









SSWC

Monthly Operating Report

April:2024

So. Sangamon Water Commission May 20<sup>th</sup>, 2024

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# **EXECUTIVE SUMMARY**

**Safety.** Safety is the number one priority at South Sangamon. We have instituted a monthly safety meeting for operations staff at the plant. There were no lost time accidents in the month of April 2024.

**Compliance.** The finished water quality was within regulatory limits and all reporting and sampling requirements were met for the month. A copy of the Operations Report submitted to the Illinois Environmental Protection Agency is available at <a href="www.sswc.us">www.sswc.us</a>

During the month of April 2024, the plant pumped 39.339 million gallons from the well field and 32.082

million gallons of finished water. This is 7.1 million gallons less than April 2023.

The SSWC plant has been removed from Critical Review status.

**Operations.** There was 1 emergency call-outs for the month. There were numerous customer inquiry for the month.

**Maintenance and Repair.** For the month of April 2024, there were 30 inspections, 3 preventative and multiple corrective maintenance activity completed. There was 2 repair activities performed.

ES-1

**Budget.** Passed at April 17<sup>th</sup> 2023 meeting.

Capital Planning.

Chatham emergency interconnect

Onsite fuel storage tanks

**Detention Tank** 

Well#11

# 1. SAFETY

## 1.1 SAFETY TRAINING

At South Sangamon we strive to provide a safe working environment for all employees. This is accomplished with daily safety meetings and open communication.

## 1.2 LOST TIME ACCIDENTS

There were 0 lost time accidents in the month of April 2024.

# 1.3 SAFETY AUDIT

No safety audits to date.

# 1.4 MISCELLANEOUS SAFETY

No notable safety issues

# 2. COMPLIANCE, FLOWS AND LOADINGS

#### 2.1 COMPLIANCE

The finished water quality was within regulatory limits and all Bacteriological testing was completed for the month of April. A copy of the Operations Report to the Illinois Environmental Protection Agency (IEPA) is available on the SSWC website.

## 2.2 INFLUENT FLOWS AND LOADINGS

The total gallons pumped from the well field were 39.339 MG. The influent parameters were all within the normal range.

The influent flow and loadings are summarized below in Table 2.2

		Tab	le 2.2 Infl	uent Conce	entrations a	and Flow		
	рН	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Well Flow Gals (MGD).
Max.	7.3	14.8	5.86	.696	-	380	320	1.821
Min.	6.8	13.0	.46	.156	ı	320	300	.330
Avg.	6.99	13.6	1.40	.238	ı	363	305	1.311
Total	1	-	-	-	ı	-	-	39.339

## 2.3 EFFLUENT CONCENTRATIONS

The facility filtered 35.773~MG during the month with a daily average of 1.192~MG and a min/max.931/1.424~MG.

				Table	2.3 Fir	nished Wat	er Qualit	у		
	Free CL2	Total CL2	рН	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	0.14	3.94	7.8		0.02	0.058	.91	140	320	1.99
Min.	0.05	3.10	7.3		0.01	0.004	0.40	100	290	.76
Avg.	0.09	3.49	7.5		0.01	0.028	0.70	110	303	1.71
MCL	-	-	ı	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

# Finished Water Flow Comparison for FY 2023-24

Time Period	23-24	22-23	21-22
May 2023- April 2024	406,598,196	424,556,785	419,606,220
Increase for the same per	iod last year	-17.96 MG	4.95MG

	2023-24	2022 22				
		2022-23	2021-22	2020-21	2019-20	2018-19
May	43,484,155	37,459,417	35,932,776	34,673,848	33,045,927	33,304,196
June	22,455,176	38,496,145	37,616,256	17,414,377	33,460,303	34,040,000
July	41,565,811	38,861,790	39,001,640	44,237,066	23,742,374	41,178,722
Aug	39,770,720	36,977,913	39,953,900	39,638,063	25,018,633	35,176,238
Sept	38,677,420	32,355,302	38,935,839	38,674,095	34,234,782	34,754,000
Oct	32,733,224	29,576,287	34,918,955	34,597,739	30,769,238	30,353,482
Nov	30,061,570	35,563,717	31,181,005	32,325,040	30,877,400	30,464,000
Dec	31,818,986	30,450,255	31,391,459	31,582,311	29,703,954	31,930,000
Jan	33,807,516	37,721,005	32,322,270	31,456,987	30,073,516	28,823,375
Feb	29,777,768	33,481,076	32,451,653	30,638,842	28,797,693	28,625,431
Mar	31,222,925	36,781,261	33,909,417	33,633,244	30,339,298	31,237,000
Apr	31,707,537	36,832,617	31,991,050	33,214,211	31,542,650	28,418,249
Totals	406,598,196	424,556,785	419,606,220	402,085,823	361,605,768	388,304,693
Avg	1.11 MGD	1.16 MGD	1.15 MGD	1.10 MGD	.988 MGD	1.06 MGD

# 2.4 LAGOON DISCHARGE CONCENTRATIONS

The results for the NPDES lagoon discharge permit are summarized below.

**Table 2.4 Weekly Grab Sample Analysis Results** 

	I	_agoon Eff	luent Results	<b>3</b>		
Date	Fe (mg/l)	Mn (mg/l)	Chloride (mg/l)	Cl <sup>2</sup> (mg/l)	pH (S.U.)	TSS (mg/l)
April 2nd, 2024						
Minimum	.12	.117	245.6	.02	7.6	<4
Maximum	.12	.117	245.6	.02	7.6	<4
Average	.12	.117	245.6	.02	7.6	<4
Monthly Avg Limit	2.000	1.000				15
Daily Limit	4.000	2.000	500	0.05	6.0-9.0	30

The Chloride sample for the month, performed by the Springfield Metropolitan Sanitary District, was below 30,000 mg/l for the month of April 2024. The limit for chloride discharge to the sanitary district is 30,000 mg/L.

# 3. OPERATIONS

## 3.1 EVENTS IMPACTING OPERATIONS

There were over 50 incident that impacted the operation of the plant.

Ion exchange alarm

Westech filters comm loss

Power surge

Power Sag

**Power Outages** 

Ion Exchange Brine Pump

Well Comm loss

Train #2 Failure

#### 3.2 EMERGENCY & SERVICE CALLS

#### **Service Calls:**

• There was 0 emergency call out for the month.

#### 3.3 EMERGENCY CALL-OUTS

There was 1 emergency call out for the month.

## 3.4 CUSTOMER INQUIRIE

There were numerous customer inquiries.

#### OTHER WORK PERFORMED

Inspected distribution mains
Inspected booster station
Customer service
Air Compressor Mounting Platform
SCADA programming
Mower Maintenance
New scada computers
Well Cleanings

Well Transducer installation

Well #3 excavating

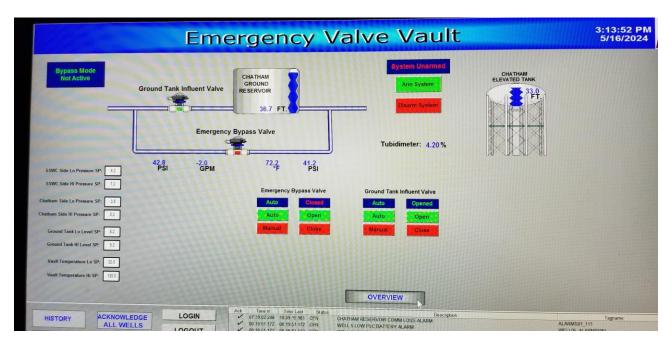
Train #2 Repair



Chatham/SSWC interconnect valve has been installed.



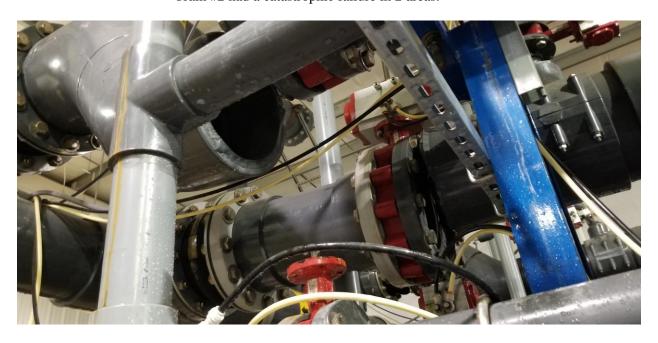
Interconnect turbidimeter has been installed and is operational

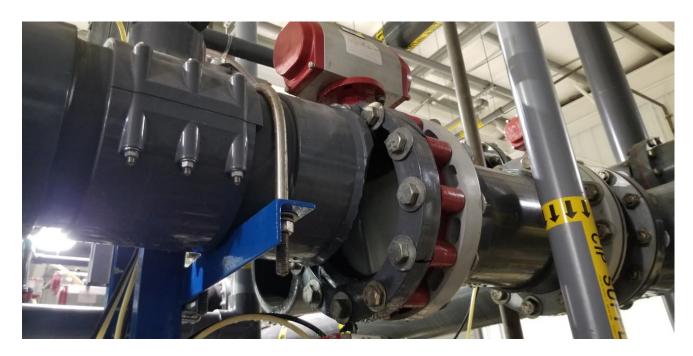


SCADAware has installed the emergency interconnect control screen on SSWCs SCADA. Pre-strartup meeting is forthcoming. The emergency interconnect should be online within a month.



Train #2 had a catastrophic failure in 2 areas.

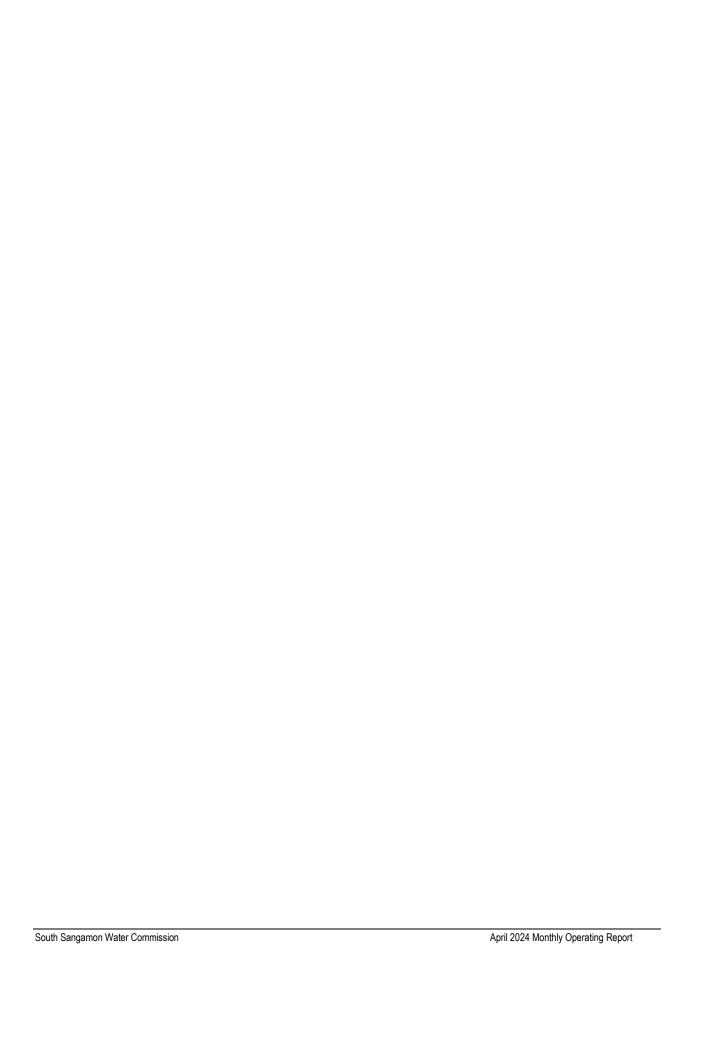




The train #2 failure occurred on both the inlet and outlet side .



Noticed an intermittent drop in flow from the well field. Attempted to see if there is a bad check valve.



# 4. MAINTENANCE AND REPAIR

# 4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of April 2024, there were 30 inspections, 3 preventative and multiple corrective maintenance activities completed.

## 4.2 CORRECTIVE REPAIR AND MAINTENANCE

Pulling and cleaning pre filters on all 3 filter trains on weekly basis

CIP train 1,2 and 3

Purged air control system

Air Compressor service

Raw water line flushing

Detention tank flush

Flushing Air Lines

Maintenance of New Berlin Booster Station

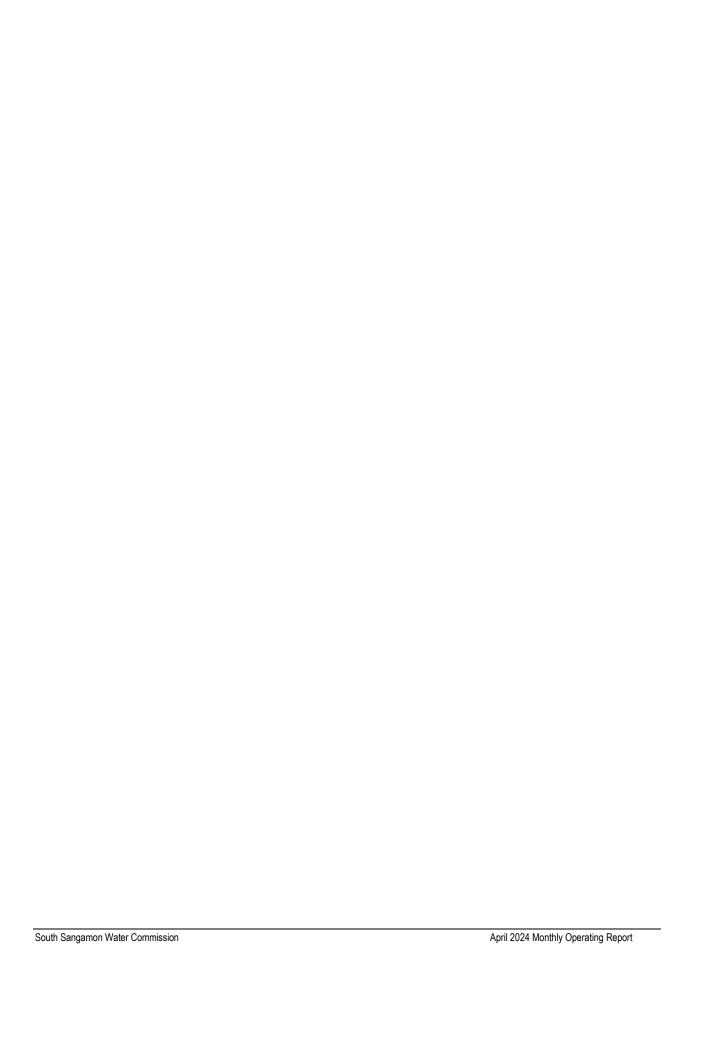
Meter Transmitter Replacement

Air compressor Maintenance

Pneumatic Tank Maintenance

Well #1 Repair

Train #2 Repair



# 5. PROJECT MANAGEMENT & SUPPORT

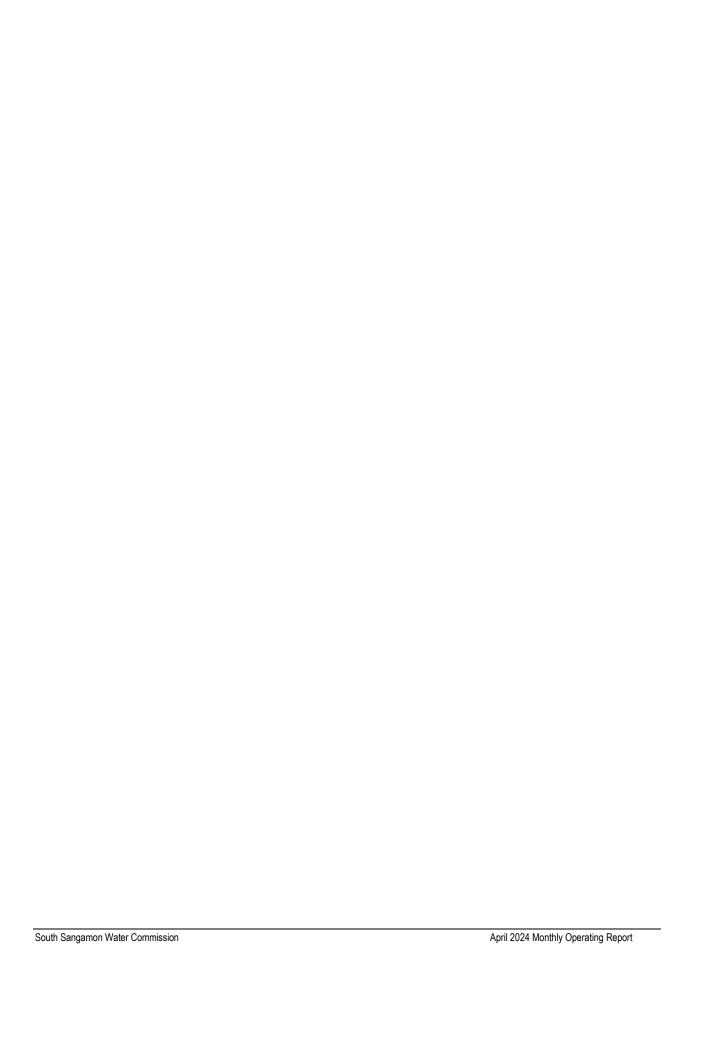
## 5.1 STAFFING & TRAINING

- Staff member training has been continuous and ongoing.
- Operator and Asst. Operator have been studying for EPA licensing test.

# **5.2 OPERATIONAL SUPPORT**

The following individuals, either on-site or remotely, provided assistance in operation and/or maintenance of the plant during the month of March 2024.

- Kevin Canham
- Stephen Bivin
- Katie Krall
- Dan (SCADAware)
- Joe Lee Electric
- Kevin Garmin (SCADAware)



# 5.3 BUDGET

Table 5.3 Operating Budget

# Table 5.3 Budget Table

Budget Table was removed: see clerks report

## 6. CAPITAL PLANNING

#### 6.1 APPROVED CIP PROJECTS CURRENT STATUS

Pigging project construction complete. Awaiting first pigging before completely releasing contractor.

The Chatham /South Sangamon emergency interconnect construction is mostly complete. The valve has arrived and has been installed. SSWC has been coordinating with SCADAware the installation and programming of the interconnect controls.

Meter Project progressing, All meter bases and registers are on site. 31 cell meters have been installed.

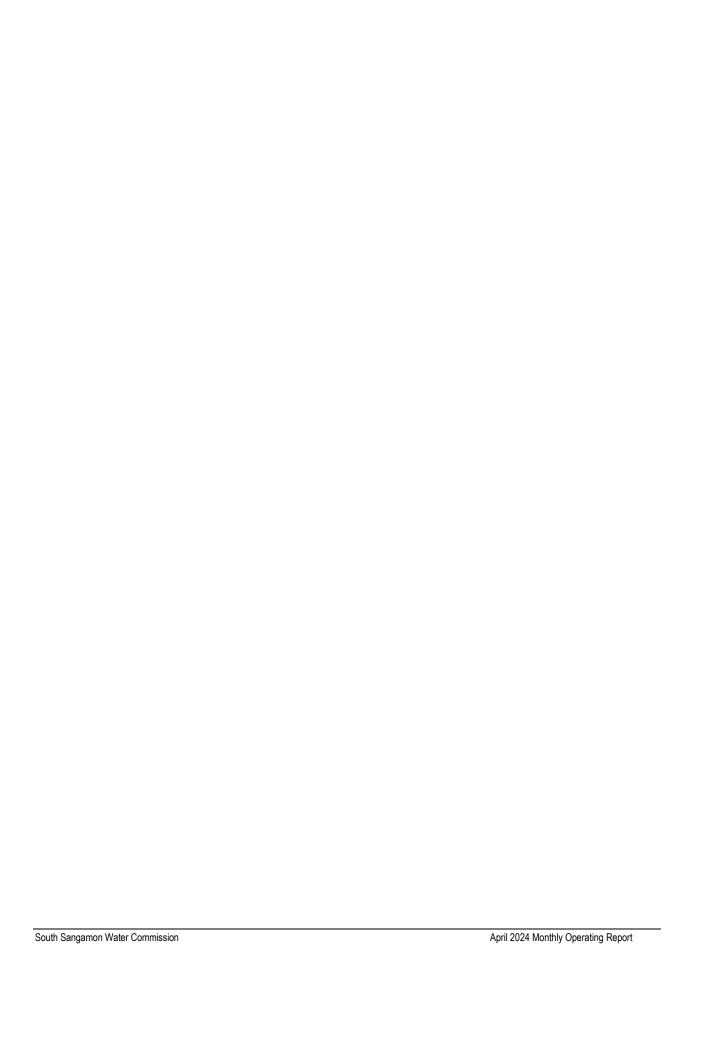
Meco Engineering has provided us with initial plans for well #11. Well #11 construction permit has been approved and has been received at the plant. Flood Plain Permit has been received and is posted. MECO Engineering has been on site and sample wells have been drilled.

#### 6.2 DRAFT CAPITAL IMPROVEMENT PLAN

The CIP is a planning document that includes all projects anticipated to exceed \$5,000 in cost over the next five years. The CIP is an ongoing process and will be refined from time to time as projects are completed and new issues are identified.

- 1. Onsite fuel storage tanks have arrived on site and pumps have been installed-completed
- 2. BOP CPU upgrade has been completed
- 3. Second raw water detention tank
- 4. SSWC/Chatham interconnect
- 5. Well #11

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10   10   11   12   12   12   12   12	$\dashv$	_		7	_	_	$\dagger$	3	ğ	-	-	0.00	4	as NH3	1	- J 90	300 P	3	_	$\perp$		97	$\dashv$	+	_	$\dashv$	-		1		-1
10   10   11   12   12   13   13   13   13   13	1 7:00	_	1.816	1.383	_	_	8500	- 1	0.21	0		_	╝	0.89	32	0.58	_	28	0.0	$\dashv$		$_{\perp}$	$\dashv$	0.085		0.479	4	38.0	33.0	_	32590
10   15.5   14.6   12.0   12.0   10	2 7:00	Ц	1358	1.185		ш	87.0.0		0.21	0			Ц	0.87	27	0.56		38	0.0	Ц	Ш	Ц	$\forall$	9500		Ш	ш	Ц		98.0 4582	2170
10   12   12   12   12   12   12   12	$\neg$	4	99	0.003		_	\$0.00		0.28	0	$\perp$	_	$\perp$	0.77	20	27.0		52	000	1	_	_	$\dagger$	0.051	$\perp$	_	430	41.0	0.04	-	-
10   10   11   12   12   12   12   12	-	$\perp$	1,000	1,238		_	0000	4	270	9 6	1	4	$\perp$	0.68	7 90	77 07	_	7 P	9 6	1	$\perp$	$\perp$	$\dagger$	0.050	$\perp$	$\perp$	0.77	43.0	9	100 2001	10650
10   10   10   10   10   10   10   10	+	⊥	911	0.952		4.	2500	┸	0.29	, 6		┸	⊥	103	255	20	$\perp$	1 -	00	_	┸	┸	$\dagger$	0.043	$\perp$	┸		┸			+
1	+	⊥	1	1.184	_	_	9000	┸	0.20			L	$\perp$	0.72	50	0.63	4	92	00		┸	┸	$\dagger$	0.053	⊥	0.403	34.0	38.0	42.0	-	88
10   10   10   10   10   10   10   10	+	┸	1	1.239		┸	0.088	=	0.18	0		L	L	0.82	52	95.0	4	2	00		L	┸	$\dagger$	9500	L	丄	L		9,8	-	39
15   15   15   15   15   15   15   15	_	L	1.394	1.212	丄	_	87.00	┖	0.22	0	L		L	0.53	30	0.80	9	117	0.0	L		L	$\dagger$	9500		0.420	$\vdash$	3	SP	22.0 4582	2170
1.00   1.00	_	Ц	1.340	1.159	Ш	ш	0000		0.25	0				0.87	35	0.75	- 0	28	0.0		Ш	Ш		9500		0.401	41.0	37.0	<b>39</b>	38.0 8843	3256
1.0   1.0	Н	Ц	1.463	1.278	Ш	Ш	27.00	Ξ	0.18	0		Ц	Ш	080	52	0.40	9	117	0.0		Ш	Ш		0.081	Ц	0.443	Н	16.	40.0	2281	1085
100   11.5   1	$\overline{}$	Ц	1.192	1.072			0.082		0.04	0			Ц	0.87	32	0.72	7 0	28	0.0				$\forall$	0.030		Ц	45.0	420 3	32.0		43400
100   11   11   12   11   12   12   12	-	_	1434	1.225			22000		020	0		_		0.78	30	0.60	- D	24	0.0	$\Box$	_	_	+	0.060		0.424	1	44.0	3	940 482	2170
10   10   11   12   12   13   13   13   13   13	_	$\perp$	1.288	1.108		_	0.452	_	0.24	0 1			$\perp$	0.76	30	G G	~ :	28	90 0	$\perp$		┙	$\dagger$	0.470			$\perp$	4		-	$\rightarrow$
10   12   12   12   12   12   12   12	_	4	1361	1,188	_	_	500	_	970	0 4		_	$\perp$	500	200	0 0	4	20 3	0 0	-	_	_	$\dagger$	0.051	$\perp$	0.412	380	380	SI S	_	43400
15   15   15   15   15   15   15   15	_	┸	1.290	1.192		_	9000	┸	020	0				080	29	0.50	┸	17 P	900		┸	┸	$\dagger$	0.052		0.413	+	38.0	3 03	340 6843	99 39
1.00   1.01	+	L	1.290	1.004		┺	9000	L	030	0	L	L	L	050	38	0.80	L	0.0	0.0		L	┖	t	0.062	L	L	65.0	40.0	38.0	8843	325
1700   1710	+	┖	0.817	1342		_	0.067	┖	0.43	0	L	L	L	0.88	27	1.11	L	35	0.0	┖	L	┖	t	9500	Ļ	┖		$\perp$	39	350 2281	10856
1.00   1.1.5   1.2.0   1.1.0   0.022   1.0.0   0.020	_	Ц	1.200	1.080	Ш		9500	Ш	0.28	0				100	32	0.74	4 0	318	00 0		Ц	Ш	H	0.013		0.374	51.0	43.0 48	45.0 32.0	9124	43400
1.00   18.4   1.25   0.009   1.254   0.005   1.254   0.025   0.025   1.254   0.025	-	Ш	ΙI	1.101	Ш	ш	85.00	Ц	0.24	0		Ц	Ц	0.94	32	0.87	Ш	90	0.0	Ц	Ш	Ц	H	81.0.0	Ш	Ш	29.0	Ц	Ш	$\boldsymbol{\mapsto}$	2170
1.00   1.02	_	4	- 1	1.282	4	_	00030	_	0.23	0	_	_	_	0.82	67 67	2910		AB	000			_	$\dagger$	1100		0.444		_		_	_
1.   1.   1.   1.   1.   1.   1.   1.	_	4	252	1.378	_	_	0.063	_	0.17	5	$\perp$	4	$\perp$	200	27	24		902	000			_	+	0700	4	0.477	_	40.0	37.0	_	4340
1.2   1.2	_	$\perp$	L1.0	1.031	┸	_	500	1	970	9 6	$\perp$	1	$\perp$	71 0	200	1000		77	000	$\perp$	$\perp$	$\perp$	$\dagger$	2100	1	L'D'	400	H	n n	28.5	21700
13   13   13   13   13   13   13   13	_	┸	1,452	1.250		_	0.065	┸	025	, 0	$\perp$	┸	$\perp$	0.84	7 %	90		27	90	┸	┸	┸	$\dagger$	25.00	┸	0.433	320	┸	200		+
12   13   13   13   13   13   13   13	-	L	0.330	1,424	_	_	0.00	┖	3.85	0	000	87 E	L	0.49	24	1.93	~	90	0.0		L	┖	$\dagger$	0.037	_	0.403	42.0	38.0	OSI	885	8
1.00   1.02   1.42   1.30   0.009   1.15   0.009	_		1.313	0.931		Ш	9500		0.18	0				121	23.3	0.68	80	29	0.0					95.00		0.323	_	420	57.0	0.4882	2170
1.00   18.4   1.34   1.01   1.02   1.00   1.7   0.28   0   0.00   1.7   0.28   0   0.00   0   0.00   0   0.00   0	_	Ц	1.488	1.300		Ш	87.0.0		0.21	0	Ц		Ц	0.52	23	0.56		30	0.0				$\parallel$	9500		0.450	38.0	Ц	Ц	$\rightarrow$	$\rightarrow$
12   12   12   12   12   12   12   12	_	$\perp$	1.542	1.304		_	9000	'	026	0	$\perp$	- 1	$\perp$	0.53	_	E C	- 1	20	10 0	$\perp$	$\perp$	$\perp$	$\dagger$	0.053	_	1.652	+	34.0	27.0	150 150 150 150 150 150 150 150 150 150	8658
Name         3.25         3.83.51         3.83.72         3.83	57				_			_	DWG	*		_		BAOM	_	in and the second	_	200	WDe .	1	╝	╝			4	0000	-	1		_	
Wes.         213         1821         1821         1822         1429         0.022         1429         0.022         1429         0.022         1429         0.022         1429         0.022         1429         0.022         1429         0.022         1429         0.022         1429         0.022         1429         0.022         1429         0.022         1429         0.022         1429         0.022         1429         0.022         1429         0.022         <	Total Ave	5235	39339	1.102			2523	_	DMG	9 0		_		#OWO#	_	SOVO.	_	⊥	_			L	40MD		_	┸	E E	308 9	20 2	708 171165	8 813.5
Name         12 Gazil         Control (Included Marchen)	1	0.00	1831	1.00.0		┸	0.400	-	a a a a a a a a a a a a a a a a a a a	0	L	-	L	_	_	- Contraction	_	L	-	L		L	0	0.40	L	L	L		L	_	_
20 % Solden Permitten Backmanh  Noval Shirmer  20 % Solden Permitten Backmanh  Noval Shirmer  20 % Solden Permitten Backmanh  Noval Shirmer  20 % Permitten Backmanh  Noval Shirmer  Noval Shirmer  20 % Permitten Backmanh  Noval Shirmer  Noval Shirmer  Noval Shirmer  20 % Permitten Backmanh  Noval Shirmer	1	0 0	0.00	0.000		┸	2000	_	Tarolin I	3 0	$\perp$	_	⊥	_	_	TOWN.	_	and and	o age	$\perp$		┸	3 6	2000	┸	┸		1	┸	┸	
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20% American Schale Souther Programmer Character American Character Character American Character Character American Character Character American Character C	4 C	S Bauffa	Solution	dia Rodollara		ambrane b	Sackwash		a of China	- lead lead	Stuffer	- Hereschille	Sa 12 6 K		and the same	refer I tonal	M celevi	- 4	901 100		Sharonted	rate to the b	sat of myla	nowledge.	Ilino	do Oriondo	Confiborit		949419000		_
19 % Function Analysis   Post Charmel Chimmel Analysis Used: Hach CL IT (2) &5500xc   Function Analysis Used: Hach 2000, SPACHS malted   33 % Phospitale Solution   Post Charmel   Date Backmale Simple   34 % Phospitale Solution   Post Charmel   Date Backmale Simple   35 % Phospitale Solution   Post Charmel   Date Backmale Simple   36 % Phospitale Solution   Post Charmel   Date Backmale Simple   37 % Phospitale Solution   Post Charmel   Date Backmale Simple   38 % Phospitale Solution   Post Charmel   Date Backmale Simple   39 % Phospitale Solution   Post Charmel   Date Backmale Solution   Date Backmale Simple   30 % Phospitale Solution   Post Charmel   Date Backmale Solution   Date Backmal	1 4	% Ammon	um Sulfat	e Southon		at Softens		e.			1	- distribution	1		and and de	-	and a	-	-		Own		V10/2024			- Company		1			-
THE RESIDENCE AND THE PROPERTY OF THE PROPERTY		% Fluoros	Histo Acid	Solution		od Chama	3 :	5		years Usea	Hach O.	7 (2) & 5500	36	-	horide An	alyzer Used:		SPADNS	melhod		9	0.00		4 600000	Η,	+	+				
- 40% Statistical Legal Efficient	1 4	% South	Solution		Τ	acon Effa	lue lue	$\dagger$	+	+	+	+			t	+	+	+	+	1	480	200	$\mid$	100		1	+	+	+	ļ	1