NPDES Discharge Monitoring Report - Oregon Department of Environmental Quality (p. 1 of 2)

Facility Name	City of Molalla WWTP	**Phone #**	(503)793-5283	**Month/Year**	07/2016
DEQ Permit #	101514	**DEQ File #**	57613	**EPA Reference #**	
Plant Type	Pre aerated lagoons with filtration	**County**	Clackamas	**Population Served**	8820

Operator Certification

Collection System Class	2	**Principal Operator**	Adam Shultz	**Cert. #/Grade**	12190/II
Treatment System Class	3	**Principal Operator**	Jason Clifford	**Cert. #/Grade**	12709/III

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.

Legally Authorized Signature

Date | Jason Clifford (Name)

Su, M, T, W, Th, F, Sa	Day of Month	INFLUENT Temperature	INFLUENT pH	INFLUENT Flow	INFLUENT BOD composite Concentration	INFLUENT BOD composite Loading		INFLUENT TSS composite Concentration	INFLUENT TSS composite Loading	EFFLUENT: REUSE FOR IRRIGATION Temperature	EFFLUENT pH	EFFLUENT Flow	EFFLUENT DO	EFFLUENT BOD Concentration	EFFLUENT BOD % Removal	EFFLUENT BOD Loading	EFFLUENT TSS Concentration	EFFLUENT TSS % Removal	EFFLUENT TSS Loading	EFFLUENT NUTRIENTS Total Kjedahl Nitrogen	EFFLUENT NUTRIENTS Ammonia Nitrogen	EFFLUENT NUTRIENTS NO2 + NO3 Nitrogen-N	EFFLUENT DISINFECTION Chlorine Amount Used	EFFLUENT DISINFECTION Chlorine Total Residual	EFFLUENT DISINFECTION Chlorine % Transmittance	EFFLUENT Turbidity	EFFLUENT COLIFORM MPN E. Coli	EFFLUENT COLIFORM MF Fecal	EFFLUENT COLIFORM MF Total	RECEIVING STREAM Ammonia Nitrogen	RECEIVING STREAM Dilution	RECEIVING STREAM Stream Flow	RECEIVING STREAM Temperature	RECEIVING STREAM pH			DAILY LOG Breakdowns, bypassing, odors, complaints, etc.	Day of Month
			SU	MGD	mg/L	lbs		mg/L	lbs		SU	MGD	mg/L	mg/L		lbs	mg/L		lbs	mg/L	mg/L	mg/L	lbs	mg/L	mg/L	NTU	CFU/100 mL			mg/L		CFS	C	SU				
F	1	19.8	6.8	0.910							7.0	1.226											69	3.5		3.2	0		3									1
Sa	2		6.8	0.663								0.962											108	6.3		5.2	1		3									2
Su	3		6.8	0.900								0.663											52	6.1		6.4											Shut Down Plant	3
M	4		6.8	0.911								0.828											47	6.3		8.4	1		7								Start Up Plant	4
T	5	20.1	6.5	0.897	324	2426		130	969			1.040											69	7.4		8.3	0		2									5
W	6	20.1	6.5	0.87							6.9	1.165											119	4.3		>10.0	0		1									6
Th	7	19.9	6.8	0.847	322	2272		272	1918			1.115											225	8.5		>10.0	0		14									7
F	8	20.1	6.8	0.867							7.3	1.072											98	0.4		>10.0	0		1									8
Sa	9		6.8	1.2560								0.952											98	7.1		>10.0	0		13									9
Su	10		6.8	1.1490								0.428											178	0.3		>10.0											Shut Down Plant	10
M	11	20.2	6.6	1.149								0.781											106	>8.8		6.2	0		0								Start Up Plant	11
T	12	20.1	6.5	1.003	243	2029		198	1656		7.2	1.178											112	>8.8		4.5	0		0									12
W	13	20.2	6.7	0.950								0.830											171	5.8		7.0	0		19									13
Th	14	21.2	6.7	0.907	253	1918		211	1593			1.255											112	6.0		5.9	0		1									14
F	15	20.1	6.6	0.894							7.0	1.344											136	5.3		5.4	0		4									15
Sa	16		6.9	0.872								1.292											127	4.2		5.9	0		TNTC									16
Su	17		6.8	0.885								0.629											29	0.2		2.0											Shut Down Plant	17
M	18	20.4	6.9	0.885								1.008											115	>8.8		9.8	0		20								Start Up Plant	18
T	19	20.6	6.9	0.865	257	1856		206	1487		7.0	1.327											18	4.8		9.2	0		20									19
W	20	20.4	6.9	0.840								1.205											67	6.6		7.5	0		11									20
Th	21	20.7	6.9	0.821	217	1484		213	1456			1.100											45	6.3		6.7	0		3									21
F	22	20.6	7.4	0.819							7.0	1.214											55	7.7		6.4	0		0									22
Sa	23		7.0	0.798								1.069											62	6.3		7.9	0		11									23
Su	24		7.0	0.818								0.573											101	6.4		7.5											Shut Down Plant	24
M	25	20.6	6.8	0.801								0.899											116	>8.8		8.5	0		0								Start Up Plant	25
T	26	21.0	7.0	0.713	334	1989		135	800		6.9	1.287											126	5.4		>10.0	0		23									26
W	27	21.0	6.9	0.734								1.350											134	3.4		>10.0	0		19									27
Th	28	21.1	7.0	0.792	443	2927		507	3350			1.381											126	8.3		6.9	0		1									28
F	29	21.5	6.9	0.773							7.5	1.389											47	6.1		8.2	0		21									29
Sa	30		7.0	0.083								1.294											159	0.3		5.0	0		0								Cl_2 = <DL	30
Su	31		6.9	0.798								0.584											165	0.2		7.1											Shut Down Plant	31
Total				26.465		16901			13227			32.440											3192															
Daily Min		19.8	6.5	0.083	217	1484		130	800		6.9	0.428											18	0.2		2.0	0											
Daily Max		21.5	7.4	1.256	443	2927		507	3350		7.5	1.389											225	>8.8		>10.0	1											
Wkly Avg																																						
Mo Avg		20.5	6.8	0.854	299	2113		234	1653		7.1	1.046											103	4.9		6.6	0		8									
Daily Limits																					25.9					<2.0			23									
Wkly Limits																													2.2									
Mo Limits																					16.7																	

NPDES Discharge Monitoring Report - Oregon Department of Environmental Quality (p. 2 of 2)

Facility Name	Molalla WWTP	**Month/Year**	07/2016	**Laboratory Name:**	**Edge Analytical**
DEQ Permit #	101514	**DEQ File #**	57613	**ORELAP Lab ID#:**	3254/3255

Explanation of permit limit exceedances (include description, cause, and steps taken or plans to reduce, eliminate, or prevent recurrence of noncompliance; attach additional pages if needed):

Did not meet NTU permit limits due to filter repair and media addition. As of 7/28/16 the second leaking mixed media gravity filter was repaired and staff have been installing media in (2) of the filters.

Mail original to:
Oregon DEQ NWR
700 NE Multnomah St. Suite 600
Portland, OR 97232

Notes: *Indicate sample type for TSS, BOD, CBOD, and nutrients and test method for coliform.
*If a sewer system overflow occurs at more than one location, attach an additional report.
*If groundwater monitoring is required, report data in accordance with permit conditions.
*For additional information, refer to: *Oregon DEQ Completing DMRs*

Su, M, T, W, Th, F, Sa	Day of Month	AERATION BASIN						LAGOON OR POLISHING POND						SOLIDS						AEROBIC DIGESTER CELL #1				AEROBIC DIGESTER CELL #2				SEWER SYSTEM OVERFLOW		SEWER SYSTEM BYPASS		RECLAIMED WATER			Rainfall (inches)	Operator(s) Time Onsite (hrs/day)	Day of Month
								Primary Cell			Secondary Cell																	outfall:		outfall:		outfall:					
		MCRT	Sludge Volume Index	MLSS	pH	DO	Clairifier Depth of Blanket	Depth	DO	pH	Depth	DO	pH	TS to Digester	Transported to other WWTF	Quantity Land Applied	% Volatile Solids Reduction	Alkaline Product (insert Type)	Septage Received	% Total Solids	Temperature	pH		VA/Alkalinity	Temperature	pH		Flow	Duration	Flow	Duration	Volume Land Applied	Acres Irrigated	Quantiy Irrigated			
		Days			SU	mg/L	Feet	Feet	mg/L	SU	Feet	mg/L	SU			gal		lbs/gal	gal			SU				SU		gal	hrs	gal	hrs	MGD	acres	in/acre			
F	1					0.22		12.1	0.29		13.1	1.19																							0.00	8	1
Sa	2																																		0.00	4	2
Su	3																																		0.00		3
M	4																																		0.00	8	4
T	5					0.19		12.4	0.41		12.9	0.39																							0.00	8	5
W	6					0.26		12.4	0.32		12.8	4.46																							0.00	8	6
Th	7					0.25		12.3	0.17		12.7	0.73																							0.06	8	7
F	8					0.22		12.4	0.25		12.7	1.82																							0.00	8	8
Sa	9																																		0.50	4	9
Su	10																																		0.50		10
M	11					0.55		12.6	0.27		12.7	0.39																							0.00	8	11
T	12					0.43		12.7	0.21		12.6	0.38																							0.00	8	12
W	13					0.47		12.8	0.21		12.5	0.28																							0.00	8	13
Th	14					0.41		12.5	0.23		12.6	0.62																							0.00	8	14
F	15					0.25		12.4	0.23		12.7	0.43																							0.00	8	15
Sa	16																																		0.00	4	16
Su	17																																		0.00		17
M	18					2.22		11.9	0.23		12.9	2.79																							0.00	8	18
T	19					0.30		12.0	0.23		12.8	0.83																							0.00	8	19
W	20					0.92		12.0	0.34		12.7	0.92																							0.00	8	20
Th	21					0.43		12.0	0.37		12.6	0.43																							0.00	8	21
F	22					21.80		12.1	0.24		12.5	0.85																							0.00	8	22
Sa	23																																		0.00	4	23
Su	24																																		0.00		24
M	25					23.00		12.0	0.20		12.4	0.17																							0.00	10	25
T	26					22.90		12.0	0.21		12.3	0.43																							0.00	10	26
W	27					24.10		12.1	0.18		12.2	0.37																							0.00	10	27
Th	28					22.20		12.1	0.20		12.1	0.24																							0.00	10	28
F	29					21.90		12.2	0.22		11.9	0.22																							0.00	10	29
Sa	30																																		0.00	4	30
Su	31																																		0.00		31
Total																																			**1.06**	**198**	
Daily Min						**0.19**		**11.9**	**0.17**		**11.9**	**0.17**																							**0**	**4**	
Daily Max						**24.10**		**12.8**	**0.41**		**13.1**	**4.46**																							**0.5**	**10**	
Wkly Avg Max																																					
Monthly Avg						**7.2**		**12.3**	**0.25**		**12.6**	**0.90**																							**0.03**	**7.6**	
Daily Limits																																					
Wkly Limits																																					
Monthly Limits																																					

During this reporting period did all monitoring data and sampling frequencies meet permit reqiurements and limits? If "no," explain. [ ] Yes [x] No

During this reporting period were there unanticipated bypasses or upsets which exceeded any effluent limits? If "yes," explain. [ ] Yes [x] No

During this reporting period were there any sewer system overflows? If "yes," explain. [ ] Yes [x] No

Energy	Used	Cost	Comments
Power KWH			
Fuel Gas			
Oil			

Additional Notes (reference attachments here)

RECYCLED WATER USE: City of Molalla

Day	Header FM MGD	Plant total Inches/acre	Nursery MGD	Inches/acre	North Coleman MGD	Inches/acre	South Coleman MGD	inches/acre	Jorgensen MGD	Inches/acre	Cemetary MGD	Inches/acre	Irrigation pump #1 MGD	Total Irrigation, MGD
7/1/2016		0.0		0.000	0.511	0.1	0.510	0.1		0.000	0.205	1.1		**1.226**
7/2/2016		0.0		0.000	0.474	0.1	0.475	0.1		0.000	0.013	0.1		**0.962**
7/3/2016		0.0		0.000	0.332	0.0	0.331	0.1		0.000		0.0		**0.663**
7/4/2016	0.044	0.0		0.000	0.392	0.1	0.392	0.1		0.000		0.0		**0.828**
7/5/2016	0.141	0.1		0.000	0.448	0.1	0.448	0.1		0.000	0.004	0.0		**1.040**
7/6/2016	0.111	0.1		0.000	0.316	0.0	0.316	0.1		0.000	0.422	2.2		**1.165**
7/7/2016		0.0		0.000	0.576	0.1	0.575	0.1		0.000		0.0		**1.151**
7/8/2016		0.0		0.000	0.434	0.1	0.435	0.1		0.000	0.203	1.1		**1.072**
7/9/2016		0.0		0.000	0.476	0.1	0.476	0.1		0.000		0.0		**0.952**
7/10/2016		0.0		0.000	0.214	0.0	0.214	0.0		0.000		0.0		**0.428**
7/11/2016		0.0		0.000	0.314	0.0	0.314	0.1		0.000	0.153	0.8		**0.781**
7/12/2016		0.0		0.000	0.469	0.1	0.468	0.1		0.000	0.241	1.3		**1.178**
7/13/2016		0.0		0.000	0.306	0.0	0.307	0.1		0.000	0.215	1.1		**0.828**
7/14/2016		0.0		0.000	0.537	0.1	0.537	0.1		0.000	0.181	1.0		**1.255**
7/15/2016		0.0		0.000	0.490	0.1	0.490	0.1		0.000	0.364	1.9		**1.344**
7/16/2016		0.0		0.000	0.646	0.1	0.646	0.1		0.000		0.0		**1.292**
7/17/2016		0.0		0.000	0.315	0.0	0.314	0.1		0.000		0.0		**0.629**
7/18/2016	0.071	0.1		0.000	0.468	0.1	0.469	0.1		0.000		0.0		**1.008**
7/19/2016	0.092	0.1		0.000	0.514	0.1	0.514	0.1		0.000	0.207	1.1		**1.327**
7/20/2016	0.046	0.0		0.000	0.576	0.1	0.576	0.1		0.000	0.007	0.0		**1.205**
7/21/2016		0.0		0.000	0.550	0.1	0.550	0.1		0.000		0.0		**1.100**
7/22/2016		0.0		0.000	0.607	0.1	0.607	0.1		0.000		0.0		**1.214**
7/23/2016		0.0		0.000	0.534	0.1	0.535	0.1		0.000		0.0		**1.069**
7/24/2016		0.0		0.000	0.286	0.0	0.284	0.1		0.000		0.0		**0.570**
7/25/2016		0.0		0.000	0.449	0.1	0.448	0.1		0.000		0.0		**0.897**
7/26/2016		0.0		0.000	0.643	0.1	0.644	0.1		0.000		0.0		**1.287**
7/27/2016		0.0		0.000	0.675	0.1	0.675	0.1		0.000		0.0		**1.350**
7/28/2016		0.0		0.000	0.690	0.1	0.691	0.1		0.000		0.0		**1.381**
7/29/2016		0.0		0.000	0.695	0.1	0.694	0.2		0.000		0.0		**1.389**
7/30/2016		0.0		0.000	0.647	0.1	0.647	0.1		0.000		0.0		**1.294**
7/31/2016		0.0		0.000	0.292	0.0	0.292	0.1		0.000		0.0		**0.584**
TOTAL	**0.504**	**0.5**	**0.000**	**0.0**	**14.876**	**2.0**	**14.9**	**3.2**	**0.000**	**0.0**	**2.215**	**11.7**	**0.000**	**32.469**
MAX	**0.141**		**0.000**		**0.695**		**0.7**		**0.000**		**0.422**		**0.000**	**1.389**
MIN	**0.044**		**0.000**		**0.214**		**0.2**		**0.000**		**0.004**		**0.000**	**0.428**
AVG	**0.084**	**0.0**	**#DIV/0!**	**0.0**	**0.480**	**0.1**	**0.5**	**0.1**	**#DIV/0!**	**0.0**	**0.185**	**0.4**	**#DIV/0!**	**1.047**
PERMIT #	**101514**													
FILE #	**57613**													

NPDES Discharge Monitoring Report - Oregon Department of Environmental Quality (p. 1 of 2)

Facility Name	City of Molalla STP	**Phone #**	(503) 829-5407	**Month/Year**	07/2015
DEQ Permit #	101514	**DEQ File #**	57613	**EPA Reference #**	
Plant Type	Pre aerated lagoons with filtration	**County**	Clackamas	**Population Served**	8820

Operator Certification

Collection System Class	2	**Principal Operator**	Adam Shultz	**Cert. #/Grade**	12190/II
Treatment System Class	3	**Principal Operator**	Jason Clifford	**Cert. #/Grade**	12709/III

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.

Legally Authorized Signature

Jason Clifford

Date Name

Su, M, T, W, Th, F, Sa	Day of Month	INFLUENT Temperature	INFLUENT pH	INFLUENT Flow	INFLUENT BOD composite Concentration	INFLUENT BOD composite Loading	INFLUENT CBOD	INFLUENT TSS composite Concentration	INFLUENT TSS composite Loading	EFFLUENT Temperature	EFFLUENT pH	EFFLUENT Flow	EFFLUENT DO	EFFLUENT BOD Concentration	EFFLUENT BOD % Removal	EFFLUENT BOD Loading	EFFLUENT TSS Concentration	EFFLUENT TSS % Removal	EFFLUENT TSS Loading	EFFLUENT NUTRIENTS Total Kjedahl Nitrogen	EFFLUENT NUTRIENTS Ammonia Nitrogen	EFFLUENT NUTRIENTS NO2 + NO3 Nitrogen-N	EFFLUENT NUTRIENTS Total Phosphorous	EFFLUENT Total Dissolved Solids	EFFLUENT DISINFECTION Chlorine Amount Used	EFFLUENT DISINFECTION Chlorine Total Residual	EFFLUENT % Transmittance	EFFLUENT Turbidity	EFFLUENT COLIFORM MPN E. Coli	EFFLUENT COLIFORM Fecal	EFFLUENT COLIFORM MF Total	RECEIVING STREAM Ammonia Nitrogen	RECEIVING STREAM Dilution	RECEIVING STREAM Stream Flow	RECEIVING STREAM Temperature	RECEIVING STREAM pH			DAILY LOG Breakdowns, bypassing, odors, complaints, etc.	Day of Month
			SU	MGD	mg/L	lbs	mg/L	mg/L	lbs		SU	MGD	mg/L	mg/L		lbs	mg/L		lbs	mg/L	mg/L	mg/L	mg/L	mg/L	lbs	mg/L		NTU	CFU/100 mL			mg/L		CFS	C	SU				
F	1																																								1
Sa	2																																								2
Su	3																																								3
M	4																																								4
T	5																																								5
W	6																																								6
Th	7																																								7
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W	27																																								27
Th	28																																								28
F	29																																								29
Sa	30																																								30
Su	31																																							Cl_2 = <DL	31
Total																																								Total	
Daily Min																																								Daily Minimum	
Daily Max																																								Daily Maximum	
Wkly Avg Max																																								Weekly Average Maximum	
Mo Avg																														1										Monthly Average	
Daily Limits										18°	6.0-9.0					320			320		25.9					0.18	2	406		23								Daily Limits	
Wkly Limits														15		240	15		240											2.2			>350					Weekly Limits	
Mo Limits														10	>85%	160	10	>85%	160		16.7					0.07		126										Monthly Limits	