



**SOUTH LONDON
WASTE PARTNERSHIP**

South London Waste Partnership Joint Committee Agenda

**Tuesday 2 April at 6:30pm
Merton Civic Centre**

Membership

London Borough of Croydon

Councillor Stuart Collins – Deputy Leader and Cabinet Member for Clean Green Croydon

Councillor Stuart King – Cabinet Member for Environment, Transport & Regeneration (Job Share)

Substitutes: Councillors Muhammad Ali and Nina Degrad

Royal Borough of Kingston upon Thames

Councillor Hilary Gander - Portfolio Holder for Environment & Sustainable Transport

Councillor Liz Green – Leader of the Council

Substitutes: Councillors Dave Ryder-Mills and Malcolm Self

London Borough of Merton

Councillor Martin Whelton - Cabinet Member for Regeneration, Housing and Transport

Councillor Mike Brunt - Cabinet Member for Environment & Street Cleanliness

Substitutes: Councillors Mark Allison and Nick Draper

London Borough of Sutton

Councillor Manuel Abellan - Chair of the Environment and Neighbourhood Committee

Councillor Richard Clare – Vice-Chair of the Environment and Neighbourhood Committee

Substitute: Councillor Steve Penneck

This is a public meeting and attendance by the public is encouraged and welcomed. For more information about the agenda or to submit a question (by 12pm on the day before the meeting) please contact democratic.services@merton.gov.uk or telephone [0208 545 3357](tel:0208 545 3357).

All Press contacts: communications@merton.gov.uk, 020 8545 3181

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South London Waste Partnership Joint Committee Agenda

2 April 2019

- 1 Welcome and Introductions
- 2 Apologies for Absence
- 3 Declarations of Interest
- 4 Minutes of the Previous Meeting 1 - 4
- 5 Phase A & B Contract Management Report 5 - 14
- 6 Budget Update Month 11 2018/19 15 - 16
- 7 Communications and Engagement 17 - 44
- 8 Risk Report 45 - 48
- 9 Meeting Dates 2019/20
To confirm the following meeting dates for 2019/20:

Tuesday 17 September 2019, Tuesday 17 December 2019,
Tuesday 21 April 2020 and Tuesday 16 June 2020
(The meetings will be held at Croydon Council)
- 10 Any Urgent Business
- 11 Date of the Next Meeting
*The next meeting will be held on Tuesday 18 June 2019 at
6.30pm at Merton Civic Offices.*

Note on declarations of interest

Members are advised to declare any Disclosable Pecuniary Interest in any matter to be considered at the meeting. If a pecuniary interest is declared they should withdraw from the meeting room during the whole of the consideration of that matter and must not participate in any vote on that matter. If members consider they should not participate because of a non-pecuniary interest which may give rise to a perception of bias, they should declare this, withdraw and not participate in consideration of the item. For further advice please speak with the Assistant Director of Corporate Governance.

Agenda Item 4

All minutes are draft until agreed at the next meeting of the committee/panel. To find out the date of the next meeting please check the calendar of events at your local library or online at www.merton.gov.uk/committee.

SOUTH LONDON WASTE PARTNERSHIP JOINT COMMITTEE

4 DECEMBER 2018

(6.33 pm - 7.27 pm)

PRESENT

London Borough of Croydon

Councillor Stuart Collins – Deputy Leader and Cabinet Member for Clean Green Croydon

Councillor Stuart King – Cabinet Member for Environment, Transport and Regeneration (Job Share)

Royal Borough of Kingston Upon Thames

Councillor Liz Green – Leader of the Council

Councillor Hilary Gander – Portfolio Holder for Environment and Sustainable Transport

London Borough of Merton

Councillor Mike Brunt – Cabinet Member for Environment and Street Cleanliness

Councillor Martin Whelton – Cabinet Member for Regeneration Housing and Transport

London Borough of Sutton

Councillor Manuel Abellan – Chair of the Environment and Neighbourhood Committee

Councillor Richard Clare – Vice-Chair of the Environment and Neighbourhood Committee

1 WELCOME AND INTRODUCTIONS (Agenda Item 1)

The Chair welcomed all present.

2 APOLOGIES FOR ABSENCE (Agenda Item 2)

There were no apologies for absence.

3 DECLARATIONS OF INTEREST (Agenda Item 3)

There were no declarations of interest.

4 MINUTES OF THE PREVIOUS MEETING (Agenda Item 4)

RESOLVED: That the minutes of the meeting held on 11 September 2018 were signed and agreed as an accurate record of the meeting.

5 PHASE A & B CONTRACT REPORT (Agenda Item 5)

The Contract Manager presented the report.

It was highlighted under Contract 1:

- There had been a reduction of 109,000 tonnes of residual waste, which was a 3.2% decrease on the 2017 tonnages.

- There were no issues to report.

Contract 2:

- Surveys for all sites reported customer satisfaction levels of above the 80% target.
- Queue times were improving.
- There was a reduced performance compared to 2017 which was due in part to the reduction of green waste tonnages due to the dry weather during the Summer.
- The Household Reuse and Recycling Centres (HRRCs) at Garth Road and Kimpton Park Way had not met the 70% recycling performance target, with Garth Road having seen a reduction of 10%. Kimpton had a 4% reduction of residual waste however that had been offset by the 17% reduction in green garden waste.
- Trials were currently being run by Veolia in relation to separating paper and card and on rigid plastics.

Contract 3 was operating well with no issues.

In regards to Phase B (Construction of the Energy Recovery Facility) the Contract Manager advised that the facility had passed the majority of commissioning tests and there were currently no issues to report.

Members raised that they would like to see more re-use, particularly in relation to electrical goods and this would be more effective if it was co-ordinated as a partnership and possibly online to encourage residents to reuse items more and undertook to discuss this further.

In response to member questions, the Contract Manager advised that the ERF remained in the commissioning process and this is expected to be completed at the end of 2018 or early 2019.

RESOLVED: that members noted the contents of the report and commented on any aspects of the performance of the Partnerships Phase A and B contracts.

6 SOUTH LONDON WASTE PARTNERSHIP BUDGET UPDATE (Agenda Item 6)

The Finance Officer presented the report, noting that there were no variations to report as the forecast remained as per the budget.

In response to member questions, the Finance Officer advised that actual figures varied from the forecast due to Boroughs recharging each other, however there was nothing to indicate that there would be an underspend.

RESOLVED: that the report was noted.

7 DRAFT 2019/20 BUDGET (Agenda Item 7)

The Strategic Partnership Manager presented the report, advising that an increase of £61,200 was proposed, which included a planned resident survey and an increase in staffing costs due to incremental pay increases and borough pay provisions. A potential new post is being proposed which would include strategy and commissioning work and this was currently pending approval from the boroughs. The post is accounted for in the budget and means we will have a reduced dependency on external advisors, reducing our costs in that area.

The Communications Advisor responded in response to further questions that in terms of the proposed resident survey work, this would be the 4th survey that the Partnership has undertaken and that these were scientifically robust surveys and the proposed costs were in line with previous surveys.

RESOLVED: That the Final proposed budget for the core activities of the Partnership as set out in 2.1 was agreed.

8 COMMUNICATIONS UPDATE (Agenda Item 8)

The Communications Advisor presented the report, advising that the results of the Plastic Planet Campaign had been positive, particularly in Merton where the cost had been 3p per 10-second view of the Facebook videos, with the other Boroughs at 4p per 10-second view, showing that the campaign had performed well.

The Communications Advisor presented the next campaign idea which, following feedback from previous meetings of the Committee, was in relation to where recycling is taken after collection and what happens to the materials once they have been collected. This would be in the form of a short film with 10-second trailers posted on social media.

The Communications Advisor noted that the trial at Villiers Road and Kimpton Park Way HRRCs requesting that vans and other larger vehicles register prior to visiting the sites had gone live the previous day (3.12.18) and that this was being monitored closely.

The Communications Advisor advised that members of the Committee had visited the Beddington ERF on 7 November 2018 and had a Q&A session with a representative from the Environment Agency. The main focus is currently on preparing the Beddington ERF Virtual Visitor Centre which will be launched in the coming weeks.

Members noted that communications needed to be promoted in each Borough and that there needed to be more communication on textiles and where these could be taken. Members also requested that in relation to emissions from the ERF, a comparable example was included with the figures to help members of the public understand the equivalent levels.

Members welcomed the short film ideas and requested ways in which they could promote it once it had been completed as well as requesting notification of any targets for the campaign.

RESOLVED: That the Committee noted the contents of the report and commented on any aspects of communications and engagement activities relating to the Phase A and B contracts.

9 RISK REPORT (Agenda Item 9)

The Strategic Partnership Manager presented the report and gave an overview of the main risks detailed within the report, advising that all risks were being closely monitored.

RESOLVED: That the report was noted.

10 ANY URGENT BUSINESS (Agenda Item 10)

There was no urgent business.

11 DATE OF THE NEXT MEETING (Agenda Item 11)

The next meeting will be held on Tuesday 2 April 2019 at 6.30pm at Merton Civic Offices.

Signed:
Chair

Date:



Report to: South London Waste Partnership (SLWP)
Joint Waste Committee

Date: April 2018

Report of: SLWP Management Group

Author(s):
Andrea Keys, Contract Manager

Chair of the Meeting:
Councillor Brunt, Chair SLWP Joint Waste Committee

Report title:
Phase A & B Contract Management Report

Summary:
This report provides Joint Waste Committee with an update on the performance of the three Phase A Contracts applicable to the South London Waste Partnership:

- Contract 1 - Transport and Residual Waste management
- Contract 2 - HRRC services - HRRC site management and material recycling
- Contract 3 - Marketing of recyclates and treatment of green and food waste

This report provides performance data for the period 1st October 2018 until 31st December 2018.

This report also provides Joint Waste Committee with an update on the Phase B Contract.

Recommendations:
Joint Waste Committee is asked to note the contents of this report, and comment on any aspects of the performance of the Partnership's Phase A & B contracts.

Background Documents:
Contract Performance Monitoring updates have been presented to the Joint Waste Committee since 22 July 2010. The most recent reports were presented at the meeting in December 2018 by the Contract Manager, Andrea Keys.

PHASE A BACKGROUND

- 1.1.** Contract 1 is operated by Viridor Waste Management Ltd and includes the bulk haulage of material and the disposal of residual waste. NB The disposal element of this contract will cease during quarter four at which point residual waste will be managed through the 2012 Residual Waste Treatment Contract (known as “Phase B”).
- 1.2.** Contract 2, the HRRC service is operated by Veolia (ES) (UK) Ltd. The contract commenced on the 1st October 2015 and includes the management of the 6 Partnership HRRC sites in addition to the marketing of recyclates collected at each of the sites.
- 1.3.** Contract 3 is operated by Viridor and includes the marketing of recyclates and the treatment of garden and food waste.
- 1.4.** The London Boroughs of Croydon, Sutton and Merton direct deliver kerbside collected residual, garden and food waste into the Beddington site, operated by Viridor. Up to 20,000 tonnes of recycling also continue to be delivered to Beddington with the remaining recyclates now being managed by the collections contractor Veolia.
- 1.5.** The Royal Borough of Kingston (RBK) direct delivers kerbside collected residual, garden and food waste as well as recyclates into the Kingston Villiers Road Waste Transfer Station (WTS). Viridor operate Villiers WTS and related bulk haulage services on behalf of RBK under Contract 1.

2. PERFORMANCE DETAIL

2.1. Contract 1: Transport and Residual Waste Management (Viridor Waste Management Limited)

- 2.1.1.** In the first three quarters of this financial year, the Partnership managed just under 160,000 tonnes of residual waste, approximately 100,000 tonnes through Contract 1 and 60,000 tonnes as commissioning waste through Phase B. The partnership has seen a 3.5% drop in residual waste delivered to Viridor year to date (5,743 tonnes) when the data is compared to the same period last year. Please see Appendix A table 1a for further detail.
- 2.1.2.** Landfill Diversion: Viridor has diverted just under 83,000 tonnes of residual waste from landfill via ERF in the first three quarters of this financial year. This equates to a 52% diversion from landfill for the Partnership. Viridor have direction on which boroughs’ waste is diverted to ERF, largely determined by the location and capacity at the facility receiving the waste. Please see Appendix A table 1b for further tonnage data.
- 2.1.3.** The Contract is operating effectively. There were no major operational or performance issues, no formal complaints were reported, and there were no KPI failures reported under Contract 1.

- 2.2. Contract 2: Management of the Household Reuse and Recycling Centres (Veolia (ES) (UK) Ltd)**
- 2.2.1.** Contract Management: the scope of the HRRC services can be summarised in three parts: the general management of the sites including staffing, plant, equipment, and site layouts; the transportation of materials; and the recycling, treatment, and/or disposal of waste collected at the HRRC sites (excluding garden and residual waste).
- 2.2.2.** HRRC Site Reconfigurations: upgrades have been completed at all sites. SLWP is also in discussions with Veolia with regard to further improvements at the Villiers Road and Factory lane sites following ongoing reviews, and so further work may take place at these sites in due course.
- 2.2.3.** The contract specification focuses on three key performance categories; site user experience, health and safety, and material recycling.
- 2.2.4.** Site user experience: Veolia started customer satisfaction surveys in July 2016 to monitor site user experience. Customer satisfaction questionnaires are undertaken for two weeks at the six sites in turn for each round, table 2a of Appendix A details the dates for each round. Table 2b summarises the top 8 general comments made by customers at the end of the questionnaire.
- 2.2.5.** The Contract requires customer satisfaction levels of 80% and above at each of the sites and all results have remained above this contract target. The key questions are detailed in tables 2c, d, e and f of Appendix A, and a full list of responses, split-out by borough, will be made available on-line via the SLWP website following a request by Members at the last Joint Waste Committee meeting.
- 2.2.6.** Recycling Performance: Table 3a of Appendix A details the recycling performance by site, by month, and a year to date average – please note the year to date average is based on the raw tonnage data, not an average of the recycling performance per month.
- 2.2.7.** Total recycling across the SLWP HRRC sites year to date is 67% compared to 70% reported for quarter 3 last year. There are a number of small changes that have resulted in this drop in recycling. Two key issues are: a 9% drop in garden waste tonnes received at the HRRCs, and market issues with rigid plastic and mattress (equivalent to 3.6% recycling across the HRRCs).
- 2.2.8.** All sites are down on their performance last year. Villiers, Factory, and Fishers have all achieved a reduction in residual waste and total site tonnage, but this is outweighed by low green waste and high mattress and rigid plastic tonnes. The Croydon sites combined have achieved 68% and Villiers 72%. Kimpton and Garth have seen the most significant drop in recycling.

- 2.2.9.** Garth Road achieved a 65% recycling rate for the reporting period, and this drop is largely due to a 12% increase in residual waste combined with an 8% drop in garden waste. The rigid plastic and mattresses are currently not being recycled due to depressed markets, and these two materials would have increased the Garth Road recycling rate to 68%. It is also useful to note that a higher proportion of green waste is now collected at the kerbside in Merton – in 2017 47% of green waste was collected at the kerbside, compared with 51% in 2018.
- 2.2.10.** Kimpton HRRC has achieved a 64% recycling rate for the reporting period. The site saw a 5% drop in residual waste, and a 6% drop in total site tonnage, however this improvement is outweighed in part by a 16% drop in garden waste, assumed to be in part due to an increase in green waste collected at the kerbside (27% of total garden waste in the borough was collected at the HRRC site in 2018, compared with 30% in 2017).
- 2.2.11.** Table 3b in Appendix A uses data specifically from the reporting period October to December from the last three years in order to compare performance year to date. The blue bar shows the recycling performance for the current year to date and the orange bar shows recycling performance at the same time last year. The green dotted line and the text in this graph show last years end of year recycling performance for each site.
- 2.2.12.** A ‘van and large vehicle’ pilot scheme is being trialed at Kimpton and Villiers and started on 3rd December. The aim of the pilot scheme is to trial a way to tackle the illegal use of the sites by rogue traders by capping the annual number of visits for these vehicle types to 12. A wider clamp down on traders across all the sites has resulted in a 17% drop in rubble, which equates to a saving for the boroughs of over £30,000.
- 2.2.13.** Generally, across all sites, increasingly stringent quality requirements for recyclates and depressed markets are challenging and have a negative impact on recycling rates. Recycling rigid plastics and mattresses would have increased the SLWP recycling rate by 4%, so there is renewed focus on sourcing an outlet for these materials. The contractor continues to segregate these materials to ensure we have tonnage data and can respond quickly to any market changes.

Contract 3 – Materials Recycling Services, Composting, and additional treatment services (Viridor Waste Management Limited)

- 2.2.14.** Green waste is delivered to the Viridor Beddington facility where it is bulked and hauled off-site for treatment in the following facilities: KPS Isfield and Pease Pottage, Woodhorn Runcton and Tangmere, Tamar Beddingham and Swanley, and Birch Airfield.
- 2.2.15.** The green waste is processed in order to produce a BSI PAS100 compost product. Green waste tonnage data for quarter 2 by borough can be found in Appendix A table 4a.

- 2.2.16.** Food waste is delivered to either the Beddington facility or the Villiers Road Transfer Station facility. From both sites the food is transferred by Viridor to the Agrivert Trumps Farm Anaerobic Digestion (AD) facility located in Surrey. The Agrivert facility produces a BSI PAS 110 compost product. There are no performance issues with this element of the Contract 3 service. Appendix A table 4b contains further food waste information.
- 2.2.17.** A large proportion of the recyclates collected at the kerbside are now processed under the SLWP collections contract. Comingled recyclates that are still handled under contract 3 are delivered to the Viridor Beddington facility and material meeting the input specification is then transferred to the Viridor Materials Recycling Facility (MRF) located in Crayford. Contamination remains an issue and work is on-going at each of the boroughs to manage and reduce contamination and bring the material back within the specification. Please refer to Appendix A table 4c.
- 2.2.18.** The twin stream recyclates collected by Kingston are delivered to the Villiers Road Waste Transfer Station under Contract 1 and transferred by Viridor to the RBK recycling material processing contract with Veolia.

3. PHASE B UPDATE

3.1. Background

- 3.1.1.** Viridor South London Limited ('Viridor') was formally awarded a contract for the treatment and disposal of residual waste in November 2012. The Contract involves Viridor designing, building and operating an Energy Recovery Facility (ERF) which will remain in its ownership and through which it will dispose of municipal residual waste arising in the South London Waste Partnership area.
- 3.1.2.** The contract includes the appointment of an Independent Certifier (IC), a technically competent and qualified advisor, whose role is to ensure that the facility is able to pass a series of tests which demonstrate the facility has been built to specification. The IC is independent of the boroughs, Viridor and the construction contractors.
- 3.1.3.** Full planning consent was granted for the Construction of the ERF in March 2014, the Judicial Review concluded on the 28th April 2015, following which Viridor confirmed that Satisfactory Planning, free from legal challenge, was achieved on the 1st June 2015.
- 3.1.4.** Financial close took place on 9th June 2015, at which point the Sterling Euro exchange rate for the construction capital was agreed and fixed, in addition, the construction indexation was also fixed. Following the agreement of the variable rates detailed above, an updated base case Financial Model was agreed by all parties and the model was locked. Completion of the financial close stage provided a revised and more beneficial ERF gate fee for the Partnership.

- 3.2.1. Notice to Proceed (NTP) was issued by Viridor to their engineering, procurement and construction (EPC) contractors on the 1st July 2015.
- 3.2.2. The EPC contract was a joint venture between CNIM, the technology providers, and Lagan, the projects civil engineers. In spring of 2018 Lagan went into administration and so CNIM have assumed both of the EPC roles.
- 3.2.3. The key developments in relation to the Phase B ERF construction are summarised below:
- The first commissioning milestone, and the first duty of the IC, was to ensure that the plant was safe and ready to receive waste, and this was achieved in July 2018. Since then, the Beddington ERF has been accepting household waste from the four partner boroughs. This waste is used in the operation of the ERF whilst commissioning tests continue.
 - Testing progressed well, and the facility has maintained a steady export of electricity to the national grid since November 2018
 - The next role of the IC is to ensure that the commissioning process has successfully achieved a pre-agreed list of compliance and performance tests – the ‘Acceptance Tests’.
 - Following a rigorous testing and verification process, in the professional judgement of the technically qualified IC, the ERF facility achieved completion of the Acceptance Tests on the 4th March 2019 and an Acceptance Certificate has now been issued. This important milestone signals a move to Service Commencement and our contract will now benefit from the full performance management framework (PMF).
 - During the initial commissioning phase and whilst the Acceptance Tests were being carried out, the SLWP boroughs have paid a reduced gate-fee to Viridor. Due to the extended testing period, SLWP boroughs have saved just over £2m in disposal costs, and that is in addition to the £4.5m that SLWP forecasted would be saved during the testing period.
 - Emissions data from the ERF will be published from March 2019, and this is covered in more detail in the Joint Waste Committee Communications report to this meeting.

Next Steps:

- Before Viridor formally ‘Take Over’ the facility from CNIM, the IC must also confirm that all of the wider works on site have been completed and that a series of ‘Take Over Tests’ have been passed. The collapse of Lagan has delayed some of the construction work on the wider site, but good progress now continues to be made. Take Over is now expected to take place in late spring or early summer 2019. Further performance and reliability testing will continue beyond this time and maintenance work will continue throughout the life of the facility.
- Given the time that has now elapsed since the award of the phase B contract, SLWP are planning a review of the redacted contract document with a view to reducing the amount of information that needs to be redacted to ensure the contract publication is as transparent as possible.

4. RECOMMENDATIONS

4.1. It is recommended that the Joint Waste Committee:

- a) Note the contents of this report, and comment on any aspects of the performance of the Partnership's Phase A & B contracts.

5. IMPACTS AND IMPLICATIONS

Legal

5.1. There are no legal considerations arising directly out of the recommendation in this report

Finance

5.2. There are no financial considerations arising directly out of the recommendation in this report

6. Appendices

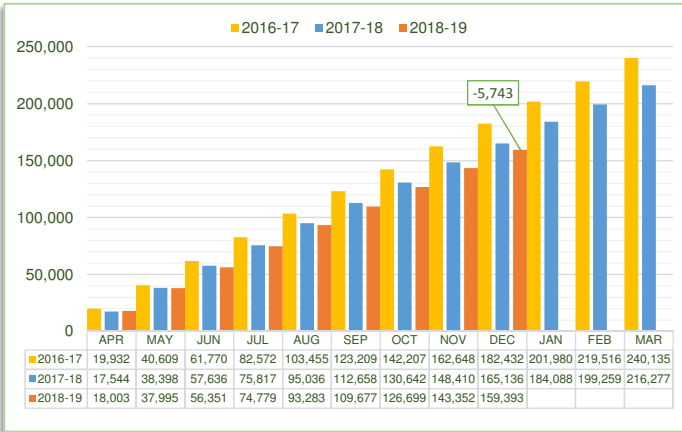
6.1. Appendix A provides data on the performance of the Phase A contracts for the reporting period 1st October 2018 to the 31st December 2018.

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SECTION 1: CONTRACT 1 - RESIDUAL WASTE DISPOSAL

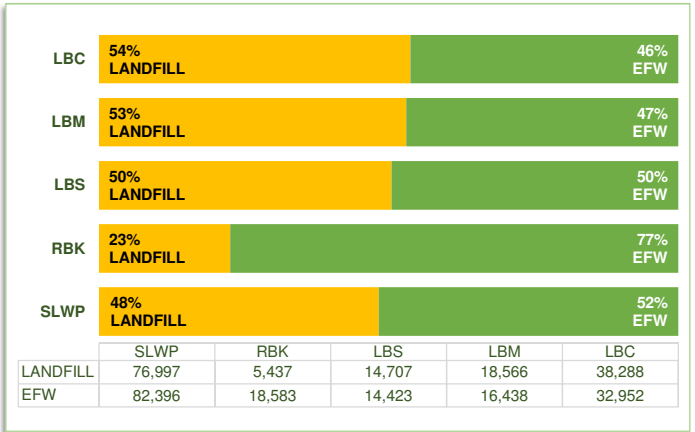
1a - TOTAL RESIDUAL WASTE GROWTH

CULMULATIVE RESIDUAL WASTE - CURRENT YEAR AGAINST 2 PREVIOUS YEARS



1b - DIVERSION FROM LANDFILL

TOTAL TONNES AND % OF WASTE SENT TO ENERGY RECOVERY



SECTION 2: HRRC CUSTOMER SATISFACTION SURVEYS

2a: SURVEY RESPONSES

SURVEY DATES AND NUMBER OF RESPONSES (ALL SITES)

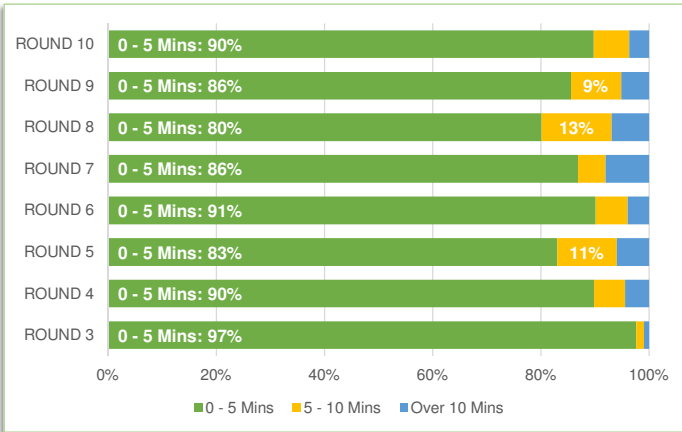
YEAR	ROUND	START DATE	END DATE	TOTAL RESPONSES
YEAR 1	ROUND 3	FEB'17	APR'17	1916
	ROUND 4	MAY'17	JUL'17	1555
YEAR 2	ROUND 5	AUG'17	OCT'17	1361
	ROUND 6	NOV'17	JAN'18	1464
	ROUND 7	FEB'18	APR'18	1310
YEAR 3	ROUND 8	MAY'18	JUL'18	995
	ROUND 9	AUG'18	OCT'18	831
	ROUND 10	NOV'18	JAN'19	2171

2b: CUSTOMER FEEDBACK COMMENTS

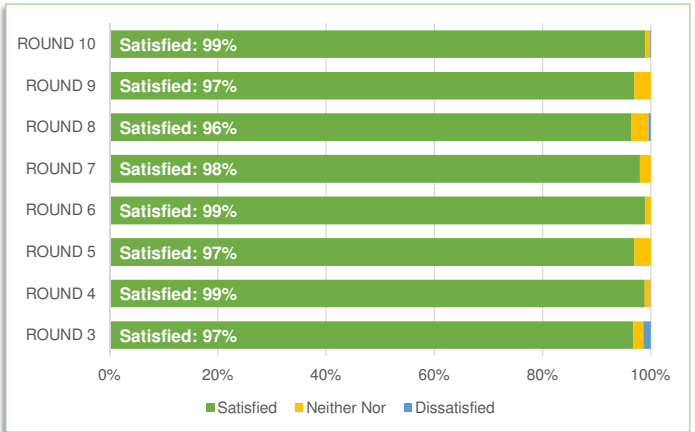
SUMMARY OF MOST COMMON COMMENTS MADE BY RESPONDENTS

RANK	COMMENT	COUNT
1	Staff are helpful	1481
2	Complaint about the stairs	912
3	Site is well organised	353
4	Site has improved	346
5	Site is convenient and easy to use	283
6	Parking could be improved	181
7	More staff needed on site	168
8	Not happy with queues to enter site	165

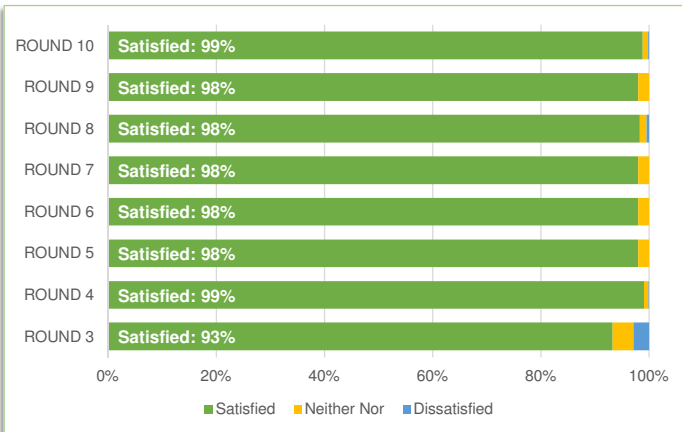
2c: HOW LONG DID YOU QUEUE TO ENTER THE SITE?



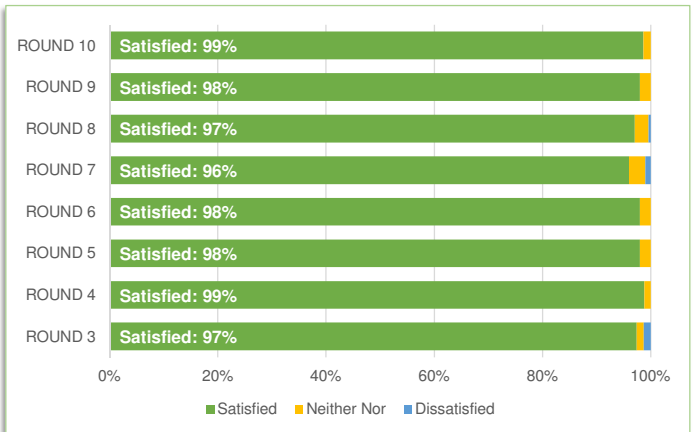
2d: HOW SATISFIED ARE YOU WITH THE CLEANLINESS OF THE SITE?



2e: HOW SATISFIED ARE YOU WITH THE SITE SIGNAGE?



2f: HOW SATISFIED ARE YOU WITH THE HELPFULNESS OF STAFF?



SECTION 3: HRRC RECYCLING PERFORMANCE

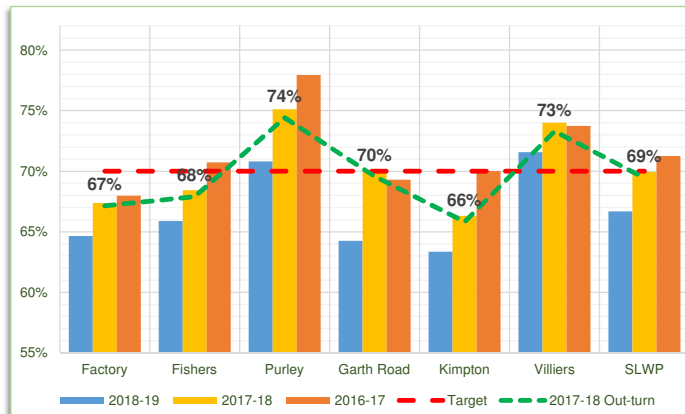
3a: HRRC RECYCLING PERFORMANCE

MONTHLY PERFORMANCE FOR EACH SITE AND SLWP AVERAGE

	FACTORY LANE	FISHERS FARM	PURLEY OAKS	GARTH ROAD	KIMPTON PARK WAY	VILLIERS ROAD	SLWP
APR	67%	70%	73%	70%	65%	74%	69%
MAY	73%	71%	76%	70%	69%	75%	72%
JUN	71%	73%	78%	71%	70%	75%	73%
JUL	63%	67%	68%	63%	62%	73%	66%
AUG	64%	66%	67%	65%	62%	71%	66%
SEP	65%	65%	74%	67%	66%	72%	68%
OCT	63%	64%	70%	62%	61%	72%	65%
NOV	60%	59%	71%	59%	60%	69%	63%
DEC	54%	56%	62%	58%	59%	64%	59%
JAN	-	-	-	-	-	-	-
FEB	-	-	-	-	-	-	-
MAR	-	-	-	-	-	-	-
YTD	65%	67%	72%	65%	64%	72%	67%

3b: YEAR TO DATE RECYCLING PERFORMANCE

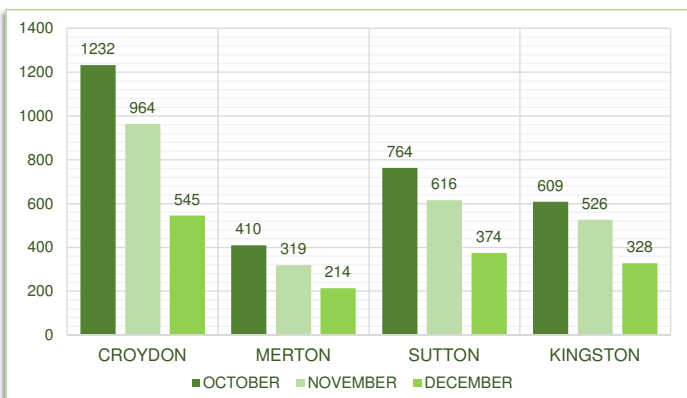
PERFORMANCE COMPARED TO LAST 2 YEARS



SECTION 4: CONTRACT 3 TONNAGE DATA

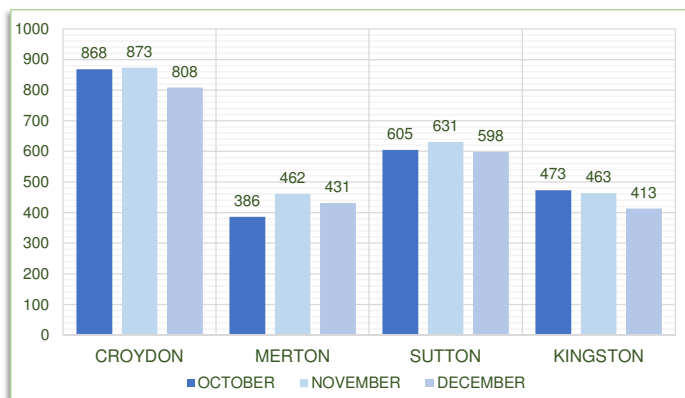
4a: GREEN WASTE TONNES BY BOROUGH

QUARTER 3 2018-19 (OCTOBER - DECEMBER)



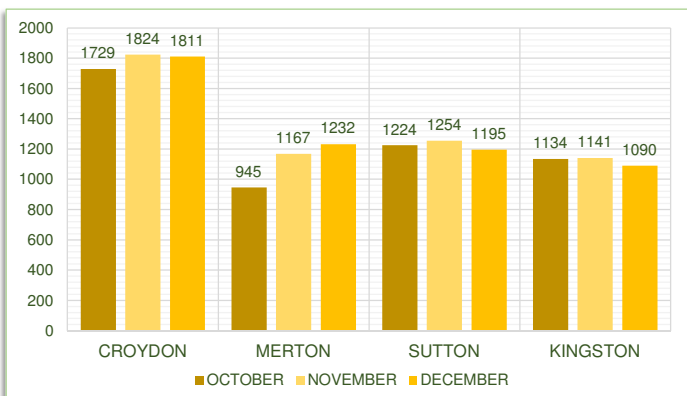
4b: FOOD WASTE TONNES BY BOROUGH

QUARTER 3 2018-19 (OCTOBER - DECEMBER)



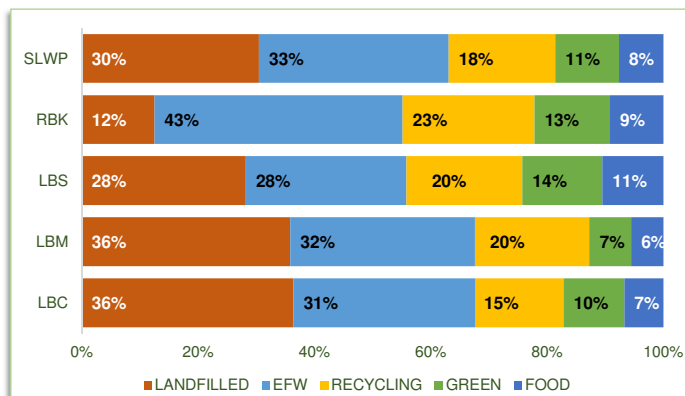
4c: RECYCLING TONNES BY BOROUGH

QUARTER 3 2018-19 (OCTOBER - DECEMBER)



4d: WASTE ARISING BY BOROUGH

INDIVIDUAL WASTE STREAMS AS % OF TOTAL WASTE (APRIL - DECEMBER)





Report to: South London Waste Partnership (SLWP)
Joint Waste Committee

Date: 2 April 2019

Report of: South London Waste Partnership Management Group

Author(s):
Michael Mackie, Finance Lead

Chair of the Meeting:
Cllr M Brunt

Report title:

SOUTH LONDON WASTE PARTNERSHIP BUDGET UPDATE MONTH 11 2018/19

Summary

This paper provides an update on the Partnership's budget position for month 11 (February) of the financial year and the projected outturn for the 2018/19 financial year.

Recommendations

To note the content of this report.

Background Documents and Previous Decisions

Previous budget reports.

1. Background

- 1.1 The Partnership sets its budget in December for the forthcoming financial year.
- 1.2 The budget is monitored by Management Group every month to allow the budgets to be flexed where appropriate in order to respond to any budget pressures.

2. Financial Position 2018/19

- 2.1 The table below refers to the Partnership's budget position for its Strategic Management activities for month 11 (February) of the 2018/19 financial year.

It relates to expenditure in the following areas; procurement, project management, administration, contract management and communications.

Item	Approved Budget £	Actuals & Commitments £	Anticipated Outturn £	Variance £
<i>Internal and External Advisors</i>	175,000	107,673	118,000	(57,000)
<i>Project & Contract Management</i>	500,000	492,850	534,000	34,000
<i>Document and Data Management</i>	24,000	24,577	24,600	600
<i>Communications</i>	25,000	7,845	25,000	0
TOTAL	724,000	632,945	701,600	(22,400)
COST PER BOROUGH	181,000	158,236	175,400	(5,600)

- 2.2 The Partnership's budget for core functions forecasts an under spend for the year of £22,400 (£5,600 per borough). The major variances are detailed below
- 2.3 External advisors underspend of £57k mainly due to the ERF contract not requiring the additional external advice budgeted as contingency.
- 2.4 Project and contract management overspend by £34k due to additional cost of maternity cover, the evaluated grades of new posts through the changed structure last year being higher than budgeted and the impact of increments.

3. Recommendations:

- 3.1 To note the content of this report.

4. Impacts and Implications:

Finance

- 4.1 Contained within report.



SOUTH LONDON WASTE PARTNERSHIP

Report to: South London Waste Partnership Joint Committee

Date: 2 April 2019

Report of: South London Waste Partnership Management Group

Author(s):
John Haynes (South London Waste Partnership Communications Advisor)

Chair of the Meeting:
Councillor Mike Brunt, Chair of the South London Waste Partnership Joint Committee

Report Title:

**Communications and Engagement
South London Waste Partnership - Phase A and Phase B contracts**

Summary

This paper provides an update to members of the South London Waste Partnership Joint Committee on communications and stakeholder engagement activities relating to the Partnership's Phase A (transport & residual waste management, HRRC services and marketing of recyclates) and Phase B (residual waste treatment) contracts.

This report focuses on activity that has taken place between December 2018 and March 2019.

Recommendations

The Committee is asked to note the contents of this report and comment on any aspects of communications and engagement activities relating to the Phase A and Phase B contracts.

1. 'DESTINATION: RECYCLING' CAMPAIGN

- 1.1 At the last Committee meeting, Members were updated on the Destination Recycling campaign. Using existing funds in the 2018/19 SLWP communications budget, a film production company was to be commissioned to produce a short film (no more than 4 minutes) that tells the story of what happens to recycling and waste after its been collected from the doorstep.
- 1.2 The film production company would also create 10-second trailers.

These trailers would form the basis of a paid-for, targeted social media campaign to drive traffic to the film (the social media campaign would be based on the highly successful Plastic Planet campaign, which delivered an excellent return on investment as reported at the December 2018 Committee meeting).

- 1.3 The aim of the film and associated social media campaign is to support the following stated objectives of the SLWP Communications Strategy:
 - Continue to reassure residents about where their recycling is taken and what it is turned in to.
 - Be specific, wherever possible, about the destination of recyclable materials - giving the message authenticity and building trust.
 - Reduce the proportion of residents who have 'serious concerns' that not everything they sort of recycling is actually recycled from 19% to 15%.
- 1.4 Progress since the last Committee meeting:
 - A commissioning process has been completed and the contract to develop the film and trailers has been awarded to Radley Yelder, a specialist film production company with extensive experience of working in the environment and recycling sectors (one of their key clients is WRAP)
 - Scripts have been agreed
 - At the time of writing, filming was due to take place during week commencing 25 March 2019
 - The target is to have the film ready for launch in April.
- 1.5 The film will:
 - Use a combination of stills, stock footage and original footage along with overlaid graphics and animated elements to create a quirky, stylish and graphical story of what happens to one person's household waste and recycling
 - Be driven by a charismatic and engaging voiceover that brings the story to life and helps reassure and entertain
 - Be something that our target audiences (particularly 16-34 years olds) will want to share and talk about; a big step away from 'talking heads' and images of recycling centres.
- 1.6 In addition it has been agreed that Radley Yelder will edit the 4-minute film in to x4 1-minute films (1 per waste stream: food, container mix, paper and card, rubbish) for the boroughs to use on the relevant parts of their websites and in organic (free) social media posts.
- 1.7 The social media campaign to drive traffic to the new film will be launched in May/June. It will be paid for using funds from the 2019/20 SLWP Communications budget.

2. PHASE A BACKGROUND

- 2.1 The Phase A contracts encompass transport & residual waste management, HRRC services and marketing of recyclates.
- 2.2 From a communications and stakeholder engagement perspective, the elements of the Phase A contracts that are of most significance are:
 - the management of the six Household Reuse, and Recycling Centres (HRRCs), and
 - the landfill operations at Beddington.

3. HOUSEHOLD REUSE AND RECYCLING CENTRES (HRRCs)

- 3.1 Promotion of the boroughs' garden waste collection services is due to take place at the HRRC sites during April (March in Kingston). Residents bringing garden waste to the sites will be given a promotional leaflet about the collection service – the key message on the leaflets being: 'Spend less time at the tip and more time in your garden'.
- 3.2 The December 2018 roll-out of a trial scheme for vans and large vehicles (requiring them to register the day before they visit) at Villiers Road (Kingston) and Kimpton Park Way (Sutton) went smoothly. Communications support included:
 - Large posters displayed on A-frames at the site entrances
 - Leaflets for site staff to hand out to site users in larger vehicles
 - Press release
 - Social media posts
 - Updated text for borough websites.
- 3.3 Site user customer satisfaction surveys continue to take place on a rolling basis across the sites. The findings are reported in the Phase A & B Contract Management Report. Findings reports will also be available on the SLWP website from April.
- 3.4 The numbers of site users taking part in the surveys has dropped significantly in recent months. To some extent that is to be expected, as repeat users of the site will only want to take part once. However, the SLWP Communications will be reviewing the process with Veolia to see what can be done to boost response rates.

4. BEDDINGTON LANDFILL OPERATIONS

- 4.1 This contract is operated by Viridor on behalf of the Partnership.
- 4.2 The focus of communications and engagement activities has been two-fold:
 - Educating local residents and key stakeholders about the landfill operations at Beddington – i.e. how it is providing vital waste

disposal capacity for hundreds of thousands of local households and businesses and how the site is being managed in order to minimise any negative environmental impacts;

- Providing information on how the 120-hectare Beddington Farmlands site (which incorporates the landfill) is being restored into a rich patchwork of habitats for wildlife with public access.

4.3 There are no significant communications and engagement updates since the last Committee meeting in December 2018.

5. PHASE B BACKGROUND

5.1 The Phase B contract (residual waste treatment) was awarded to Viridor in 2009. In order to fulfill the contract, Viridor are constructing a £205m state-of-the-art Energy Recovery Facility in Beddington. Household waste from the four Partner boroughs that has not been sorted by residents for recycling will be treated at the facility and used to generate electricity.

5.2 The SLWP Communications Advisor continues to work closely with Viridor to:

- Ensure Viridor are meeting their contractual requirements with regards to communications and stakeholder engagement around the construction of the Beddington ERF
- Ensure local people understand why it is we need an ERF and provide reassurance around the safety of modern, well-run facilities such as this
- Ensure the Partnership understands the views of local people with regards to waste treatment and ERF technologies in particular.

6. BEDDINGTON ERF COMMUNICATIONS AND STAKEHOLDER ENGAGEMENT

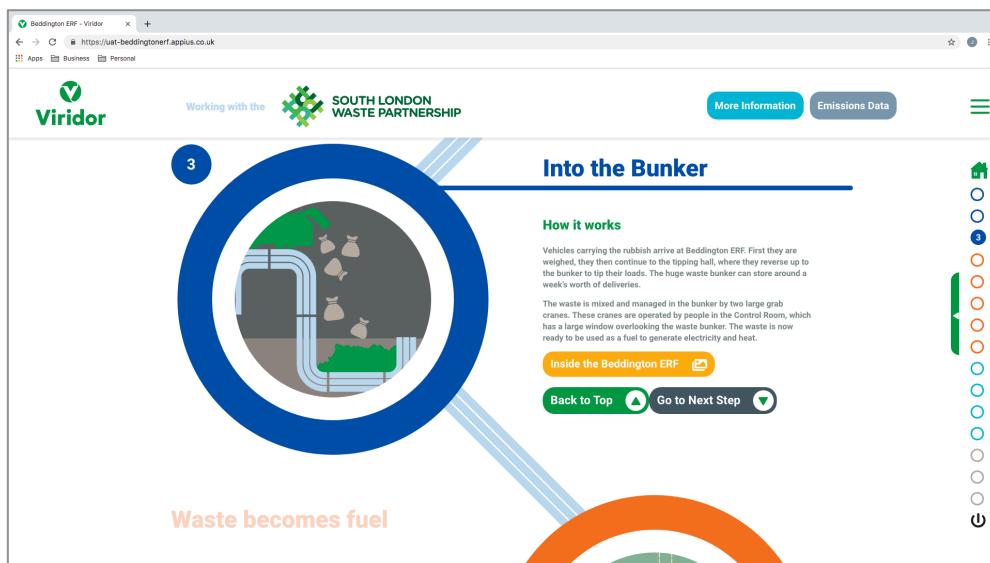
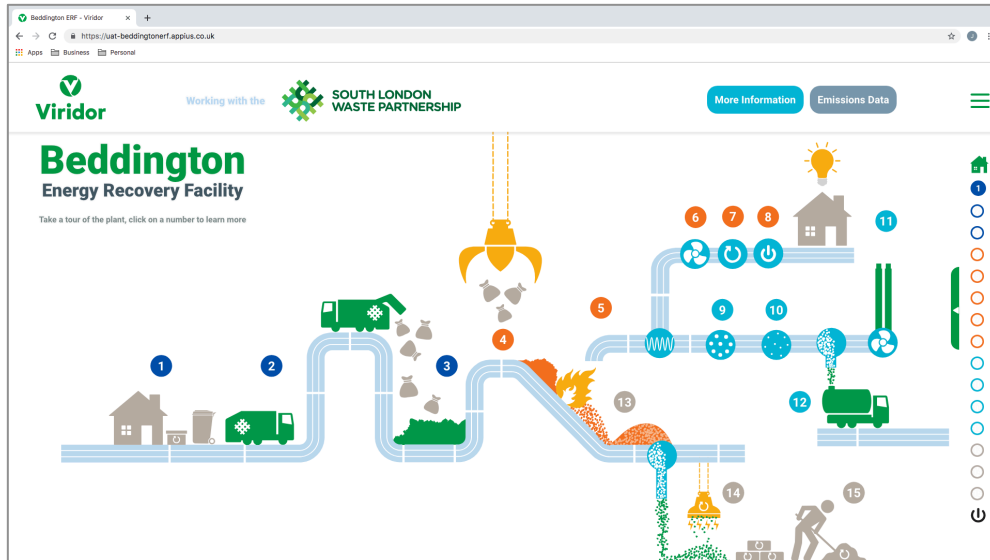
6.1 At the last Committee meeting, Members were provided with information on plans for a web-based Virtual Visitor Centre (VVC) for the Beddington ERF.

6.2 The SLWP's Communications Advisor has been working closely with Viridor in recent months to develop the VVC and good progress has been made. At the time of writing, the website (www.beddingtonerf.info) was due to go live during the week commencing 25 March 2019.

6.3 The VVC is a high quality website where the processes that take place at the Beddington ERF are explained in an engaging and informative way. The VVC will be the first point of contact for members of the community with an interest in the facility.

6.4 The VVC shows the 15 key stages that are required to turn waste into energy. Each stage is accompanied by text and images (to be supplemented with professionally-produced videos of the Beddington ERF in the coming months).

6.5 Below are some screenshots taken from the VVC:



6.6 The SLWP Communications Advisor will provide a short live demonstration of the VVC at the Committee meeting.

6.7 The publication of emissions monitoring data from the Beddington ERF is an important part of the VVC. There is no statutory requirement for ERF operators to publish data from their emissions monitoring equipment, aside from the quarterly reports they submit to the Environment Agency. As a result, the information published directly by operators varies widely from ERF to ERF.

6.8 The SLWP is pleased that the Beddington ERF will adopt one of the

most open and transparent approaches to the publication of emissions monitoring data in the country:

- Monitoring data will be easily available to download from the VVC
- Data will be uploaded twice every month (see paragraph 6.11)
- A full archive of historical reports will be available
- Clear charts and graphs will show the recordings of the six key emissions (Hydrogen Chloride, Carbon Monoxide, Sulphur Dioxide, Oxides of Nitrogen, Total Organic Carbon and Particulates (dust))
- Data will be supported with a short commentary, explaining any anomalies

- 6.9 The VVC will provide background information on the emissions monitoring process, how it's done and the role of the Environment Agency in regulating the facility to ensure it is operating safely (**See Annex 1**).
- 6.10 Guidance on how to interpret the reports can be found at **Annex 2** (this guidance will also be made available to users of the VVC). In summary:
- There are two monitoring points, A1 and A2, (located at the base of each of the two flue stacks). A set of emissions monitoring reports are published for each of the monitoring points.
 - Samples are taken every 10 seconds. At each monitoring point, Viridor reports against two averages – a daily average, and a half hourly average
 - On the graphs the data is plotted for each day of the month. To remain compliant with the environmental permit:
 - The red line (mean half-hourly average) should remain below the blue line (daily average limit)
 - The red squares (maximum half-hourly average) should remain below the green line (half-hourly average limit)
 - There is no black line visible as it always sits immediately behind the red line - i.e. 'Mean half-hourly average' is the same thing as 'Daily average'.
 - The tables below the graphs provide more detail on the actual recordings and clearly state the number (if any) of exceedances in the report period.
- 6.11 Detailed emissions monitoring reports will be uploaded twice per month by Viridor. The latest report available at the time of writing (for the first half of March 2019) can be seen at **Annex 3**. This report is also available to download on the VVC.
- 6.12 Construction work on the on-site Beddington ERF Education Centre is expected to be complete in the summer 2019. Visits (including a guided tour of the facility) by community groups, schools and other interested parties can then be facilitated.

- 6.13 The next edition of the Beddington ERF Community Newsletter is due to be published and distributed to ~14,000 households to coincide with 'takeover' of the facility. It will, amongst other things, promote awareness of the VVC and the onsite Education Centre.
- 6.14 Community Liaison Group meetings continue to be held on a quarterly basis, with the SLWP Communications Advisor in attendance.
- 6.15 Viridor has produced a short video to promote the Beddington Community Fund: [Beddington Community Fund video](#). Borough communications teams have been asked to help promote this via their social media channels. Members of the Committee are asked to help spread the word to relevant local community and voluntary groups. Grants of up to £30,000 are available for groups located close to the Beddington site (within 2km), and up to £5,000 for those further afield.

7. Social Research study

- 7.1 Work to commission the fourth triennial SLWP 'Measuring resident perceptions of waste management' survey will commence shortly. A robust commissioning process will be followed to ensure the SLWP finds the best social research company to complete this important piece of work on our behalf.
- 7.2 The findings of the survey will further our understanding of the views of local people on a wide range of waste related issues, enabling us to plot trends over a nine-year period, since the first survey took place in 2010. The findings will also be used to evaluate the success of our communications and engagement activities to date, and to review and refresh the SLWP Communications Strategy document.
- 7.3 An additional £40,000 has been agreed in the 2019/20 SLWP Communications Budget to pay for this social research work.

8. IMPACTS AND IMPLICATIONS

Legal

- 8.1 None

Finance

- 8.2 The South London Waste Partnership's Communications Advisor post is funded through the core activities budget.
- 8.3 A £25,000 annual Communications Budget is available to support communications and engagement activities.

9. RECOMMENDATIONS

- 9.1 The Committee is asked to note the contents of this report and comment on any aspects of communications and engagement activities relating to the Phase A and Phase B contracts

Annex 1

Emissions Monitoring Data - Supporting information on the Beddington ERF Virtual Visitor Centre

The following text appears on the Beddington ERF Virtual Visitor Centre:

Emissions data

Ensuring what comes out of the chimneys is compliant

An essential part of turning waste into energy is combustion. When waste is combusted (burnt), it produces gasses (emissions) which, if left untreated, have the potential to be harmful to the environment and human health. That is why it's not advisable to burn rubbish in your back garden. It's also why one third of the Beddington ERF is dedicated to cleaning these gasses to ensure that what's released into the atmosphere (via the two flue stacks, or 'chimneys') is safe and will not harm the local environment or the health of local people.

Monitoring emissions

Emissions from the Beddington ERF are monitored every 10 seconds, 7 days a week, 365 days a year. Samples are taken from the gasses in the flue stacks. The results are fed back to the ERF control room, so any potential issues are known about immediately and appropriate action can be taken.

Regulation

The emissions from the Beddington ERF are closely monitored by the Environment Agency, who set strict limits (based on half hourly and daily averages) for different types of emissions (see below). If any of these limits are breached, Viridor must inform the Environment Agency within 24 hours. Viridor must also submit quarterly emissions monitoring reports to the Environment Agency. In the event of issues or problems, the Environment Agency has the power to revoke a facility's Environmental Permit and prevent it from operating.

The Beddington ERF has been designed to operate at the very highest international standards and under normal operating conditions, emissions are well below the limits set by the Environment Agency.

Providing local people with reassurance

Viridor and the South London Waste Partnership recognise that the safety of the facility is a very important issue for people who live in Beddington and the surrounding areas.

To provide reassurance that the facility is safe and does not pose a threat to human health or the local environment, Viridor makes emissions monitoring reports available for anyone to view twice per month. These reports can be downloaded (in pdf format) from the following link: [Emissions monitoring reports from the Beddington ERF](#)

What emissions are monitored?

The following emissions are monitored on a continuous basis at the Beddington ERF as they are all a product of the combustion process:

- Dust (Particulates) - Particulate Matter is generally categorised on the basis of the size of the particles. It is made up of a wide range of materials and can arise from a variety of sources. Particulate Matter derives from both human-made and natural sources, such as sea spray, Saharan dust and volcanic eruptions. In the UK one of the biggest human-made sources of particulate matter is transport.
- Total Organic Carbon - Total Organic Carbon is part of a group of liquids and gases often called volatile organic compounds (VOCs). Many industrial processes emit VOCs including printing, surface coating and painting, however, households and road transport also contribute a substantial fraction.
- Hydrogen Chloride (HCl) - At room temperature, Hydrogen Chloride exists as either a colourless or slightly yellow gas. The main source of Hydrogen Chloride is old coal burning power stations.
- Carbon Monoxide (CO) - Carbon Monoxide is formed from incomplete combustion of carbon-containing fuels. The largest source is from road transport; older vehicles which do not have catalytic converters produce significant amounts with newer cars producing very little.
- Sulphur Dioxide (SO₂)- UK emissions are dominated by combustion of fuels containing Sulphur, such as coal and heavy oils by power stations and refineries. In some parts of the UK, notably Northern Ireland, coal for domestic use is a significant source.
- Oxides of Nitrogen - All combustion processes in air produce oxides of nitrogen (NO_x). Nitrogen dioxide (NO₂) and nitric oxide (NO) are both oxides of nitrogen and together are referred to as NO_x Road transport is the main source, but this can also be formed in lightning storms and from natural breakdown processes in soil and water.

What are the emissions limits?

The daily average emissions limits for the Beddington ERF are some of the strictest in the country:

- Dust (Particulates) 10mg/m³
- Total Organic Carbon 10mg/m³
- Hydrogen Chloride 10mg/m³
- Carbon Monoxide 50mg/m³
- Sulphur Dioxide 50mg/m³
- Oxides of Nitrogen 165mg/m³

Ensuring measurements are accurate

It is vital that the specialist equipment taking gas samples from the flue stacks of the Beddington ERF are operating correctly and taking accurate measurements. To ensure this is the case, the Environment Agency put the equipment through a rigorous three-stage testing and quality assurance process:

- Firstly, in order to meet the requirements of the Industrial Emissions Directive, the monitoring equipment must meet certain performance requirements evaluated under the Environment Agency's Monitoring Certification Scheme.

- The second level of quality assurance calibrates the instruments: An independent test house carries out this calibration every three years. In addition, each year an Annual Surveillance Test is carried out to ensure that the calibration function and variability remain as previously determined.
- Finally, Viridor are required to regularly measure the drift and precision of the monitoring equipment using a specified gas of known composition.

Annex 2 Guide: How to interpret the Emissions Data Monitoring Reports

Confirmation of the ERF being monitored

Each component that is monitored has a separate report

Date of the report

The line = the average 30 minute emissions for the ERF

The square = the maximum 30 minute average for the ERF

Maximum half-hourly emission limit value (the maximum permitted in a 30 minute window)

Maximum daily average emission limit value (the maximum permitted in the day)

Each day of the month is recorded

The bottom row indicates any exceedances of the permit – YES or NO

Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Half-hourly average	Monthly maximum	Half-hourly average ELV	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Monthly mean	Maximum half-hourly average	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Monthly minimum	Mean half-hourly average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total Inhibit results	Minimum half-hourly average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sum of exceedances	No. of exceedances of ELV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily average	Monthly maximum	Daily average ELV	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
	No. of Inhibit days	Daily average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sum of exceedances	Value Valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
		Value Exceeds ELV?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	

Permit Reference Number : EPR / TP3830CT

Operator : Validator

Installation : Beddington

Form Number :

Date of Form: 28/01/2019

Reporting of Continuously Monitored Emissions to Air for Particulates mg/m3 at Emission Point A1 For the month of January 2019

Daily and Half-hourly Average Monitoring Data

Data summary

Raw data

Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Half-hourly average	Monthly maximum	Half-hourly average ELV	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
	Monthly mean	Maximum half-hourly average	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Monthly minimum	Mean half-hourly average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total Inhibit results	Minimum half-hourly average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sum of exceedances	No. of exceedances of ELV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily average	Monthly maximum	Daily average ELV	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
	No. of Inhibit days	Daily average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sum of exceedances	Value Valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
		Value Exceeds ELV?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	

This is the number of exceedances within the given time frame. These are '0' in this report meaning there have been no exceedances of the Beddington ERF environmental permit

Annex 3
Emissions Monitoring Reports
Beddington ERF Emissions Monitoring Data Report for March 2019.



Beddington ERF emissions report March 2019 pt.1

Compliance

Throughout the reporting period, the Beddington ERF operated within its strict Emissions Limits at all times. There were no breaches of either the daily or half-hourly average emissions limits at either of the two monitoring points (A1 and A2 at the base of each flue stack).

Operation

In March the ERF has run consistently, the facility continues in its final stages of process optimisation; a phase that sees all components of the ERF switched on in isolation and tested to ensure they operate safely and below stringent emissions levels.

If you have any questions or queries about the emissions monitoring or operations at the Beddington ERF, please do not hesitate to contact: Beddingtonerf@viridor.co.uk

Brett McGuin

Environment, Health and Safety Manager at Beddington ERF

Permit Reference Number : EPR / TP3836CT

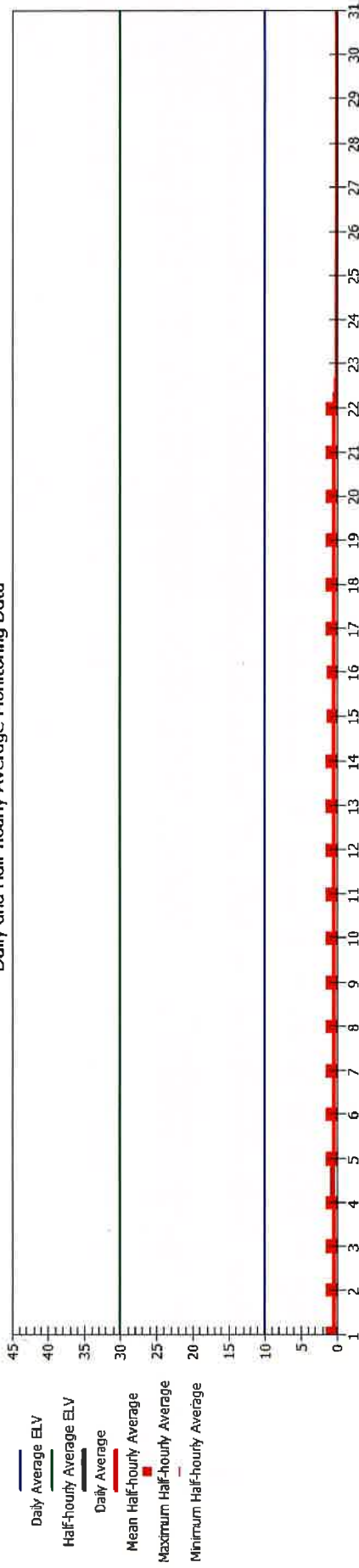
Operator : Viridor

Installation: Beddington

Form Number: AIR 1 / 23/07/13 [A2]

Reporting of Continuously Monitored Emissions to Air for Particulates mg/m3 at Emission Point A1 For the month of March 2019

Daily and Half-hourly Average Monitoring Data



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Half-hourly average	Monthly maximum	Half-hourly average ELV	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
	Monthly mean	Maximum Half-hourly average	1	0	0	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Monthly minimum	Mean Half-hourly average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total invalid results	Minimum Half-hourly average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily average	Sum of exceedances	No of Invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Monthly maximum	No of exceedances of ELV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	No of invalid days	Daily average ELV	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
	Sum of exceedances	Daily average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Value Valid?	Value Valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Value Exceeds ELV?	Value Exceeds ELV?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed..... *B. McGowan* - EHS MANAGER

Date..... 22.03.19

(Authorised to sign as a representative of the Operator)

Permit Reference Number : EPR / TP3836CT

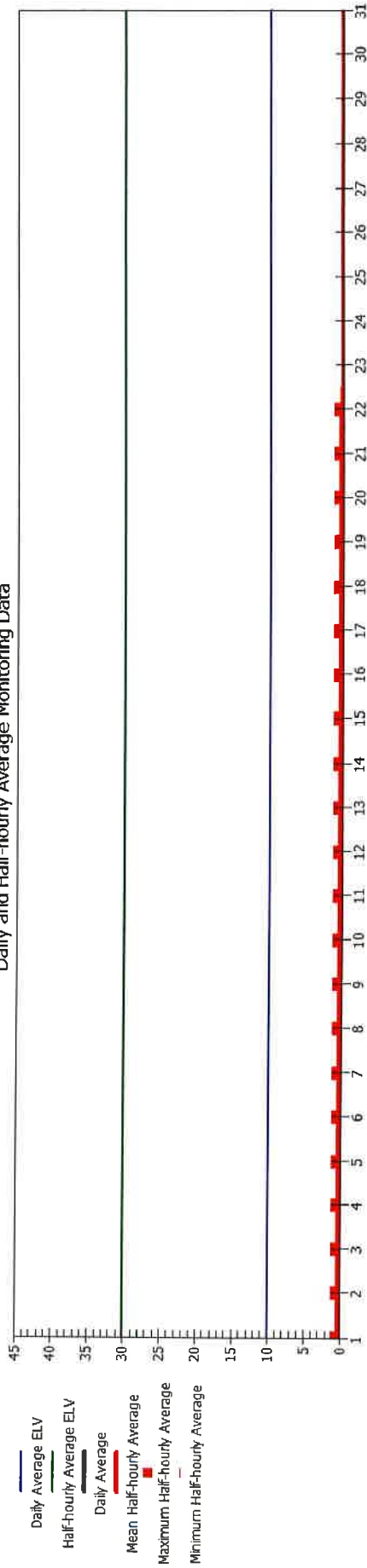
Operator : Vfiridor

Installation: Beddington

Form Number: AIR 1 / 23/07/13 [A2]

Reporting of Continuously Monitored Emissions to Air for Particulates mg/m3 at Emission Point A2 For the month of March 2019

Daily and Half-hourly Average Monitoring Data



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Half-hourly average	Monthly maximum	Half-hourly average ELV	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
	Monthly mean	Maximum Half-hourly average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Monthly minimum	Mean Half-hourly average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total Invalid results	Minimum Half-hourly average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sum of exceedances	No of Invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily average	Monthly maximum	No of exceedances of ELV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	No of invalid days	Daily average ELV	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
	Sum of exceedances	Daily average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Value Valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
		Value Exceeds ELV?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed: BULLOCK - EHS MANAGER Date: 22.03.19

(Authorised to sign as a representative of the Operator)

Permit Reference Number : EPR / TP3836CT

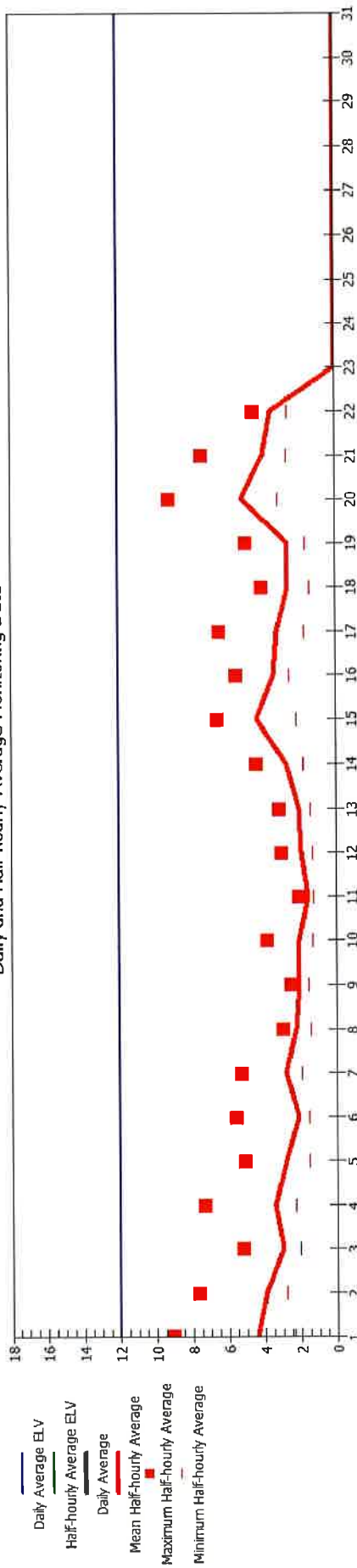
Operator : Viridor

Installation: Beddington

Form Number: AIR A1 - Ammonia

Reporting of Continuously Monitored Emissions to Air for NH3 mg/m3 at Emission Point A1 For the month of March 2019

Daily and Half-hourly Average Monitoring Data



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Half-hourly average	Half-hourly average ELV		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Maximum Half-hourly average	9	8	5	7	5	6	5	3	2	4	2	3	3	4	6	5	6	4	5	9	7	4	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	
	Monthly mean	3	4	4	3	3	2	2	2	2	2	2	2	2	3	4	3	3	3	3	3	5	4	4	Off	Off	Off	Off	Off	Off	Off	Off	Off	
	Monthly minimum	1	2	3	2	2	2	2	1	2	1	1	1	1	1	2	2	3	2	1	2	3	3	3	3	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Total Invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily average	Sum of exceedances of ELV	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Daily average ELV		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
	Monthly maximum	5	4	4	3	3	3	2	2	2	2	2	2	2	2	3	4	3	3	3	3	5	4	4	Off	Off	Off	Off	Off	Off	Off	Off	Off	
	No of invalid days	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Sum of exceedances	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed: *SULLIVAN - EHS MANAGER*
 (Authorised to sign as a representative of the Operator)

Date: 22.03.19

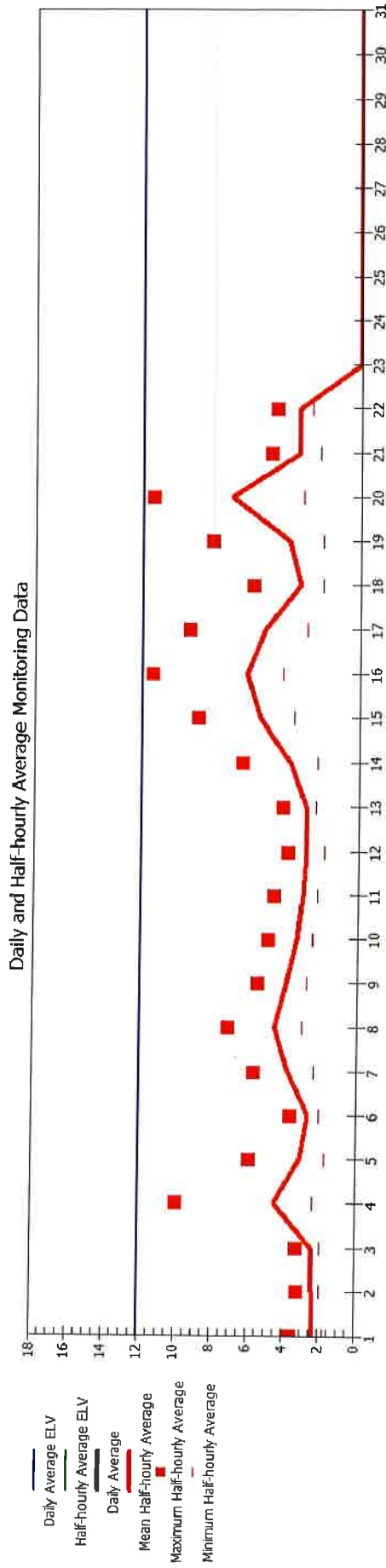
Permit Reference Number : EPR / TP3836CT

Operator : Viridor

Installation: Beddington

Form Number: AIR A2 - Ammonia

Reporting of Continuously Monitored Emissions to Air for NH3 mg/m3 at Emission Point A2 For the month of March 2019



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Half-hourly average	Half-hourly average ELV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Monthly maximum	11	4	3	3	10	6	4	6	7	5	5	4	4	6	9	11	9	6	8	11	5	5	3	3	3	3	3	3	3	3	3	3	3
	Monthly mean	4	2	2	2	4	3	3	4	5	4	3	3	3	4	5	6	5	3	4	7	3	3	3	3	3	3	3	3	3	3	3	3	
	Monthly minimum	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Total Invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily average	Sum of exceedances of ELV	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Daily average ELV	7	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
	Daily average	0	2	2	2	4	3	3	4	5	4	3	3	3	3	4	5	6	5	3	4	7	3	3	3	3	3	3	3	3	3	3	3	3
	No of invalid days	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Sum of exceedances	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed: *BULLER - EHS MANAGER*

Date: 22.03.19

(Authorised to sign as a representative of the Operator)

Permit Reference Number : EPR / TP3836CT

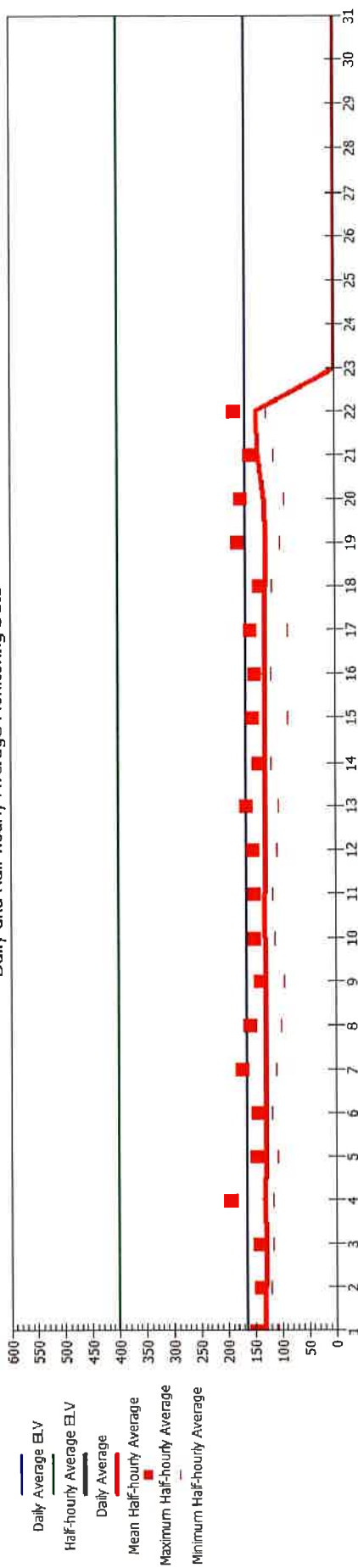
Installation: Beddington

Operator : Viridor

Form Number: AIR 6 / 23/07/13 [A1]

Reporting of Continuously Monitored Emissions to Air for NOx mg/m3 at Emission Point A1 For the month of March 2019

Daily and Half-hourly Average Monitoring Data



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Half-hourly average	Half-hourly average ELV		400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	Monthly maximum	194	148	139	142	194	146	143	173	158	138	148	149	151	164	142	152	148	155	138	178	172	155	184	Off	Off	Off	Off	Off	Off	Off	Off	Off	
	Monthly mean	131	130	130	132	129	129	129	129	128	131	130	130	129	130	129	128	131	129	129	129	126	130	140	145	Off	Off	Off	Off	Off	Off	Off	Off	
	Monthly minimum	86	109	121	116	117	108	118	110	101	94	111	116	107	105	119	86	118	86	117	102	93	112	127	Off	Off	Off	Off	Off	Off	Off	Off	Off	
Daily average	Total Invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sum of exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Daily average ELV		165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	
Daily average	Monthly maximum	145	130	130	130	132	129	129	129	129	128	131	130	130	129	130	129	131	129	129	129	126	130	140	145	Off	Off	Off	Off	Off	Off	Off	Off	
	No of invalid days	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Sum of exceedances	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed: *BULLOCK - EHS MANAGER* Date: *22.03.19*

(Authorised to sign as a representative of the Operator)

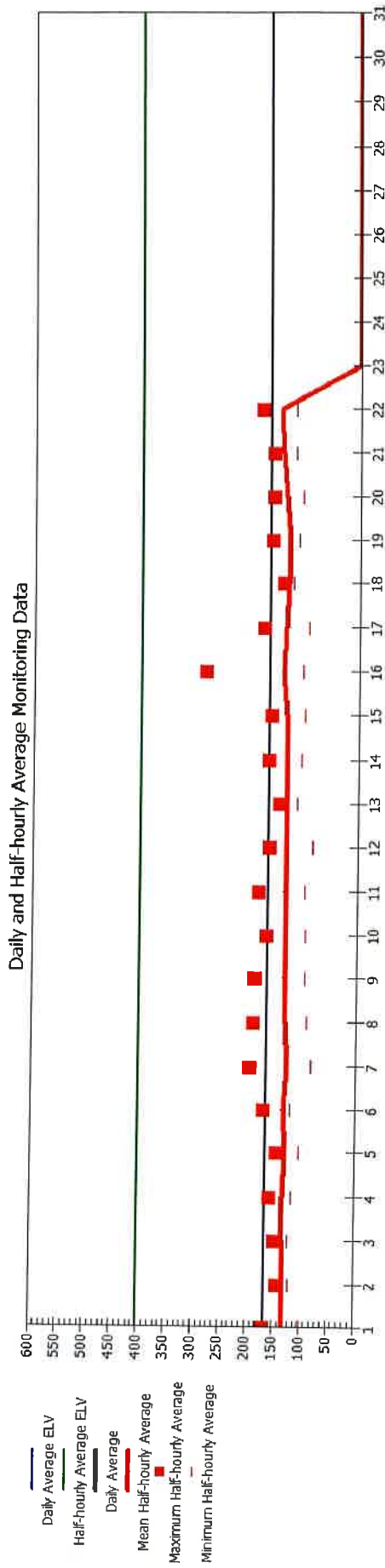
Permit Reference Number : EPR / TP3836CT

Installation: Beddington

Operator : Vindor

Form Number: AIR 6 / 23/07/13 [A2]

Reporting of Continuously Monitored Emissions to Air for NOx mg/m3 at Emission Point A2 For the month of March 2019



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Half-hourly average	Half-hourly average ELV		400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400			
	Monthly maximum	280	167	141	145	155	143	168	193	190	187	166	180	161	142	164	159	280	175	139	161	158	159	180	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off		
	Monthly mean	133	132	132	133	129	134	127	131	133	131	133	132	131	130	132	140	134	131	128	135	142	145	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	
	Monthly minimum	82	104	121	122	116	103	120	82	90	95	95	98	83	111	105	99	104	93	122	111	106	119	119	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	
	Total Invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily average	Sum of exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Daily average ELV		165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165		
	Monthly maximum	145	133	132	132	133	129	134	127	131	133	131	133	132	131	130	132	140	134	131	128	135	142	145	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	No of invalid days	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	Sum of exceedances	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	

Signed: *Bulla - EHS MANAJARA*
 (Authorised to sign as a representative of the Operator)

Date: 22.03.19

Permit Reference Number : EPR / TP3836CT

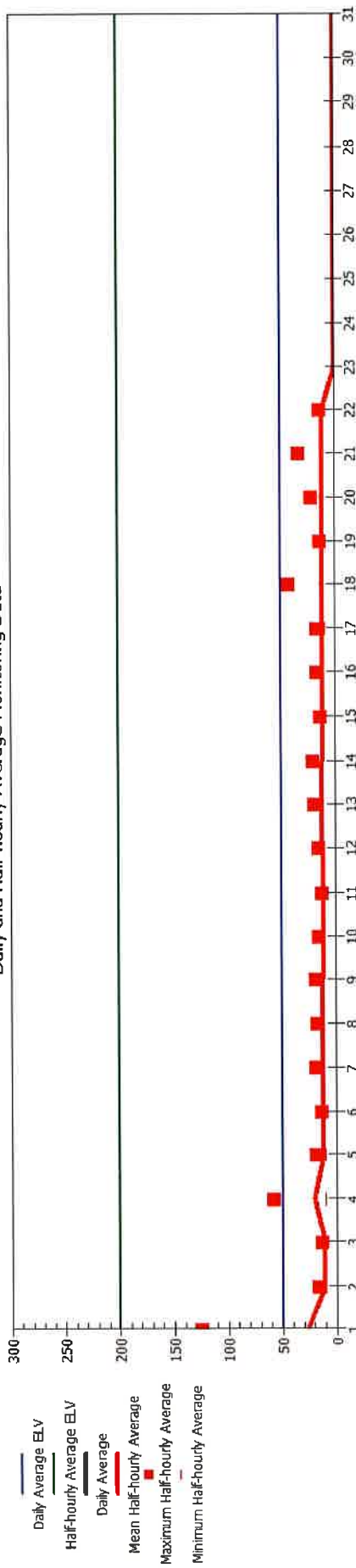
Operator : Viridor

Installation: Beddington

Form Number: AIR 5 / 23/07/13 [A1]

Reporting of Continuously Monitored Emissions to Air for SO2 mg/m3 at Emission Point A1 For the month of March 2019

Daily and Half-hourly Average Monitoring Data



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Half-hourly average	Half-hourly average ELV	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	Monthly maximum	125	16	13	58	18	13	18	18	18	15	12	15	19	20	14	16	16	42	13	22	33	13	13	13	13	13	13	13	13	13	13	13	13
	Monthly mean	13	27	11	11	20	12	12	12	12	11	11	12	12	12	11	12	11	12	11	11	10	10	11	11	11	11	11	11	11	11	11	11	11
	Monthly minimum	9	10	10	10	10	10	12	11	11	11	10	10	11	10	11	11	10	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Daily average	Total Invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sum of exceedances of ELV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Monthly maximum	27	11	11	20	12	12	12	12	12	11	11	12	12	12	11	12	11	12	11	11	10	10	11	11	11	11	11	11	11	11	11	11	11
	No of invalid days	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Sum of exceedances	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed: BAllen - EHS MANAGER Date: 22-03-19

(Authorised to sign as a representative of the Operator)

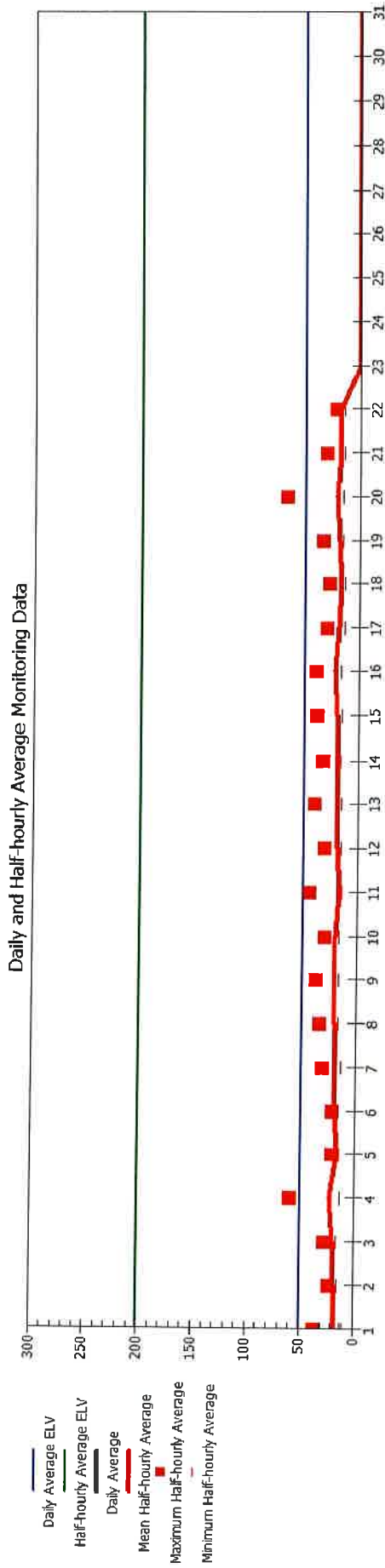
Permit Reference Number : EPR / TP3836CT

Operator : Viridor

Installation: Beddington

Form Number: AIR 5 / 23/07/13 [A2]

Reporting of Continuously Monitored Emissions to Air for SO2 mg/m3 at Emission Point A2 For the month of March 2019



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Half-hourly average	Half-hourly average ELV		200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	Monthly maximum	67	37	22	27	59	20	21	30	33	36	29	44	29	39	32	37	38	29	27	33	67	29	21	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Monthly mean	19	17	18	19	23	17	18	19	19	19	20	16	18	18	19	19	21	18	17	18	20	17	17	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Monthly minimum	12	15	17	14	14	16	13	16	16	16	16	14	16	15	16	15	16	13	13	15	15	14	14	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Total Invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily average	Sum of exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Daily average ELV		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
	Monthly maximum	23	17	18	19	23	17	18	19	19	19	20	16	18	18	19	19	21	18	17	18	20	17	17	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	No of invalid days	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Off	Off	Off	Off	Off	Off	Off	Off	Off	
	Sum of exceedances	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed: *BULLWIN - EHS MANAGER* Date: 22-03-19

(Authorised to sign as a representative of the Operator)

Permit Reference Number : EPR / TP3836CT

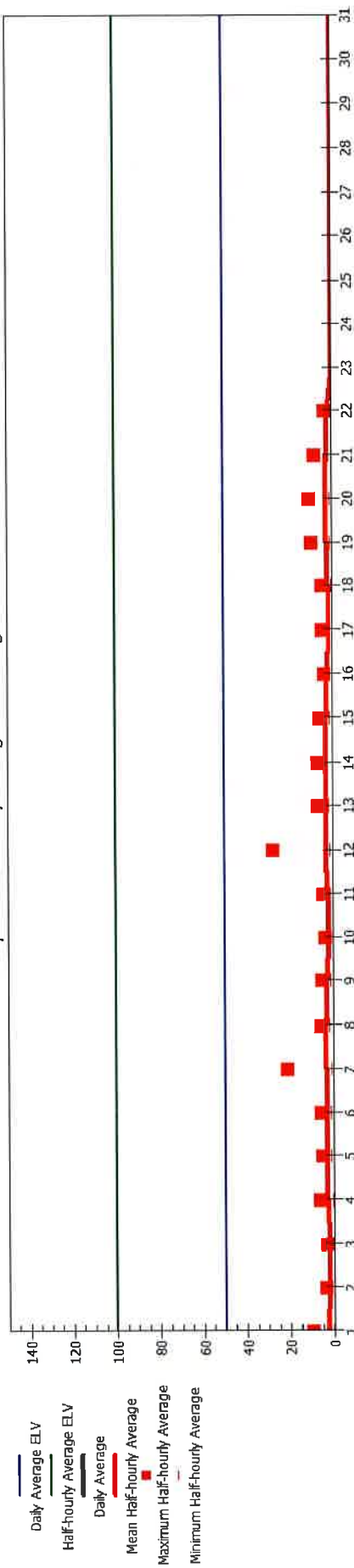
Installation: Beddington

Operator : Viridor

Form Number: AIR 4 / 23/07/13 [A1]

Reporting of Continuously Monitored Emissions to Air for CO mg/m3 at Emission Point A1 For the month of March 2019

Daily and Half-hourly Average Monitoring Data



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Half-hourly average	Half-hourly average ELV		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Monthly maximum	27	10	3	3	6	5	6	21	5	3	5	3	5	27	7	5	4	4	5	9	10	8	3	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Monthly mean	3	3	2	2	3	3	3	4	3	3	2	2	4	3	3	3	2	1	2	2	2	2	2	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Monthly minimum	0	0	1	1	0	1	1	1	1	2	1	1	1	1	2	2	2	1	0	0	1	1	0	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Daily average	Total Invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sum of exceedances of ELV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Value Valid?	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Daily average	Sum of exceedances	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Value Exceeds ELV?	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed: BULLOCK EHS MANAGER Date: 22.03.19

(Authorised to sign as a representative of the Operator)

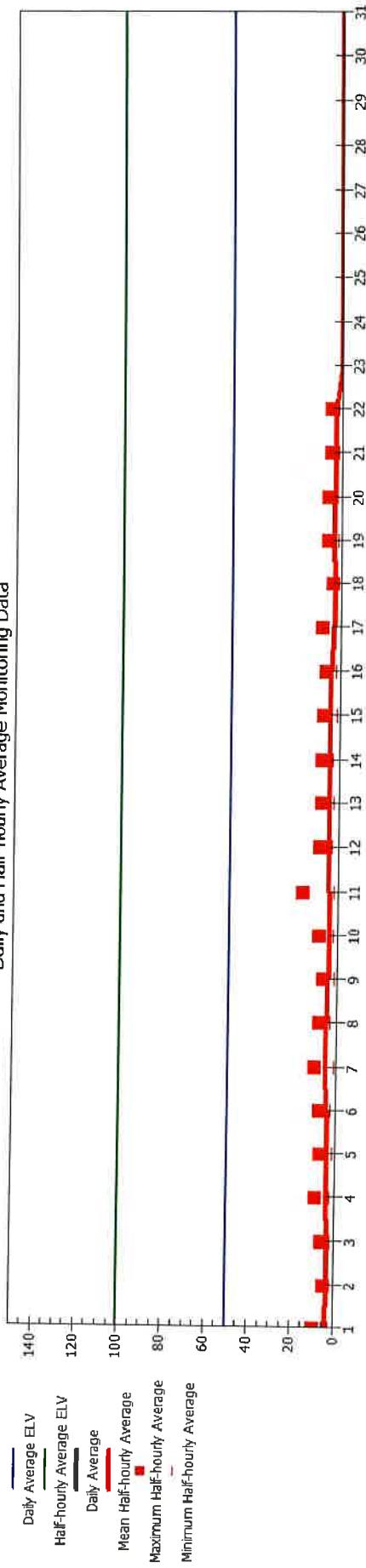
Permit Reference Number : EPR / TP3836CT
 Installation: Beddington

Operator : Viridor

Form Number: AIR 4 / 23/07/13 [A2]

Reporting of Continuously Monitored Emissions to Air for CO mg/m3 at Emission Point A2 For the month of March 2019

Daily and Half-hourly Average Monitoring Data



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Half-hourly average	Monthly maximum	Half-hourly average ELV	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Monthly mean	Maximum Half-hourly average	9	4	5	9	6	7	10	7	6	8	16	8	8	8	7	6	8	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Monthly minimum	Mean Half-hourly average	4	3	3	4	4	4	5	4	4	3	4	5	4	4	4	4	3	2	3	3	2	3	3	3	3	3	3	3	3	3	3	3
	Total Invalid results	Minimum Half-hourly average	2	2	2	2	1	3	1	3	1	2	2	3	2	3	1	2	0	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1
	Sum of exceedances	No of Invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily average	Monthly maximum	Sum of exceedances of ELV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Monthly minimum	Daily average ELV	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	No of invalid days	Daily average	4	3	3	4	4	4	5	4	4	3	4	5	4	4	4	4	3	2	3	3	2	3	3	3	3	3	3	3	3	3	3	3
	Sum of exceedances	Value Valid?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Value Exceeds ELV?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed B. SULLIVAN - EHS MANAGER Date 22.03.19
 (Authorised to sign as a representative of the Operator)

Permit Reference Number : EPR / TP3836CT

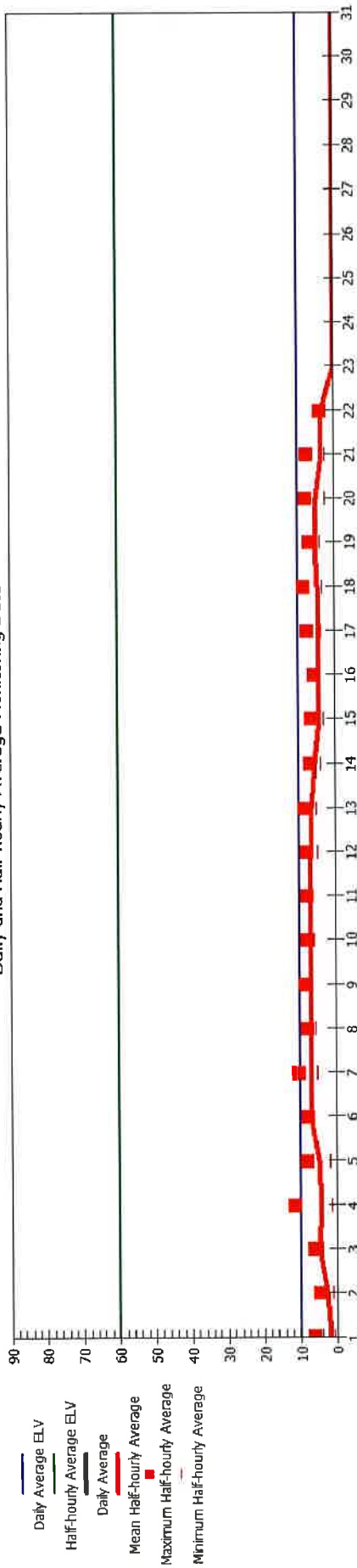
Installation: Beddington

Operator : Viridor

Form Number: AIR 3 / 23/07/13 [A1]

Reporting of Continuously Monitored Emissions to Air for HCl mg/m3 at Emission Point A1 For the month of March 2019

Daily and Half-hourly Average Monitoring Data



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Half-hourly average	Half-hourly average ELV		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	Monthly maximum	11	6	5	6	11	8	8	10	8	8	8	8	8	8	7	6	5	7	8	7	8	7	4	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Monthly mean	5	2	3	5	4	5	7	7	7	7	7	7	7	6	4	5	4	5	4	5	5	3	3	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Monthly minimum	1	1	1	4	2	2	6	5	6	6	7	5	5	4	3	4	4	3	4	2	2	3	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
	Total invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily average	Sum of exceedances of ELV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Daily average ELV		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	Value Valid?	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Sum of exceedances	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed: *BULLOCK - EHS MANAGER*

Date: 22.03.19

(Authorised to sign as a representative of the Operator)

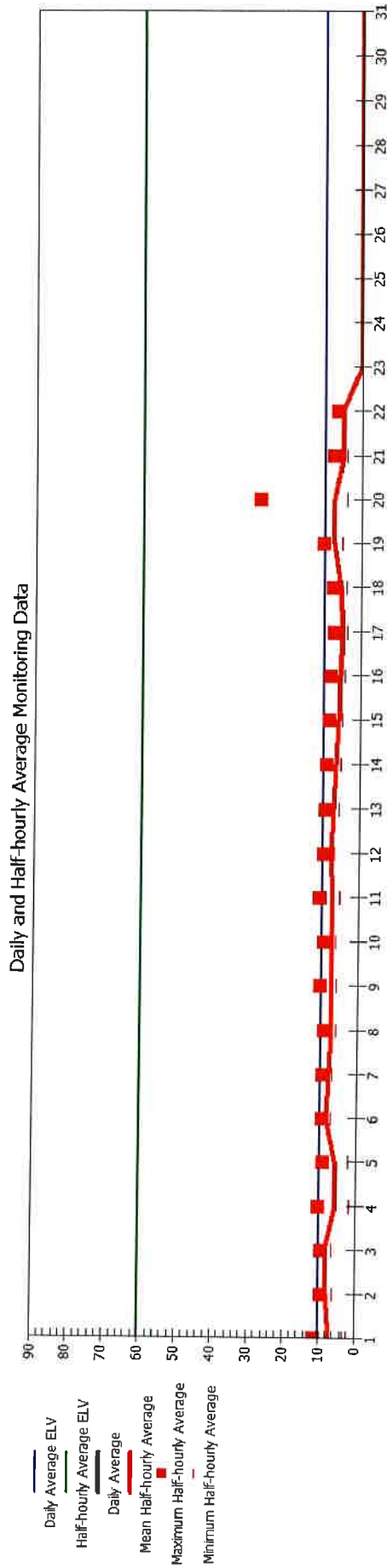
Permit Reference Number : EPR / TP3836CT

Operator : Viridor

Installation: Beddington

Form Number: AIR 3 / 23/07/13 [A2]

Reporting of Continuously Monitored Emissions to Air for HCl mg/m3 at Emission Point A2 For the month of March 2019



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Half-hourly average	Half-hourly average ELV		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	Monthly maximum	28	11	9	9	10	9	9	9	9	10	9	11	9	9	9	8	8	7	7	7	10	7	6	6	6	6	6	6	6	6	6	6
	Monthly mean	7	8	8	8	8	8	8	8	8	7	7	7	7	7	7	6	6	5	5	6	7	5	5	5	5	5	5	5	5	5	5	
	Monthly minimum	2	3	6	7	2	2	7	2	7	6	6	5	7	6	5	4	4	4	4	4	5	4	4	4	4	4	4	4	4	4	4	4
	Total invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sum of exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily average	Daily average ELV		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	Monthly maximum	8	7	8	8	5	6	8	8	7	7	7	7	8	7	7	6	6	5	5	6	7	5	5	5	5	5	5	5	5	5	5	5
	No of invalid days	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Sum of exceedances	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed: *BULLWIN-ELIS MANAGER*

Date: 22.03.19

(Authorised to sign as a representative of the Operator)

Permit Reference Number : EPR / TP3836CT

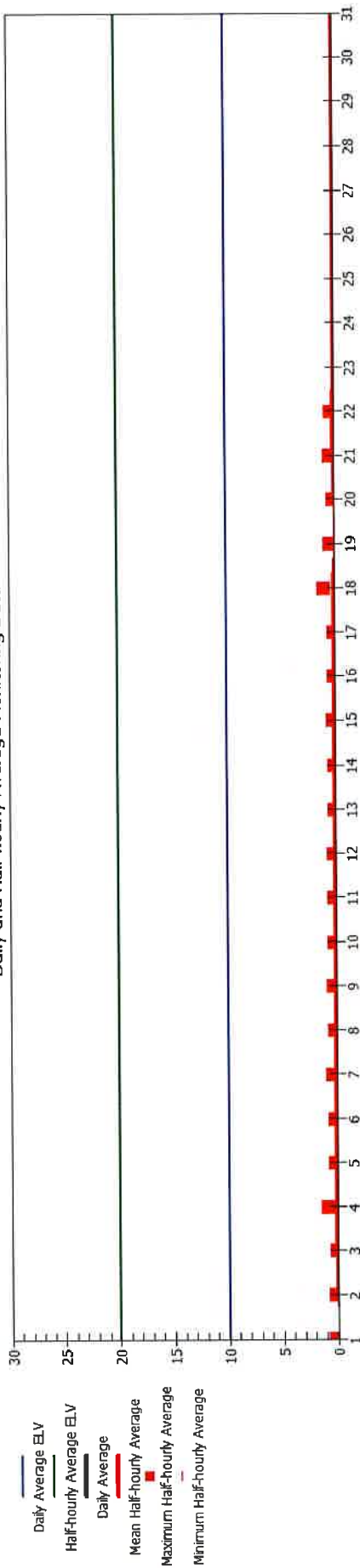
Operator : Viridor

Installation: Beddington

Form Number: AIR 2 / 23/07/13 [A1]

Reporting of Continuously Monitored Emissions to Air for VOC mg/m3 at Emission Point A1 For the month of March 2019

Daily and Half-hourly Average Monitoring Data



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Half-hourly average	Half-hourly average ELV		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	Maximum Half-hourly average	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Monthly mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Monthly minimum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily average	Total invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sum of exceedances of ELV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Daily average ELV		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Daily average	Monthly maximum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	No of invalid days	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Sum of exceedances	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Signed: *S. M. Khan* - EHS Manager
 Date: 22.03.19
 (Authorised to sign as a representative of the Operator)

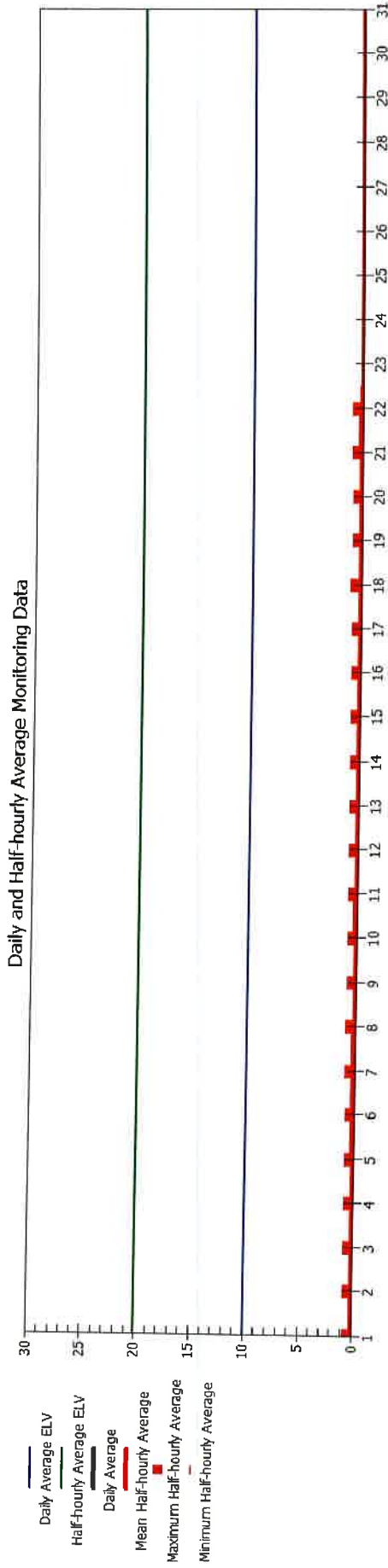
Permit Reference Number : EPR / TP3836CT

Operator : Viridor

Installation: Beddington

Form Number: AIR 2 / 23/07/13 [A2]

Reporting of Continuously Monitored Emissions to Air for VOC mg/m³ at Emission Point A2 For the month of March 2019



Monthly summary		Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Half-hourly average	Half-hourly average ELV		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
	Monthly maximum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Monthly mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Monthly minimum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total Invalid results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sum of exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily average	Daily average ELV		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
	Monthly maximum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	No of invalid days	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	Sum of exceedances	0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	

Signed: *B. Allen - EHL MANAKIT* Date: 22.03.19

(Authorised to sign as a representative of the Operator)



**SOUTH LONDON
WASTE PARTNERSHIP**

Report to: South London Waste Partnership (SLWP)
Joint Waste Committee

Date: April 2019

Report of: SLWP Management Group

Author(s): Annie Baker, Strategic Partnership Manager

Chair of the Meeting: Councillor Brunt, Chair of SLWP Joint Waste Committee

Report title:

Risk Report

Summary:

This report summarises key risk areas which are facing the partnership boroughs in relation to the waste disposal functions of the Joint Waste Committee.

Recommendations:

Joint Waste Committee is asked to note the contents of this report.

Background Documents:

Confidential risk register is held by the Strategic Partnership Manager, Annie Baker.

1. BACKGROUND

1.1. This report summarises key risk areas for the waste management contracts overseen by the Joint Waste Committee, based on the South London Waste Partnership team's risk register; this report summarises the key risks that should be noted at committee level. The full risk register is considered at the SLWP's Management Group and Strategic Steering Group.

2. KEY RISK AREAS

2.1. Areas have been included in this report where they are considered strategically important, for example because they are high scoring in terms of impact and/or likelihood, or have changed in score.

2.2. Recycling materials market changes

Following significant changes to global recycling material markets over the last year (for example China's changed import requirements), the value of some recycling materials has decreased significantly. As reported at the last Joint Waste Committee meeting, this has some impact on borough budgets (as some of our material generates income depending on the recycling's sale value) and also has an impact on our contractors as recycling income is built into the financial models of several of our waste management contracts. This continues to present a risk and the impact of a worsening level of income for recycling will continue to be managed through budget and contract management processes.

As a consequence of the market changes, reprocessors remain increasingly strict on the level of contamination they will accept in the recycling material. Material which is too contaminated requires further sorting if any of the material is to be recycled. Extra sorting increases the reprocessing costs for recycling and so some impact on budgets continues to be expected, as above.

Action currently undertaken to protect the quality of our recycling:

- An increasingly harmonised approach to recycling across the SLWP area means that messages about what to recycle can be simple and effective across our whole region. All boroughs now follow broadly the same recycling regime.
- Material which doesn't meet the contamination thresholds is being sent to specialist sorting facilities where the recyclable material is extracted.
- The poorest quality material we collect typically comes from communal collection containers where it is difficult to identify who might be putting the wrong material in the wrong bin, which can make communications work hard to target; we're working with organisations and networks to look at what we can learn from others and what good practice we can share in this area.

- The communal containers are typically collected on separate collection rounds which protects all the other recycling material we collect from unnecessary contamination.
- We're closely monitoring the quality of the materials being collected for recycling and the processes being followed to manage contamination.

Further planned activity to reduce contamination:

- We're looking at how we can best use and target our communications activities to further reduce contamination. This will form a part of our next communications plan.
- The "Destination Recycling" films, described in the communications report to this Committee, will highlight the importance of sorting materials into the correct containers.

2.3. Impact of recycling value changes on our contracts

Financial issues within contracts can have significant impacts on contract performance, likelihood of contract disputes and ultimately contracts cannot operate unless they are financially sustainable. Pressures such as the current global recycling market must be carefully considered when we formulate our approach to procurement of contracts and services. The changes and unpredictability of the recycling markets, which affects all our contracts, mean that this remains as a key focus for us at the present time.

2.4. Defra strategy consultation

Following publication of their Resource and Waste Strategy, Defra are currently consulting on the following matters:

- Reforming the packaging producer responsibility regulations in the UK
- Introducing a deposit return scheme for drinks containers in England, Northern Ireland and Wales
- Measures to accelerate consistency in recycling for both households and businesses in England

In addition, the Treasury is currently consulting on a plastic packaging tax.

These consultations run until mid-May 2019. The SLWP and the boroughs are currently considering the proposals set out by Defra with a view to both participating in the consultation and in assessing any risks that the proposals might present to the boroughs and the partnership.

2.5. Brexit

At the time of writing this report, a 'no deal' Brexit scenario remains a possibility. Analysis of the potential impact of Brexit has been undertaken with our contractors. Potential impacts including those relating the

workforce, recycling markets and supply of consumables have been considered. We do not expect any type of Brexit to prevent us from being able to safely dispose of our residual waste because of the waste disposal arrangements we have within the partnership's own area. Recycling markets and exports could be impacted by Brexit and in particular any scenario where transport movement through UK ports are affected.

3. RECOMMENDATIONS

- 3.1.** It is recommended that the Joint Waste Committee note the contents of this report.

4. IMPACTS AND IMPLICATIONS

4.1. Legal

There are no legal considerations arising directly from the recommendation in this report

4.2. Finance

There are no financial considerations arising directly from the recommendation in this report