

Summary Report - SONIA

Prepared for

WMBA Limited

September 2017



September 2017

Table of Contents

_	mited Assurance Assessment	3
2	ontext	6
C	OSCO Principles and Response	8
	1. Overall Responsibility of the Administrator	8
	2. Oversight of Third Parties	10
	3. Conflicts of Interest for Administrators	12
	4. Control Framework for Administrators	14
	5. Internal Oversight	17
	6. Benchmark Design.	20
	7. Data Sufficiency	21
	8. Hierarchy of Data Inputs	23
	9. Transparency of Benchmark Determinations	25
	10. Periodic Review.	26
	11. Content of the Methodology	27
	12. Changes to the Methodology	29
	13. Transition	31
	14. Submitter Code of Conduct	34
	15. Internal Controls over Data Collection	37
	16. Complaints Procedures	38
	17. Audits	40
	18. Audit Trail	41
	19. Cooperation with Regulatory Authorities	. 43

September 2017

Limited Assurance Assessment

The Directors
WMBA Limited
Warnford Court
29 Throgmorton Street
London EC2N 2AT

Re: Limited Assurance Assessment of Compliance with the IOSCO¹ Principles for Financial Benchmarks (the "IOSCO Principles")² for the Sterling Overnight Index Average ("SONIA") as of 31 July 2017.

12 September 2017

Dear Directors:

WMBA Limited³ engaged Promontory Financial Group, an IBM Company, ("Promontory" or "we") to perform a limited assurance assessment of compliance with the IOSCO Principles with regard to WMBA Limited's activities in relation to the SONIA benchmark.

BACKGROUND

The Bank of England became an administrator of the SONIA benchmark in April 2016. The Bank of England and WMBA Limited entered into a Services Agreement in relation to SONIA, under which WMBA Limited provides services to the Bank of England for the calculation and publication of SONIA. WMBA Limited, in providing these services, is responsible for compliance with certain of the IOSCO Principles, including designing, implementing and monitoring adherence to policies and procedures that achieve such compliance.

Promontory performed a limited assurance review of WMBA Limited's compliance with the relevant IOSCO Principles.

¹ IOSCO, the International Organization of Securities Commissions

² http://www.iosco.org/library/pubdocs/pdf/IOSCOPD415.pdf

³ WMBA Limited is owned by WMBA Limited & LEBA (Holdings) Ltd., a private company limited by guarantee by the Wholesale Market Brokers' Association and London Energy Brokers' Association member firms. WMBA Limited was formed to administer the data businesses of the Wholesale Market Brokers' Association.

September 2017

For the avoidance of doubt, we have not evaluated, nor should be construed as commenting upon, any aspect of the Bank of England's administration of SONIA, including in relation to the IOSCO Principles.

PROMONTORY'S APPROACH

Promontory designed assessment procedures based on our professional judgement. These procedures included inquiry, inspection of documents supplied by WMBA Limited, and interviews with WMBA Limited's staff. Promontory's assessment took account of WMBA Limited's work previously undertaken or currently planned as at 31 July 2017 with regard to WMBA Limited's activities in relation to SONIA. Promontory also reviewed WMBA Limited's Statement of Compliance with the IOSCO Principles dated July 2017 (the "Statement of Compliance") as it applies to the SONIA benchmark⁴.

Promontory's procedures were designed to give an understanding of the relevant facts sufficient to enable us to identify areas where a material misstatement in the Statement of Compliance would be likely to arise and to establish a basis for providing limited assurance concerning the substance of the Statement of Compliance.

Promontory's assessment did not entail testing the accuracy or completeness of any information, reports, or operational processes themselves; nor did any procedures enable us to reach conclusions regarding the effectiveness or operation of policies or controls. Accordingly, Promontory does not express any views on these matters.

In addition, Promontory should not be considered as expressing a view on conformance of the SONIA benchmark against applicable regulatory requirements.

INHERENT LIMITATIONS OF THE ASSESSMENT

Promontory's procedures were subject to certain inherent limitations and, accordingly, errors or irregularities may have occurred and not have been detected. By way of example, Promontory's procedures could not guarantee protection against fraudulent collusion, especially on the part of those holding positions of trust and authority.

Moreover, the validity and reliability of a benchmark is dependent on third parties that provide input data to the benchmark administrator, for which the data providers are solely responsible. Promontory performed no procedures regarding, and expresses no views concerning, source data provided by third parties.

⁴ Promontory notes that the Statement of Compliance applies to a portfolio of indices and benchmarks.

September 2017

Promontory's conclusion is based on information provided by WMBA Limited as at 31 July 2017. Promontory does not project any information or conclusions to future periods.

CONCLUSION

Based on the results of these procedures, nothing has come to our attention that causes Promontory to believe that the Statement of Compliance, as it applies to the SONIA benchmark, is not fairly stated in all material respects.

PROMONTORY FINANCIAL GROUP, AN IBM COMPANY

Context

The Sterling Overnight Index Average, SONIA, is a benchmark interest rate for overnight unsecured lending in the Sterling money markets. It is calculated daily, as the volume-weighted average interest rate on all eligible unsecured Sterling overnight cash transactions brokered by participating member firms of the Wholesale Markets Brokers' Association.

Administration of SONIA

The Wholesale Markets Brokers' Association, and subsequently WMBA Limited, administered SONIA from the inception of the benchmark in 1997. The Bank of England and WMBA Limited entered into an Assignment and Licence-back Agreement in October 2015, under which the Bank of England purchased the intellectual property rights for SONIA from WMBA Limited. Under this same agreement, the Bank of England licenced back to WMBA Limited the acquired intellectual property rights for the purposes of calculating, publishing and offering the SONIA benchmark.

The Bank of England became an administrator of SONIA on 25 April 2016, assuming overall responsibility for the benchmark and providing oversight and governance. The Bank of England and WMBA Limited entered into a Services Agreement (the "Services Agreement") in relation to the SONIA index, dated April 2016, under which WMBA Limited provides services to the Bank of England for the calculation and publication of SONIA, subject to performance criteria established by the Bank of England. WMBA Limited thus continues to calculate and publish SONIA, in the same way as previously, but now on behalf of the Bank of England.

Reform Process for SONIA

In 2015, the Bank of England launched a reform process for SONIA, with the intent to ensure that the benchmark remains robust over the long term. This process is part of the broad reform agenda for interest rate benchmarks laid out by the Financial Stability Board in 2014. The reform is currently progressing and is anticipated to result in enhancements to the benchmark design in 2018. As of the date of this report, SONIA is calculated as it has been historically, based on transactions brokered by a set of Wholesale Markets Brokers' Association member firms.

⁵ http://www.bankofengland.co.uk/markets/Pages/benchmarks/soniareform.aspx

⁶ http://www.fsb.org/2014/07/r_140722/

SONIA Advisory Committee

The Bank of England has established the SONIA Advisory Committee as a committee of the Bank of England. Under its Terms of Reference 7, the SONIA Advisory Committee provides advice to the Bank of England in the Bank of England's capacity as a SONIA administrator. Specifically, the SONIA Advisory Committee provides challenge on all aspects of the benchmark design, and on the determination of the benchmark by WMBA Limited. These roles of the SONIA Advisory Committee are anticipated to remain in effect while SONIA is determined on its current basis.

UK Regulation

SONIA is a "specified benchmark" under the UK Financial Services and Markets Act 2000, with regulatory oversight by the UK Financial Conduct Authority ("FCA"). The FCA regulates WMBA Limited in respect of SONIA.

IOSCO Principles

The Bank of England notes on its website * that it has designed its governance arrangements for administering SONIA to be consistent with the intent of regulations and international best practice, as encapsulated by the IOSCO Principles for Financial Benchmarks. WMBA Limited, in providing services to the Bank of England for SONIA, is responsible for compliance with certain of the IOSCO Principles, including designing, implementing and monitoring adherence to policies and procedures that achieve such compliance. The scope of applicability of the IOSCO Principles to WMBA Limited is largely operational in nature. In the report below, Promontory indicates the aspects of the Principles that we believe are applicable to WMBA Limited in this role.

For the avoidance of doubt, we have not evaluated, nor should be construed as commenting upon, any aspect of the Bank of England's administration of SONIA, nor of the activities of the SONIA Advisory Committee, including in relation to the IOSCO Principles.

⁷ http://www.bankofengland.co.uk/markets/Documents/soniacommtor.pdf

⁸ http://www.bankofengland.co.uk/markets/Pages/benchmarks/sonia.aspx

IOSCO Principles and Response

1. Overall Responsibility of the Administrator

IOSCO Principle⁹

The Administrator should retain primary responsibility for all aspects of the Benchmark determination process. For example, this includes:

- a) Development: The definition of the Benchmark and Benchmark Methodology;
- b) Determination and dissemination: Accurate and timely compilation and publication and distribution of the Benchmark;
- c) Operation: Ensuring appropriate transparency over significant decisions affecting the compilation of the Benchmark and any related determination process, including contingency measures in the event of absence of or insufficient inputs, market stress or disruption, failure of critical infrastructure, or other relevant factors; and
- d) Governance: Establishing credible and transparent governance, oversight and accountability procedures for the Benchmark determination process, including an identifiable oversight function accountable for the development, issuance, and operation of the Benchmark.

WMBA Limited Comment

This Principle is considered applicable for WMBA Limited only in respect of the determination, dissemination and operation of SONIA.

SONIA is a "specified benchmark" under the UK Financial Services and Markets Act 2000. WMBA Limited is regulated by the UK Financial Conduct Authority for the activities that it undertakes in relation to the benchmark. WMBA Limited strives to comply with the relevant rules of the FCA Handbook, with particular regard to the aspects of MAR 8.3 "Requirements for Benchmark Administrators", as applicable to the services provided by WMBA Limited to the Bank of England in relation to SONIA.

Furthermore:

- WMBA Limited's operational responsibilities with respect to SONIA are specified in the Services Agreement with the Bank of England.
- In executing its responsibilities for SONIA, WMBA Limited observes the overall approach set forth in the policystatement, the WMBA Limited Benchmark Administration Control Framework, in respect of the provision of calculation and publication services.
- WMBA Limited determines SONIA in accordance

Work performed by Promontory

Promontory ("we") reviewed WMBA Limited's Benchmark Administration Control Framework, the Services Agreement and the SONIA Benchmark Methodology. We examined the WMBA Limited policies that support the framework in these foundational statements and the Services Agreement. We also interviewed WMBA Limited management and staff responsible for the determination of SONIA to understand how WMBA Limited's calculation and publication activities are conducted in practice.

- Promontory inspected the Services Agreement to understand the specification of WMBA Limited's operational roles and responsibilities.
- Promontory reviewed the determination process outlined in the SONIA Benchmark Methodology and the details of the publication process. We observed on site a daily cycle of the determination of SONIA.
- Promontory reviewed the SONIA Benchmark Methodology and supporting policies to understand the contingency measures in the event of insufficient data inputs or when other factors may disrupt the determination and publication process; and
- We also conducted interviews with members of

⁹ Text from the IOSCO Principle with the term "Administrator" meaning a Benchmark Administrator. Capitalised terms are per the meaning as set out in the IOSCO Principles for Financial Benchmarks dated July 2013.

with the published SONIA Benchmark Methodology The determination and dissemination of SONIA is undertaken by dedicated staff in WMBA Limited, with responsibility for the accurate and timely publication and distribution of the benchmark. WMBA Limited has a dopted and published procedures in case of market stress or other disruptions that may impact the accurate or timely determination of SONIA.	their responsibilities related to the benchmark.
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2. Oversight of Third Parties					
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory			
Where activities relating to the Benchmark determination process are undertaken by third parties—for example collection of inputs, publication or where a third party acts as Calculation Agent—the Administrator should maintain appropriate oversight of such third parties. The Administrator (and its oversight function) should consider a dopting policies and procedures that:	The Bank of England, as administrator of SONIA, oversees WMBA Limited in respect of the calculation and publication services provided to the Bank in accordance with the terms of the Services Agreement. Accordingly, under this Principle, WMBA Limited comments only to the oversight that WMBA Limited itself undertakes of other third parties in respect of services in relation to the benchmark.	Promontory reviewed the SONIA Benchmark Methodology and supporting policies to assess WMBA Limited's reliance on third parties in the determination process. a) Promontory reviewed the relevant WMBA Limited policies in respect of third party oversight, including the Submitter's Code of			
 a) Clearly define and substantiate through appropriate written arrangements the roles and obligations of third parties who participate in the Benchmark determination process, as well as the standards the Administrator expects these third parties to comply with; b) Monitor third parties' compliance with the standards set out by the Administrator; c) Make Available to Stakeholders and any relevant Regulatory Authority the identity and roles of third parties who participate in the Benchmark determination process; and d) Take reasonable steps, including contingency plans, to avoid undue operational risk related to the participation of third parties in the Benchmark determination process. This Principle does not apply in relation to a third party from whom an Administrator sources data if that third party is a Regulated Market or Exchange. 	 (i) WMBA Limited sources input data for SONIA from a range of firms a mong the Wholesale Markets Brokers' Association members hip, under documented Data Supply Agreements. As detailed under Principle 14 below, WMBA Limited has put in place codes of practice, including the Submitter's Code of Conduct and the Data Quality Code for Submissions setting forth the standards that WMBA Limited expects to be observed by these firms in providing the requisite data. (ii) WMBA Limited uses two externally-hosted data servers, and relies on external support for the office server and computer environments. With respect to the above third parties: a) Expectations for the providers of input data for SONIA are set forth in the above-mentioned codes of practice, as a ppropriate to their roles. Service Level Agreements are in place with the technology service providers, setting out the terms in place to minimise operational and technology risks for the services provided to 	Conduct and the Data Quality Code for Submissions. b) Promontory reviewed a selection of summary reports on data provider performance provided to the SONIA Advisory Committee, as well as more detailed internal WMBA Limited reports and logs, to understand how WMBA Limited conducts its oversight responsibilities in respect of third parties. c) Promontory confirmed that the members of the Wholesale Markets Brokers' Association who provide data for SONIA were listed publicly on WMBA Limited's website. d) Promontory reviewed the SONIA Benchmark Methodology document to determine the existence and adequacy of procedures for market stress and noted the disaster recovery processes listed in WMBA Limited's Business Continuity and Disaster Recovery Policy.			
	WMBA Limited.b) WMBA Limited monitors the operational performance of data providers to SONIA in real-				

time during the daily contribution and determination activities. WMBA Limited provides regular reports on the quality of the data provision to the Bank of England, as administrator, and to the SONIA Advisory Committee.

WMBA Limited conducts on-site visits to the data providers to SONIA on a periodic basis, to review conformance with the data provision standards.

In respect of the IT infrastructure, WMBA Limited's IT Systems and Controls manual describes how WMBA Limited has access to an automated system-monitoring tool provided by the server host.

In addition to the automated tool, parallel independent operations are carried out daily on the two data servers, making discrepancies readily identifiable.

- c) The entities providing data for the determination of SONIA are listed on WMBA Limited's website.
 The above-mentioned codes of practice are similarly published on the website.
- d) WMBA Limited regularly reviews and tests contingency arrangements for the determination and publication of SONIA under market and operational stress conditions. The WMBA Limited Operational Impact Assessment Policy describes how WMBA Limited determines the level of impact that an anomalous event would have on the SONIA benchmark, the mitigating controls in place to avoid the occurrence or repeat of an event, actions to be taken by WMBA Limited including when an incident report would be raised, and the identification of the parties to which the escalation of events would be required.

3. Conflicts of Interest for Administrators					
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory			
To protect the integrity and independence of Benchmark determinations, Administrators should document, implement, and enforce policies and procedures for the identification, disclosure, management, mitigation or avoidance of conflicts of interest. Administrators should review and update their	WMBA Limited has a framework, policies and procedures in place to identify, manage, and avoid conflicts of interest. All staff are made fully aware of the WMBA Limited's Conflicts of Interest Policy. On an annual basis all Directors and WMBA Limited staff must formally confirm their records of potential conflicts of interest.	Promontory reviewed WMBA Limited's Conflict of Interest Policy and relevant sections of WMBA Limited's Compliance Manual, Ethics Policy and Employee Manual. a) Promontory noted that the obligation of WMBA Limited to disclose conflicts of interest is contained in these policies.			
policies and procedures as appropriate. Administrators should disclose any material conflicts of interest to their users and any relevant Regulatory Authority, if any.	a), b) WMBA Limited has established a Conflicts of Interest Policy and an associated Conflicts Risk Map. The policy provides for procedures and controls for identifying, managing, recording and,	b) We also noted in these policies the expectation that employees will not compromise WMBA Limited's business through personal interest or connections.			
The framework should be appropriately tailored to the level of existing or potential conflicts of interest identified and the risks that the Benchmark poses and should seek to ensure:	where relevant, disclosing actual or potential conflicts of interest. The Conflicts of Interest Policy is applicable to all	 Promontory obtained a copy of WMBA Limited's organisation structure and job descriptions to confirm segregation of reporting lines. 			
a) Existing or potential conflicts of interest do not inappropriately influence Benchmark determinations;	Directors, employees and consultants employed by WMBA Limited. Conflicts, where identified, are recorded within a Conflicts Register.	d) Promontory reviewed operational service documents that outline calculation controls in place for SONIA.			
b) Personal interests and connections or business connections do not compromise the Administrator's performance of its functions;	c) WMBA Limited maintains job descriptions for the various roles within the firm which provide for an appropriate segregation of responsibilities for the determination of SONIA.	e) Promontory noted the standards of confidentiality contained within the relevant policies and manuals above.			
c) Segregation of reporting lines within the Administrator, where appropriate, to clearly define responsibilities and prevent unnecessary or undisclosed conflicts of interest or the perception of such conflicts;	determination of SONIA. d) Since SONIA is a purely transactions-based benchmark with specific rules for the eligibility of transactions, WMBA Limited exercises no discretion in the daily determination process, beyond ensuring operational integrity. The data	f) Promontory also reviewed the confidentiality standards and procedures with regard to third parties where WMBA Limited exercises an oversight role. g) Promontory conducted interviews with WMBA			
d) Adequate supervision and sign-off by authorised or qualified employees prior to releasing Benchmark determinations;	contributions are subject to system-based controls and the benchmark determination is reviewed prior to release by the benchmark	Limited's compliance officer and benchmark management to confirm that employees are not incentivised by the benchmark level.			
e) The confidentiality of data, information and other inputs submitted to, received by or produced by the Administrator, subject to the	operations manager. e) The WMBA Limited Employee Manual and the WMBA Limited Ethics Policy set standards	Promontory inspected minutes from the WMBA Limited's Board of Directors' meetings and noted the			

disclosure obligations of the Administrator;

- f) Effective procedures to control the exchange of information between staff engaged in activities involving a risk of conflicts of interest or between staff and third parties, where that information may reasonably affect any Benchmark determinations; and
- g) Adequate remuneration policies that ensure all staff who participate in the Benchmark determination are not directly or indirectly rewarded or incentivised by the levels of the Benchmark.

An Administrator's conflict of interest framework should seek to mitigate existing or potential conflicts created by its ownership structure or control, or due to other interests the Administrator's staff or wider group may have in relation to Benchmark determinations. To this end, the framework should:

- a) Include measures to avoid, mitigate or disclose conflicts of interest that may exist between its Benchmark determination business (including all staff who perform or otherwise participate in Benchmark production responsibilities), and any other business of the Administrator or any of its affiliates; and
- b) Provide that an Administrator discloses conflicts of interest arising from the owners hip structure or the control of the Administrator to its Stakeholders and any relevant Regulatory Authority in a timely manner.

- regarding confidentiality of information and safeguarding non-public information. This includes input data and other information in relation to the determination of SONIA.
- f) Within WMBA Limited, access to data for the determination of SONIA is limited to designated staff. External communications are monitored by WMBA Limited Compliance.
- g) No WMBA Limited staff involved with the determination of SONIA are remunerated or incentivised directly or indirectly by the level of the benchmark.

The Wholesale Markets Brokers' Association has placed its benchmark activities, including those in respect of SONIA, within a separate entity, WMBA Limited, in part to mitigate any potential conflicts of interest.

- a) All Directors and staff of WMBA Limited must disclose any conflicts of interest and report them through the Conflicts Register.
- The Conflicts Register is established to meet the record-keeping requirements of the UK Financial Conduct Authority.

Board's regard to conflicts of interest matters.

- a) Promontory reviewed the Conflicts of Interest register.
- b) Promontory noted the reporting requirements to the UK Financial Conduct Authority as outlined in the Compliance Manual.

4. Control Framework for Administrators				
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory		
IOSCO Principle An Administrator should implement an appropriate control framework for the process of determining and distributing the Benchmark. The control framework should be appropriately tailored to the materiality of the potential or existing conflicts of interest identified, the extent of the use of discretion in the Benchmark setting process and to the nature of Benchmark inputs and outputs. The control framework should be documented and available to relevant Regulatory Authorities, if any. A summary of its main features should be Published or Made Available to Stakeholders. This control framework should be reviewed periodically and updated as appropriate. The framework should address the following areas: a) Conflicts of interest in line with Principle 3 on conflicts of interests; b) Integrity and quality of Benchmark determination: i. Arrangements to ensure that the quality and integrity of Benchmarks is maintained, in line with principles 6 to 15 on the quality of		Promontory performed the following work to review WMBA Limited's control framework in respect of Principle 4: a) Promontory examined WMBA Limited's Conflicts of Interest Policy as detailed in Principle 3. b) Promontory reviewed the SONIA Benchmark Methodology, Submitter's Code of Conduct, and the Data Quality Code, and interviewed WMBA Limited staff to understand the processes to ensure integrity of the determination and publication of the SONIA benchmark. This included review of: i. the operational support and controls to ensure maintenance of the quality of the SONIA benchmark, as discussed under Principles 14 and 15, as relevant to WMBA Limited for calculation and publication activities; ii. the standards for data input set forth in the codes of practice; iii. the documented policies and procedures supporting the accountability measures, as set out Principles 16 to 19; and		
the Benchmark and Methodology; ii. Arrangements to promote the integrity of Benchmark inputs, including a dequate due diligence on input sources;	Data Quality Code for Submissions setting forth the standards WMBA Limited expects to be observed by entities providing the requisite data for the determination of	iv. the documented policies and procedures referring to the design of the operational and technical infrastructure supporting the benchmark. We also interviewed key		
iii. Arrangements to ensure accountability and complaints mechanisms are effective, in line with principles 16 to 19; and	SONIA; iii. establishment of complaints management, record keeping and audit policies and	WMBA Limited staff to understand operating processes, controls, and business continuity plans.		
iv. Providing robust infrastructure, policies and procedures for the management of risk, including operational risk.	processes; and iv. development of infrastructure, operating policies and processes to manage and	c) Promontory obtained copies of, and examined, WMBA Limited's Whistleblowing Policy.		

- c) Whistleblowing mechanism:
 Administrators should establish an effective whistleblowing mechanism to facilitate early awareness of any potential misconduct or irregularities that may arise. This mechanism should allow for external reporting of such cases where appropriate.
- d) Expertise:
 - Ensuring Benchmark determinations are made by personnel who possess the relevant levels of expertise, with a process for periodic review of their competence; and
 - Staff training, including ethics and conflicts of interest training, and continuity and succession planning for personnel.

Where a Benchmark is based on Submissions: Administrators should promote the integrity of inputs by:

- a) Ensuring as far as possible that the Submitters comprise an appropriately representative group of participants taking into consideration the underlying Interest measured by the Benchmark;
- Employing a system of appropriate measures so that, to the extent possible, Submitters comply with the Submission guidelines, as defined in the Submitter's Code of Conduct and the Administrators' applicable quality and integrity standards for Submission;
- Specifying how frequently Submissions should be made and specifying that inputs or Submissions should be made for every Benchmark determination; and
- d) Establishing and employing measures to effectively monitor and scrutinise inputs or Submissions. This should include pre-compilation or pre-publication monitoring to identify and avoid errors in inputs or Submissions, as well as

- minimise operational and technical risks in the production of the benchmark.
- Established a Whistleblowing Policy and Procedure.
- d) Established staffrole descriptions, specifying competencies and experience levels required, and a staff training compliance and ethics training program.

As noted under Principle 14 below, standards for entities providing data for the determination of SONIA are set forth in a number of codes of practice, including the Submitter's Code of Conduct and the Data Quality Code for Submissions. Operational and analytic processes are in place to review the quality of the data inputs, with a hierarchy of reporting of the results of these reviews, including regular reports on the quality of the data provision to the Bank of England, as administrator, and to the SONIA Advisory Committee.

- d) Promontory further:
 - Interviewed WMBA Limited staff included in the benchmark calculation and publication process; and
 - ii. Reviewed materials for the WMBA Limited's Compliance Training Program used by WMBA Limited's Compliance Department, and the Market Abuse and Suspicious Transaction Reporting Procedures policy.

Specifically with regard to the input data provision, Promontory:

- a) examined the SONIA Benchmark Methodology for a review of SONIA's specification and eligible trades;
- inspected the codes of practice to confirm that contribution standards are detailed:
- c) reviewed the aforementioned documents to confirm the determination process, including benchmark frequency; and
- d) reviewed the pre- and post- quality checks performed, and the associated reporting to WMBA Limited management, the Bank of England as administrator, and to the SONIA Advisory Committee.

ex-post analysis of trends and outliers.	

5. Internal Oversight		
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory
Administrators should establish an oversight function to review and provide challenge on all aspects of the Benchmark determination process. This should include consideration of the features and intended, expected, or known usage of the Benchmark and the materiality of existing or potential conflicts of interest identified.	This Principle is not considered applicable in respect of WMBA Limited's responsibilities for SONIA.	Not applicable.
The oversight function should be carried out either by a separate committee, or other appropriate governance arrangements. The oversight function and its composition should be appropriate to provide effective scrutiny of the Administrator. Such oversight function could consider groups of Benchmarks by type or asset class, if it otherwise complies with this Principle.		
An Administrators hould develop and maintain robust procedures regarding its oversight function, which should be documented and available to relevant Regulatory Authorities, if any. The main features of the procedures should be Made Available to Stakeholders. These procedures should include: a) The terms of reference of the oversight function;		
b) Criteria to select members of the oversight function;		
The summary details of membership of any committee or arrangement charged with the oversight function, along with any declarations of conflicts of interest and processes for election, nomination or removal and replacement of committee members. The responsibilities of the oversight function include:		

a)	Ove	ersight of the Benchmark Design:
	i.	Periodic review of the definition of the Benchmark and its Methodology;
	ii.	Taking measures to remain informed about issues and risks to the Benchmark, as well as commissioning external reviews of the Benchmark (as appropriate);
	iii.	Overseeing any changes to the Benchmark Methodology, including assessing whether the Methodology continues to appropriately measure the underlying Interest, reviewing proposed and implemented changes to the Methodology, and authorising or requesting the Administrator to undertake a consultation with Stakeholders where known or its Subscribers on such changes as per Principle 12; and
	iv.	Reviewing and approving procedures for termination of the Benchmark, including guidelines that set out how the Administrator should consult with Stakeholders a bout such cessation.
b)		ersight of the integrity of Benchmark ermination and control framework:
	i.	Overs eeing the management and operation of the Benchmark, including activities related to Benchmark determination undertaken by a third party;
	ii.	Considering the results of internal and external audits, and following up on the implementation of remedial actions highlighted in the results of these audits; and
	iii.	Overseeing any exercise of Expert Judgement by the Administrator and

	ensuring Published Methodologies have
	been followed.
Ι,	/here conflicts of interests may arise in the
	dministrator due to its ownership structures or
	ontrolling interests, or due to other activities
	onducted by any entity owning or controlling the
	dministrator or by the Administrator or any of its
	ffiliates: the Administrator's hould establish an
	dependent oversight function which includes a alanced representation of a range of Stakeholders
	here known, Subscribers and Submitters, which is
	nosen to counterbalance the relevant conflict of
i	iterest.
١.,	
	/here a Benchmark is based on Submissions: the versight function should provide suitable oversight
	nd challenge of the Submissions by:
a	
١	monitoring of inputs or Submissions by the
	Administrator. This could include regular
	discussions of inputs or Submission patterns,
	defining parameters against which inputs or
	Submissions can be a nalysed, or querying the role of the Administrator in challenging or
	sampling unusual inputs or Submissions;
b	
c	
`	breaches of the Code of Conduct for Submitters;
	and
d	Establishing measures to detect potential
	a nomalous or suspicious Submissions and in case
	of suspicious activities, to report them, as well as
	any misconduct by Submitters of which it
	becomes a ware to the relevant Regulatory Authorities, if any.
L	Addioitues, it dify.

6. Benchmark Design		
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory
The design of the Benchmark should seek to achieve and result in an accurate and reliable representation of the economic realities of the Interest it seeks to measure, and eliminate factors that might result in a distortion of the price, rate, index or value of the Benchmark.	This Principle is not considered a pplicable in respect of WMBA Limited's responsibilities for SONIA.	Not applicable.
Benchmark design should take into account the following generic non-exclusive features, and other factors should be considered, as a ppropriate to the particular Interest:		
 a) Adequacy of the sample used to represent the Interest; 		
 b) Size and liquidity of the relevant market (for example whether there is sufficient trading to provide observable, transparent pricing); 		
 Relative size of the underlying market in relation to the volume of trading in the market that references the Benchmark; 		
 d) The distribution of trading among Market Participants (market concentration); 		
e) Market dynamics (e.g., to ensure that the Benchmark reflects changes to the assets underpinning a Benchmark).		

7. Data Sufficiency				
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory		
The data used to construct a Benchmark determinations hould be sufficient to accurately and reliably represent the Interest measured by the Benchmark and should:	This Principle is not considered applicable in respect of WMBA Limited's responsibilities for SONIA.	Not applicable.		
 a) Be based on prices, rates, indices or values that have been formed by the competitive forces of supply and demand in order to provide confidence that the price discovery system is reliable; and 				
b) Be anchored by observable transactions entered into at arm's length between buyers and sellers in the market for the Interest the Benchmark measures in order for it to function as a credible indicator of prices, rates, indices or values. This Principle requires that a Benchmark be based upon (i.e., anchored in) an active market having observable Bona Fide, Arms-Length Transactions. This does not mean that every individual Benchmark determination must be constructed solely of transaction data. Provided that an active market exists, conditions in the market on any given day might require the Administrator to rely on different forms of data tied to observable market data as an adjunct or supplement to transactions. Depending upon the Administrator's Methodology, this could result in an individual Benchmark determination being based predominantly, or exclusively, on bids and				
offers or extrapolations from prior transactions. This is further clarified in Principle 8. Provided that subparagraphs (a) and (b) above				
are met, Principle 7 does not preclude benchmark administrators from using executable bids or offers as a means to construct				

Benchmarks where anchored in an observable market consisting of Bona Fide, Arms-Length transactions. This Principle also recognises that various indices may be designed to measure or reflect the performance of a rule-based investment strategy, the volatility, or behaviour of an index or market or other aspects of an active market. Principle 7 does not preclude the use of nontransactional data for such indices that are not designed to represent transactions and where the nature of the index is such that nontransactional data is used to reflect what the index is designed to measure. For example, certain volatility indices, which are designed to measure the expected volatility of an index of securities transactions, rely on non-transactional data, but the data is derived from and thus "anchored" in an actual functioning securities or options market.

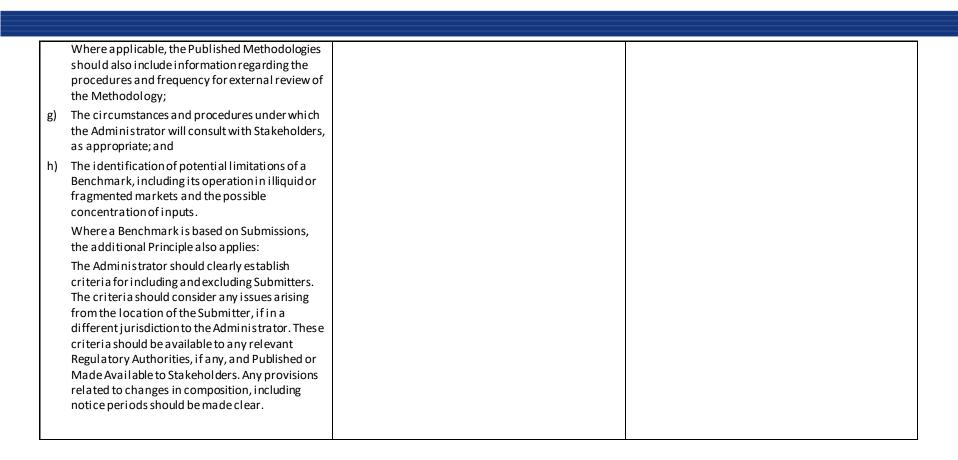
8. Hierarchy of Data Inputs		
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory
An Administrator should establish and Publish or Make Available clear guidelines regarding the hierarchy of data inputs and exercise of Expert Judgement used for the determination of Benchmarks. In general, the hierarchy of data inputs should include:	This Principle is not considered applicable in respect of WMBA Limited's responsibilities for SONIA.	Not applicable.
 a) Where a Benchmark is dependent upon Submissions, the Submitters' own concluded arms-length transactions in the underlying interest or related markets; 		
b) Reported or observed concluded Arm's-length Transactions in the underlying interest;		
c) Reported or observed concluded Arm's-length Transactions in related markets;		
d) Firm (executable) bids and offers; and		
e) Other market information or Expert Judgements.		
Provided that the Data Sufficiency Principle is met (i.e., an active market exists), this Principle is not intended to restrict an Administrator's flexibility to use inputs consistent with the Administrator's approach to ensuring the quality, integrity, continuity and reliability of its Benchmark determinations, as set out in the Administrator's Methodology. The Administrator should retain flexibility to use the inputs it believes are appropriate under its Methodology to ensure the quality and integrity of its Benchmark. For example, certain Administrators may decide to rely upon Expert Judgement in an active albeit low liquidity market, when transactions may		
not be consistently available each day. IOSCO also recognises that there might be circumstances (e.g., a low liquidity market) when a confirmed bid or offer		

might carry more meaning than an outlier transaction. Under these circumstances, non-transactional data such as bids and offers and extrapolations from prior transactions might predominate in a given Benchmark determination.	

9.	9. Transparency of Benchmark Determinations		
103	SCO Principle	WMBA Limited Comment	Work performed by Promontory
ea c	Administrator should describe and publish with h Benchmark determination, to the extent sonable without delaying an Administrator blication deadline:	This Principle is not considered applicable in respect of WMBA Limited's responsibilities for SONIA.	Not applicable.
a)	A concise explanation, sufficient to facilitate a Stakeholder's or Market Authority's ability to understand how the determination was developed, including, at a minimum, the size and liquidity of the market being assessed (meaning the number and volume of transactions submitted), the range and average volume and range and average of price, and indicative percentages of each type of market data that have been considered in a Benchmark determination; terms referring to the pricing Methodology should be included (i.e., transaction-based, spread-based or interpolated/extrapolated);		
b)	A concise explanation of the extent to which and the basis upon which Expert Judgement if any, was used in establishing a Benchmark determination.		

10. Periodic Review		
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory
The Administrator should periodically review the conditions in the underlying Interest that the Benchmark measures to determine whether the Interest has undergone structural changes that might require changes to the design of the Methodology. The Administrator also should periodically review whether the Interest has diminished or is nonfunctioning such that it can no longer function as the basis for a credible Benchmark.	This Principle is not considered applicable in respect of WMBA Limited's responsibilities for SONIA.	Not applicable.
The Administrator should Publish or Make Available a summary of such reviews where material revisions have been made to a Benchmark, including the rationale for the revisions.		

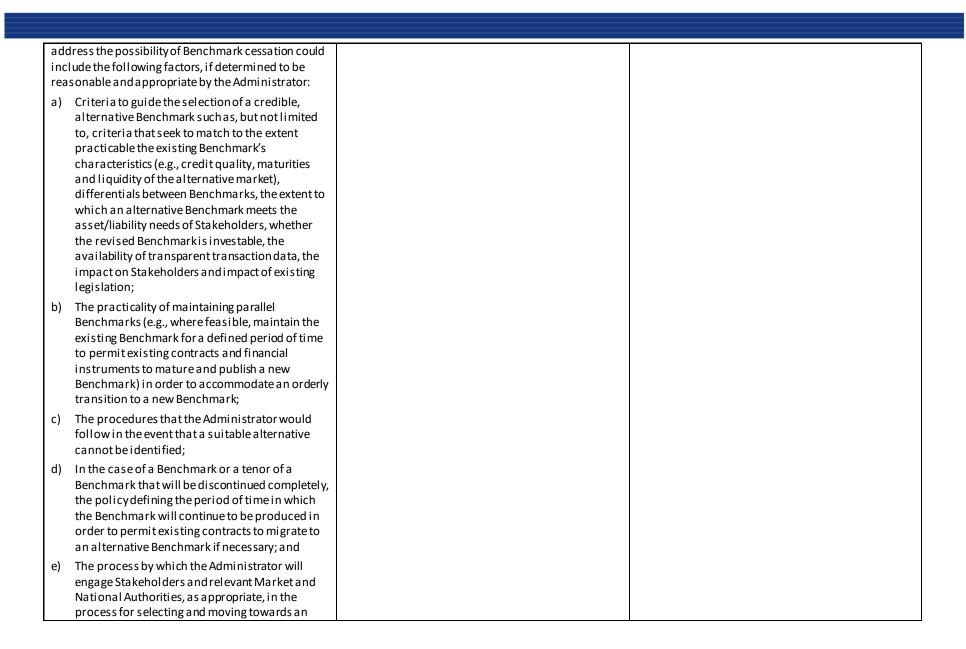
11. Content of the Methodology		
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory
The Administrator should document and Publish or Make Available the Methodology used to make Benchmark determinations. The Administrator's hould provide the rationale for adopting a particular Methodology. The Published Methodology should provide sufficient detail to allow Stakeholders to understand how the Benchmark is derived and to assess its representativeness, its relevance to particular Stakeholders, and its appropriateness as a reference for financial instruments.	This Principle is not considered a pplicable in respect of WMBA Limited's responsibilities for SONIA.	Not applicable.
At a minimum, the Methodology should contain:		
a) Definitions of key terms;		
b) All criteria and procedures used to develop the Benchmark, including input selection, the mix of inputs used to derive the Benchmark, the guidelines that control the exercise of Expert Judgement by the Administrator, priority given to certain data types, minimum data needed to determine a Benchmark, and any models or extrapolation methods;		
 c) Procedures and practices designed to promote consistency in the exercise of Expert Judgement between Benchmark determinations; 		
 d) The procedures which govern Benchmark determination in periods of market stress or disruption, or periods where data sources may be absent (e.g., theoretical estimation models); 		
e) The procedures for dealing with error reports, including when a revision of a Benchmark would be applicable;		
f) Information regarding the frequency for internal reviews and approvals of the Methodology.		



12. Changes to the Methodology		
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory
An Administrator should Publish or Make Available the rationale of any proposed material change in its Methodology, and procedures for making such changes. These procedures should clearly define what constitutes a material change, and the method and timing for consulting or notifying Subscribers (and other Stakeholders where appropriate, taking into account the breadth and depth of the Benchmark's use) of changes.	This Principle is not considered applicable in respect of WMBA Limited's responsibilities for SONIA.	Not applicable.
Those procedures should be consistent with the overriding objective that an Administrator must ensure the continued integrity of its Benchmark determinations. When changes are proposed, the Administrator should specify exactly what these changes entail and when they are intended to apply.		
The Administrator should specify how changes to the Methodology would be scrutinised, by the oversight function.		
The Administrator should develop Stakeholder consultation procedures in relation to changes to the Methodology that are deemed material by the oversight function, and that are appropriate and proportionate to the breadth and depth of the Benchmark's use and the nature of the Stakeholders.		
Procedures should:		
a) Provide advance notice and a clear timeframe that gives Stakeholders sufficient opportunity to analyse and comment on the impact of such proposed material changes, having regard to the Administrator's assessment of the overall		

	circumstances; and
b)	Provide for Stakeholders' summary comments and the Administrator's summary response to those comments, to be made accessible to all Stakeholders after any given consultation period, except where the commenter has requested confidentiality.

13. Transition		
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory
Administrators should have clear written policies and procedures, to address the need for possible cessation of a Benchmark, due to market structure change, product definition change, or any other condition, which makes the Benchmark no longer representative of its intended Interest. These policies and procedures should be proportionate to the estimated breadth and depth of contracts and financial instruments that reference a Benchmark and the economic and financial stability impact that might result from the cessation of the Benchmark. The Administrator should take into account the views of Stakeholders and any relevant Regulatory and National Authorities in determining what policies and procedures are appropriate for a particular	This Principle is not considered a pplicable in respect of WMBA Limited's responsibilities for SONIA.	Not applicable.
Benchmark.		
These written policies and procedures should be Published or Made Available to all Stakeholders.		
Administrators should encourage Subscribers and other Stakeholders who have financial instruments that reference a Benchmark to take steps to make sure that:		
a) Contracts or other financial instruments that reference a Benchmark, have robust fall-back provisions in the event of material changes to, or cess ation of, the referenced Benchmark; and		
b) Stakeholders are aware of the possibility that various factors, including external factors beyond the control of the Administrator, might necessitate material changes to a Benchmark.		
Administrators' written policies and procedures to		



alternative Benchmark, including the timeframe for any such action commensurate with the tenors of the financial instruments referencing the Benchmarks and the adequacy of notice that will be provided to Stakeholders.	

14. Submitter Code of Conduct		
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory
Where a Benchmark is based on Submissions, the following additional Principle also applies:	Data for determining SONIA are provided to WMBA Limited by a range of Wholesale Markets Brokers' Association member firms, under documented Data Supply Agreements.	Promontory reviewed the Contributor Pack, including the Data Submissions Manual, the Data Submission Process Template, Contact
The Administrator should develop guidelines for Submitters ("Submitter Code of Conduct"), which should be available to any relevant Regulatory Authorities, if any and Published or Made Available to Stakeholders.	The firms currently providing these data are not regulated as benchmark submitters under UK benchmark regulation. However, WMBA Limited nonetheless requires that they adhere to the broad standards anticipated under Principle 14, in order to ensure the integrity of the benchmark.	Template, Data Quality Code for Submissions and the WMBA Limited Contact Details. We examined a sample of completed Data Submission Process and Contact Templates, as well as a Data Supply Agreement. We also
The Administrator should only use inputs or Submissions from entities, which adhere to the Submitter Code of Conduct, and the Administrator should appropriately monitor and record adherence from Submitters. The Administrator should require Submitters to confirm adherence to the Submitter's Code of Conduct annually and whenever a change to the Submitter Code of Conduct has occurred.	To this end, WMBA Limited has developed a Contributor Pack consisting of a series of guidance documents related to the provision of data for the benchmark. The Contributor Pack is distributed to the Wholesale Markets Brokers' Association member firms providing inputs for SONIA. The Contributor Pack contains the following: Data Submissions Manual Data Submission Process Template	reviewed the Submitter's Code of Conduct. The documentation was inspected for evidence that each of the detailed provisions of Principle 14 is appropriately addressed in the Contributor Pack, having regard for the facts that SONIA is a purely transaction-based benchmark and that the firms currently providing input data for SONIA are not regulated as benchmark submitters under UK regulation.
The Administrator's oversight functions hould be responsible for the continuing review and oversight of the Submitter Code of Conduct.	 Contact Template Data Quality Code for Submissions WMBA Limited Contact Details 	We interviewed WMBA Limited management with respect to the means of ensuring adherence to the Contributor Packby the firms
The Submitter Code of Conduct should address:	Additionally, should a firm providing data for SONIA become	providing data to SONIA, including the controls
a) The selection of inputs;b) Who may submit data and information to the Administrator;	regulated as a benchmark submitter in the future, they would be subject to an alternative policy, the Submitter's Code of Conduct, which has been developed by WMBA	operated on a daily basis with respect to the completeness and accuracy of input data and the on-site visits conducted by WMBA Limited to the firms. Finally, we observed a full daily
c) Quality control procedures to verify the identity of a Submitter and any employee(s) of a Submitter who report(s) data or information and the authorization of such person(s) to report market data on behalf of a Submitter;	Limited. This Submitter's Code of Conduct would substitute for the Data Quality Code for Submissions in the Contributor Pack under these circumstances. The substance of the two documents is, however, largely identical.	determination cycle for SONIA and reviewed a selection of the control logs and reports generated by WMBA Limited to monitor the input data.
d) Criteria applied to employees of a Submitter who are permitted to submit data or information to	WMBA Limited considers that the Contributor Pack constitutes the guidelines for data providers to SONIA required under Principle 14.	

an Administrator on behalf of a Submitter;

- e) Policies to discourage the interim withdrawal of Submitters from surveys or Panels;
- f) Policies to encourage Submitters to submit all relevant data: and
- g) The Submitters' internal systems and controls, which should include:
 - Procedures for submitting inputs, including Methodologies to determine the type of eligible inputs, in line with the Administrator's Methodologies;
 - Procedures to detect and evaluate suspicious inputs or transactions, including inter-group transactions, and to ensure the Bona Fide nature of such inputs, where appropriate;
 - iii. Policies guiding and detailing the use of Expert Judgement, including documentation requirements;
 - iv. Record keeping policies;
 - v. Pre-Submission validation of inputs, and procedures for multiple reviews by senior staff to check inputs;
 - vi. Training, including training with respect to any relevant regulation (covering Benchmark regulation or any market abuse regime);
 - vii. Suspicious Submission reporting;
 - viii. Roles and responsibilities of key personnel and accountability lines;
 - ix. Internal sign off procedures by management for submitting inputs;
 - x. Whistle blowing policies (in line with Principle 4); and

WMBA Limited requires that the data providers adhere to the provisions of the Contributor Pack on an ongoing basis. WMBA Limited has processes in place to monitor such adherence, and conducts periodic on-site visits to the data providers in this regard.

- a) The Data Submissions Manual specifies the transaction types and data fields for input to the benchmark.
- b) The Contact Template and the Data Quality Code for Submissions detail the staff authorized to provide inputs for SONIA.
- c) The Data Quality Code for Submissions requires data providers to operate robust internal control environments to ensure the accuracy and completeness of the input data provided. Since SONIA is wholly based on transactions, the data selection and transmission controls are largely systematized.
- d) The Data Quality Code for Submissions specify the general criteria for the selection of staff authorized to submit input data.
- e) WMBA Limited works closely with each firm providing data to ensure that the operating processes are as efficient as practical, and do not present undue cost or risk burdens for the firms. The Data Supply Agreements include a 3-month notice period for termination.
- f) The Data Quality Code for Submissions specifies the data sets to be provided and the expected organisational and technical control environments to ensure the accuracy and completeness of the data.
- g) The Data Submissions Manual and the Data Quality Code for Submissions set forth WMBA Limited's expectations for the firms providing data. These include provisions related to the following:
 - the selection and transmission of eligible transaction data;

- xi. Conflicts of interest procedures and policies, including prohibitions on the Submission of data from Front Office Functions unless the Administrator is satisfied that there are adequate internal oversight and verification procedures for Front Office Function Submissions of data to an Administrator (including safeguards and supervision to address possible conflicts of interests as per paragraphs (v) and (ix) above), the physical separation of employees and reporting lines where appropriate, the consideration of how to identify, disclose, manage, mitigate and avoid existing or potential incentives to manipulate or otherwise influence data inputs (whether or not in order to influence the Benchmark levels), including, without limitation, through appropriate remuneration policies and by effectively addressing conflicts of interest which may exist between the Submitter's Submission activities (including all staff who perform or otherwise participate in Benchmark Submission responsibilities), and any other business of the Submitter or of any of its affiliates or any of their respective clients or customers
- ii. procedures to monitor for suspicious transaction activity;
- iii. procedures to report on departures from the operating guidelines, though noting that no expert judgment is involved in the determination of SONIA;
- iv. record keeping and audit trail requirements;
- v. internal controls on the data inputs;
- vi. staff training;
- vii. procedures to report on suspicious activity related to the data provided;
- viii. the organisation structure and roles and responsibilities of staff overseeing or associated with the data provision;
- ix. the Data Submission Process Template, internal review and monitoring of data inputs, and error reporting;
- x. whistle-blowing mechanisms; and
- xi. conflicts of interest policy and procedures related to the provision of the benchmark data.

15. Internal Controls over Data Colle	ection	
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory
When an Administrator collects data from any external source, the Administrator should ensure that there are appropriate internal controls over its data collection and transmission processes. These controls should address the process for selecting the source, collecting the data and protecting the integrity and confidentiality of the data. Where Administrators receive data from employees of the Front Office Function, the Administrator should seek corroborating data from other sources.	WMBA Limited Comment WMBA Limited, under the Service Agreements with the Bank of England, is responsible for the day-to-day operations of SONIA. As such, WMBA Limited seeks to ensure that there is a robust internal control environment for data collection and processing. WMBA Limited's Data Collection and Monitoring policy manual details the internal controls in place at WMBA Limited for the collection and monitoring of input data from the data providers to SONIA. The controls in this policy manual are further augmented by those specified in the Contributor Pack, and in supporting policies including the WMBA Limited Design and Security and the WMBA Limited Operational Impact Assessment policies. Input data are transmitted under a Secure File Transfer Protocol, with robust operational and security controls. Back-up transmission mechanisms are also available where necessary. WMBA Limited additionally employs a systematic monitoring tool for processing of the incoming data, which includes a set of data warning triggers. When a data anomaly is so detected, a series of escalation and communications processes are used to attempt to resolve the anomaly prior to the benchmark publication, as summarized in the WMBA Limited Operational Impact Assessment policy. WMBA Limited Operational Impact Assessment policy. WMBA Limited also conducts post-publication checks on the data, together with the data providers. An event log is maintained and summary reports are provided to WMBA Limited management and to the Bank of England as administrator. Notification may also be made to the WMBA Limited Board and regulatory authorities in defined severe instances of	Promontory reviewed the WMBA Limited Data Collection and Monitoring policy manual, and the supporting WMBA Limited Design and Security and the WMBA Limited Operational Impact Assessment policies, for evidence that WMBA Limited maintains appropriate internal controls over data collection, processing and security, as well as associated escalation, communication and reporting procedures. We also reviewed the relevant sections of WMBA Limited's Risk Management policy to the same end. We observed a full daily determination cycle for SONIA and reviewed a selection of the control logs and reports generated by WMBA Limited to monitor the input data. In particular, we examined the event log to review the nature and frequency of anomalous events, and how these events were resolved. We also examined a sample of the information package provided to the SONIA Advisory Committee, with a specific view to the reporting of operational performance and controls.
	operational or other failures.	

16. Complaints Procedures		
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory
The Administrator should establish and Publish or Make Available a written complaints procedure, by which Stakeholders may submit complaints including concerning whether a specific Benchmark determination is representative of the underlying Interest it seeks to measure, applications of the Methodology in relation to a specific Benchmark determination(s) and other Administrator decisions in relation to a Benchmark determination. The complaints procedures policy should: a) Permit complaints to be submitted through a user-friendly complaints process such as an	WMBA Limited has established a Complaints Policy, published on its website, detailing how stakeholders may make complaints in relation to SONIA. The policy sets out the means by which a complaint may be brought to the attention of WMBA Limited or to the Bank of England. WMBA Limited will in any event notify the Bank of England of any complaint that it receives in relation to SONIA. The policy also describes the process that WMBA Limited will follow for reviewing, resolving and reporting on the complaint. The WMBA Limited Whistleblowing Procedure allows WMBA Limited's staff to raise concerns about the benchmark on a confidential basis	Promontory confirmed that the WMBA Limited Complaints Policy is available to stakeholders, including through WMBA Limited's website. Complainants in respect of SONIA are directed to a dedicated Bank of England email address. We reviewed the contents of the policy for evidence that appropriate reporting, investigation and escalation procedures were in place. We also reviewed the WMBA Limited Whistleblowing procedure to the same end. Finally, we examined the WMBA Limited Complaints Register, noting that no complaints had actually been
electronic Submission process; b) Contain procedures for receiving and investigating a complaint made a bout the Administrator's Benchmark determination process on a timely and fair basis by personnel who are independent of any personnel who may be or may have been involved in the subject of the complaint, a dvising the complainant and other relevant parties of the outcome of its investigation within a reasonable period and retaining all records concerning complaints;	 if necessary. a) Complaints may be received in writing (including email) or verbally (either by telephone or in person). Where any doubt exists as to whether the matter constitutes a complaint, appropriate points of contact are provided. b) Any complaints received must be reported immediately to the WMBA Limited Compliance Officer. The Compliance Officer ensures that appropriate investigation and internal reporting of 	received in respect of SONIA since 2016.
 c) Contain a process for escalating complaints, as appropriate, to the Administrator's governance body; and 	the complaints is undertaken. c) The WMBA Limited Compliance Officer is responsible to ensure that appropriate escalation	
d) Require all documents relating to a complaint, including those submitted by the complainant as well as the Administrator's own record, to be retained for a minimum of five years, subject to applicable national legal or regulatory requirements.	of complaints is made to the Bank of England, as administrator, and to governing bodies and regulatory authorities, as necessary. d) WMBA Limited has established a Complaints Register to log incoming complaints and their resolution. The WMBA Limited Compliance Officer is responsible for maintaining a file of all	

Disputes about a Benchmarking determination, which are not formal complaints, should be resolved by the Administrator by reference to its standard appropriate procedures. If a complaint results in a	documentation related to each complaint, and such files are held in line with WMBA Limited record keeping requirements.	
change in a Benchmark determination, that should be Published or Made Available to Subscribers and Published or Made Available to Stakeholders as soon as possible as set out in the Methodology.	WMBA Limited also employs a series of operating procedures and practices to resolve disputes, other than formal complaints, about the benchmark.	

17. Audits			
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory	
The Administrator should appoint an independent	WMBA Limited has established an Audit Committee	Promontory reviewed the Terms of Reference of the	
internal or external auditor with appropriate	as part of its internal governance and oversight	WMBA Limited Audit Committee to confirm the	
experience and capability to periodically review and	organisational framework. Under its Terms of	requirement that an annual external review be	
report on the Administrator's adherence to its stated	Reference, the Audit Committee should appoint an	conducted of WMBA Limited's benchmark activities.	
criteria and with the Principles. The frequency of	external expert party to review and report upon		
audits should be proportionate to the size and	WMBA Limited's adherence to the IOSCO Principles	Promontory reviewed WMBA Limited's 2017	
complexity of the Administrator's operations.	and applicable regulatory standards in respect of	Compliance Statement for WMBA Limited's role in	
	benchmark activities. Such reviews should be	relation to SONIA with reference to the IOSCO	
Where appropriate to the level of existing or	conducted at least annually.	Principles, as reported herein.	
potential conflicts of interest identified by the			
Administrator (except for Benchmarks that are	For 2017, WMBA Limited appointed Promontory to		
otherwise regulated or supervised by a National	carry out the corresponding external review in		
Authority other than a relevant Regulatory Authority),	respect of WMBA Limited's role for the SONIA		
an Administrator's hould appoint an independent	benchmark.		
external auditor with appropriate experience and			
capability to periodically review and report on the			
Administrator's adherence to its stated Methodology.			
The frequency of audits should be proportionate to			
the size and complexity of the Administrator's			
Benchmark operations and the breadth and depth of			
Benchmark use by Stakeholders.			

18. Audit Trail			
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory	
Written records should be retained by the Administrator for five years, subject to applicable national legal or regulatory requirements on:	WMBA Limited's general record keeping requirements are set forth in WMBA Limited's Senior Management Manual, and are designed to conform	Promontory reviewed the sections of WMBA Limited's Senior Management manual and the Benchmark Administration Control Framework pertaining to	
a) All market data, Submissions and any other data and information sources relied upon for Benchmark determination;	with UK regulatory requirements. In particular, records should be retained in a format and medium to allow ready access to authorized parties, such	record keeping. We also examined the Contribution Pack documents in respect of WMBA Limited's expectations on record keeping by firms providing	
b) The exercise of Expert Judgement made by the Administrator in reaching a Benchmark determination;	retention should be a minimum period of seven years, and an audit trail of amendments should be maintained. The WMBA Limited Benchmark Administration Control Framework further details	input data for SONIA. In each instance, we considered how the provisions in the policies measured against the requirements of Principle 18 for the form and content of records to be retained in respect of SONIA.	
 c) Other changes in or deviations from standard procedures and Methodologies, including those made during periods of market stress or disruption; 	record keeping requirements specific to WMBA Limited's benchmark activities. The Contribution Pack documents specify the record keeping requirements for the firms providing data for the determination of	We interviewed WMBA Limited operations and compliance staff, and reviewed operational documents for WMBA Limited's calculation engine, to	
d) The identity of each person involved in producing a Benchmark determination; and	SONIA.	understand how data archiving is implemented in practice. Finally, we examined a Compliance Review	
e) Any queries and responses relating to data inputs.	Under these policies, the records retained by WMBA Limited include, but are not limited to:	on Record Keeping Requirements undertaken by the Compliance Officer in respect of 2016 with reference to applicable UK regulatory requirements.	
If these records are held by a Regulated Market or Exchange the Administrator may rely on these records for compliance with this Principle, subject to appropriate written record sharing agreements.	 All input data for the determination of SONIA; The use of this input data to determine the benchmark and the methodology utilized, noting that no expert judgement is generally involved in the determination of SONIA; 	to appreciate overegaratory requirements.	
When a Benchmark is based on Submissions, the following additional Principle also applies:	Any exercise of discretion by WMBA Limited in the benchmark determination, including the full reasoning for the use of such discretion. This		
Submitters should retain records for five years subject to applicable national legal or regulatory requirements on:	includes records of the disregard of any input data, in particular where it conformed to the requirements of the benchmark methodology, and the rationale for its disregard;		
a) The procedures and Methodologies governing the Submission of inputs;	The identity of WMBA Limited's staff involved in the daily determination of SONIA; and		
b) The identity of any other person who submitted or otherwise generated any of the data or	All documents relating to any complaint, including		

information provided to the Administrator;

- Names and roles of individuals responsible for Submission and Submission oversight;
- Relevant communications between submitting parties;
- e) Any interaction with the Administrator;
- f) Any queries received regarding data or information provided to the Administrator;
- g) Declaration of any conflicts of interests and aggregate exposures to Benchmark related instruments;
- h) Exposures of individual traders/desks to Benchmark related instruments in order to facilitate audits and investigations; and
- Findings of external/internal audits, when available, related to Benchmark Submission remedial actions and progress in implementing them.

those submitted by the complainant as well as WMBA Limited's records.

The records to be retained by firm providing input data for SONIA are summarized in the Data Quality Code for Submissions (and alternatively in the Submitter's Code of Conduct – See Principle 14 above) in the WMBA Limited Contributor Pack. Such records are to be retained for a minimum period of five years. They include, but are not limited to:

- Procedures and methodologies governing provision of the transaction and any related data;
- Names and roles of individuals responsible for oversight and provision of the data;
- Relevant communications with WMBA Limited in relation to SONIA;
- Any amendments, cancellations or reversals of transactions subsequent to providing input data;
- Findings of External or Internal Audits related to provisions of input data for SONIA, remedial action and progress on their implementation; and
- Training records of staff involved in the provision of the input data for SONIA.

19. Cooperation with Regulatory Authorities				
IOSCO Principle	WMBA Limited Comment	Work performed by Promontory		
Relevant documents, Audit Trails and other documents subject to these Principles shall be made readily available by the relevant parties to the relevant Regulatory Authorities in carrying out their regulatory or supervisory duties and handed over promptly upon request.	SONIA is a "specified benchmark" under the UK Financial Services and Markets Act 2000, with regulatory oversight by the UK Financial Conduct Authority ("FCA"). The FCA regulates WMBA Limited in respect of SONIA. WMBA Limited holds regular meetings with the FCA in relation to these regulated activities. WMBA Limited is committed to cooperate fully and to engage actively with regulators and other public authorities. WMBA Limited seeks to provide documents and other information related to its benchmark activities to the regulators on a timely and complete basis, as required. The WMBA Limited Senior Management Manual provides for the establishment of a ppropriate procedures and controls to ensure that regulatory reporting is made within the required time-frames and is accurate and complete. Management information in respect of regulatory reporting is reviewed by WMBA Limited's senior management periodically to confirm that these reporting requirements are being met. Additionally, the WMBA Limited Benchmark Administrator Control Framework requires WMBA Limited to monitor input data for SONIA, to report suspicious or a nomalous activities to the regulators, and to cooperate with any subsequent investigations.	Promontory reviewed the sections of the WMBA Limited Senior Management Manual and the WMBA Limited Benchmark Control Framework pertaining to cooperation with, and reporting to, the competent regulatory authorities. In addition, we reviewed WMBA Limited's Compliance Function Manual, which documents WMBA Limited's protocols for interactions with regulators. Finally, we examined the WMBA Limited FCA Regulatory Reporting Schedule, which defines the FCA-specific reporting processes, including with respect to SONIA.		



