER MONITORING DATA**

SUMP SURFACE AREA DATA:

SUMP A (sq ft) 2,163,342 SUMP B (sq ft) 1,051,207
 PUMP A (GPM) 300 PUMP B (GPM) 100 New Pump Field Checked 1/18/16

DATE	WK	PU-19 QA		PU-18 QB		PIT WATER PUMPED			PIT RAIN WATER					
		Meter Reading	HRS. RAN	Meter Reading	HRS. RAN	QA GPD	QB GPD	Grand Total	RAIN FALL	VOLUME QA	GALLONS QA	VOLUME QB	GALLONS QB	TOTAL GALLONS
4/6/18	14	8477	51.0	14012	60.0	131143	51429	182571	0.2	36056	269733	17520	131068	400801
4/13/18	15	8505	28.0	14065	53.0	72000	45429	117429	0.1	18028	134866	8760	65534	200400
4/20/18	16	8529	24.0	14119	54.0	61714	46286	108000	1.5	270418	2022995	131401	983010	3006005
4/27/18	17	8565	36.0	14172	53.0	92571	45429	138000	0.5	90139	674332	43800	327670	1002002
Monthly Totals			139.0		220.0	2680714	2828571	5509286	2.30	414641	3101926	201481	1507282	4609208
5/4/18	18	8627	62.0	14243	71.0	159429	60857	220286	3.9	703086	5259787	341642	2555826	7815613
5/11/18	19	8696	69.0	14329	86.0	177429	73714	251143	0.0	0	0	0	0	0
5/18/18	20	8777	81.0	14432	103.0	516552	238078	754629	1.6	288446	2157862	140161	1048544	3206405
5/25/18	21	8796	19.0	14482	50.0	145190	89667	234857	0.5	90139	674332	43800	327670	1002002
6/1/18	22	8815	19.0	14542	60.0	48857	51429	100286	1.1	198306	1483530	96361	720874	2204404
Monthly Totals			250.0		370.0	3985714	3,932,571	8,519,487	7.10	1,081,671	8,091,981	525,604	3,932,040	12,024,021
6/8/18	23	8872	57.0	14588	46.0	146571	39429	186000	1.8	324501	2427594	157681	1179612	3607206
6/15/18	24	8901	29.0	14618	30.0	74571	25714	100286	0.2	36056	269733	17520	131068	400801
6/22/18	25	8935	34.0	14632	14.0	87429	12000	99429	2.1	378585	2832193	183961	1376214	4208407
6/29/18	26	8961	26.0	14652	20.0	66857	17143	84000	4.0	721114	5394654	350402	2621360	8016014
Monthly Totals			146.0		110.0	2815714	1414286	4230000	8.1	1460256	10924174	709565	5308254	16232428
2nd QUARTER-TOTALS			535.0		700.0	9,482,143	8,175,429	18,258,772	17.50	2956567	22118081	1436650	10747575	32,865,656

**MILL CREEK DOLOMITE, LLC
PIT WATER MONITORING DATA
2nd Quarter 2018**

SUMP DATA:

SUMP A: 2,163,342 Sq. Ft.

SUMP B: 1,051,207 Sq. Ft.

SETTLING POND DATA:

SETTLING POND A: 30,000 Sq. Ft. (F-02, MAP 3 – SSWMCP)

SETTLING POND B: 35,000 Sq. Ft. (F-01, MAP 3 – SSWMCP)

PRODUCTION DATA:

Month	Tons	% Moisture
April	19,530	0.2
May	18,390	0.3
June	18,450	0.3
	56,370	

Calculations for gallons of water shipped to plant:

	Tons	Moisture	Tons H2O	Lbs H2O
April	19530	X 0.002 =	39	78,120
May	18390	X 0.003 =	55	110,340
June	18450	X 0.003 =	55	110,700
				299,160
Total Lbs	299,160			
Gallons	299,160	/ 8.3 =	36,043	Gallons of water

Misc. Water Data:

List of Equivalentents:

Volume Units

One Gallon Conversion factors

= 231 cubic inches

= 0.13368 cubic foot weighs approximately 8.3 pounds

One Cubic Foot

= 1,728 cubic inches

= 7.481 gallons (7.5 for ordinary calculations) weighs 62.4 pounds (62.5 for ordinary calculations)

**PIT WATER MONITORING DATA
MILL CREEK DOLOMITE, LLC
EVAPORATION**

Sump A (sq ft) 12,925 Sump B (sq ft) 262,802 (25% of pit area always has water)
Settling A (sq ft) 30,000 Settling B (sq ft) 35,000

Apr-18			Sump A	Sump A	Sump B	Sump B	Settling A	Settling A	Settling B	Settling B	Total
Date	Pan Evaporation (in)	Corrected Evaporation Rate (in)	Evaporation Volume (cu ft)	Evaporation (Gallons)	Evaporation Volume (cu ft)	Evaporation (Gallons)	Evaporation Volume (cu-ft)	Evaporation (Gallons)	Evaporation Volume (cu.ft)	Evaporation (Gallons)	Evaporation (Gallons)
4/1/2018	0.09	0.063	67.86	507.63	1379.71	10321.61	157.50	1178.26	183.75	1374.63	13382.14
4/2/2018	0.06	0.042	45.24	338.42	919.81	6881.08	105.00	785.51	122.50	916.42	8921.43
4/3/2018	0.34	0.238	256.35	1917.72	5212.24	38992.76	595.00	4451.20	694.17	5193.06	50554.74
4/4/2018	0.22	0.154	165.87	1240.88	3372.63	25230.61	385.00	2880.19	449.17	3360.22	32711.89
4/5/2018	0.20	0.14	150.79	1128.07	3066.02	22936.92	350.00	2618.35	408.33	3054.74	29738.08
4/6/2018	0.14	0.098	105.55	789.65	2146.22	16055.84	245.00	1832.85	285.83	2138.32	20816.66
4/7/2018	0.08	0.056	60.32	451.23	1226.41	9174.77	140.00	1047.34	163.33	1221.90	11895.23
4/8/2018	0.07	0.049	52.78	394.83	1073.11	8027.92	122.50	916.42	142.92	1069.16	10408.33
4/9/2018	0.22	0.154	165.87	1240.88	3372.63	25230.61	385.00	2880.19	449.17	3360.22	32711.89
4/10/2018	0.21	0.147	158.33	1184.48	3219.32	24083.77	367.50	2749.27	428.75	3207.48	31224.99
4/11/2018	0.35	0.245	263.89	1974.13	5365.54	40139.61	612.50	4582.11	714.58	5345.80	52041.65
4/12/2018	0.35	0.245	263.89	1974.13	5365.54	40139.61	612.50	4582.11	714.58	5345.80	52041.65
4/13/2018	0.2	0.14	150.79	1128.07	3066.02	22936.92	350.00	2618.35	408.33	3054.74	29738.08
4/14/2018	0.3	0.21	226.19	1692.11	4599.04	34405.38	525.00	3927.53	612.50	4582.11	44607.13
4/15/2018	0.27	0.189	203.57	1522.90	4139.13	30964.84	472.50	3534.77	551.25	4123.90	40146.41
4/16/2018	0.29	0.203	218.65	1635.71	4445.73	33258.53	507.50	3796.61	592.08	4429.38	43120.22
4/17/2018	0.39	0.273	294.04	2199.74	5978.75	44727.00	682.50	5105.78	796.25	5956.75	57989.27
4/18/2018	0.39	0.273	294.04	2199.74	5978.75	44727.00	682.50	5105.78	796.25	5956.75	57989.27
4/19/2018	0.27	0.189	203.57	1522.90	4139.13	30964.84	472.50	3534.77	551.25	4123.90	40146.41
4/20/2018	0.26	0.182	196.03	1466.49	3985.83	29818.00	455.00	3403.86	530.83	3971.16	38659.51
4/21/2018	0.06	0.042	45.24	338.42	919.81	6881.08	105.00	785.51	122.50	916.42	8921.43
4/22/2018	0.13	0.091	98.01	733.25	1992.92	14909.00	227.50	1701.93	265.42	1985.58	19329.76
4/23/2018	0.23	0.161	173.41	1297.28	3525.93	26377.46	402.50	3011.10	469.58	3512.95	34198.80
4/24/2018	0.24	0.168	180.95	1353.69	3679.23	27524.30	420.00	3142.02	490.00	3665.69	35685.70
4/25/2018	0.1	0.07	75.40	564.04	1533.01	11468.46	175.00	1309.18	204.17	1527.37	14869.04
4/26/2018	0.2	0.14	150.79	1128.07	3066.02	22936.92	350.00	2618.35	408.33	3054.74	29738.08
4/27/2018	0.25	0.175	188.49	1410.09	3832.53	28671.15	437.50	3272.94	510.42	3818.43	37172.61
4/28/2018	0.25	0.175	188.49	1410.09	3832.53	28671.15	437.50	3272.94	510.42	3818.43	37172.61
4/29/2018	0.29	0.203	218.65	1635.71	4445.73	33258.53	507.50	3796.61	592.08	4429.38	43120.22
4/30/2018	0.31	0.217	233.73	1748.51	4752.34	35552.23	542.50	4058.44	632.92	4734.85	46094.00
		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Monthly Total		5,096.76	38,128.85	103,631.59	775,267.91	11,830.00	88,500.23	13,801.67	103,250.27	1,005,147.88

Submitted to: Mill Creek Dolomite, LLC
Prepared by: [Name]
Checked by: [Name]
Approved by: [Name]
Pit # [Number]
Pit Name [Name]
Pit Location [Location]
Pit Area [Area]
Pit Volume [Volume]
Pit Depth [Depth]
Pit Type [Type]
Pit Status [Status]
Pit Owner [Owner]
Pit Operator [Operator]
Pit Inspector [Inspector]
Pit Inspector License # [License #]
Pit Inspector State [State]
Pit Inspector Date [Date]
Pit Inspector Signature [Signature]
Pit Inspector Title [Title]
Pit Inspector Company [Company]
Pit Inspector Address [Address]
Pit Inspector City [City]
Pit Inspector State [State]
Pit Inspector Zip [Zip]
Pit Inspector Phone [Phone]
Pit Inspector Email [Email]
Pit Inspector Website [Website]
Pit Inspector Fax [Fax]
Pit Inspector Filing Date [Date]
Pit Inspector Filing State [State]
Pit Inspector Filing Agency [Agency]
Pit Inspector Filing License # [License #]
Pit Inspector Filing State [State]
Pit Inspector Filing Date [Date]
Pit Inspector Filing Signature [Signature]
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Pit Inspector Filing State [State]
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Pit Inspector Filing Website [Website]
Pit Inspector Filing Fax [Fax]

SEP 24 2018

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PIT WATER MONITORING DATA

MILL CREEK DOLOMITE, LLC

EVAPORATION

Sump A (sq ft) 12,925 Sump B (sq ft) 262,802 (25% of pit area always has water)
 Settling A (sq ft) 30,000 Settling B (sq ft) 35,000

May-18											
Date	Pan Evaporation (In)	Corrected Evaporation Rate (in)	Sump A Evaporation Volume (cu ft)	Sump A Evaporation (Gallons)	Sump B Evaporation Volume (cu.ft)	Sump B Evaporation (Gallons)	Settling A Evaporation Volume (cu ft)	Settling A Evaporation (Gallons)	Settling B Evaporation Volume (cu ft)	Settling B Evaporation (Gallons)	Total Evaporation (Gallons)
5/1/2018	0.16	0.112	120.63	902.46	2452.82	18349.54	280.00	2094.68	326.67	2443.79	23790.47
5/2/2018	0.15	0.105	113.09	846.05	2299.52	17202.69	262.50	1963.76	306.25	2291.06	22303.56
5/3/2018	0.11	0.077	82.94	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
5/4/2018	0.11	0.077	82.94	620.44	1686.31	12615.31	192.50	1440.09	224.58	1680.11	16355.95
5/5/2018	0.25	0.175	188.49	1410.09	3832.53	28671.15	437.50	3272.94	510.42	3818.43	37172.61
5/6/2018	0.28	0.196	211.11	1579.30	4292.43	32111.69	490.00	3665.69	571.67	4276.64	41633.32
5/7/2018	0.27	0.189	203.57	1522.90	4139.13	30964.84	472.50	3534.77	551.25	4123.90	40146.41
5/8/2018	0.33	0.231	248.81	1861.32	5058.94	37845.92	577.50	4320.28	673.75	5040.32	49067.84
5/9/2018	0.36	0.252	271.43	2030.53	5518.84	41286.46	630.00	4713.03	735.00	5498.54	53528.55
5/10/2018	0.32	0.224	241.27	1804.92	4905.64	36699.07	560.00	4189.36	653.33	4887.59	47580.94
5/11/2018	0.38	0.266	286.50	2143.34	5825.44	43580.15	665.00	4974.87	775.83	5804.01	56502.36
5/12/2018	0.32	0.224	241.27	1804.92	4905.64	36699.07	560.00	4189.36	653.33	4887.59	47580.94
5/13/2018	0.3	0.21	226.19	1692.11	4599.04	34405.38	525.00	3927.53	612.50	4582.11	44607.13
5/14/2018	0.3	0.21	226.19	1692.11	4599.04	34405.38	525.00	3927.53	612.50	4582.11	44607.13
5/15/2018	0.18	0.126	135.71	1015.27	2759.42	20643.23	315.00	2356.52	367.50	2749.27	26764.28
5/16/2018	0.25	0.175	188.49	1410.09	3832.53	28671.15	437.50	3272.94	510.42	3818.43	37172.61
5/17/2018	0.24	0.168	180.95	1353.69	3679.23	27524.30	420.00	3142.02	490.00	3665.69	35685.70
5/18/2018	0.26	0.182	196.03	1466.49	3985.83	29818.00	455.00	3403.86	530.83	3971.16	38659.51
5/19/2018	0.31	0.217	233.73	1748.51	4752.34	35552.23	542.50	4058.44	632.92	4734.85	46094.03
5/20/2018	0.17	0.119	128.17	958.86	2606.12	19496.38	297.50	2225.60	347.08	2596.53	25277.37
5/21/2018	0.24	0.168	180.95	1353.69	3679.23	27524.30	420.00	3142.02	490.00	3665.69	35685.70
5/22/2018	0.25	0.175	188.49	1410.09	3832.53	28671.15	437.50	3272.94	510.42	3818.43	37172.61
5/23/2018	0.27	0.189	203.57	1522.90	4139.13	30964.84	472.50	3534.77	551.25	4123.90	40146.41
5/24/2018	0.28	0.196	211.11	1579.30	4292.43	32111.69	490.00	3665.69	571.67	4276.64	41633.32
5/25/2018	0.09	0.063	67.86	507.63	1379.71	10321.61	157.50	1178.26	183.75	1374.63	13382.14
5/26/2018	0.27	0.189	203.57	1522.90	4139.13	30964.84	472.50	3534.77	551.25	4123.90	40146.41
5/27/2018	0.3	0.21	226.19	1692.11	4599.04	34405.38	525.00	3927.53	612.50	4582.11	44607.13
5/28/2018	0.27	0.189	203.57	1522.90	4139.13	30964.84	472.50	3534.77	551.25	4123.90	40146.41
5/29/2018	0.3	0.21	226.19	1692.11	4599.04	34405.38	525.00	3927.53	612.50	4582.11	44607.13
5/30/2018	0.35	0.245	263.89	1974.13	5365.54	40139.61	612.50	4582.11	714.58	5345.80	52041.65
5/31/2018	0.33	0.231	248.81	1861.32	5058.94	37845.92	577.50	4320.28	673.75	5040.32	49067.84
Monthly Total			6,031.67	45,122.90	122,640.93	917,476.82	14,000.00	104,734.00	16,333.33	122,189.67	1,189,523.39

**PIT WATER MONITORING DATA
MILL CREEK DOLOMITE, LLC
EVAPORATION**

Sump A (sq ft) 12,925 Sump B (sq ft) 262,802 (25% of pit area always has water)
Settling A (sq ft) 30,000 Settling B (sq ft) 35,000

Jun-18												
Date	Pan Evaporation (in)	Corrected Evaporation Rate (in)	Sump A Evaporation Volume (cu ft)	Sump A Evaporation (Gallons)	Sump B Evaporation Volume (cu ft)	Sump B Evaporation (Gallons)	Settling A Evaporation Volume (cu ft)	Settling A Evaporation (Gallons)	Settling B Evaporation Volume (cu ft)	Settling B Evaporation (Gallons)	Total Evaporation (Gallons)	
6/1/2018	0.34	0.238	256.35	1917.72	5212.24	38992.76	595.00	4451.20	694.17	5193.06	50554.74	
6/2/2018	0.34	0.238	256.35	1917.72	5212.24	38992.76	595.00	4451.20	694.17	5193.06	50554.74	
6/3/2018	0.36	0.252	271.43	2030.53	5518.84	41286.46	630.00	4713.03	735.00	5498.54	53528.55	
6/4/2018	0.17	0.119	128.17	958.86	2606.12	19496.38	297.50	2225.60	347.08	2596.53	25277.37	
6/5/2018	0.22	0.154	165.87	1240.88	3372.63	25230.61	385.00	2880.19	449.17	3360.22	32711.89	
6/6/2018	0.29	0.203	218.65	1635.71	4445.73	33258.53	507.50	3796.61	592.08	4429.38	43120.22	
6/7/2018	0.09	0.063	67.86	507.63	1379.71	10321.61	157.50	1178.26	183.75	1374.63	13382.14	
6/8/2018	0.27	0.189	203.57	1522.90	4139.13	30964.84	472.50	3534.77	551.25	4123.90	40146.41	
6/9/2018	0.34	0.238	256.35	1917.72	5212.24	38992.76	595.00	4451.20	694.17	5193.06	50554.74	
6/10/2018	0.28	0.196	211.11	1579.30	4292.43	32111.69	490.00	3665.69	571.67	4276.64	41633.32	
6/11/2018	0.32	0.224	241.27	1804.92	4905.64	36699.07	560.00	4189.36	653.33	4887.59	47580.94	
6/12/2018	0.16	0.112	120.63	902.46	2452.82	18349.54	280.00	2094.68	326.67	2443.79	23790.47	
6/13/2018	0.29	0.203	218.65	1635.71	4445.73	33258.53	507.50	3796.61	592.08	4429.38	43120.22	
6/14/2018	0.34	0.238	256.35	1917.72	5212.24	38992.76	595.00	4451.20	694.17	5193.06	50554.74	
6/15/2018	0.36	0.252	271.43	2030.53	5518.84	41286.46	630.00	4713.03	735.00	5498.54	53528.55	
6/16/2018	0.35	0.245	263.89	1974.13	5365.54	40139.61	612.50	4582.11	714.58	5345.80	52041.65	
6/17/2018	0.36	0.252	271.43	2030.53	5518.84	41286.46	630.00	4713.03	735.00	5498.54	53528.55	
6/18/2018	0.31	0.217	233.73	1748.51	4752.34	35552.23	542.50	4058.44	632.92	4734.85	46094.03	
6/19/2018	0.21	0.147	158.33	1184.48	3219.32	24083.77	367.50	2749.27	428.75	3207.48	31224.99	
6/20/2018	0.22	0.154	165.87	1240.88	3372.63	25230.61	385.00	2880.19	449.17	3360.22	32711.89	
6/21/2018	0.29	0.203	218.65	1635.71	4445.73	33258.53	507.50	3796.61	592.08	4429.38	43120.22	
6/22/2018	0.2	0.14	150.79	1128.07	3066.02	22936.92	350.00	2618.35	408.33	3054.74	29738.08	
6/23/2018	0.28	0.196	211.11	1579.30	4292.43	32111.69	490.00	3665.69	571.67	4276.64	41633.32	
6/24/2018	0.23	0.161	173.41	1297.28	3525.93	26377.46	402.50	3011.10	469.58	3512.95	34198.80	
6/25/2018	0.32	0.224	241.27	1804.92	4905.64	36699.07	560.00	4189.36	653.33	4887.59	47580.94	
6/26/2018	0.38	0.266	286.50	2143.34	5825.44	43580.15	665.00	4974.87	775.83	5804.01	56502.36	
6/27/2018	0.39	0.273	294.04	2199.74	5978.75	44727.00	682.50	5105.78	796.25	5956.75	57989.27	
6/28/2018	0.37	0.259	278.96	2086.93	5672.14	42433.30	647.50	4843.95	755.42	5651.27	55015.46	
6/29/2018	0.38	0.266	286.50	2143.34	5825.44	43580.15	665.00	4974.87	775.83	5804.01	56502.36	
6/30/2018	0.33	0.231	248.81	1861.32	5058.94	37845.92	577.50	4320.28	673.75	5040.32	49067.84	
		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Monthly Total			6,627.29	49,578.78	134,751.73	1,008,077.66	15,382.50	115,076.48	17,946.25	134,255.90	1,306,988.82	
Quarterly Total			17,755.72	132,830.53	361,024.25	2,700,822.40	41,212.50	308,310.71	48,081.25	359,695.83	3,501,659.47	

