

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



Mogeely Waste Water Treatment Plant

Operational Report
For
September 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 September 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 20<sup>th</sup> May 2013.

This is the 5<sup>th</sup> 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 September 2013.

	Total	2258	m3/day
Inlet Flow	Max	75	m3/day
	Min	70	m3/day
	Ave	73	m3/day
	% DWF	54%	2 Pilitodo
	Ave PE	364	PE/day
			50°0°

			100 100
Outlet Flow	Total	3405 🎺	√ 3/day
	Max	127	<sup>™</sup> m3/day
	Min	99 🔊	m3/day
	Ave	1,1,4	m3/day

Biological Loading	Ave Conc	192.50	mg/l
	Ave Load	14.0	kgBOD/day
	% Design	39.0%	
	Ave PE	233.7	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 September.

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	192.50	500.00	7.52	387.00	21.97	20.88

#### **Average Final Effluent Concentrations:**

Parameter	BOD mg/l O2	COD mg/l O2	рН	SS mg/l	Ammonia mg/l	TP- mg/l P
Average	4.00	38.40	7.51	18.00	1.40	0.27

Analysis results for the month showed compliance with the requirements of the contract

The plant is operating satisfactorily

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## 3. Graphical Presentation of Data

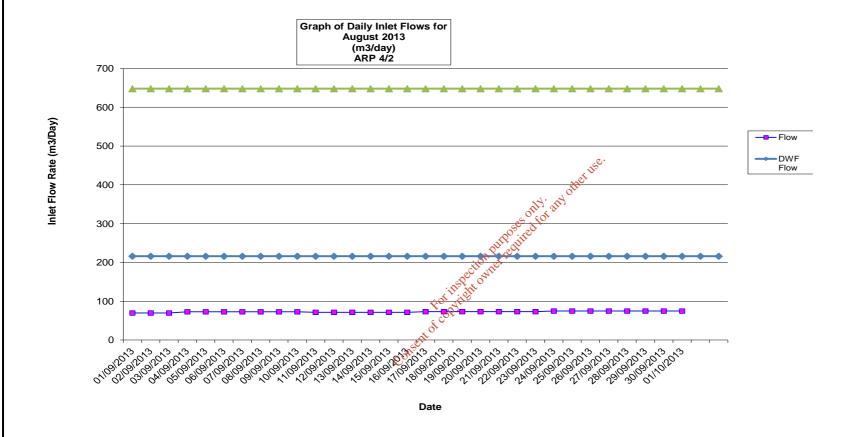
ARP4/1

Table of total daily inlet flows forSeptember 2013		
Date	Flow	
01/09/2013	70	
02/09/2013	70	
03/09/2013	70	
04/09/2013	73	
05/09/2013	73	
06/09/2013	73	
07/09/2013	73	
08/09/2013	73	
09/09/2013	73	
10/09/2013	73	
11/09/2013	72	
12/09/2013	72	
13/09/2013	72	
14/09/2013	72	
15/09/2013	72	
16/09/2013	72 🖋	
17/09/2013	73	
18/09/2013	<sub>34</sub> . 3373	
19/09/2013	201801 73	
20/09/2013	73	
21/09/2013	73	
22/09/2013	cito ret 73	
23/09/2013	73	
24/09/2013	of 1,100 75	
25/09/2013	<u>75</u>	
26/09/2013	75	
27/09/2013	75	
28/09/2013	75	
29/09/2013	75	
30/09/2013	75	

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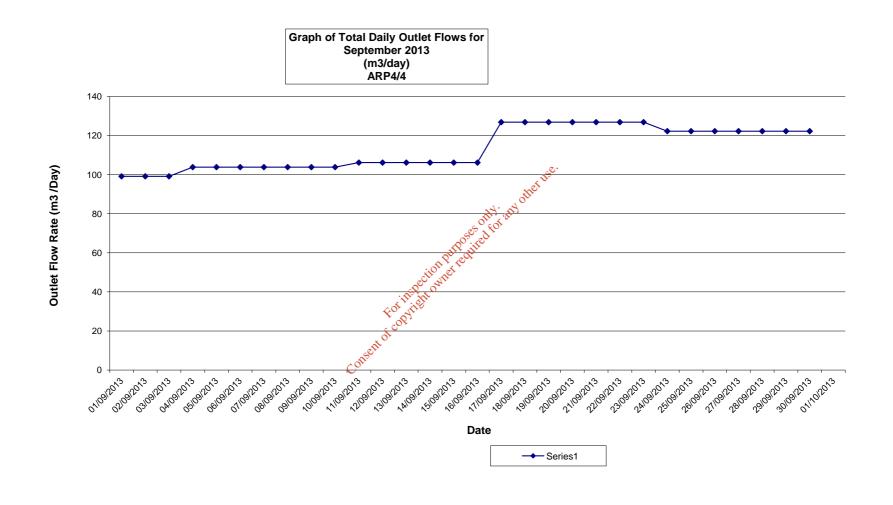
## ARP4/3

Table of total daily outlet flows for September 2013		
	Outlet Flow (m <sup>3</sup> )	
01/09/2013	99	
02/09/2013	99	
03/09/2013	99	
04/09/2013	104	
05/09/2013	104	
06/09/2013	104	
07/09/2013	104	
08/09/2013	104	
09/09/2013	104	
10/09/2013	104	
11/09/2013	106	
12/09/2013	106	
13/09/2013	106	
14/09/2013	106	
15/09/2013	106 <u>«</u> ·	
16/09/2013	106	
17/09/2013	d27	
18/09/2013	ुर्होर्षे वर्षे 127	
19/09/2013	127	
20/09/2013	auflediff 127	
21/09/2013	127 127 127 127	
22/09/2013	127	
23/09/2013	<u>iff. dit</u> 127	
24/09/2013	122	
25/09/2013	122	
26/09/2013	122	
26/09/2013 27/09/2013 27/09/2013	122	
28/09/2013	122	
29/09/2013	122	
30/09/2013	122	
01/10/2013		

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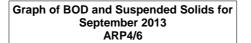
## ARP 4/5

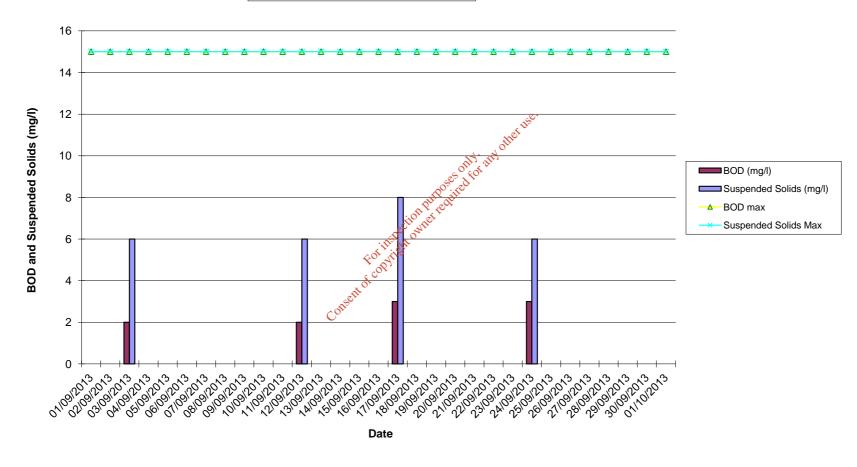
Table of BOD & Suspended Solids of Final Effluent for May 2013		
Date	BOD (mg/l)	Suspended Solids (mg/l)
01/09/2013		
02/09/2013		
03/09/2013	2	6
04/09/2013		
05/09/2013		
06/09/2013		
07/09/2013		
08/09/2013		
09/09/2013		
10/09/2013		
11/09/2013		
12/09/2013	2	6
13/09/2013		
14/09/2013		
15/09/2013		
16/09/2013		Series of the stand of the stan
17/09/2013	3	thet 8
18/09/2013		24. 204
19/09/2013		as of total
20/09/2013		os ited
21/09/2013	n Pi	edi
22/09/2013	ectionies	
23/09/2013	install out	
24/09/2013	3 Fot Miles	6
25/09/2013	3 FOLYTHE	
26/09/2013	~	
27/09/2013	Cutter	
28/09/2013	***************************************	
29/09/2013		
30/09/2013		
01/10/2013		
Average	2.5	6.5

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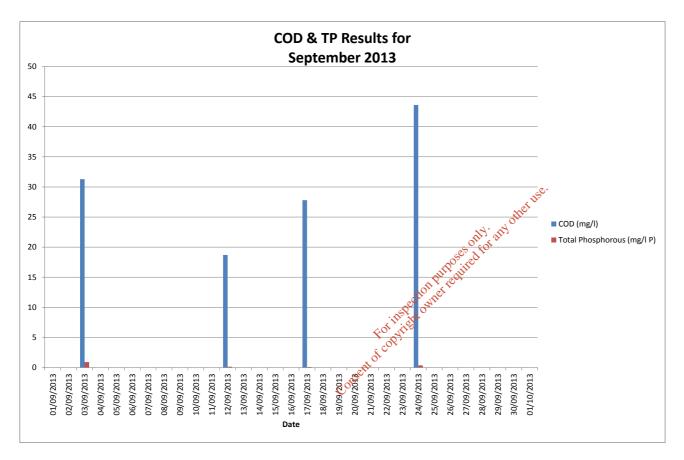
## ARP 4/7

Γable of total ι	nitrogen, total phos May 20	phorous of Final Effluent fo
Date	COD (mg/l)	Total Phosphorous (mg/l P)
01/09/2013		
02/09/2013		
03/09/2013	31.3	0.9
04/09/2013		
05/09/2013		
06/09/2013		
07/09/2013		
08/09/2013		
09/09/2013		
10/09/2013		
11/09/2013		
12/09/2013	18.7	0.14
13/09/2013		Other and other the
14/09/2013		74. VA
15/09/2013		Anticopies of to any
16/09/2013		do ited
17/09/2013	27.8	0.09
18/09/2013	ctio	Net 0.00
19/09/2013	in the late of	
20/09/2013	For will	
21/09/2013	£ cov.	
22/09/2013	ent	
23/09/2013	COUSE	
24/09/2013	43.6	0.37
25/09/2013	•	
26/09/2013		
27/09/2013	•	
28/09/2013		
29/09/2013		
30/09/2013		
01/10/2013		

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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

Process Operational Change Record			
	Description of Process	Purpose of Process Operational	Implemented
Date	Operational Change	Change	by
03/09/2013	Calrifier cleaned	Routine maintenance	R Morrisson
12/09/2013	Screen cleaned	Routine maintenance	R Morrisson
17/09/2013	Screen and screen cleared	Routine maintenance	R Morrisson
24/09/2013	Screen cleared	Routine maintenance	R Morrisson
		<u></u>	
		Tel V	
		of other	
		Cally, and	
		Se Jiv	
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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

## Health & Safety Statistics Report Oct-13

Plant Manager Owen Rea For Period Sep-13 Site Involved Mogeely WWTP

For Period	Sep-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 Em	ployees		
Number of Emp	loyees:	cito	£xposure H	ours:	20
		:15900			
	Category 1	Category 2	Category 3	Major Incident	Near Miss
Number of		EOS.			
Accidents	None	None	None	None	None
Days lost	Ç00	0	0	0	0

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

ED HERE IF AN ACCIDENT OR INCIDENT HAS OCCUERD (US 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
					J	
				Silon Parity See South	15e.	
					ather	
				ally.	and C	
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				Our Chile		
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			17.50	Tr. O. A.		
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			Ser COV			
		40	Service			
		C.				

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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		offy,	any other		
Action taken to Resolve cause of Complaint:		ction purpose onthe contraction of the contraction			
Final Outcome Report	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Date Forwarded to Local Authority		
	Consess				

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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
	Docompaion		(Hamb a Company)	240	110001	
17/09/2013	DO probe		R Morrisson	01/10/2013		
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				14.04		
				Solfoid		
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## 10. Waste & Sludge Disposal Records

ARP 19/1

	Outgoing Sludge Record								
Batch No.	Batch No. Date Destination of Product 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	nfluen	t. Sett	ed Se	wage &	Mixed	Liau	or				
	Raw Influent					Final Effluent					Mixed Liquor					Food /		
Date	BOD mg/l O <sub>2</sub>	COD mg/I O <sub>2</sub>	рН	SS mg/l	Ammonia mg/l	TP mg/l P	BOD mg/l O <sub>2</sub>	COD mg/l O <sub>2</sub>	pН	SS mg/le	Ammonia mg/l	TP mg/l P	рН	SS mg/l	SSV ml	SVI ml/g	D.O. mg/l O <sub>2</sub> Per Cell	Mass Ratio
Limits							15	125	34.	d)15	12	1						
03/09/2013	136	892	7.83	386		12.5	2	31.3	<sub>5</sub> 7.85	6		0.9		1886				
12/09/2013	255	172	7.25	580	21.8	60	2	18,70	₹.09	6	0.8	0.14		1726				
17/09/2013	177	430	7.21	260	22.8	4.5	3	27.80	7.17	8	0.2	0.09		1598				
24/09/2013	202	506	7.8	322	21.3	6.5	3	43.6	7.6	6	0.1	0.37		1978				
							asper c	h										
Average	192.50	500.00	7.52	387.00	21.97	20.88	2.50	30.35	7.43	6.50	0.37	0.38		1797.00				
						200 C	26,											
						NO1												
Parameter	BOD mg/l O2	mg/l O2	рН	SS mg/l	Ammonia mg/l	mg/l P												
Average	192.50	500.00	7.52	387.00	21.97	20.88												
Parameter	BOD mg/l O2	COD mg/l O2	рН	SS mg/l	Ammonia mg/l	TP- mg/l P												
Average	2.50	30.35	7.43	6.50	0.37	0.38												

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