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**	09/2016
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**	13017/IV

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

10/5/2016 — 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 %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	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				
Th	1	21.9	6.9	0.748	301	1880		348	2172			1.383											61	6.2		2.87	0		2									1
F	2	22.0	7.0	0.757							7.0	1.033											67	3.7		1.91	0		3									2
Sa	3		6.9	0.730								0.345											15	2.2		2.02											Shut Down Plant	3
Su	4		6.9	0.727								0.000											0	0.0		0.00												4
M	5		6.9	0.789								0.000											0	0.0		0.00												5
T	6	21.9	7.0	0.793	404	2670		450	2977		7.2	1.094											66	7.5		2.01	0		0								Start Plant	6
W	7	21.9	6.9	0.753								1.429											158	4.4		1.08	0		20									7
Th	8	21.9	6.9	0.738	273	1682		272	1673			1.452											65	>8.8		1.80	0		0									8
F	9	21.8	6.9	0.722							7.1	1.646											23	4.0		1.72	0		15									9
Sa	10		6.9	0.750								0.805											58	1.7		1.44											Shut Down Plant	10
Su	11		7.0	0.779								0.000											0	0.0		0.00												11
M	12	21.7	6.9	0.748								1.147											33	>8.8		1.79	0		0								Start Plant	12
T	13	21.7	6.8	0.719	430	2578		435	2608		7.1	1.594											84	3.4		1.42	0		20									13
W	14	21.5	6.9	0.724								1.611								7.13	10.7	7.63	90	6.6		1.50	0		8									14
Th	15	20.9	7.0	0.719	319	1914		347	2081			1.406											117	7.7		1.20	0		2									15
F	16	21.8	6.9	0.715							6.9	1.309											76	3.5		1.62	0		17									16
Sa	17		6.8	1.126								0.420											80	1.7		1.63											Shut Down Plant	17
Su	18		6.8	1.183								0.000											0	0.0		0.00												18
M	19	21.4	6.9	0.932								0.623											80	>8.8		1.65	0		2								Start Plant	19
T	20	21.3	6.8	0.838	257	1793		237	1656		7.1	1.078											40	>8.8		1.72	0		0									20
W	21	21.2	7.0	0.813								0.944											161	>8.8		1.70	0		1									21
Th	22	21.3	7.1	0.835	227	1580		203	1413			1.029											48	>8.8		1.87	0		1									22
F	23	21.3	7.1	0.800							6.9	0.819											119	3.8		1.62											Shut Down Plant	23
Sa	24		7.0	0.807								0.000											0	0.0		0.00												24
Su	25		7.0	0.842								0.000											0	0.0		0.00												25
M	26	21.1	7.0	0.811								0.000											0	0.0		0.00											Started Land Application (Mt. Hope Road)	26
T	27	20.8	7.0	0.786	407	2668		369	2422		7.0	0.000											0	0.0		0.00												27
W	28	20.9	7.1	0.775								0.786											50	>8.8		1.39	0		18								Land Application Ended, Start Plant @ 1300	28
Th	29	20.7	7.0	0.756	400	2524		383	2412			0.281											83	7.1		2.51	0		5								Shut Down Plant @ 1700, Backwash Pump oos	29
F	30	20.9	7.1	0.732							7.0	0.900											92	>8.8		2.60	0		3								Start Plant	30
Total				23.947		19288			19413			23.134											1666														Cl_2 = <DL	
Daily Min		20.7	6.8	0.715	227	1580		203	1413		6.9	0.000								7.13	10.7	7.63	0	0		0	0		0									
Daily Max		22.0	7.1	1.183	430	2670		450	2977		7.2	1.646								7.13	10.7	7.63	161	>8.8		2.87	0		20									
Wkly Avg																																						
Mo Avg		21.4	6.9	0.798	335	2143		338	2157		7.0	0.771								7.13	10.7	7.63	56	2.9		1.30	0		7									
Daily Limits											**6.0-9.0**										**25.9**					**<2**			**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**	09/2016	**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 limits for (5) days; 9/1, 9/3, 9/6, 9/29, 9/30.

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			
Th	1					0.29		9.8	0.25		10.8	1.25																							0.00	10	1
F	2					0.30		9.8	0.26		10.7	2.89																							0.00	10	2
Sa	3																																		0.25	2	3
Su	4																																		0.00	2	4
M	5																																		0.10	4	5
T	6					0.21		9.8	0.24		11.0	6.13																							0.00	10	6
W	7					0.34		9.8	6.91		10.8	1.62																							0.00	10	7
Th	8					0.37		9.5	0.28		10.9	4.13																							0.00	10	8
F	9					0.30		9.3	0.26		11.0	1.01																							0.00	10	9
Sa	10																																		0.00	2	10
Su	11																																		0.00	2	11
M	12					0.27		8.4	0.57		11.5	5.09																							0.00	10	12
T	13					0.54		8.5	0.23		11.1	11.57																							0.00	10	13
W	14					0.52		8.7	0.24		10.9	1.06																							0.00	10	14
Th	15					0.43		8.9	0.14		10.5	3.50																							0.00	10	15
F	16					0.29		9.0	0.18		10.2	0.20																							0.00	10	16
Sa	17																																		1.00	2	17
Su	18																																		0.30	2	18
M	19					0.70		9.8	0.37		10.1	3.39																							0.00	10	19
T	20					0.29		9.6	0.41		10.3	2.32																							0.00	10	20
W	21					0.36		9.2	0.12		10.5	4.68																							0.00	10	21
Th	22					0.30		9.0	0.18		10.6	3.69																							0.05	10	22
F	23					0.49		8.7	0.19		10.7	1.77																							0.00	17	23
Sa	24																																		0.00	3	24
Su	25																																		0.00	2	25
M	26					20.2		8.7	4.31		11.1	0.12																							0.00	10	26
T	27					20.2		9.2	0.14		10.9	0.35																							0.00	10	27
W	28					20.5		9.5	0.09		10.8	6.36																							0.00	10	28
Th	29					20.2		9.6	0.25		10.7	0.51																							0.00	10	29
F	30					20.3		9.8			10.6																								0.07	10	30
Total																																			**1.77**	**238**	
Daily Min						**0.21**		**8.4**	**0.09**		**10.1**	**0.12**																							**0**	**2**	
Daily Max						**20.5**		**9.8**	**6.91**		**11.5**	**11.57**																							**1**	**17**	
Wkly Avg Max																																					
Monthly Avg						**5.11**		**9.3**	**0.78**		**10.7**	**3.08**																							**0**	**8**	
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 ☒ No

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

During this reporting period were there any sewer system overflows? If "yes," explain. ☐ Yes ☒ No

Energy	Used	Cost	Comments
Power KWH			
Fuel Gas			
Oil			

Additional Notes (reference attachments here)

REUSE: 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	WWTP Irrigation pump #1 MGD	Total Irr. MGD
9/1/2016		0.0		0.0	0.691	0.1	0.692	0.1		0.0		0.0		1.383
9/2/2016		0.0		0.0	0.517	0.1	0.516	0.1		0.0		0.0		1.033
9/3/2016		0.0		0.0	0.172	0.0	0.173	0.0		0.0		0.0		0.345
9/4/2016		0.0		0.0		0.0		0.0		0.0		0.0		0.000
9/5/2016		0.0		0.0		0.0		0.0		0.0		0.0		0.000
9/6/2016		0.0		0.0	0.547	0.1	0.547	0.1		0.0		0.0		1.094
9/7/2016		0.0		0.0	0.714	0.1	0.715	0.2		0.0		0.0		1.429
9/8/2016		0.0		0.0	0.726	0.1	0.726	0.2		0.0		0.0		1.452
9/9/2016		0.0		0.0	0.823	0.1	0.823	0.2		0.0		0.0		1.646
9/10/2016		0.0		0.0	0.403	0.1	0.402	0.1		0.0		0.0		0.805
9/11/2016		0.0		0.0		0.0		0.0		0.0		0.0		0.000
9/12/2016		0.0		0.0	0.573	0.1	0.574	0.1		0.0		0.0		1.147
9/13/2016		0.0		0.0	0.797	0.1	0.797	0.2		0.0		0.0		1.594
9/14/2016		0.0		0.0	0.806	0.1	0.805	0.2		0.0		0.0		1.611
9/15/2016		0.0		0.0	0.703	0.1	0.703	0.2		0.0		0.0		1.406
9/16/2016		0.0		0.0	0.655	0.1	0.654	0.1		0.0		0.0		1.309
9/17/2016		0.0		0.0	0.210	0.0	0.210	0.0		0.0		0.0		0.420
9/18/2016		0.0		0.0		0.0		0.0		0.0		0.0		0.000
9/19/2016		0.0		0.0	0.311	0.0	0.312	0.1		0.0		0.0		0.623
9/20/2016		0.0		0.0	0.539	0.1	0.539	0.1		0.0		0.0		1.078
9/21/2016		0.0		0.0	0.472	0.1	0.472	0.1		0.0		0.0		0.944
9/22/2016		0.0		0.0	0.515	0.1	0.514	0.1		0.0		0.0		1.029
9/23/2016		0.0		0.0	0.410	0.1	0.409	0.1		0.0		0.0		0.819
9/24/2016		0.0		0.0		0.0		0.0		0.0		0.0		0.000
9/25/2016		0.0		0.0		0.0		0.0		0.0		0.0		0.000
9/26/2016		0.0		0.0		0.0		0.0		0.0		0.0		0.000
9/27/2016		0.0		0.0		0.0		0.0		0.0		0.0		0.000
9/28/2016		0.0		0.0	0.393	0.1	0.393	0.1		0.0		0.0		0.786
9/29/2016		0.0		0.0	0.141	0.0	0.140	0.0		0.0		0.0		0.281
9/30/2016		0.0		0.0	0.450	0.1	0.450	0.1		0.0		0.0		0.900
TOTAL	**0.000**	**0.0**	**0.000**	**0.0**	**11.568**	**1.6**	**11.6**	**2.5**	**0.000**	**0.0**	**0.000**	**0.0**	**0.000**	**23.134**
MAX	**0.000**		**0.000**		**0.823**		**0.8**		**0.000**		**0.000**		**0.000**	**1.646**
MIN	**0.000**		**0.000**		**0.141**		**0.1**		**0.000**		**0.000**		**0.000**	**0.000**
AVG	**#DIV/0!**	**0.0**	**#DIV/0!**	**0.0**	**0.526**	**0.1**	**0.5**	**0.1**	**#DIV/0!**	**0.0**	**#DIV/0!**	**0.0**	**#DIV/0!**	**0.771**
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**	09/2016
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 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 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 MPN 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	g	NTU	CFU/100 mL			mg/L		CFS	C	SU				
Th	1																																								1
F	2																																								2
Sa	3																																								3
Su	4																																								4
M	5																																								5
T	6																																								6
W	7																																								7
Th	8																																								8
F	9																																								9
Sa	10																																								10
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F	16																																								16
Sa	17																																								17
Su	18																																								18
M	19																																								19
T	20																																								20
W	21																																								21
Th	22																																								22
F	23																																								23
Sa	24																																								24
Su	25																																								25
M	26																																								26
T	27																																								27
W	28																																								28
Th	29																																								29
F	30																																							Cl_2 = <DL	30
Total																																								Total	
Daily Min																																								Daily Minimum	
Daily Max																																								Daily Maximum	
Wkly Avg Max																																								Weekly Average Maximum	
Mo Avg																																								Monthly Average	
Daily Limits										18º	6.0-9.0					320			320		25.9					25.9		2			23								Daily Limits	
Wkly Limits														15		240			240												2.2			>350					Weekly Limits	
Mo Limits														10	>85%	160		>85%	160		16.7					0.07			126										Monthly Limits	