

Issue Code:	PMS
Date of Issue:	06/10/2013
Originator:	Owen Rea
Authorised by:	



Mogeely Waste Water Treatment Plant

Operational Report For October 2013

DATE	DESCRIPTION	REV. No.	APPROVED BY	ISSUED BY
21/1/13	Initial Issue	0	Barry O'Toole	Owen Rea

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1. Introduction

This report covers the period of October 2013 for the operation of Mogeely Waste Water Treatment Plant by EPS on behalf of Cork County Council.

EPS commenced the operate contract for the Mogeely WWTP on 20th May 2013.

This is the 6th report submitted to client since commencement of operations by EPS.

The format of this report conforms to the requirements of the PMS for WWTP.

2. Executive Summary

This report summarizes the operation and maintenance, as well as performance, of the treatment plant at Mogeely for the month of October 2013.

	Total	2084	m3/day
	Max	75	m3/day
Inlet Flow	Min	66	m3/day
IIIIet Flow	Ave	69	m3/day
	% DWF	51%	Dill odly
	Ave PE	347	PE/day

			100 201
	Total	2980 🎺	√ 3/day
Outlet Flow	Max	122	[™] m3/day
Outlet Flow	Min	83 🔊	m3/day
	Ave	98	m3/day

	Ave Conc	189.80	mg/l
Biological Loading	Ave Load	13.2	kgBOD/day
Biological Loading	% Design	36.6%	
	Ave PE	219.7	PE/day

0 No.screening bin removed from site during the month.

Routine maintenance is carried out in accordance with the daily and weekly checks.

There were no accidents on site during October.

Plant flows were normal entering the plant during the month.

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Analysis

EPS staff performed on-site analysis and an external laboratory performed BOD analysis. The results can be summarised as follows:

Average Influent Concentrations:

Parameter	BOD mg/l O2	COD mg/l O2	рН	SS mg/l	Ammonia mg/l	TP- mg/l P
Average	189.80	642.80	7.42	462.80	21.76	9.29

Average Final Effluent Concentrations:

Average Analysis results	4.00	38.40 month s	7.51	18.00	1.40	0.27
Analysis results	s for the	month s				
The plant is ope	erating s	satisfact	showed co	empliance For inst	with the required petitor burner required for the received for the receive	irements of

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3. Graphical Presentation of Data

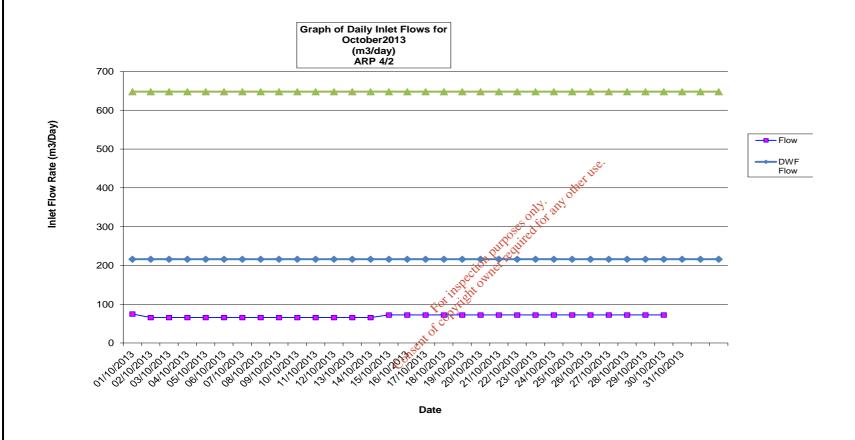
ARP4/1

Table of total daily inlet flows forOctober 2013	
Date	Flow
01/10/2013	75
02/10/2013	66
03/10/2013	66
04/10/2013	66
05/10/2013	66
06/10/2013	66
07/10/2013	66
08/10/2013	66
09/10/2013	66
10/10/2013	66
11/10/2013	66
12/10/2013	66
13/10/2013	66
14/10/2013	66, 15° 72 10° 10° 10° 10° 10° 10° 10° 10° 10° 10
15/10/2013	₹2
16/10/2013	att att 72
17/10/2013	ر بخ کو
18/10/2013	110 110° 72
19/10/2013	72 72 red 72
20/10/2013	odit wiet 72
21/10/2013	115 H
22/10/2013	72
23/10/2013	72
24/10/2013	72
24/10/2013 25/10/2013 26/10/2013	72
26/10/2013	72
27/10/2013	72
28/10/2013	72
29/10/2013	72
30/10/2013	72

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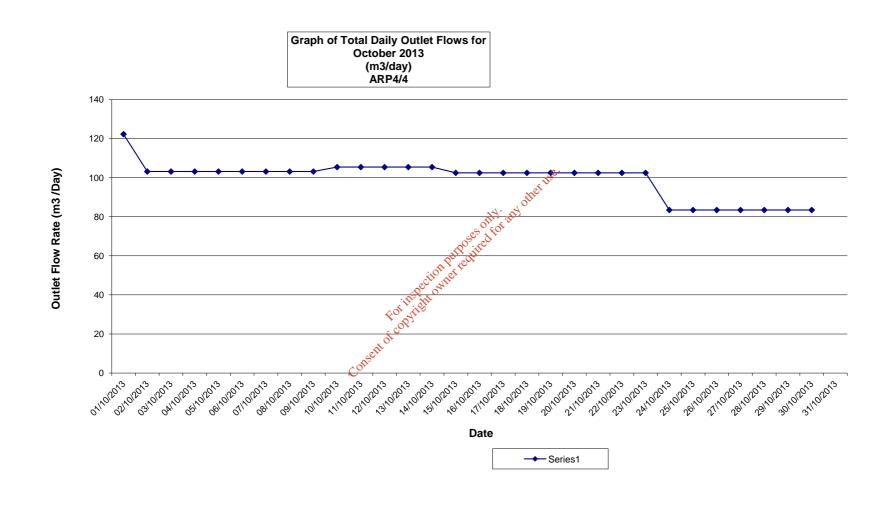
ARP4/3

Table of total daily outlet flows for October 2013		
	Outlet Flow (m ³)	
01/10/2013	122	
02/10/2013	103	
03/10/2013	103	
04/10/2013	103	
05/10/2013	103	
06/10/2013	103	
07/10/2013	103	
08/10/2013	103	
09/10/2013	103	
10/10/2013	105	
11/10/2013	105	
12/10/2013	105	
13/10/2013	105	
14/10/2013	105	
15/10/2013	102 🚜 .	
16/10/2013	102	
17/10/2013	√02	
18/10/2013	on 102	
19/10/2013	26° 102	
20/10/2013	authuite 102	
21/10/2013	102 102 102 102	
22/10/2013	102	
23/10/2013	(iff diff 102	
24/10/2013	83	
25/10/2013	83	
26/10/2013	83	
26/10/2013 26/10/2013 27/10/2013 20/40/2013	83	
28/10/2013	83	
29/10/2013	83	
30/10/2013	83	
31/10/2013		

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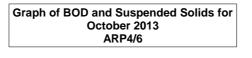
ARP 4/5

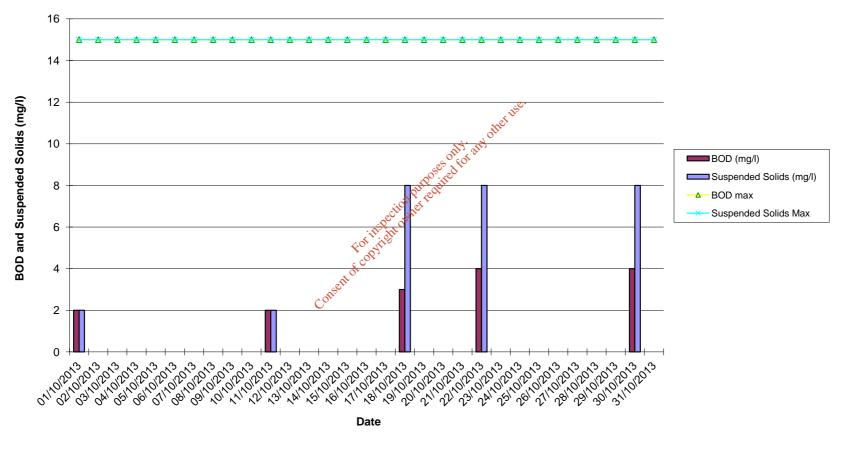
Table of E	BOD & Suspended Solids of Fi	nal Effluent for May 2013
Date	BOD (mg/l)	Suspended Solids (mg/l)
01/10/2013	2	2
02/10/2013		
03/10/2013		
04/10/2013		
05/10/2013		
06/10/2013		
07/10/2013		
08/10/2013		
09/10/2013		
10/10/2013		
11/10/2013	2	2
12/10/2013		
13/10/2013		
14/10/2013		
15/10/2013		.Ø.*
16/10/2013		erlis
17/10/2013		only offer 18
18/10/2013	3	originality 8
19/10/2013		oses of test
20/10/2013		our all
21/10/2013	ation	et
22/10/2013	4 300	8
23/10/2013	cortigit	
24/10/2013	્રે હજે '	
25/10/2013	4 per o	
26/10/2013	~ Otist	
27/10/2013		
28/10/2013		
29/10/2013		
30/10/2013	4	8
31/10/2013		
Average	3.0	5.6

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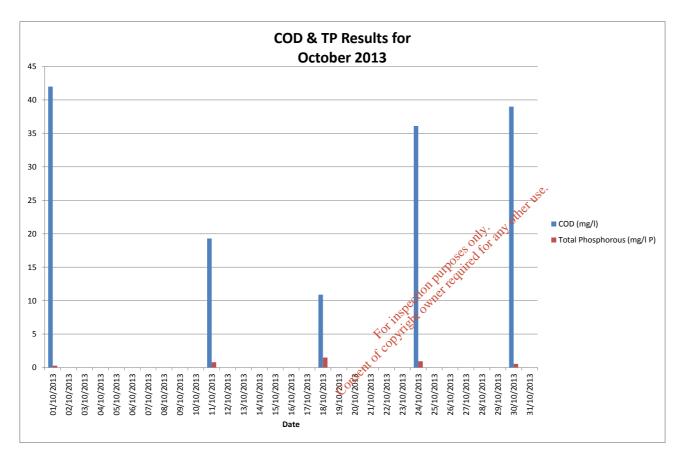
ARP 4/7

Table of total nitrogen, total phosphorous of Final Effluent for May 2013			
Date	COD (mg/l)	Total Phosphorous (mg/l P)	
01/10/2013	42	0.29	
02/10/2013			
03/10/2013			
04/10/2013			
05/10/2013			
06/10/2013			
07/10/2013			
08/10/2013			
09/10/2013			
10/10/2013			
11/10/2013	19.3	0.79	
12/10/2013		at list	
13/10/2013		ses did any dilatu	
14/10/2013		only any	
15/10/2013		Sep 3 to	
16/10/2013		our duite	
17/10/2013		on et re	
18/10/2013	10.9	one 1.5	
19/10/2013	cor it igh		
20/10/2013	CORY		
21/10/2013	ator		
22/10/2013	A OTISE !		
23/10/2013	G		
24/10/2013	36.1	0.95	
25/10/2013			
26/10/2013			
27/10/2013			
28/10/2013			
29/10/2013			
30/10/2013	39	0.55	
31/10/2013			

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4. Comments on Analysis Results

Please refer to Section 2: Executive Summary for results

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5. Process Operational Changes

ARP6

AKFU				
	Process Operational Change Record			
Date	Description of Process Operational Change	Purpose of Process Operational Change	Implemented by	
01/10/2010	Calrifier cleaned, screen cleaned, manual wasting done	Routine maintenance	R Morrisson	
10/10/2013	Calrifier cleaned, screen cleaned, manual wasting done	Routine maintenance	R Morrisson	
24/10/2013	Calrifier cleaned, screen cleaned, manual wasting done	Routine maintenance	R Morrisson	
31/10/2013	Calrifier cleaned, screen cleaned, manual wasting done	Routine maintenance	R Morrisson	
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6. Health & Safety Issues

ARP7/1

Nothing to report this calendar period

ARP7/2

Nothing to report this calendar period

ARP7/3

Plant Manager Owen Rea Nov-13

For Period Oct-13
Site Involved Mogeely WWTP

Category 1: Covers Fatalities and major Injuries

Category 2: Covers lost time accident resulting in more than 3 days absence

Category 3: Covers lost time accidents resulting in 3 days absence or less

Major Incident: Accident not covered by categories 1 to 3 $\,$

	Direct Employees						
Number of Employees: Exposure Hours: 2							
	· naplaco						
	Category 1 Category 2 Category 3 Major Incident Near Mis						
Number of		cob,					
Accidents	None	None	None	None	None		
Davis lost	¢ 016	0	0	0	0		
Days lost	\mathcal{C}^0	U	U	U	U		

Direct Employees						
Number of Employees: None Exposure Hours:						
Subcontractors	Subcontractors					
on Site						
	Category 1 Category 2 Category 3 Major Incident Near Mis					
Number of						
Accidents	None	None	None	None	None	
Days lost	0	0	0	0	0	

ARP7/4 INSERTED HERE IF AN ACCIDENT OR INCIDENT HAS OCCUERD (USE PHOTO COPY OF EPS FORM HS002)

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7. Operational Maintenance Issues

ARP8

	Outstanding Operational Maintenance Issues Report					
Snag No.	Dept	Snag Description		Comments	Duration Outstanding	Date Resolved
					High differs	٥٠
					other	
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8. Complaints Register

ARP9

There were no complaints received during this monitoring period.

	Complaints Register				
Date of Complaint	NONE	Complainant's Address:			
Complainant's Name					
Nature of Complaint					
Acknowledgement of Complaint	Author of Acknowledgement		Date Sent		
Cause of Complaint		ું જે	d. and other		
Action taken to Resolve cause of Complaint:		section purposes of			
Final Outcome Report	Author of Final Qui	come Report	Date Forwarded to Local Authority		
	Cotr				

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9. Equipment Calibration Records

ARP16

	Equipment Calibration Record					
Date	Equipment Description	Serial No.	Calibrated By (Name & Company)	Next Calib. Due	Calib. Cert Recd.	Comment
	•					
15/10/2013	DO probe		R Morrisson	01/11/2013		
	•					
				Redited to		
					1150	
					other	
				ज्यात्र, वर	8	
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10. Waste & Sludge Disposal Records

ARP 19/1

			Outgoing S	Sludge Record			
Batch No.	Date	Destination of Product	Type of Product	Quantity of Product (Qty. Skips)	Contact at Destination	Certificate of Origin/Delivery	Receipt received after Delivery
					_		

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11. Analysis Results for Raw Influent, Settled Sewage & Final Effluent

ARP20

					Analysis Re	sults for	Raw I	 nfluent	, Settl	ed Se	ewage &	Mixed	Liqu	or				
			Ra	aw Influent		Final Effluent						Mixed Liquor				Food /		
Date	BOD mg/l O ₂	COD mg/I O ₂	рН	SS mg/l	Ammonia mg/l	TP mg/l P	BOD mg/l O ₂	COD mg/l O ₂	рН	SS mg/l	Ammonia	TP mg/l P	рН	SS mg/l	SSV ml	SVI ml/g	D.O. mg/l O ₂ Per Cell	Mass Ratio
Limits							15	125		375	12	1						
01/10/2013	106	351	7.6	182	21.58	6.5	2	42	7.64	(19)	1	0.29		1250				
11/10/2013	54	215	7.35	134	19.7	3.55	2	19.3	₹09°	2	0.5	0.79		1502				
18/10/2013	157	1143	7.31	1150	22.8	13	3	10.9	₹.4	8	0.2	1.5		1684				
22/10/2013	119	521	7.2	370	19	12	4	36.10		8	0.1	0.95		1446				
30/10/2011	513	984	7.66	478	25.7	11.4	4,00	339	7.8	8	0.4	0.55		820				
Average	189.80	642.80	7.42	462.80	21.76	9.29	3.00	29.46	7.40	5.60	0.44	0.82		1340.40				
							of cos.											
						ell												
Parameter	BOD mg/l O2	mg/l O2	рН	SS mg/l	Ammonia mg/l	mg/l P												
Average	189.80	642.80	7.42	462.80	21.76	9.29												
Parameter	BOD mg/l O2	COD mg/l O2	рН	SS mg/l	Ammonia mg/l	TP- mg/l P												
Average	3.00	29.46	7.40	5.60	0.44	0.82												

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