

ASSESSING BOX HILL NORTH SCHEME LICENCE VARIATION APPLICATION



Ministerial Report

Prepared in accordance with the Water Industry Competition Act 2006 (NSW)

November 2020

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1 Executive Summary

We recommend that the Minister for Water, Property and Housing¹ (Minister) grants Flow Systems Operations Pty Ltd (FSO) a varied network operator licence and Flow Systems Pty Ltd (Flow Systems) a varied retail supplier licence.²

FSO currently provides sewerage services to residents of Box Hill North in the Hills Shire Council local government area (Box Hill North scheme), and recycles sewage to provide non-potable water for specific end-uses. Flow Systems holds the retail licence for these services.

FSO and Flow Systems have applied for licence variations for the Box Hill North scheme. The effect of this variation would allow FSO and Flow Systems to extend their supply of non-potable water to additional customers on the fringe of their current area of operations and add four new end-uses: car washing, general wash down, street cleaning and process water for use at the treatment plant.

The varied licences will provide FSO and Flow Systems with the ability to source additional customers, from existing premises, for excess non-potable water during times of over-supply. Management of over-supply is important to allow the scheme to expand beyond the current 3,300 equivalent tenements limit. The variation will not extend sewerage services to these additional customers.

In assessing FSO's application for a varied network operator licence (Network Operator Licence Application) and Flow Systems' application for a varied retail supplier licence (Retail Supplier Licence Application), we considered the licensing criteria set out in sections 10(3) and (4) of the *Water Industry Competition Act 2006* (WIC Act), and had regard to the licensing principles in section 7(1) of the WIC Act.

We recommend licence conditions for the Minister to consider when granting the varied licences in Chapters 4 and 5, and include a draft varied network operator licence and a draft varied retail supplier licence in **Appendix A** of this report.

¹ The Minister for Water, Property and Housing administers the *Water Industry Competition Act 2006* (NSW).

² Where this report refers to a *varied* licence, it is referring to a *new* licence granted by the Minister that replaces the previous licence.

2 Recommendations

We recommend that the Minister for Water, Property and Housing:

- 1 Grant a varied network operator licence to FSO (licence number 16_037) for the Box Hill North scheme, subject to the conditions as set out in the attached draft licence.
- 2 Grant a varied retail supplier licence to Flow Systems (licence 13_001R) for the Box Hill North scheme, subject to the conditions as set out in the attached draft licence.

The Minister must consider, but is not bound to accept, any advice or recommendation in this report in determining the licence applications. The Minister may, if circumstances so require, seek further advice from us on the licence applications.³

The Minister is required to provide us with a notice of the decision for each licence and the reasons for the decision when deciding whether or not to grant the licences.⁴ We then publish the notices on our website, as required by the WIC Act.⁵

2.1 The applicants and parent organisation

FSO has no employees and relies on the full support of Flow Systems to provide technical, financial and organisational capacity, under a Corporate Services Agreement. Flow Systems is the parent company of the Flow Systems group of companies. It has eight subsidiaries (including FSO) that hold ten network operator licences. The proposed network operator licence retains Flow Systems as an Authorised Person to construct, operate and maintain non-potable water infrastructure, consistent with the existing network operator licence.

Flow Systems' parent entity, Sustainable Communities Infrastructure Pty Ltd (SCI) is a special purpose vehicle with three shareholders, the New Zealand Superannuation Fund, the Commonwealth Superannuation Corporation (CSC) and MGIF SCIT PV Pty Ltd.

HRL Morrison & Co (Australia) Pty Ltd (Morrison & Co) manages SCI and the Sustainable Communities Infrastructure Trust (SCIT) on behalf of SCI's shareholders. Morrison & Co is an investment management fund, founded in 1988.

Flow Systems has adequate resources to support FSO to undertake the activities it seeks in the Network Operator Licence Application. Flow Systems also has the resources to undertake the activities it seeks in the Retail Supplier Licence Application without relying on third parties.

A diagram illustrating Flow Systems ownership structure and related licence holders is provided in **Appendix C.**

³ WIC Act, section 10(2).

⁴ WIC Act, section 10(5).

⁵ WIC Act, section 10(6).

2.2 The Box Hill North scheme

The Box Hill North scheme is servicing a community development in north-western Sydney in the Hills Shire Council local government area. The developer for this development was Celestino Developments Pty Ltd, who engaged FSO to provide non-potable water and sewerage services. Celestino Developments Pty Ltd has since sold the Box Hill North development land to Stockland Development Pty Ltd (the foundation developer).

FSO has constructed, and currently operates and maintains non-potable water and sewage reticulation infrastructure and a non-potable water treatment plant within its licensed area of operations. The current area of operations are the same for FSO's network operator licence and Flow Systems' retail supplier licence, and include lots owned by the foundation developer and other third party developers.

The Box Hill North scheme does not provide drinking water. Rather Sydney Water provides drinking water directly to the customers.

FSO is providing sewerage and non-potable water services in two phases at the Box Hill North scheme as described in Table 2.1.

| Phase | Capacity allocated to foundation developer | Capacity allocated to third party developers | Total capacity |
|-------------------------------|--|--|----------------|
| Phase 1 (Current) | 2500 ET | - | 2500 ET |
| Phase 2 ^a (Future) | 1800 ET | Up to 700 ET b | 2500 ET |
| Phase 1 + Phase 2 | 4300 ET ^c | Up to 700 ET | 5000 ET |

| Table 2.1 | Sewerage and non-potable water servicing strategy |
|-----------|---|
|-----------|---|

Note:

a The timing of Phase 2 is dependent on when the foundation developer requires capacity above 2500 equivalent tenements (ET).

b Flow Systems has stated that third party developer lots will be able to connect when capacity at the scheme is available.

c The 4300 ET includes 4100 ET for the foundation developer's residential lots and 200 ET for ancillary facilities such as commercial development, schools and parks.

Source: Email from Flow Systems to IPART, 29 May 2020.

We understand that a third party developer is seeking access to services provided by FSO and Flow Systems in order to develop their land and provide additional housing within FSO's area of operations. FSO has advised that it will not have capacity to accept and treat additional sewage for third party developers until Phase 2 of the scheme is rolled out. The original application for WIC Act licences for this scheme anticipated Phase 2 would commence in 2024. The most recent information provided by FSO indicates that the first connections provided to third party developers is estimated for 2031.⁶

⁶ Box Hill North Water Balance Report, prepared by Kinesis for Flow Systems, 8 September 2020, Table 11, p 17.

2.3 Current licences

FSO holds a network operator licence (licence number 16_037) which authorises it to construct, operate and maintain non-potable water and sewerage infrastructure at the Box Hill North scheme with the support of Flow Systems.

The Minister administering the WIC Act granted FSO a network operator licence on 12 May 2016 and approved the commercial operation of sewerage services infrastructure on 23 May 2017. The Minister approved commercial operation of additional sewerage services infrastructure and non-potable water infrastructure on 27 November 2017.⁷

A condition of this licence is that FSO cannot construct non-potable water treatment infrastructure in excess of 3,300 equivalent tenements without written approval from the Minister.⁸ This condition was imposed to ensure that FSO could balance the amount of sewage accepted and treated at the plant with the demand for non-potable water at the scheme before further expansion occurs.

Flow Systems holds a corresponding retail supplier licence (licence number 13_001R) granted by the Minister administering the WIC Act on 17 April 2013. The retail supplier licence has been varied over time to authorise Flow Systems to provide (retail) services at various Flow Systems' schemes, including Box Hill North and eight other schemes.⁹

2.4 Scope of variation applications

FSO's varied network operator licence would authorise FSO to:

- Extend its area of operation to construct, operate and maintain non-potable water infrastructure to an additional section of road corridor on Janpieter Road.
- Provide non-potable water for four new end-uses: car washing, general wash down, street cleaning and process water at the non-potable water treatment plant.

Flow Systems' varied retail supplier licence would authorise Flow Systems to:

- Extend its area of operations for supply of non-potable water to include property lots immediately adjacent to the varied network operator's area of operations. These lots are not included in the network operator's licence as FSO considers that the expanded retail supplier area will be serviced by infrastructure at the boundary of the respective properties within the network operator's area of operations.
- Provide non-potable water for four new end-uses as per the network operator licence variation.

⁷ The then Minister for Energy and Utilities was the Minister administering the WIC Act when the network operator licence was granted.

⁸ Network operator licence 16_037, condition A8.

⁹ Pitt Town, Discovery Point, Wyee, North Cooranbong, Huntlee, Green Square, Glossodia, Box Hill North and Shepherds Bay.

The varied licences will provide FSO and Flow Systems with the ability to source additional customers for excess non-potable water during times of over-supply.

There are no proposed changes to the sewerage services in the current network operator licence and the retail supplier licence.

2.5 Environmental assessment

In determining whether to grant FSO a varied network operator licence for the Box Hill North scheme, the Minister is also a determining authority for the water industry infrastructure development under Part 5 of the EP&A Act.¹⁰

We have undertaken an environmental assessment for the non-potable water infrastructure to an additional section of road corridor on Janpieter Road, having had regard to the environmental considerations required by the WIC Act,¹¹ and the requirements of section 5.5 of the EP&A Act. We reviewed the environmental assessment¹² prepared by Flow Systems. The assessment concluded that the environmental impacts are within acceptable parameters, provided the mitigation measures outlined in the environmental assessment are effectively implemented.

State Environmental Planning Policy (Infrastructure) 2007 (ISEPP) provides that infrastructure located in a prescribed zone which requires a licence under the WIC Act is development which may be carried out without development consent. As a result, such development requires environmental assessment under Part 5 of the Environmental Planning and Assessment Act 1979.

¹¹ WIC Act, sections 7(1)(a) and10(4)(e); *Water Industry Competition Regulation 2008* (WIC Regulation), clause 7.

¹² Flow Systems Pty Ltd, Box Hill - extension of recycled water reticulation, Environmental Impact Assessment Checklist, 6 October 2020.

3 Consultation and Submissions

On 24 October 2019, we provided the Network Operator Licence Application and Retail Supplier Licence Application to, and invited submissions from, the following Ministers and their relevant departments:

- Minister administering the WIC Act and Chapter 2 of *Water Management Act 2000* (NSW) (Minister for Water, Property and Housing)
- Minister administering the *Public Health Act 2010* (NSW) (Minister for Health and Medical Research)
- Minister administering the *Protection of the Environment Operations Act 1997* (NSW) (POEO Act) (Minister for Energy and Environment)
- Minister administering the Environmental Planning and Assessment Act 1979 (NSW) (EP&A Act) (Minister for Planning and Public Spaces).¹³

At the same time, we also provided copies of the licence applications to Sydney Water, Fire and Rescue NSW (FRNSW) and The Hills Shire Council. The Hills Shire Council is the relevant consent authority under the EP&A Act and the appropriate regulatory authority under the POEO Act.

We notified Sydney Water of the licence application because FSO is using drinking water from Sydney Water to top-up its non-potable water, as part of the activities in relation to which it seeks variations to its network operator licence.

We also called for submissions on the application from the public.¹⁴ The closing date for submissions was 21 November 2019. FSO proposed further revisions to the application on 27 May 2020 and provided the environmental assessment report required for our assessment of the application on 6 October 2020.

¹³ WIC Act, section 9(1)(b) and *Water Industry Competition (General) Regulation 2008* (WIC Regulation), clause 17(1).

¹⁴ WIC Act, section 9(1)(c).

3.1 We considered all submissions

We received six submissions in total from The Hills Shire Council, the NSW Department of Planning, Industry and Environment (DPIE), NSW Environment Protection Authority (EPA), NSW Health, Sydney Water and an individual.¹⁵,¹⁶

We considered all submissions against the relevant licensing principles and criteria as part of our assessment of the application. Where necessary, we sought more information from FSO to satisfy ourselves that issues raised in the submissions would be addressed.

A summary of all the submissions we received is presented in Appendix D.

Our recommended licence conditions are summarised in Chapters 4 and 5.

3.2 We requested information from Flow Systems after its sale

Subsequent to receiving the licence variation applications, the Flow Systems group was sold and now has new owners (i.e. New Zealand Superannuation, Commonwealth Superannuation Corporation, MGIF SCIT PV Pty Ltd). We have therefore assessed the technical, organisational and financial capacity of the applicants under the new ownership structure.

We sought further information to understand the impact of the sale on Flow Systems and FSO's capacity to undertake activities that the licences would authorise. The information that we sought included:

- Details of the sale, new ownership structure, changes to directors and management.
- Copies of agreements between the shareholders and the Flow Systems group, and relevant trust deeds and details of facilities or arrangements for funding.
- Financial information including budgeting and financial forecasts.

¹⁵ The submissions for the network operator variation are available on our website at: https://www.ipart.nsw.gov.au/Flow Systems Operations/Box Hill North, accessed on 20 November 2020.

¹⁶ The submissions for the retail supplier variation are available on our website at: https://www.ipart.nsw.gov.au/Flow Systems Pty Ltd/Box Hill North, accessed on 20 November 2020.

4 Assessment of application

The WIC Act sets out licensing principles which the Minister must have regard to in considering whether or not to grant a licence.¹⁷ The WIC Act also prohibits a licence from being granted to a disqualified corporation or related entity¹⁸ and requires the Minister to be satisfied that the applicant meets specific criteria set out in the WIC Act or the regulations in order to grant a licence.¹⁹ The Minister can consider other relevant matters, having regard to the public interest.²⁰

This section of our report contains our assessment of the Network Operator Licence Application and the Retail Supplier Licence Application against:

- The eligibility of the applicant (Section 4.1)
- The licensing principles (Section 4.2)
- The licensing criteria (Section 4.3).

This section also includes reasons for our recommendations. In addition to our assessment, we have updated the licence format and Schedule B of the network operator licence, the standard Ministerially-imposed licence conditions, which are applicable to all network operators. In this report we have only discussed substantial changes to licence conditions. We have not discussed minor changes, such as editorial or numbering changes.

4.1 The applicants are eligible for a licence

We consider that FSO and Flow Systems are not disqualified corporations or corporations that are a related entity of a relevant disqualified corporation²¹

We relied on the following information:

- We undertook ASIC checks and determined that the following are not disqualified individuals or corporations:
 - CEO and CFO of the applicants, and
 - Directors and company secretary of the applicants, and related parent entities (ie, SCIT).²²
- Information provided by FSO and Flow Systems regarding details of the:

¹⁷ WIC Act, section 7.

¹⁸ WIC Act, section 10(3).

¹⁹ WIC Act, section 10(4)(a)-(e).

²⁰ WIC Act, section 10(4)(f).

²¹ A related entity that would have a direct or indirect interest in, or influence on, the carrying out of the activities that the licence authorises: WIC Act, section 10(3)(b).

²² We completed the relevant searches on 10 & 27 November 2020.

- Relevant related parent entities²³
- Names of the Directors and company secretary for each of Flow Systems and FSO's relevant related entities (subsidiary companies and holding companies within Australia).

4.2 The applications are consistent with the licensing principles

In considering whether or not to recommend that the Minister grants the varied licences, and the conditions to which these licences should be subject (if granted), we had regard to the licensing principles set out in the WIC Act.

Box 4.1 Licensing principles under section 7(1) of the WIC Act

In considering whether or not a licence is to be granted under this Part and what conditions are to be imposed on such a licence, regard is to be had to the following principles:

- a) the protection of public health, the environment, public safety and consumers generally,
- b) the encouragement of competition in the supply of water and the provision of sewerage services,
- c) the ensuring of sustainability of water resources,
- d) the promotion of production and use of recycled water,
- e) the promotion of policies set out in any prescribed water policy document,
- f) the potential for adverse financial implications for small retail customers generally arising from the activities proposed to be covered by the licence,
- g) the promotion of the equitable sharing among participants in the drinking water market of the costs of water industry infrastructure that significantly contributes to water security.

4.2.1 The Network Operator Licence Application is consistent with licensing principles

We consider that the application for the proposed new activities, to construct, maintain and operate non-potable water industry infrastructure in the expanded area of operations and to add four new end-uses, is consistent with each of the licensing principles set out in section 7 of the WIC Act.

We analysed the information in the Network Operator Licence Application, and considered our assessment undertaken for the original network operator licence application in 2016. We conclude that there have not been any material changes to how licensing principles (b) and (d)-(g) apply. The analysis contained in the report provided to the Minister in 2016, in which we recommended that FSO be granted a network operator licence, continues to apply.²⁴

Our analysis of the new activities against licensing principle (a) and (c) is set out below.

²³ Flow Systems identified Sustainable Communities Infrastructure Pty Limited as trustee for the Sustainable Communities Infrastructure Trust (ACN 633 957 918) as a relevant related entity.

²⁴ IPART, Assessment of Flow Systems Operations Pty Ltd's network operator's licence application, Report to the Minister, April 2016.

Protection of public health, the environment, public safety and consumers generally (licensing principle (a))

We had regard to FSO's capacity to undertake the proposed new activities in a manner that does not present a risk to public health, the environment, public safety and consumers generally.

Protection of public health

We assessed FSO's capacity to manage the key risks posed to public health by the new activities to be licensed, having regard to the protection of public health in Section 4.3 of this report.

Protection of the environment

In Chapter 5 of this report we assess whether FSO has met the requirements for environmental assessment under Part 5 of the EP&A Act in relation to the proposed activities.

We considered FSO's history of compliance with its legislative obligations to protect the environment. In its submission on the Network Operator Licence Application, DPIE stated that it found no record of enforcement action undertaken or carried out against FSO or Flow Systems under the EP&A Act.²⁵ Similarly, the EPA stated that it was not aware of any breaches of the POEO Act by these entities and it had not taken any actions against them.²⁶

We recommend that FSO should be subject to the following amended special (Schedule A) licence conditions (see draft licence in Appendix A), on its capacity to protect the environment.²⁷

| Clause number | Condition |
|------------------------|---|
| Schedule A, clause 2.1 | Where the Licensee carries out any activities authorised by this Licence, the Licensee must: |
| | a) implement environmental risk mitigation measures substantially consistent with the environmental risk mitigation measures identified in the Environmental Impact Assessments; and |
| | b) specify, in any Plan or combination of Plans, how the Licensee will implement environmental risk mitigation measures substantially consistent with the environmental risk mitigation measures identified in the Environmental Impact Assessments. |
| Schedule A, clause 2.2 | If the Licensee proposes to vary its environmental mitigation measures referred to in Schedule A clause 2.1(a), it must first notify IPART in accordance with the Reporting Manual. The Licensee must not vary its environmental mitigation measures without the prior written approval of IPART. |
| Schedule A, clause 3.1 | The Licensee must ensure that the construction of any Specified Water Industry Infrastructure is carried out in accordance with the Approved Construction Environmental Management Plan. |

| Table 4.1 | Recommended licence conditions for | protection of the environment |
|-----------|------------------------------------|-------------------------------|
| | | |

²⁵ Submission from DPIE, 22 November 2019.

²⁶ Submission from the EPA, 21 November 2019.

²⁷ These amended special licence conditions replace existing licence condition A2, A3 and A6.

Protection of public safety

We assessed FSO's capacity to manage key risks with regard to public health specifically and public safety in general in section 4.3 of this report.

Protection of consumers generally

We considered whether any consumers would be disadvantaged as a result of a decision by the Minister to grant FSO a varied licence.

We also assessed the financial capacity of the applicant and the viability of the scheme (as varied) over the next 10 years. We consider consumers will remain protected against loss of essential services (see section 4.3).

If the Minister grants the varied network operator licence, we consider that consumers generally will continue to be protected in relation to the activities licensed.

Ensuring the sustainability of water resources (licensing principle (c))

We had regard to FSO's ability to reduce demand on Sydney Water's drinking water and sewerage networks by sourcing sewage from the Box Hill North scheme to produce non-potable water to replace drinking water.

We also had regard to the average volume of drinking water top-up proposed to maintain the reliable supply of non-potable water during warmer months. See our discussion under licensing criterion (f) in Section 4.3.1.

4.2.2 The Retail Supplier Licence Application is consistent with the licensing principles

We consider that the proposed extension of Flow Systems' area of operation to include new customers for the retail supply of non-potable water and for four end-uses is consistent with each of the licensing principles set out in the WIC Act.

We analysed the information in the Retail Supplier Licence Application, and considered our assessment undertaken for the original retail supplier licence application in 2016. We consider that there have not been any material changes to how licensing principles (a)-(g) apply, and that our the analysis contained in the report provided to the Minister in 2016, in which we recommended that Flow Systems be granted a retail supplier licence for the Box Hill North scheme, continues to apply.²⁸

4.3 The applicants would continue to meet the licensing criteria

In making our recommendation that the Minister grant the varied licences, and the conditions to which these licences should be subject (if granted), we considered the licensing criteria set out in the WIC Act.

²⁸ IPART, Assessment of Flow Systems Pty Ltd's application to vary its retail supplier's licence no. 13_001R, Report to the Minister, April 2016.

Box 4.2 Licensing criteria under section 10(4) of the WIC Act

A licence may not be granted unless the Minister is satisfied as to each of the following:

- a) that the applicant has, and will continue to have, the capacity (including technical, financial and organisational capacity) to carry out the activities that the licence (if granted) would authorise,
- b) that the applicant has the capacity to carry out those activities in a manner that does not present a risk to public health,
- c) that the applicant has made, and will continue to maintain, appropriate arrangements with respect to insurance,
- d) in the case of an application for a licence to supply water, that, if such a licence is granted, sufficient quantities of the water supplied by the licensee will have been obtained otherwise than from a public water utility,
- e) such matters as are prescribed by the regulations,
- f) such other matters as the Minister considers relevant, having regard to the public interest.

4.3.1 FSO meets the licensing criteria for a network operator licence

We consider that the proposed extension of the scheme to provide non-potable water services, and the addition of four new end-uses for non-potable water, satisfies the licensing criteria set out in the WIC Act.

Our analysis of the new activities against licensing criteria (a), (b), (c) and (f) is set out below. We consider that licensing criteria (d) relates to the supply of water which is an activity authorised under a retail supplier licence and we have not considered it in the context of the current Network Operator Licence Application.

For licensing criterion (e), we analysed the information in the Network Operator Licence Application, and considered our assessment undertaken for the original network operator licence application in 2016. We conclude that there have not been any material changes to our assessment on how licensing criterion (e) applies.

Technical capacity (licensing criterion (a))

We are satisfied that FSO has the technical capacity to undertake the proposed new activities.

FSO relies on the full support of Flow Systems staff and its systems for its technical capacity. Flow Systems provides technical services to FSO under a Corporate Services Agreement²⁹ between the parties. Therefore, we consider that Flow Systems' expertise is critical to FSO's technical capacity. Where necessary we have considered information and evidence relevant to both Flow Systems and FSO for the purpose of establishing FSO's capacity. We note that Flow Systems will remain as an Authorised Person on the varied licence.

²⁹ Executed as an agreement on 17 June 2016.

Evidence of technical capacity

FSO demonstrated its technical capacity by providing plans (including a recycled water quality plan) and documents³⁰ developed by Flow Systems for the Box Hill North scheme which show an understanding of design, operation and maintenance of non-potable water infrastructure.

We also considered FSO's relevant experience and compliance history to inform our assessment of technical capacity and provide detail in the sections below. We have included more detail of FSO's technical capacity assessment in Appendix B.

Relevant experience

FSO, supported by Flow Systems, operates infrastructure at the scheme under its network operator licence. Flow Systems will continue to provide sufficient technical capacity to FSO to operate under a varied licence. We assessed position descriptions and professional experience of specific personnel nominated in the application. We consider that the expertise required by FSO/Flow Systems' personnel under a varied licence is not different to the expertise required under its current licence.

Compliance history

FSO has demonstrated its capacity to construct, operate and maintain non-potable water industry infrastructure at the scheme since it was licensed in 2016.

An operational audit conducted in 2020 for the Box Hill Scheme identified two non-material non-compliances on full implementation of management plans.³¹ Separately, FSO was found non-compliant (material) due to an incident on implementation of its management plan.³² While the non-compliances indicate that improvement is required, they did not result in a failure of treatment processes or adversely impact public health and safety.

We have also considered similar non-compliances identified for other Flow Systems subsidiary licensees as relevant to Flow Systems' ability to provide technical capacity to FSO. IPART has investigated these non-compliances and continues to monitor follow-up action required by Flow Systems and the relevant subsidiary licensees to address outstanding issues.

We consider that the ongoing operation of the scheme demonstrates FSO's capacity to safely and reliably design, construct, operate and maintain water industry infrastructure, when supported by the additional licence conditions. We have recommended three additional licence conditions to mitigate the risk of similar non-compliances on the implementation of licence plans. We will continue to monitor ongoing compliance, including undertaking further audits. The proposed new licence conditions are summarised in Table 4.1.

³⁰ Notwithstanding a broader review of Flow Systems' licence plans in progress, FSO's recycled water quality plan is structured in line with the *Australian Guidelines for Water Recycling* (AGWR).

³¹ Operational Audit Report – Box Hill Operational Audit, prepared by Viridis Consultants for Flow Systems Pty Ltd, August 2020.

³² Enforcement Action Notice 07/2020, 5 June 2020.

| Clause number | Condition | |
|------------------------|--|--|
| Schedule A, clause 5.1 | The Licensee must ensure that its Water Quality Plan is a single, cohesive and structured scheme-specific document which specifies the actions the licensee must take to implement the 12 elements of the framework for recycled water quality management and use set out in the <i>Australian</i> <i>Guidelines for Water Recycling</i> . | |
| Schedule A, clause 6.1 | The Licensee must develop and document, consistent with element 4 of the Australian Guidelines for Water Recycling, the following Operational Procedures: | |
| | a) Monitoring protocols for operational performance of the recycled water supply system, including the selection of operational parameters and criteria, and the routine analysis of results; | |
| | b) Procedures for corrective action where operational parameters are not met; | |
| | Procedures for rapid communication systems to deal with unexpected events; and | |
| | d) Programs for regular inspection and maintenance of all equipment, including monitoring equipment. | |
| Schedule A, clause 6.2 | The Licensee must: | |
| | a) fully implement the Operational Procedures; | |
| | ensure that all of its activities are carried out in accordance with the Operational Procedures; and | |
| | keep records to demonstrate the extent to which the Operational Procedures have been implemented and complied with. | |

 Table 4.2
 Recommended new licence conditions for technical capacity

Note: Schedule A of the draft licence contains special Ministerially-imposed licence conditions.

Financial capacity (licensing criterion (a))

We are satisfied that FSO has the financial capacity to undertake the proposed new activities.

FSO currently relies on the support of Flow Systems for financial capacity as it does not have financial capacity as a stand-alone entity. In November 2019, the sale of the Flow Systems group to a consortium of investors (Shareholders), was completed.

We therefore re-assessed the financial capacity of the applicants under the new ownership structure and have concluded that the sale has not materially impacted FSO or Flow Systems' financial capacity.

With support from the Shareholders, FSO and Flow Systems have adequate levels of solvency and liquidity to undertake licensed activities under the network operator licence.

We have included more detail of Flow Systems' financial capacity assessment in Appendix B.

We note that our financial assessment represents financial capacity at a point in time. Our recommendation to grant FSO a varied licence should not be viewed as an endorsement of its future, ongoing viability of FSO or Flow Systems. The assessment is based on a combination of information sources, none of which is to be regarded as individually determinative. We undertake this assessment for our own purposes and for the Minister's purposes in making a determination on the application. Our conclusion is not to be relied upon for any other purpose or by any other person.

We do not recommend additional licence conditions on financial capacity, should the Minister grant FSO a varied licence. We consider that the existing condition in Schedule B, clause 1.1 adequately manages any risk on financial capacity.

Organisational capacity (licensing criterion (a))

We are satisfied that FSO has the organisational capacity to undertake the proposed new activities

We note that FSO has no employees and relies on the full support of Flow Systems to provide it with organisational capacity.

Flow Systems underwent a period of administration and a subsequent sale during the assessment of this application. We consider that despite the associated changes to the organisational structure, FSO and Flow Systems' organisational capacity remains largely unchanged.

We received no submissions on FSO's organisational capacity.

Our detailed assessment of FSO's organisational capacity is in Appendix B.

We consider that the existing condition in Schedule B, clause 1.1 adequately manages any risk on organisational capacity.

Capacity to carry out those activities in a manner that does not present a risk to public health (licensing criterion (b))

We are satisfied that FSO has the capacity to undertake the proposed new activities in a manner that does not present a risk to public health.

We assessed FSO's capacity to manage key risks to public health posed by the:

- Construction, operation and maintenance of approximately 250m of additional nonpotable water infrastructure (reticulation) under a section of the Janpieter Road to connect to the rest of the licensed scheme.
- Use of non-potable water for four new end-uses at the scheme: general wash-down, street cleaning, dust suppression and process water at the non-potable water treatment plant.

We considered a range of information and evidence to establish that FSO has capacity. Our detailed assessment is in Appendix B.

NSW Health raised concerns regarding FSO's application

We received a submission from NSW Health regarding FSO's capacity to protect public health. The submission is available on our website and discussed in the summary of submissions in Appendix D. NSW Health advised that a detailed risk assessment with relevant stakeholders is required to ensure that the treatment is appropriate for all intended end-uses and the public health risks are managed.³³

Under clause B4.1 of the current network operator licence, FSO must carry out the activities in compliance with any requirements of NSW Health that IPART has agreed to and notified in writing. One such requirement is a requirement to "consult with NSW Health during the detailed risk assessments for drinking and recycled water".³⁴ Flow Systems has advised that it is consulting with NSW Health to address concerns with the risk assessment.³⁵

FSO must update its water quality plan to address the risks associated with the new proposed end-uses prior to supplying non-potable water for those purposes. This will include finalising the detailed risk assessment and identifying appropriate controls. This significant change to the water quality plan will require an audit to assess the adequacy of the revised plan under Schedule 1, clause 7(5)(a) of the *Water Industry Competition (General) Regulation (NSW) 2008* (WIC Regulation).

We are able to direct FSO and other licensees to undertake further consultation with NSW Health regarding FSO's risk assessment.³⁶ We will continue to work with NSW Health to address this issue as required.

We consider that FSO has the capacity to continue to protect public health under a varied licence when supported by a combination of the regulatory measures outlined above and additional licence conditions. We recommend that FSO should also be subject to the standard licence conditions in Schedule B of the licence (refer to Attachment A for the proposed licence) on its capacity to protect public health, if the Minister grants a varied licence.

We have restricted one of the proposed new end-uses for non-potable water

We consider that the risk mitigation measures that FSO has proposed in its risk register, are adequate to demonstrate FSO's technical capacity to undertake the current and proposed end-uses. However, this is not an endorsement of FSO's current risk register by IPART, which should be further developed with NSW Health prior to supplying non-potable water for the new end-uses.

³³ Submission from NSW Health, 21 November 2019.

³⁴ Letter to Flow Systems Operations Pty Ltd from IPART, Notification of NSW Health Requirements under Licence Clause B4, 7 December 2017

³⁵ IPART and Flow Systems monthly compliance meeting minutes, April to August 2020.

³⁶ This arrangement is set out in condition B4.1 of the current network operator licence.

The existing licence authorises FSO to supply non-potable water for "water features" generally. We consider that it is appropriate to limit this end-use to "ornamental water features" only, consistent with our recommendation for other network operator licence applications for Flow Systems' schemes. We consider that the public health risks posed by authorising the use of non-potable water in water features is high. This is because water features can include splash park type features or shallow pools with which children or adults may interact resulting in a high likelihood of ingesting non-potable water.

Therefore, we propose to limit this end-use by defining it in the network operator licence as follows:

Ornamental Water Features means water features that:

- (a) are provided primarily for aesthetic or beautification purposes, and
- (b) do not, by their design or accessibility, encourage interaction with the water.37

Appropriate arrangements with respect to insurance (licensing criterion (c))

We are satisfied that FSO has made, and will continue to maintain, appropriate insurance arrangements for the Box Hill North scheme.

We requested advice from Insurance and Care NSW (icare) on the adequacy of FSO's insurance arrangements. As a result of its review, icare concluded that FSO's insurance arrangements are sufficient for the existing and proposed activities under the Network Operator Licence Application.³⁸ Based on the advice from icare, we consider that FSO has demonstrated that it has made, and will continue to maintain, appropriate insurance arrangements for the scheme.

Further details of our assessment of FSO's insurance arrangements are in Appendix B.

We received no submissions regarding FSO's insurance arrangements.

We recommend no additional licence conditions on insurance, should the Minister grant FSO a varied licence. We consider that the standard conditions in Schedule B of the licence (refer to Attachment A for the proposed licence), clause 2 adequately manage insurance risks related to the Box Hill North scheme.

Matters of public interest (licensing criterion (f))

Despite the probability that in some years the scheme may require greater potable water top-up than is expected, we consider that the scheme is beneficial as it provides non-potable water, ultimately reducing the total potable water demand.

In its submission, Sydney Water stated that demand in extended dry periods typically exceeds the available supply requiring significant volumes of drinking water top-up (from Sydney Water). In light of this risk, we had regard to the availability of source sewage and non-potable water produced at the scheme, particularly given the recent drought and the probability of recurrence of such events in the future.

³⁷ In Schedule C Definitions of the proposed network operator licence in Attachment A.

³⁸ Emails to IPART from icare, 2 August 2019, 5 November 2019 and 10 February 2020.

The FSO water balance report³⁹ demonstrated that, with the inclusion of drinking water topup and adequate storage, the scheme will meet current and future expected average nonpotable water demand. Once the area is fully developed, the scheme runs the risk of running out of non-potable water during peak demand weeks (expected in dry summer months). FSO and Flow Systems propose to mitigate this risk through:

- Drinking water top-up supply from Sydney Water at the treatment plant
- 7.5 ML non-potable water storage capacity at the treatment plant
- A non-potable water servicing strategy where Tier 3 non-residential irrigation customers in the fringe area will be subject to water restrictions to reduce usage by approximately 15% during high demand periods (peak summer months). This is to ensure that Tier 1 residential and commercial customers and Tier 2 selected nonresidential open space irrigation and on lot irrigation customers, do not face a shortage of non-potable water supply.

The non-potable water supply to third party developer lots are not proposed to be affected by water restrictions. Third party developer lots will be treated the same as Tier 1 and Tier 2 customers and will not be subject to water restrictions.

The water balance report demonstrates that adopting the above risk mitigation measures should ensure adequate non-potable water supply for residential and commercial customers during peak demand periods. Additionally, the WIC Regulation requires Flow Systems to not over-commit and must not enter into supply arrangements that it is not able to meet.⁴⁰

Flow Systems proposes to manage the different level of service received by Tier 3 customers through non-standard customer contracts, or other specific agreements, that will include conditions for the above strategy.⁴¹ Flow Systems proposes to offer low cost non-potable water with a clear understanding that water may not be available in times of drought.

We are not recommending any additional licence conditions on matters of non-potable water demand risk, should the Minister grant FSO a varied licence. We consider that the requirements under Schedule 2 of the WIC Regulation adequately manage this risk for the Box Hill North scheme.

We received submissions from The Hills Shire Council and an individual (a third party landholder) that FSO should provide services to all development in the area of operations including third party developer dwellings. The water balance report shows that FSO intends to offer services to all development in the area of operations, including 700 third party developer dwellings. The servicing of third party developer dwellings is forecasted to commence at a staggered rate from 2031. The timing will depend on:

- The foundation developer initiating the next phase of the scheme, and
- Sewage treatment capacity for third party developers being available at the next stage of the development once the foundation developer has used up its capacity.⁴²

³⁹ Box Hill North Water Balance Report, prepared by Kinesis for Flow Systems, 8 September 2020.

⁴⁰ Water Industry Competition (General) Regulation 2008, Schedule 2, clause 10.

⁴¹ Email from Flow Systems to IPART, *Box Hill Scheme Risk Register*, revision 3.3, 21 October 2020, see risk ID RD1.9a and RD1.9b.

⁴² FSO is contractually obligated to provide capacity for up to 4100 ET and ancillary facilities to the foundation developer, who has funded the water industry infrastructure.

FSO's current network operator licence contains a condition⁴³ that limits the non-potable water treatment infrastructure to 3,300 equivalent tenements until FSO demonstrates it has a viable method of disposing excess non-potable water. The varied licence (if granted) would enable FSO to manage any excess non-potable water produced. The varied licence could assist in removing the cap imposed by the current licence and allow for the scheme to expand in the future.

4.3.2 Flow Systems meets the licensing criteria for a retail supplier licence

We consider that the proposed extension of Flow Systems' area of operation to include additional customers for the supply of non-potable water services satisfies each of the licensing criteria set out in the WIC Act. We analysed the information in the Retail Supplier Licence Application, and considered our assessment undertaken for the Box Hill North retail licence variation in 2016. We conclude that there have not been any material changes to our assessment on licensing criteria (e) and (f), and that our the analysis contained in the report provided to the Minister in 2016, in which we recommended that Flow Systems be granted a retail supplier licence variation, continue to apply.⁴⁴

We have undertaken further analysis of the Retail Supplier Licence Application in relation to licensing criteria (a) - (d) as described below.

Technical capacity (licensing criterion (a))

We are satisfied that Flow Systems has the technical capacity to undertake the proposed new activities.

With the exception of Tier 3 non-residential customers (as described in Section 4.3.1 *Matters of public interest (licensing criterion (f))* above). Flow Systems proposes to use the same systems, procedures and resources to supply its intended small retail customers for the varied licence, as it uses to supply the existing small customers at Box Hill North.⁴⁵

Appendix B discusses in detail our consideration of Flow Systems proposed management of Tier 3 customers.

Flow Systems has demonstrated its technical capacity as a retail supplier of sewerage and non-potable water services through the provision of plans, codes of practice and policies that show its understanding of retail supply of non-potable water and sewerage services to customers.

We have included more detail of Flow Systems' technical capacity assessment in Appendix B.

We receive no submissions on Flow Systems' technical capacity.

⁴³ Network Operator licence No 16_037, condition A8.

⁴⁴ IPART, Assessment of Flow Systems Pty Ltd's application to vary its retail supplier's licence no. 13_001R, Report to the Minister, April 2016.

⁴⁵ The Retail Supply Management Plan, codes and compliance procedures are standard documents that apply across all of Flow Systems' schemes.

We recommend no additional licence conditions related to Flow Systems' technical capacity, should the Minister grant Flow Systems the variation to its licence. We consider that the existing condition in Schedule B, clause 1.1 adequately manages risks related to technical capacity.

Financial and organisational capacity (licensing criterion (a))

We are satisfied that Flow Systems has the financial and organisational capacity to undertake the proposed new activities.

With support from the Shareholders, Flow Systems has adequate levels of solvency and liquidity to undertake licensed activities under the retail supplier licence.

We note that our financial assessment represents financial capacity at a point in time. Our recommendation to grant Flow Systems a varied licence should not be viewed as an endorsement of its future, ongoing viability of Flow Systems. The assessment is based on a combination of information sources, none of which is to be regarded as individually determinative. We undertake this assessment for our own purposes and for the Minister's purposes in making a determination on the application. Our conclusion is not to be relied upon for any other purpose or by any other person.

We received no submissions regarding Flow Systems' financial or organisational capacity.

We recommend no additional licence conditions related to financial and organisation capacity, should the Minister grant Flow Systems a varied licence. We consider that the existing condition in Schedule B, clause 1.1 adequately manages risks related to financial and organisational capacity.

Our detailed assessment of Flow Systems' financial and organisational capacity is in Appendix B.

Capacity to carry out those activities in a manner that does not present a risk to public health (licensing criterion (b))

We are satisfied that Flow Systems has the capacity to undertake the proposed new activities in a manner that does not present a risk to public health.

As Flow Systems will retail non-potable water produced by FSO at the Box Hill North nonpotable water treatment plant, we consider the management of public health risks by FSO as outlined in Section 4.3.1 to be relevant.

Our detailed assessment of Flow Systems' capacity to undertake licensed retail activities in a manner that does not pose a risk to public health is in Appendix B.

NSW Health commented on Flow Systems' application

NSW Health recommended that Flow Systems' customers and other end-users of nonpotable water are made aware of, and agree to, any requirements to manage risks with their use of non-potable water.⁴⁶ Under Schedule 2, clause 9 of the WIC Regulation, Flow Systems must inform customers of the authorised purposes of non-potable water and must not supply non-potable water for any other purpose. In addition, Flow Systems' water quality plans will be required to identify controls to manage the risk to end-users and audits will assess the adequacy and implementation of the controls.

We recommend no additional licence conditions for this criterion, should the Minister grant Flow Systems the varied retail supplier licence. We consider that the existing condition in Schedule B, clause 4.1⁴⁷ adequately manages risks on public health.

Appropriate arrangements with respect to insurance (licensing criterion (c))

We are satisfied that Flow Systems has made, and will continue to maintain, appropriate insurance arrangements for the scheme.

We have previously assessed Flow Systems' insurance as adequate for the retail supply activities undertaken under the retail supplier licence, which covers a number of schemes including the Box Hill North scheme.⁴⁸ The insurance arrangements set out in the Retail Supplier Licence Application have not materially changed from Flow Systems' existing insurance arrangements. Further details of our assessment of Flow Systems' insurance arrangements are in Appendix B.

We consider that Flow Systems' insurance arrangements on the activities undertaken under the retail supplier licence are sufficient to cover the additional non-potable water customers and new end-uses in the Box Hill North scheme.

Sufficient quantities of water (licencing criterion (d))

We are satisfied that if the licence variation is granted, sufficient quantities of water supplied by Flow Systems will have been obtained otherwise than from a public water utility.

We have had regard to this criterion in assessing the Retail Supplier Licence Application in light of the recent drought.

We consider that by supplying an alternate source of water that reduces the drinking water demand from Sydney Water, Flow Systems satisfies this licence criterion.

We did not receive any submissions on this matter.

We recommend no new licence conditions for this criterion, should the Minister grant Flow Systems a varied licence.

⁴⁶ Submission from NSW Health, 21 November 2019.

⁴⁷ Schedule B, clause 3.1 of the proposed varied retailer supplier licence.

⁴⁸ IPART, Assessment of Flow Systems Pty Ltd's retail supplier's licence no. 13_001R, Report to the Minister, April 2016.

5 Environmental assessment of the proposed nonpotable water pipeline

5.1 Part 5 of the EP&A Act

In additional to a licence application assessment, the proposed activities under the Network Operator Licence Application require a Part 5 infrastructure and environmental impact assessment to be undertaken. We have examined and taken into account to the fullest extent possible all matters affecting or likely to affect the environment should the Minister vary the network operator licence for the proposed activities for the Box Hill North scheme.

5.2 Environmental assessment

Under a varied licence, FSO would construct additional infrastructure to supply non-potable water to new customers. We received an Environmental Impact Assessment (EIA) Checklist⁴⁹ provided with the application to demonstrate that FSO has addressed to the fullest extent possible all matters under Part 5 Division 5.1 of the EP&A Act affecting or likely to affect the environment associated with the variation application.

The EIA Checklist concluded that the proposed activities, in conjunction with the proposed mitigation measures, are not likely to significantly affect the environment.

We reviewed the EIA Checklist and concluded that:

- The EIA Checklist meets the requirements for determination under the EP&A Act and has taken into account to the fullest extent possible all matters affecting or likely to affect the environment associated with the proposed activities.
- The proposed activities are not likely to significantly affect the environment or any protected biodiversity.
- The EIA Checklist provides a range of mitigation measures to be implemented during construction that would adequately mitigate any environmental risks.
- Appropriately qualified and experienced personnel prepared the EIA Checklist.
- With regard to protection of the environment, we are satisfied that the proposed activities can be carried out with acceptable risk to the environment, provided the protection and mitigation measures specified in the EIA Checklist are implemented.

We include our EIA Checklist assessment report in Appendix E.

We recommend amending existing licence conditions to ensure mitigation measures identified in the EIA Checklist are incorporated in the construction and operation of the water industry infrastructure licensed at Box Hill North.

The proposed amended licence conditions are summarised in Table 4.1.

⁴⁹ Flow Systems Pty Ltd, *Box Hill - extension of recycled water reticulation, Environmental Impact Assessment Checklist,* 6 October 2020.

Appendix

A Draft network operator licence and retail supplier licence



NEW SOUTH WALES GOVERNMENT

Water Industry Competition Act 2006 (NSW)

Network operator's licence

Licence no. 16_037

Flow Systems Operations Pty Ltd

(ACN 603 106 305)

PRELIMINARY

1. Summary

- 1.1. This Licence is granted under section 10(1) of the Act.
- 1.2. The Act prohibits a person from constructing, maintaining or operating any water industry infrastructure otherwise than under the authority of a licence. This Licence authorises the Licensee and other Authorised Persons to carry out such activities that would otherwise be prohibited under the Act.

2. Outline

2.1. This Licence is divided into the following sections and schedules:

Section 1 authorises the construction, maintenance and operation of water infrastructure for non-potable water (if applicable).

Section 2 authorises the construction, maintenance and operation of water infrastructure for drinking water (if applicable).

Section 3 authorises the construction, maintenance and operation of sewerage infrastructure (if applicable).

Schedule A sets out special Ministerially-imposed licence conditions that are specific to this Licence.

Schedule B sets out Ministerially-imposed licence conditions that generally apply to network operator's licences granted under the Act.

Schedule C sets out definitions and interpretation provisions.

Schedule D sets out the area of operations for the activities authorised under Section 1.

Schedule E sets out the area of operations for the activities authorised under Section 3.

Schedule F provides indicative maps for reference only.

- 2.2. In addition to the conditions in Schedules A and B to this Licence, the Act and Regulation also contain conditions that apply to this Licence. Nothing in Schedules A or B modifies or affects the conditions imposed on this Licence by the Act or Regulation.
- 2.3. Where there is an inconsistency between Schedule F on the one hand and any of Schedules D and E on the other hand, Schedules D and E are to prevail over Schedule F to the extent of the inconsistency.

SECTION 1 – ACTIVITIES AUTHORISED: NON-POTABLE WATER

Subject to the conditions imposed by the Act, the Regulation and Schedules A and B of this Licence, this Licence authorises the Licensee and any Authorised Persons specified in Table 1.1 to construct, maintain and operate the water industry infrastructure which is specified in Table 1.2, and is substantially consistent with water industry infrastructure described in the Water Centre REF, the Systems REF or the Extension of Reticulation EIA Checklist, as applicable:

- a) for one or more of the purposes for water industry infrastructure specified in Table 1.2; and
- b) within the area of operations specified in Table 1.3.

The non-potable water supplied by means of the water industry infrastructure specified in Table 1.2 may only be used for the authorised purposes for non-potable water specified in Table 1.4.

Table 1.1 Authorised Persons

Flow Systems Pty Ltd (ACN 136 272 298)

Table 1.2Water industry infrastructure and purposes for water industryinfrastructure

1) A treatment plant for non-potable water and other water infrastructure used, or to be used, in connection with the treatment plant, where components of the treatment plant or other water infrastructure may be used for one or more of the following purposes for water industry infrastructure: production of non-potable water; a) treatment of non-potable water; b) filtration of non-potable water: c) storage of non-potable water; and d) e) conveyance of non-potable water. 2) A reticulation network for non-potable water and other water infrastructure used, or to be used, in connection with the reticulation network, where components of the reticulation network or other water infrastructure may be used for one or more of the following purposes for water industry infrastructure: production of non-potable water; a) treatment of non-potable water; b) filtration of non-potable water; c) storage of non-potable water; and d) conveyance of non-potable water. e)

Table 1.3Area of operations

- 1) For the water industry infrastructure described in Table 1.2(1), refer to Schedule D, Table D.1
- 2) For the water industry infrastructure described in Table 1.2(2), refer to Schedule D, Table D.2

Table 1.4 Authorised purposes for non-potable water

- 1) Car washing
- 2) Dust suppression
- 3) General wash down
- 4) Irrigation
- 5) Ornamental Water Features
- 6) Process water at the non-potable water treatment plant
- 7) Street cleaning
- 8) Supply of cold water to washing machine, and
- 9) Toilet flushing

SECTION 2 – ACTIVITIES AUTHORISED: DRINKING WATER

[Not applicable]

Table 2.1 Authorised Persons

[Not applicable]

Table 2.2Water industry infrastructure and purposes for water industryinfrastructure

[Not applicable]

Table 2.3 Area of operations

[Not applicable]

SECTION 3 – ACTIVITIES AUTHORISED: SEWERAGE SERVICES

Subject to the conditions imposed by the Act, the Regulation and Schedules A and B of this Licence, this Licence authorises the Licensee and any Authorised Persons specified in Table 3.1 to construct, maintain and operate the water industry infrastructure which is specified in Table 3.2, and is substantially consistent with water industry infrastructure described in the Water Centre REF or the Systems REF, as applicable:

- a) for one or more of the purposes for water industry infrastructure specified in Table 3.2; and
- b) within the area of operations specified in Table 3.3.

Table 3.1Authorised Persons

Flow Systems Pty Ltd (ACN 136 272 298)

Table 3.2 Water industry infrastructure and purposes for water industryinfrastructure

- 1) A treatment plant for sewage and other sewerage infrastructure used, or to be used, in connection with the treatment plant, where components of the treatment plant or other sewerage infrastructure may be used for one or more of the following purposes for water industry infrastructure:
 - a) production of treated non-potable water from sewage;
 - b) treatment of sewage;
 - c) filtration of sewage
 - d) storage of sewage; and
 - e) conveyance of sewage.
- 2) A reticulation network for sewage and other sewerage infrastructure used, or to be used, in connection with the reticulation network, where components of the reticulation network or other sewerage infrastructure may be used for one or more of the following purposes for water industry infrastructure:
 - a) production of treated non-potable water from sewage;
 - b) treatment of sewage;
 - c) filtration of sewage;
 - d) storage of sewage; and
 - e) conveyance of sewage.
Table 3.3Area of operations

- 1) For the water industry infrastructure described in Table 3.2(1), refer to Schedule E, Table E.1
- 2) For the water industry infrastructure described in Table 3.2(2), refer to Schedule E, Table E.2

SCHEDULE A – SPECIAL MINISTERIALLY-IMPOSED LICENCE CONDITIONS

1. Notification of changes to Agreement

- 1.1. If a party to an Agreement proposes to:
 - a) terminate the Agreement;
 - b) novate the Agreement;
 - c) assign or transfer any of its rights or obligations under the Agreement to any other person; or
 - d) alter the Agreement in any way that materially reduces the Licensee's technical, financial or organisational capacity to carry out the activities authorised by this Licence,

the Licensee must provide IPART with written notice of that fact as soon as practicable, but no later than 3 months before the time when the proposed action is to occur. The written notice must include details of how the services provided under the Agreement will be provided subsequent to the proposed termination, novation, assignment, transfer or alteration.

2. Environmental Impact Assessments

- 2.1. Where the Licensee carries out any activities authorised by this Licence, the Licensee must:
 - a) implement environmental risk mitigation measures substantially consistent with the environmental risk mitigation measures identified in the Environmental Impact Assessments; and
 - specify, in any Plan or combination of Plans, how the Licensee will implement environmental risk mitigation measures substantially consistent with the environmental risk mitigation measures identified in the Environmental Impact Assessments.
- 2.2. If the Licensee proposes to vary its environmental mitigation measures referred to in Schedule A clause 2.1(a), it must first notify IPART in accordance with the Reporting Manual. The Licensee must not vary its environmental mitigation measures without the prior written approval of IPART.

3. Approved Construction Environmental Management Plan

3.1. The Licensee must ensure that the construction of any Specified Water Industry Infrastructure is carried out in accordance with the Approved Construction Environmental Management Plan.

4. Limitations on infrastructure

- 4.1. The Specified Water Industry Infrastructure is not to be used for the treatment, filtration, storage or conveyance of stormwater.
- 4.2. The Licensee must not commence construction of the infrastructure specified in Section 1 Table 1.2(1) in excess of capacity of 3,300 equivalent tenements, until after the Licensee has provided a report on the Licensee's proposed strategy for managing excess recycled water to be produced by the infrastructure specified in Section 1 Table 1.2(1), and the Minister has provided written approval of the report. The report must:
 - a) be prepared by a suitably qualified person;
 - b) identify and analyse reasonably available disposal/reuse options, including Appropriate Facilities; and
 - c) recommend a preferred approach that will deliver the most efficient outcome having regard to financial and economic considerations.

5. Water Quality Plan

5.1. The licensee must ensure that its water quality plan is a single, cohesive and structured scheme specific document which specifies the actions the licensee must take to implement the 12 elements of the framework for recycled water quality management and use set out in the Australian Guidelines for Water Recycling.

6. Operational Procedures

- 6.1. The Licensee must develop and document, consistent with element 4 of the Australian Guidelines for Water Recycling, the following Operational Procedures:
 - a) monitoring protocols for operational performance of the recycled water supply system, including the selection of operational parameters and criteria, and the routine analysis of results;
 - b) procedures for corrective action where operational parameters are not met;
 - c) procedures for rapid communication systems to deal with unexpected events; and
 - d) programs for regular inspection and maintenance of all equipment, including monitoring equipment.

- 6.2. The Licensee must:
 - a) fully implement the Operational Procedures;
 - b) ensure that all of its activities are carried out in accordance with the Operational Procedures; and
 - c) keep records to demonstrate the extent to which the Operational Procedures have been implemented and complied with.

SCHEDULE B – GENERAL MINISTERIALLY-IMPOSED LICENCE CONDITIONS

1. Ongoing capacity to operate

1.1. The Licensee must have the technical, financial and organisational capacity to carry out the activities authorised by this Licence. If the Licensee ceases to have this capacity, it must report this to IPART in accordance with the Reporting Manual.

2. Maintaining appropriate insurance

- 2.1. The Licensee must hold insurance that is appropriate for the size and nature of the activities that the Licensee is carrying out under this Licence.
- 2.2. The Licensee must provide a copy of each certificate of currency of the insurance maintained by the Licensee to IPART in accordance with the Reporting Manual.
- 2.3. Before commencing to commercially operate the Specified Water Industry Infrastructure under this Licence, the Licensee must demonstrate that the insurance held is appropriate for the size and nature of those commercial operation activities, by providing a report to IPART from an Insurance Expert that:
 - a) certifies that in the Insurance Expert's opinion, the type, scope and limit of the insurance held by the Licensee is appropriate for the size and nature of those commercial operation activities; and
 - b) is in the form prescribed by the Reporting Manual.
- 2.4. [Not applicable]
- 2.5. If, in relation to the activities authorised by this Licence, there is, or is to be, a change in either of the following, the Licensee must provide a report to IPART in accordance with the Reporting Manual:
 - a) the insurer or underwriting panel in respect of an insurance policy held by the Licensee; or
 - b) the type, scope or limit on the amount of insurance held by the Licensee.

2.6. From time to time when requested in writing by IPART, the Licensee must provide a report to IPART, in the manner and form and within the timeframes specified by IPART, from an Insurance Expert certifying that in the Insurance Expert's opinion the type, scope and limit on the amount of insurance held by the Licensee is appropriate for the size and nature of the activities that the Licensee is carrying out under this Licence.

[Note: The circumstances in which IPART may request a report under clause 2.6 include (but are not limited to) the following:

- where IPART considers that there may be a change in the type, scope or limit on the amount of insurance held by the Licensee in relation to activities that the Licensee is carrying out under this Licence;
- where there is a change in the type or extent of activities authorised by this Licence; or
- where IPART or an approved auditor considers that the type, scope or limit on the amount of insurance held by the Licensee may not be appropriate for the size and nature of the activities that the Licensee is carrying out under this Licence.]
- 2.7. The Licensee must maintain professional indemnity insurance during the Design Phase and for a minimum of 6 years from the date of the completion of the Design Phase.

3. Complying with NSW Health requirements

- 3.1. The Licensee must carry out the activities authorised by this Licence in compliance with any requirements of NSW Health that:
 - a) IPART has agreed to; and
 - b) are notified from time to time to the Licensee by IPART in writing.

4. Complying with Audit Guidelines

4.1. The Licensee must comply with any Audit Guidelines issued by IPART.

5. Reporting in accordance with the Reporting Manual

5.1. The Licensee must prepare and submit reports in accordance with the Reporting Manual.

6. Reporting information in relation to the register of licences

- 6.1. The Licensee must notify IPART, and provide IPART with details, of any change in relation to the following, in accordance with the Reporting Manual, within 14 days of the change:
 - a) any source from which the water handled by the Specified Water Industry Infrastructure is derived;
 - b) the identity of each licensed retail supplier or public water utility that has access to the infrastructure services provided by the Specified Water Industry Infrastructure for the purpose of supplying water to its customers;
 - c) any other water infrastructure to which the Specified Water Industry Infrastructure is connected;
 - d) in the case of non-potable water, the authorised purposes for that water;
 - e) the identity of each licensed retail supplier or public water utility that has access to infrastructure services provided by the Specified Water Industry Infrastructure for the purpose of providing sewerage services to its customers;
 - f) any other sewerage infrastructure to which the Specified Water Industry Infrastructure is connected; and
 - g) the arrangements for the disposal of waste from the water industry infrastructure specified in Section 3, Table 3.2.

7. Monitoring

- 7.1. The Licensee must undertake any monitoring that is required for the purposes of this Licence, any Plan, the Act or the Regulation in accordance with this clause 7.
- 7.2. The Licensee must keep the following records of any samples taken for monitoring purposes specified in the Water Quality Plan:
 - a) the date on which the sample was taken;
 - b) the time at which the sample was collected;
 - c) the point or location at which the sample was taken; and
 - d) the chain of custody of the sample (if applicable).
- 7.3. The Licensee must ensure that analyses of all samples taken for the purposes of Verification Monitoring are carried out by a laboratory accredited for the specified tests by an independent body that is acceptable to NSW Health, such as the National Association of Testing Authorities or an equivalent body.

8. Delineating responsibilities

- 8.1. If a code of conduct has not been established under clause 25 of the Regulation, the Licensee must, by a date specified by IPART, establish a code of conduct (Licensee's Code of Conduct) in accordance with this clause 8.
- 8.2. Before the Licensee brings the Specified Water Industry Infrastructure into commercial operation or by a later date specified by IPART (if any), the Licensee's Code of Conduct must be agreed in writing between:
 - a) the Licensee; and
 - b) each licensed network operator, licensed retail supplier and/or public water utility that:
 - supplies water or provides sewerage services by means of any water industry infrastructure that is connected to the Specified Water Industry Infrastructure; or
 - ii) constructs, maintains or operates any water industry infrastructure that is connected to the Specified Water Industry Infrastructure.
- 8.3. [Not applicable]
- 8.4. The Licensee's Code of Conduct must set out the respective responsibilities of the entities specified in clause 8.2 by, at a minimum, providing for:
 - a) who is responsible for repairing, replacing or maintaining any pipes, pumps, valves, storages or other infrastructure connecting the Specified Water Industry Infrastructure to the other water industry infrastructure;
 - b) who is responsible for water quality;
 - c) who is liable in the event of the unavailability of water;
 - d) who is liable in the event of failure of any water industry infrastructure;
 - e) the fees and charges payable in respect of the use of the water industry infrastructure; and
 - f) who is responsible for handling customer complaints.
- 8.5. The Licensee must not contravene the Licensee's Code of Conduct to the extent that it makes the Licensee responsible or liable for the matters set out in it.

9. Notification of changes to end-use

9.1. If the Licensee proposes to operate the Specified Water Industry Infrastructure to supply non-potable water for an end-use which is not set out in the most recent Water Quality Plan provided to IPART, the Licensee must notify IPART in writing at least 3 months before commencing such operation.

10. Notification of commercial operation

- 10.1. Each time the Licensee has brought any new Specified Water Industry Infrastructure into commercial operation, the Licensee must:
 - a) notify IPART in accordance with the Reporting Manual that it has brought the relevant Specified Water Industry Infrastructure into commercial operation; and
 - b) provide such notification within 10 days after it has brought the relevant Specified Water Industry Infrastructure into commercial operation.

SCHEDULE C - INTERPRETATION AND DEFINITIONS

1. Interpretation

- 1.1. In this Licence, unless the context requires otherwise:
 - a) the singular includes the plural and vice versa;
 - b) headings are used for convenience only and do not affect the interpretation of this Licence;
 - c) a reference to a document includes the document as modified from time to time and any document replacing it;
 - d) a reference to a "person" includes a natural person and any body or entity whether incorporated or not;
 - e) a reference to a clause is to a clause in this Licence;
 - f) a reference to a section is to a section in this Licence;
 - g) a reference to a schedule is to a schedule to this Licence;
 - h) a reference to a law or statute includes regulations, rules, codes and other instruments under it, and consolidations, amendments, re-enactments or replacements of them; and
 - i) explanatory notes do not form part of this Licence, but in the case of uncertainty may be relied on for interpretation purposes.

2. Definitions

- 2.1. Expressions used in this Licence that are defined in the Act or the Regulation have the meanings set out in the Act or the Regulation.
- 2.2. In this Licence:

| Act | means the Water Industry Competition Act 2006 (NSW). |
|-----------|--|
| Agreement | means any agreement or deed provided to IPART in connection with the Licensee's application for this Licence, or any application to vary this Licence. |

| Appropriate Facilities | means (as applicable): |
|---|--|
| | a) a facility or facilities with the capacity to accept sludge and/or sludge cake produced by the water industry infrastructure specified in Section 3 Table 3.2(1); b) a facility or facilities with the capacity to accept excess recycled water produced by the water industry infrastructure specified in Section 1 Table 1.2(1). |
| Approved Construction Environmental Management Plan | means the document titled <i>Box Hill Local Water Centre</i> <i>Construction Environmental Management Plan,</i> Version 4, prepared by RPS Australia East Pty Ltd, December 2016. |
| Audit Guidelines | means the document titled "Audit Guideline – Water Industry Competition Act 2006", which is prepared by IPART and is available on IPART's website at www.ipart.nsw.gov.au, and any other guidelines issued by IPART in relation to audits under the Act. |
| Authorised Person | means each person specified in, as applicable: a) section 1, Table 1.1; b) section 2, Table 2.1; and c) section 3, Table 3.1. |
| Design Phase | means the period during which any design works are carried out in relation to the water industry infrastructure that the Licensee is authorised to construct, maintain and operate under this Licence. |

| Environmental Impact Assessments | means the documents titled: | | |
|--|---|--|--|
| | a) Review of Environmental Factors for the Proposed Sewage, Recycled Water Reticulation Systems, Box Hill North Precinct New South Wales, Version 7, prepared by RPS Australia East Pty Ltd, March 2016; b) Review of Environmental Factors for the Proposed Local Water Centre, Box Hill North Precinct New South wales, Version 4, prepared by RPS Australia East Pty Ltd, March 2016; and c) Environmental Impact Assessment Checklist, Box Hill – extension of recycled water reticulation, prepared by Flow Systems Pty Ltd, Revision Final 2.0, 6 October 2020. | | |
| | and does not include any modified version of these documents or any other document replacing any of them. | | |
| Extension of Reticulation EIA Checklist | means the document titled <i>Environmental Impact Assessment</i> <i>Checklist, Box Hill – extension of recycled water reticulation,</i> prepared by Flow Systems Pty Ltd, Revision Final 2.0, 6 October 2020. | | |
| Insurance Expert | means an insurance broker which holds an Australian financial services licence under Part 7.6 of the <i>Corporations Act 2001</i> (Cth) that authorises the broker to provide financial product advice for, and deal in, contracts of insurance within the meaning of Chapter 7 of that Act. | | |
| IPART | means the Independent Pricing and Regulatory Tribunal of New South Wales established under the <i>Independent Pricing and Regulatory Tribunal Act 1992</i> (NSW). | | |
| Licence | means this network operator's licence granted under section 10 of the Act. | | |
| Licensee | means Flow Systems Operations Pty Ltd (ACN 603 106 305). | | |
| Licensee's Code of Conduct | has the meaning given in Schedule B, clause 8.1. | | |

| Minister | means the Minister responsible for Part 2 of the Act. |
|--|---|
| NSW Health | means the Water Unit of NSW Ministry of Health and any of the local health districts as defined by the NSW Ministry of Health. |
| Ornamental Water Feature | means water features that: a) are provided primarily for aesthetic or beautification purposes, and b) do not, by their design or accessibility, encourage interaction with the water. |
| Plan | means any infrastructure operating plan, water quality plan or sewage management plan that the Licensee is required to prepare under the Regulation. |
| Regulation | means the Water Industry Competition (General) Regulation 2008 (NSW). |
| Reporting Manual | means the document titled "Network Operator's Reporting Manual", which is prepared by IPART and is available on IPART's website at www.ipart.nsw.gov.au. |
| Specified Water Industry Infrastructure | means the water industry infrastructure specified in, as applicable: a) section 1, Table 1.2; b) section 2, Table 2.2; and c) section 3, Table 3.2. |
| Systems REF | means the document titled <i>Review of Environmental Factors</i> for the Proposed Sewage, Recycled Water Reticulation Systems, Box Hill North Precinct New South Wales, Version 7, prepared by RPS Australia East Pty Ltd, March 2016. |
| Verification Monitoring | means verification monitoring as described in the document titled "Australian Drinking Water Guidelines" or the document titled "Australian Guidelines for Water Recycling" as the case may be. |

| Water Centre REF | means the document titled <i>Review of Environmental Factors</i> for the Proposed Local Water Centre, Box Hill North Precinct New South wales, Version 4, prepared by RPS Australia East Pty Ltd, March 2016. |
|--------------------|--|
| Water Quality Plan | means the water quality plan that the Licensee is required to prepare under the Regulation. |

SCHEDULE D – AREA OF OPERATIONS – NON-POTABLE WATER

Table D.1 Vertices for area of operations for non-potable water treatment plant

| Vertex | Easting | Northing | Vertex | Easting | Northing |
|--------|------------|-------------|--------|------------|-------------|
| A1 | 305343.938 | 6277802.933 | A5 | 305361.643 | 6277933.403 |
| A2 | 305338.558 | 6277801.171 | A6 | 305390.320 | 6277940.401 |
| A3 | 305268.128 | 6277836.598 | A7 | 305408.843 | 6277930.864 |
| A4 | 305289.398 | 6277888.395 | A8 | 305343.938 | 6277802.933 |

Table D.2 Vertices for area of operations for non-potable water reticulation network

| Vertex | Easting | Northing | Vertex | Easting | Northing |
|--------|------------|-------------|--------|------------|-------------|
| 0 | 305550.063 | 6275594.422 | 28 | 304805.131 | 6276689.976 |
| 1 | 305548.988 | 6275592.053 | 29 | 304744.958 | 6277120.167 |
| 2 | 305530.685 | 6275600.506 | 30 | 304751.979 | 6277138.984 |
| 3 | 305537.828 | 6275615.986 | 31 | 305118.957 | 6276963.483 |
| 4 | 305471.676 | 6275646.504 | 32 | 305351.104 | 6277234.339 |
| 5 | 305466.100 | 6275633.445 | 33 | 305428.616 | 6277402.141 |
| 6 | 305448.779 | 6275638.715 | 34 | 305108.150 | 6277519.041 |
| 7 | 305453.487 | 6275649.748 | 35 | 305260.530 | 6277818.041 |
| 8 | 305426.757 | 6275662.016 | 36 | 305066.648 | 6277915.568 |
| 9 | 305489.200 | 6275809.070 | 37 | 305053.083 | 6277911.198 |
| 10 | 305543.262 | 6275925.511 | 38 | 305035.198 | 6277919.867 |
| 11 | 305522.371 | 6275952.133 | 39 | 305234.596 | 6278300.496 |
| 12 | 305495.285 | 6275959.751 | 40 | 305298.146 | 6278418.001 |
| 13 | 305473.992 | 6275952.145 | 41 | 305290.278 | 6278430.786 |
| 14 | 305390.137 | 6275942.970 | 42 | 305309.946 | 6278451.398 |
| 15 | 305354.712 | 6275945.925 | 43 | 305318.534 | 6278456.692 |
| 16 | 305324.085 | 6275955.065 | 44 | 305566.415 | 6278914.582 |
| 17 | 305292.582 | 6275973.078 | 45 | 305566.019 | 6278924.903 |
| 18 | 305448.567 | 6276268.281 | 46 | 305580.506 | 6278939.370 |
| 19 | 305206.642 | 6276350.080 | 47 | 305593.614 | 6278922.662 |
| 20 | 305079.068 | 6276133.881 | 48 | 305595.473 | 6278916.476 |
| 21 | 305041.059 | 6276145.496 | 49 | 306595.389 | 6278384.364 |
| 22 | 305012.511 | 6276160.325 | 50 | 306647.230 | 6278380.032 |
| 23 | 305004.417 | 6276166.017 | 51 | 306686.634 | 6278388.485 |
| 24 | 304935.581 | 6276227.927 | 52 | 306721.467 | 6278403.930 |
| 25 | 305039.512 | 6276404.431 | 53 | 306721.551 | 6278405.372 |
| 26 | 305050.448 | 6276400.871 | 54 | 307093.690 | 6278214.678 |
| 27 | 305039.435 | 6276495.239 | 55 | 307093.105 | 6278211.170 |

| Vertex | Easting | Northing | |
|--------|------------|-------------|--|
| 56 | 306923.513 | 6277898.509 | |
| 57 | 306977.270 | 6277869.862 | |
| 58 | 306861.152 | 6277655.302 | |
| 59 | 307059.436 | 6277549.923 | |
| 60 | 307116.318 | 6277658.056 | |
| 61 | 307176.541 | 6277772.609 | |
| 62 | 307193.666 | 6277761.943 | |
| 63 | 307138.280 | 6277658.781 | |
| 64 | 307075.362 | 6277541.423 | |
| 65 | 307075.362 | 6277541.423 | |
| 66 | 307034.481 | 6277465.422 | |
| 67 | 306998.487 | 6277408.438 | |
| 68 | 306961.255 | 6277357.077 | |
| 69 | 306920.564 | 6277308.301 | |
| 70 | 306876.723 | 6277262.254 | |
| 71 | 306811.961 | 6277203.551 | |
| | | | |

| Easting | Northing |
|------------|--|
| 306657.881 | 6277082.543 |
| 306540.587 | 6276983.079 |
| 306507.327 | 6276946.051 |
| 306463.466 | 6276890.864 |
| 306423.101 | 6276831.942 |
| 306228.862 | 6276519.414 |
| 306225.383 | 6276499.716 |
| 306209.549 | 6276474.231 |
| 306194.582 | 6276483.435 |
| 306147.085 | 6276406.967 |
| 306169.787 | 6276399.152 |
| 305969.415 | 6275800.271 |
| 305684.600 | 6275898.147 |
| 305680.970 | 6275878.177 |
| 305550.063 | 6275594.422 |
| | 306657.881 306540.587 306507.327 306463.466 306423.101 306228.862 306225.383 306209.549 306194.582 306147.085 306169.787 305969.415 305684.600 305680.970 |

Note: Coordinate reference system is MGA 56.

SCHEDULE E – AREA OF OPERATIONS – SEWERAGE SERVICES

Table E.1 Vertices for area of operations for sewage treatment plant

| Vertex | Easting | Northing | Vertex | Easting | Northing |
|--------|------------|-------------|--------|------------|-------------|
| A1 | 305343.938 | 6277802.933 | A5 | 305361.643 | 6277933.403 |
| A2 | 305338.558 | 6277801.171 | A6 | 305390.320 | 6277940.401 |
| A3 | 305268.128 | 6277836.598 | A7 | 305408.843 | 6277930.864 |
| A4 | 305289.398 | 6277888.395 | A8 | 305343.938 | 6277802.933 |

Table E.2 Vertices for area of operations for sewage reticulation network

| Vertex | Easting | Northing | Vertex | Easting | Northing |
|--------|------------|-------------|--------|------------|-------------|
| 0 | 305550.063 | 6275594.422 | 28 | 304805.131 | 6276689.976 |
| 1 | 305548.988 | 6275592.053 | 29 | 304744.958 | 6277120.167 |
| 2 | 305530.685 | 6275600.506 | 30 | 304751.979 | 6277138.984 |
| 3 | 305537.828 | 6275615.986 | 31 | 305118.957 | 6276963.483 |
| 4 | 305471.676 | 6275646.504 | 32 | 305351.104 | 6277234.339 |
| 5 | 305466.100 | 6275633.445 | 33 | 305428.616 | 6277402.141 |
| 6 | 305448.779 | 6275638.715 | 34 | 305108.150 | 6277519.041 |
| 7 | 305453.487 | 6275649.748 | 35 | 305260.530 | 6277818.041 |
| 8 | 305426.757 | 6275662.016 | 36 | 305066.648 | 6277915.568 |
| 9 | 305489.200 | 6275809.070 | 37 | 305053.083 | 6277911.198 |
| 10 | 305543.262 | 6275925.511 | 38 | 305035.198 | 6277919.867 |
| 11 | 305522.371 | 6275952.133 | 39 | 305234.596 | 6278300.496 |
| 12 | 305495.285 | 6275959.751 | 40 | 305298.146 | 6278418.001 |
| 13 | 305473.992 | 6275952.145 | 41 | 305290.278 | 6278430.786 |
| 14 | 305390.137 | 6275942.970 | 42 | 305309.946 | 6278451.398 |
| 15 | 305354.712 | 6275945.925 | 43 | 305318.534 | 6278456.692 |
| 16 | 305324.085 | 6275955.065 | 44 | 305566.415 | 6278914.582 |
| 17 | 305292.582 | 6275973.078 | 45 | 305566.019 | 6278924.903 |
| 18 | 305448.567 | 6276268.281 | 46 | 305580.506 | 6278939.370 |
| 19 | 305206.642 | 6276350.080 | 47 | 305593.614 | 6278922.662 |
| 20 | 305079.068 | 6276133.881 | 48 | 305595.473 | 6278916.476 |
| 21 | 305041.059 | 6276145.496 | 49 | 306595.389 | 6278384.364 |
| 22 | 305012.511 | 6276160.325 | 50 | 306647.230 | 6278380.032 |
| 23 | 305004.417 | 6276166.017 | 51 | 306686.634 | 6278388.485 |
| 24 | 304935.581 | 6276227.927 | 52 | 306721.467 | 6278403.930 |
| 25 | 305039.512 | 6276404.431 | 53 | 306721.551 | 6278405.372 |
| 26 | 305050.448 | 6276400.871 | 54 | 307093.690 | 6278214.678 |
| 27 | 305039.435 | 6276495.239 | 55 | 307093.105 | 6278211.170 |

| Vertex | Easting | Northing |
|--------|------------|-------------|
| 56 | 306923.513 | 6277898.509 |
| 57 | 306977.270 | 6277869.862 |
| 58 | 306861.152 | 6277655.302 |
| 59 | 307075.362 | 6277541.423 |
| 60 | 307034.481 | 6277465.422 |
| 61 | 306998.487 | 6277408.438 |
| 62 | 306961.255 | 6277357.077 |
| 63 | 306920.564 | 6277308.301 |
| 64 | 306876.723 | 6277262.254 |
| 65 | 306811.961 | 6277203.551 |
| 66 | 306657.881 | 6277082.543 |
| 67 | 306540.587 | 6276983.079 |
| 68 | 306507.327 | 6276946.051 |

| Vertex | Easting | Northing |
|--------|------------|-------------|
| 69 | 306463.466 | 6276890.864 |
| 70 | 306423.101 | 6276831.942 |
| 71 | 306228.862 | 6276519.414 |
| 72 | 306225.383 | 6276499.716 |
| 73 | 306209.549 | 6276474.231 |
| 74 | 306194.582 | 6276483.435 |
| 75 | 306147.085 | 6276406.967 |
| 76 | 306169.787 | 6276399.152 |
| 77 | 305969.415 | 6275800.271 |
| 78 | 305684.600 | 6275898.147 |
| 79 | 305680.970 | 6275878.177 |
| 80 | 305550.063 | 6275594.422 |

Note: Coordinate reference system is MGA 56.

SCHEDULE F – AREA OF OPERATIONS – MAPS

Schedule F contains two maps:

- 1) Map 1 Non-potable water services
- 2) Map 2 Sewerage services



(ACN 603 106 305)



(ACN 603 106 305)



NEW SOUTH WALES GOVERNMENT

Water Industry Competition Act 2006 (NSW)

Retail supplier's licence

Licence no. 13_001R

Flow Systems Pty Ltd

(ACN 136 272 298)

1. Summary

- 1.1. This Licence is granted under section 10(1) of the Act.
- 1.2. The Act prohibits a person from supplying water, or providing a sewerage service, by means of any water industry infrastructure, otherwise than under the authority of a licence. This Licence authorises the Licensee and other Authorised Persons to carry out such activities that would otherwise be prohibited under the Act.

2. Outline

2.1. This Licence is divided into the following sections and schedules:

Section 1 authorises the supply of non-potable water (if applicable).

Section 2 authorises the supply of drinking water (if applicable).

Section 3 authorises the supply of sewerage services (if applicable).

Schedule A sets out special Ministerially-imposed licence conditions that are specific to this Licence.

Schedule B sets out Ministerially-imposed licence conditions that generally apply to retail suppliers' licences granted under the Act.

Schedule C sets out relevant scheme details.

Schedule D sets out the area of operations for the retail of non-potable water for the North Cooranbong Scheme.

Schedule E sets out the area of operations for the retail of drinking water and sewerage services for the North Cooranbong Scheme.

Schedule F provides indicative maps for the North Cooranbong Scheme included for reference only.

Schedule G sets out the area of operations for the retail of non-potable water for the Box Hill North Scheme.

Schedule H provides an indicative map for the Box Hill North Scheme included for reference only.

Schedule I sets out definitions and interpretation provisions.

- 2.2. In addition to the conditions in Schedules A and B to this Licence, the Act and Regulation also contain conditions that apply to this Licence. Nothing in Schedules A or B modify or affect the conditions imposed on this Licence by the Act or Regulation.
- 2.3. Where there is an inconsistency between, on one hand, Schedule D or Schedule E and, on the other hand, Schedule F, Schedule D and E prevail over Schedule F to the extent of the inconsistency.
- 2.4. Where there is an inconsistency between Schedule G and Schedule H, Schedule G prevails over Schedule H to the extent of the inconsistency.

Subject to the conditions imposed by the Act, the Regulation and Schedules A and B of this Licence, this Licence authorises the Licensee and any Authorised Persons specified in Table 1.1 to supply non-potable water:

- a) by means of the water industry infrastructure specified in Table 1.2
- b) to the persons or classes of persons specified in Table 1.3
- c) within the Area of Operations specified in Table 1.4, and
- d) for one or more of the Authorised Purposes for non-potable water specified in Table 1.5.

Table 1.1Authorised Persons

[Not applicable]

Table 1.2 Water industry infrastructure

The water industry infrastructure detailed in Schedule C, Table C.1.

Table 1.3 Person or classes of persons

Persons within the Area of Operations detailed in Schedule C, Table C.1.

Table 1.4Area of Operations

The Area of Operations detailed in Schedule C, Table C.1.

Table 1.5 Authorised Purposes for non-potable water

The Authorised Purposes detailed in Schedule C, Table C.1.

SECTION 2 - ACTIVITIES AUTHORISED - DRINKING WATER SUPPLY

Subject to the conditions imposed by the Act, the Regulation and Schedules A and B of this Licence, this Licence authorises the Licensee and any Authorised Persons specified in Table 2.1 to supply drinking water:

- a) by means of the water industry infrastructure specified in Table 2.2
- b) to the persons or classes of persons specified in Table 2.3
- c) within the Area of Operations specified in Table 2.4, and
- d) for one or more of the Authorised Purposes for drinking water specified in Table 2.5.

Table 2.1Authorised Persons

[Not applicable]

Table 2.2 Water industry infrastructure

The water industry infrastructure detailed in Schedule C, Table C.2.

Table 2.3 Person or classes of persons

Persons within the Area of Operations detailed in Schedule C, Table C.2.

Table 2.4Area of Operations

The Area of Operations detailed in Schedule C, Table C.2.

Table 2.5 Authorised Purposes for drinking water

The Authorised Purposes detailed in Schedule C, Table C.2.

SECTION 3 – ACTIVITIES AUTHORISED - SEWERAGE SERVICES

Subject to the conditions imposed by the Act, the Regulation and Schedules A and B of this Licence, this Licence authorises the Licensee and any Authorised Persons specified in Table 3.1 to provide sewerage services:

- a) by means of the water industry infrastructure specified in Table 3.2
- b) to the persons or classes of persons specified in Table 3.3
- c) within the Area of Operations specified in Table 3.4, and
- d) for one or more of the Authorised Purposes for sewerage services specified in Table 3.5.

Table 3.1Authorised Persons

[Not applicable]

Table 3.2 Water industry infrastructure

The water industry infrastructure detailed in Schedule C, Table C.3.

Table 3.3 Person or classes of persons

Persons within the Area of Operations detailed in Schedule C, Table C.3.

Table 3.4Area of Operations

The Area of Operations detailed in Schedule C, Table C.3.

Table 3.5 Authorised Purposes for sewerage services

The Authorised Purposes detailed in Schedule C, Table C.3.

SCHEDULE A – SPECIAL MINISTERIALLY-IMPOSED LICENCE CONDITIONS

This schedule sets out the conditions which the Minister imposes pursuant to section 13(1)(b) of the Act. In addition to these special Ministerially-imposed conditions, the Licensee is subject to obligations imposed by the Act, the Regulation and the standard Ministerially-imposed licence conditions set out in Schedule B. The Minister may vary the conditions in this schedule or impose new conditions, provided there is no inconsistency with the conditions imposed by the Act or the Regulation.

- **1.** If requested by IPART, the Licensee must prepare and provide IPART with:
 - a) a report, to IPART's satisfaction, outlining:
 - (i) evidence of discussions with intended customer(s) or formal agreement(s) with customer(s); and
 - (ii) the curriculum vitae of the key personnel involved in the operation and management of the activities authorised by this Licence, and
 - b) a statement:
 - (i) identifying any third party providing customer services under this Licence; and
 - (ii) outlining the enforceable controls the Licensee has in place to enable it to effectively respond to any suspected breaches of these Licence conditions.

1. Ongoing capacity to operate

1.1. The Licensee must have the technical, financial and organisational capacity to carry out the activities authorised by this Licence. If the Licensee ceases to have this capacity, it must report this to IPART in accordance with the Reporting Manual.

2. Maintaining appropriate insurance

- 2.1. The Licensee must hold insurance that is appropriate for the size and nature of the activities that the Licensee is carrying out under this Licence.
- 2.2. The Licensee must provide a copy of each certificate of currency of the insurance maintained by the Licensee to IPART in accordance with the Reporting Manual.
- 2.3. Before commencing any of the activities authorised by this Licence, the Licensee must demonstrate that the insurance held is appropriate for the size and nature of the activities, by providing a report to IPART from an Insurance Expert that:
 - a) certifies that in the Insurance Expert's opinion, the type, scope and limit of the insurance held by the Licensee is appropriate for the size and nature of the activities; and
 - b) is in the form prescribed by the Reporting Manual.
- 2.4. [Not applicable]
- 2.5. If, in relation to the activities authorised by this Licence, there is, or is to be a change in either of the following, the Licensee must provide a report to IPART in accordance with the Reporting Manual:
 - a) the insurer or underwriting panel in respect of an insurance policy held by the Licensee; or
 - b) the type, scope or limit on the amount of insurance held by the Licensee.
- 2.6. From time to time when requested in writing by IPART, the Licensee must provide a report to IPART, in the manner and form and within the timeframes specified by IPART, from an Insurance Expert certifying that in the Insurance Expert's opinion the type, scope and limit on the amount of insurance held by the Licensee is appropriate for the size and nature of the activities that the Licensee is carrying out under this Licence.

[Note: The circumstances in which IPART may request a report under clause 2.6 include (but are not limited to) the following:

• where IPART considers that there may be a change in the type, scope or limit on the amount of insurance held by the Licensee in relation to activities that the Licensee is carrying out under this Licence;

- where there is a change in the type or extent of activities authorised by this Licence; or
- where IPART or an approved auditor considers that the type, scope or limit on the amount of insurance held by the Licensee may not be appropriate for the size and nature of the activities that the Licensee is carrying out under this Licence.]

3. Complying with NSW Health requirements

- 3.1. The Licensee must carry out the activities authorised by this Licence in compliance with any requirements of NSW Health that:
 - a) IPART has agreed to; and
 - b) are notified from time to time to the Licensee by IPART in writing.

4. Complying with Audit Guidelines

4.1. The Licensee must comply with any Audit Guidelines issued by IPART.

5. Reporting in accordance with the Reporting Manual

5.1. The Licensee must prepare and submit reports in accordance with the Reporting Manual.

6. Reporting information in relation to the register of licences

- 6.1. The Licensee must notify IPART, and provide IPART with details, of any change in relation to the following, in accordance with the Reporting Manual within 14 days of the change:
 - a) any licensed network operator or public water utility from whose water industry infrastructure the Licensee supplies water to its customers;
 - b) any source from which the water handled by the water industry infrastructure referred to in clause 6.1a) is derived;
 - c) whether or not any of the Licensee's customers are Small Retail Customers;
 - d) any order under section 54 of the Act by which the Licensee is declared to be a retailer of last resort; and
 - e) any licensed network operator or public water utility by means of whose sewerage infrastructure the Licensee provides sewerage services to its customers.

7. Delineating responsibilities

- 7.1. If a code of conduct has not been established under clause 25 of the Regulation, the Licensee must, by a date specified by IPART, establish a code of conduct (Licensee's Code of Conduct) in accordance with this clause 7.
- 7.2. Before commencing to supply water or provide sewerage services by means of the Licensed Water Industry Infrastructure under this Licence or by a later date specified by IPART (if any), the Licensee's Code of Conduct must be agreed in writing between:
 - a) the Licensee; and
 - b) each licensed network operator, licensed retail supplier and/or public water utility that:
 - i) supplies water or provides sewerage services by means of any water industry infrastructure that is connected to the Licensed Water Industry Infrastructure; or
 - ii) constructs, maintains or operates any water industry infrastructure that is connected to the Licensed Water Industry Infrastructure.

7.3. [Not Applicable]

- 7.4. The Licensee's Code of Conduct must set out the respective responsibilities of the entities specified in clause 7.2 by, at a minimum, providing for:
 - a) who is responsible for repairing, replacing or maintaining any pipes, pumps, valves or storages or other infrastructure connecting the Licensed Water Industry Infrastructure to the other water industry infrastructure;
 - b) who is responsible for water quality;
 - c) who is liable in the event of the unavailability of water;
 - d) who is liable in the event of failure of any water industry infrastructure;
 - e) the fees and charges payable in respect of the use of the water industry infrastructure; and
 - f) who is responsible for handling customer complaints.
- 7.5. The Licensee must not contravene the Licensee's Code of Conduct to the extent that it makes the Licensee responsible or liable for the matters set out in it.

8. Infrastructure to be used

- 8.1. The Licensee must only source and supply water by means of water industry infrastructure, if that water industry infrastructure is maintained and operated by a licensed network operator or public water utility.
- 8.2. The Licensee must only provide sewerage services by means of water industry infrastructure, if that water industry infrastructure is maintained and operated by a licensed network operator or public water utility.

9. Notification of supply of water or provision of sewerage services

- 9.1. Each time the Licensee commences to supply water under this Licence, the Licensee must:
 - a) notify IPART in accordance with the Reporting Manual that it has commenced to supply water to customers by means of the relevant Licensed Water Industry Infrastructure; and
 - b) provide such notification within 10 days after such commencement.
- 9.2. Each time the Licensee commences to provide sewerage services under this Licence, the Licensee must:
 - a) notify IPART in accordance with the Reporting Manual that it has commenced to provide sewerage services to customers by means of the relevant Licensed Water Industry Infrastructure; and
 - b) provide such notification within 10 days after such commencement.

Table C.1 Non-potable water supply

| Scheme | Water industry infrastructure | Authorised Purposes | Area of Operations |
|-------------------------------|---|---|---|
| Box Hill North Scheme | The water industry infrastructure specified in Section 1, Table 1.2 of the Box Hill North Network Operator's Licence. | The Authorised Purposes specified in Section 1, Table 1.4 of the Box Hill North Network Operator's Licence. | The Area of Operations specified in Schedule G of this licence. |
| Central Park Scheme | The water industry infrastructure specified in Section 1, Table 1.2A and Table 1.2B of the Central Park Water Network Operator's Licence. | The Authorised Purposes specified in Section 1, Table 1.3 of the Central Park Water Network Operator's Licence. | The Area of Operations specified in Section 1, Table 1.4A and Table 1.4B of the Central Park Water Network Operator's Licence, and Lot 2012 DP 1183894, and Lot 2012 DP 1190337. |
| Discovery Point Scheme | The water industry infrastructure specified in Section 1, Table 1.2 of the Discovery Point Water Network Operator's Licence. | The Authorised Purposes specified in Section 1, Table 1.3 of the Discovery Point Water Network Operator's Licence. | The Area of Operations specified in Section 1, Table 1.4 of the Discovery Point Water Network Operator's Licence. |
| Glossodia Scheme | The water industry infrastructure specified in Table 1.2 in Section 1 of the Glossodia Network Operator's Licence. | The Authorised Purposes specified in Table 1.4 in Section 1 of the Glossodia Network Operator's Licence. | The Area of Operations specified in Table 1.3 in Section 1 of the Glossodia Network Operator's Licence. |
| Green Square Scheme | The water industry infrastructure specified in Section 1, Table 1.2 of the Green Square Water Network Operator's Licence. | The Authorised Purposes specified in Section 1, Table 1.3 of the Green Square Water Network Operator's Licence. | The Area of Operations specified in Section 1, Table 1.4 of the Green Square Water Network Operator's Licence. |
| Huntlee Scheme | The water industry infrastructure specified in Schedule A, Table 1.2 of the Huntlee Water Network Operator's Licence. | The Authorised Purposes specified in Schedule A, Table 1.3 of the Huntlee Water Network Operator's Licence. | The Area of Operations specified in Schedule A, Table 1.4 of the Huntlee Water Network Operator's Licence. |
| North Cooranbong Scheme | The water industry infrastructure specified in Section 1, Table 1.2 of the Cooranbong Water Network Operator's Licence. | The Authorised Purposes specified in Section 1, Table 1.4 of the Cooranbong Water Network Operator's Licence. | The Area of Operations specified in Schedule D of this licence. |

| Scheme | Water industry infrastructure | Authorised Purposes | Area of Operations |
|----------------------------|---|--|--|
| Pitt Town Scheme | The water industry infrastructure specified in Schedule A, Table 1.2 of the Pitt Town Water Network Operator's Licence. | The Authorised Purposes specified in Schedule A, Table 1.3 of the Pitt Town Water Network Operator's Licence. | The Area of Operations specified in Schedule A, Table 1.4 of the Pitt Town Water Network Operator's Licence. |
| Shepherds Bay Scheme | The water industry infrastructure specified in Section 1, Table 1.2 of the Shepherds Bay Water Network Operator's Licence. | The Authorised Purposes specified in Section 1, Table 1.2 and Table 1.4 of the Shepherds Bay Water Network Operator's Licence. | The Area of Operations specified in Section 1, Table 1.3 of the Shepherds Bay Water Network Operator's Licence. |
| Wyee Scheme | The water industry infrastructure specified in Schedule A, Table 1.2 of the Wyee Water Network Operator's Licence. | The Authorised Purposes specified in Schedule A, Table 1.3 of the Wyee Water Network Operator's Licence. | The Area of Operations specified in Schedule A, Table 1.4 of the Wyee Water Network Operator's Licence. |

| Scheme | Water industry infrastructure | Authorised Purposes | Area of Operations |
|-------------------------------|---|---|---|
| Central Park Scheme | The water industry infrastructure specified in Section 2, Table 2.2 of the Central Park Water Network Operator's Licence. | The Authorised Purposes specified in Section 2, Table 2.2 of the Central Park Water Network Operator's Licence. | The Area of Operations specified in Section 2, Table 2.3 of the Central Park Water Network Operator's Licence., and Lot 2012 DP 1183894, and Lot 2012 DP 1190337. |
| Discovery Point Scheme | The water industry infrastructure specified in Section 2, Table 2.2 of the Discovery Point Water Network Operator's Licence. | The Authorised Purposes specified in Section 2, Table 2.3 of the Discovery Point Water Network Operator's Licence. | The Area of Operations specified in Section 2, Table 2.4 of the Discovery Point Water Network Operator's Licence. |
| Huntlee Scheme | The water industry infrastructure specified in Schedule A, Table 2.2 of the Huntlee Water Network Operator's Licence. | The Authorised Purposes specified in Schedule A, Table 2.3 of the Huntlee Water Network Operator's Licence. | The Area of Operations specified in Schedule A, Table 2.4 of the Huntlee Water Network Operator's Licence. |
| North Cooranbong Scheme | The water industry infrastructure specified in Section 2, Table 2.2 of the Cooranbong Water Network Operator's Licence. | The Authorised Purposes specified in Section 2, Table 2.4 of the Cooranbong Water Network Operator's Licence. | The Area of Operations specified in Schedule E of this licence. |
| Shepherds Bay Scheme | The water industry infrastructure specified in Section 2, Table 2.2 of the Shepherds Bay Water Network Operator's Licence. | The Authorised Purposes specified in Section 2, Table 2.2 of the Shepherds Bay Water Network Operator's Licence. | The Area of Operations specified in Section 2, Table 2.3 of the Shepherds Bay Water Network Operator's Licence. |
| Wyee Scheme | The water industry infrastructure specified in Schedule A, Table 2.2 of the Wyee Water Network Operator's Licence. | The Authorised Purposes specified in Schedule A, Table 2.3 of the Wyee Water Network Operator's Licence. | The Area of Operations specified in Schedule A, Table 2.4 of the Wyee Water Network Operator's Licence. |

Table C.2 – Drinking water supply

Table C.3 Provision of sewerage services

| Scheme | Water industry infrastructure | Authorised Purposes | Area of Operations |
|-------------------------------|---|--|--|
| Box Hill North Scheme | The water industry infrastructure specified in Section 3, Table 3.2 of the Box Hill North Network Operator's Licence. | The Authorised Purposes specified in Section 3, Table 3.3 of the Box Hill North Network Operator's Licence. | Area bounded by the vertices listed in Table E.2 in the Box Hill North Network Operator's Licence. |
| Central Park Scheme | The water industry infrastructure specified in Section 3, Table 3.2 of the Central Park Water Network Operator's Licence. | The Authorised Purposes specified in Section 3, Table 3.2 of the Central Park Water Network Operator's Licence. | The Area of Operations specified in Section 3, Table 3.3 of the Central Park Water Network Operator's Licence, and Lot 2012 DP 1183894, and Lot 2012 DP 1190337. |
| Discovery Point Scheme | The water industry infrastructure specified in Section 3, Table 3.2 of the Discovery Point Water Network Operator's Licence. | The Authorised Purposes specified in Section 3, Table 3.3 of the Discovery Point Water Network Operator's Licence. | The Area of Operations specified in Section 3, Table 3.4 of the Discovery Point Water Network Operator's Licence. |
| Glossodia Scheme | The water industry infrastructure specified in Table 3.2 in Section 1 of the Glossodia Network Operator's Licence. | The Authorised Purposes specified in Table 3.2 in Section 1 of the Glossodia Network Operator's Licence. | The Area of Operations specified in Table 3.3 in Section 1 of the Glossodia Network Operator's Licence. |
| Pitt Town Scheme | The water industry infrastructure specified in Schedule A, Table 2.2 of the Pitt Town Water Network Operator's Licence. | The Authorised Purposes specified in Schedule A, Table 2.3 of the Pitt Town Water Network Operator's Licence. | The Area of Operations specified in Schedule A, Table 2.4 of the Pitt Town Water Network Operator's Licence. |
| Huntlee Scheme | The water industry infrastructure specified in Schedule A, Table 3.2 of the Huntlee Water Network Operator's Licence. | The Authorised Purposes specified in Schedule A, Table 3.3 of the Huntlee Water Network Operator's Licence. | The Area of Operations specified in Schedule A, Table 3.4 of the Huntlee Water Network Operator's Licence. |
| North Cooranbong Scheme | The water industry infrastructure specified in Section 3, Table 3.2 of the Cooranbong Water Network Operator's Licence. | The Authorised Purposes specified in Section 3, Tables 3.2 and 3.4 of the Cooranbong Water Network Operator's Licence. | The Area of Operations specified in Schedule E of this licence. |
| Scheme | Water industry infrastructure | Authorised Purposes | Area of Operations |
|-------------------------|---|---|--|
| Shepherds Bay Scheme | The water industry infrastructure specified in Section 3, Table 3.2 of the Shepherds Bay Water Network Operator's Licence. | The Authorised Purposes specified in Section 3, Table 3.2 of the Shepherds Bay Water Network Operator's Licence. | The Area of Operations specified in Section 3,Table 3.3 of the Shepherds Bay Water Network Operator's Licence. |
| Wyee Scheme | The water industry infrastructure specified in Schedule A, Table 3.2 of the Wyee Water Network Operator's Licence. | The Authorised Purposes specified in Schedule A, Table 3.3 of the Wyee Water Network Operator's Licence. | The Area of Operations specified in Schedule A, Table 3.4 of the Wyee Water Network Operator's Licence. |

SCHEDULE D – AREA OF OPERATIONS – NORTH COORANBONG SCHEME - RETAIL OF NON-POTABLE WATER

Coordinates ¹

| Coordinates * | | |
|---------------|------------|--------------------------|
| Vertex | Easting | Northing |
| 1 | 354351.202 | 6342167.550 |
| 2 | 354514.692 | 6342139.480 |
| 3 | 354592.036 | 6342126.211 |
| 4 | 355263.261 | 6342010.852 |
| 5 | 355299.057 | 6342004.699 |
| 6 | 355457.953 | 6341977.432 |
| 7 | 355476.118 | 6341974.262 |
| 8 | 355928.178 | 6341895.744 |
| 9 | 355947.934 | 6341892.376 |
| 10 | 355853.373 | 6341292.557 |
| 11 | 355889.131 | 6341288.932 |
| 12 | 355908.528 | 6341294.666 |
| 13 | 355909.987 | 6341295.082 |
| 14 | 355911.448 | 6341295.492 |
| 15 | 355912.912 | 6341295.894 |
| 16 | 355914.377 | 6341296.289 |
| 17 | 355915.844 | 6341296.675 |
| 18 | 355917.315 | 6341297.054 |
| 19 | 355918.785 | 6341297.426 |
| 20 | 355920.259 | 6341297.789 |
| 21 | 355921.734 | 6341298.145 |
| 22 | 355923.210 | 6341298.493 |
| 23 | 355924.690 | 6341298.834 |
| 24 | 355926.169 | 6341299.168 |
| 25 | 355927.652 | 6341299.492 |
| 26 | 355929.136 | 6341299.810 |
| 27 | 355930.620 | 6341300.120 |
| 28 | 355932.108 | 6341300.421 |
| 29 | 355933.596 | 6341300.716 |
| 30 | 355935.085 | 6341301.002 |
| 31 | 355936.577 | 6341301.280 |
| 32 | 355938.069 | 6341301.552 |
| 33 | 355939.563 | 6341301.814 |
| 34 | 355941.058 | 6341302.070 |
| 35 | 355942.555 | 6341302.318 |
| 36 | 355944.052 | 6341302.557 |
| 37 | 355947.053 | 6341303.013 |
| 38 | 355948.553 | 6341303.229 |
| 39 | 355950.057 | 6341303.438 |
| 40 | 355951.560 | 6341303.639 |
| 41 | 355953.064 | 6341303.831 |
| 42 | 355954.569 | 6341304.015 |
| 43 | 355956.076 | 6341304.193 |
| 44 | 355957.583 | 6341304.363 |
| 44 | 355959.091 | 6341304.523 |
| 40 | | 557150 1 .525 |

| | Coordinates ¹ | | |
|--------|--------------------------|-------------|--|
| Vertex | Easting | Northing | |
| 46 | 355960.599 | 6341304.676 | |
| 47 | 355962.109 | 6341304.822 | |
| 48 | 355963.620 | 6341304.959 | |
| 49 | 355965.130 | 6341305.090 | |
| 50 | 355966.642 | 6341305.211 | |
| 51 | 355968.154 | 6341305.325 | |
| 52 | 355969.667 | 6341305.432 | |
| 53 | 355971.181 | 6341305.530 | |
| 54 | 355972.694 | 6341305.620 | |
| 55 | 355974.208 | 6341305.702 | |
| 56 | 355975.723 | 6341305.776 | |
| 57 | 355977.237 | 6341305.843 | |
| 58 | 355978.752 | 6341305.902 | |
| 59 | 355980.267 | 6341305.953 | |
| 60 | 355981.783 | 6341305.996 | |
| 61 | 355983.299 | 6341306.031 | |
| 62 | 355984.816 | 6341306.058 | |
| 63 | 355986.332 | 6341306.076 | |
| 64 | 355987.847 | 6341306.088 | |
| 65 | 355989.363 | 6341306.091 | |
| 66 | 355990.880 | 6341306.086 | |
| 67 | 355992.396 | 6341306.074 | |
| 68 | 355993.911 | 6341306.054 | |
| 69 | 355995.427 | 6341306.026 | |
| 70 | 355996.943 | 6341305.990 | |
| 71 | 355998.458 | 6341305.945 | |
| 72 | 355999.973 | 6341305.893 | |
| 73 | 356001.488 | 6341305.834 | |
| 74 | 356003.003 | 6341305.764 | |
| 75 | 356004.517 | 6341305.689 | |
| 76 | 356006.030 | 6341305.606 | |
| 77 | 356007.543 | 6341305.514 | |
| 78 | 356009.055 | 6341305.415 | |
| 79 | 356010.568 | 6341305.307 | |
| 80 | 356012.079 | 6341305.193 | |
| 81 | 356013.589 | 6341305.069 | |
| 82 | 356015.100 | 6341304.938 | |
| 83 | 356036.436 | 6341302.923 | |
| 84 | 356040.052 | 6341298.556 | |
| 85 | 356036.864 | 6341263.580 | |
| 86 | 356150.057 | 6341238.764 | |
| 87 | 356154.466 | 6341287.101 | |
| 88 | 356150.397 | 6341292.015 | |
| 89 | 356230.926 | 6341284.356 | |
| 90 | 356234.995 | 6341279.435 | |

| Coordir | | inates ¹ |
|---------|------------|---------------------|
| Vertex | Easting | Northing |
| 91 | 356251.894 | 6341277.870 |
| 92 | 356256.765 | 6341281.960 |
| 93 | 356403.679 | 6341268.302 |
| 94 | 356407.748 | 6341263.377 |
| 95 | 356424.694 | 6341261.757 |
| 96 | 356429.593 | 6341265.824 |
| 97 | 356484.442 | 6341260.581 |
| 98 | 356488.511 | 6341255.657 |
| 99 | 356505.457 | 6341254.038 |
| 100 | 356498.096 | 6341175.733 |
| 100 | 356649.645 | 6341148.313 |
| 101 | 356774.359 | 6341125.628 |
| 102 | 356976.796 | 6341088.994 |
| 105 | 356953.354 | 6340941.979 |
| 104 | 356911.009 | 6340676.479 |
| 105 | 356885.170 | 6340514.852 |
| 100 | 356884.165 | 6340509.213 |
| 107 | 356879.669 | 6340483.987 |
| 108 | 356871.355 | 6340438.179 |
| | | |
| 110 | 356663.500 | 6340472.232 |
| 111 | 356675.399 | 6340545.157 |
| 112 | 356655.424 | 6340548.976 |
| 113 | 356654.135 | 6340541.077 |
| 114 | 356517.390 | 6340564.916 |
| 115 | 356517.393 | 6340564.916 |
| 116 | 356511.020 | 6340529.497 |
| 117 | 356509.328 | 6340520.087 |
| 118 | 356508.144 | 6340512.920 |
| 119 | 356507.647 | 6340509.879 |
| 120 | 356473.232 | 6340515.876 |
| 121 | 356459.461 | 6340518.274 |
| 122 | 356457.642 | 6340507.902 |
| 123 | 356425.193 | 6340513.556 |
| 124 | 356392.735 | 6340519.209 |
| 125 | 356378.973 | 6340521.608 |
| 126 | | 6340527.260 |
| 127 | 356343.352 | 6340509.238 |
| 128 | 356314.239 | 6340533.244 |
| 129 | 356314.179 | 6340540.351 |
| 130 | 356255.557 | 6340549.401 |
| 131 | 356241.003 | 6340473.322 |
| 132 | 356251.795 | 6340469.873 |
| 133 | 356238.394 | 6340391.931 |
| 134 | 356228.412 | 6340393.983 |
| 135 | 356218.483 | 6340342.249 |
| 136 | 356253.676 | 6340334.913 |
| 137 | 356249.597 | 6340308.500 |
| 138 | 356308.787 | 6340296.974 |
| | | |

| | Coordinates ¹ | | |
|--------|--------------------------|-------------|--|
| Vertex | Easting | Northing | |
| 139 | 356304.967 | 6340279.013 | |
| 140 | 356297.856 | 6340238.541 | |
| 141 | 356313.647 | 6340235.975 | |
| 142 | 356329.672 | 6340233.370 | |
| 143 | 356345.706 | 6340230.766 | |
| 144 | 356361.740 | 6340228.161 | |
| 145 | 356377.774 | 6340225.556 | |
| 146 | 356373.420 | 6340204.076 | |
| 147 | 356370.510 | 6340204.431 | |
| 148 | 356294.047 | 6340216.855 | |
| 149 | 356271.293 | 6340220.551 | |
| 150 | 356255.643 | 6340195.055 | |
| 151 | 356235.132 | 6340161.656 | |
| 152 | 356281.620 | 6340098.924 | |
| 153 | 356320.705 | 6340027.191 | |
| 154 | 356341.037 | 6340032.670 | |
| 155 | 356370.510 | 6340204.431 | |
| 156 | 356373.420 | 6340204.076 | |
| 157 | 356363.245 | 6340144.607 | |
| 158 | 356353.070 | 6340085.137 | |
| 159 | 356332.720 | 6339966.200 | |
| 160 | 356323.680 | 6339976.503 | |
| 161 | 356287.552 | 6339941.527 | |
| 162 | 356269.488 | 6339924.042 | |
| 163 | 356251.424 | 6339906.549 | |
| 164 | 356139.306 | 6340022.406 | |
| 165 | 356132.106 | 6339947.433 | |
| 166 | 356089.208 | 6339500.483 | |
| 167 | 356087.789 | 6339499.202 | |
| 168 | | | |
| 169 | 356108.883 | 6339477.550 | |
| 170 | 356137.009 | | |
| 171 | | | |
| 172 | | 6339345.677 | |
| 173 | | 6339305.283 | |
| 174 | 356056.936 | 6339264.888 | |
| 175 | | | |
| 176 | | 6339184.103 | |
| 177 | | 6339157.174 | |
| 178 | | 6339150.239 | |
| 179 | 355789.484 | 6339135.747 | |
| 180 | | 6339125.721 | |
| 181 | 355792.485 | 6339115.772 | |
| 182 | | 6339062.819 | |
| 183 | | 6339009.666 | |
| 184 | | 6338956.515 | |
| 185 | | | |
| 186 | 356022.960 | 6338925.561 | |

Coordinates ¹

| Coordinates ¹ | | |
|--------------------------|------------|-------------|
| Vertex | Easting | Northing |
| 187 | 356014.361 | 6338985.301 |
| 188 | 356006.707 | 6339038.470 |
| 189 | 355999.045 | 6339091.637 |
| 190 | 355991.422 | 6339144.609 |
| 191 | 356208.677 | 6339176.100 |
| 192 | 356188.363 | 6339058.200 |
| 193 | 356179.897 | 6339009.081 |
| 194 | 356193.555 | 6338914.428 |
| 195 | 356214.688 | 6338767.887 |
| 196 | 356237.327 | 6338610.893 |
| 197 | 356323.194 | 6338606.372 |
| 198 | 356541.862 | 6338568.677 |
| 199 | 356471.029 | 6338437.977 |
| 200 | 356461.448 | 6338420.286 |
| 201 | 356360.085 | 6338292.326 |
| 202 | 356368.580 | 6338289.206 |
| 203 | 356379.966 | 6338285.023 |
| 204 | 356455.341 | 6338380.178 |
| 205 | 356456.826 | 6338382.050 |
| 206 | 356478.322 | 6338409.186 |
| 207 | 356491.967 | 6338434.366 |
| 208 | 356583.626 | 6338418.630 |
| 209 | 356568.240 | 6338323.669 |
| 210 | 356566.185 | 6338304.586 |
| 211 | 356564.640 | 6338290.269 |
| 212 | 356564.400 | 6338288.775 |
| 213 | 356574.441 | 6338287.192 |
| 214 | 356581.223 | 6338286.276 |
| 215 | 356584.637 | 6338285.820 |
| 216 | 356588.070 | 6338285.368 |
| 217 | 356591.541 | 6338284.917 |
| 218 | 356595.048 | 6338284.470 |
| 219 | 356598.602 | 6338284.027 |
| 220 | 356602.212 | 6338283.592 |
| 221 | 356605.878 | 6338283.163 |
| 222 | 356609.628 | 6338282.738 |
| 223 | | 6338282.254 |
| 224 | 356618.726 | 6338281.798 |
| 225 | 356623.372 | 6338281.390 |
| 226 | | 6338281.049 |
| 227 | | 6338280.794 |
| 228 | 356637.350 | 6338280.644 |
| 229 | 356641.934 | 6338280.618 |
| 230 | 356646.423 | 6338280.731 |
| 230 | 356650.797 | 6338281.006 |
| 231 | | 6338281.461 |
| 232 | | |
| 233 | | 6338284.079 |
| 234 | 1900.1001 | 0000204.079 |

| | Coordinates ¹ | | |
|--------|--------------------------|-------------|--|
| Vertex | Easting | Northing | |
| 235 | 356672.533 | 6338286.035 | |
| 236 | 356677.615 | 6338288.388 | |
| 237 | 356682.345 | 6338291.113 | |
| 238 | 356686.744 | 6338294.184 | |
| 239 | 356690.821 | 6338297.576 | |
| 240 | 356694.595 | 6338301.264 | |
| 241 | 356698.085 | 6338305.222 | |
| 242 | 356701.291 | 6338309.423 | |
| 243 | 356703.484 | 6338312.657 | |
| 244 | 356705.536 | 6338316.011 | |
| 245 | 356707.446 | 6338319.488 | |
| 246 | 356709.213 | 6338323.095 | |
| 247 | 356710.849 | 6338326.829 | |
| 248 | 356712.342 | 6338330.695 | |
| 249 | 356713.693 | 6338334.697 | |
| 250 | 356714.902 | 6338338.835 | |
| 251 | 356715.979 | 6338343.113 | |
| 252 | 356716.913 | 6338347.534 | |
| 253 | 356717.689 | 6338351.908 | |
| 254 | 356718.361 | 6338356.380 | |
| 255 | 356718.967 | 6338360.915 | |
| 256 | 356720.122 | 6338370.043 | |
| 257 | 356720.737 | 6338374.564 | |
| 258 | 356721.410 | 6338379.011 | |
| 259 | 356722.177 | 6338383.350 | |
| 260 | 356723.068 | 6338387.545 | |
| 261 | 356724.120 | 6338391.561 | |
| 262 | 356725.919 | 6338396.872 | |
| 263 | 356728.079 | 6338401.796 | |
| 264 | 356730.598 | 6338406.370 | |
| 265 | 356733.458 | 6338410.635 | |
| 266 | 356736.648 | 6338414.624 | |
| 267 | 356740.160 | 6338418.374 | |
| 268 | 356743.982 | 6338421.928 | |
| 269 | 356748.097 | 6338425.314 | |
| 270 | 356752.502 | 6338428.577 | |
| 271 | 356757.180 | 6338431.748 | |
| 272 | 356760.131 | 6338433.630 | |
| 273 | 356763.166 | 6338435.465 | |
| 274 | 356766.259 | 6338437.220 | |
| 275 | 356769.409 | 6338438.868 | |
| 276 | 356772.589 | 6338440.379 | |
| 277 | 356775.800 | 6338441.726 | |
| 278 | 356779.004 | 6338442.875 | |
| 279 | 356782.202 | 6338443.800 | |
| 280 | 356785.376 | 6338444.473 | |
| 281 | 356788.507 | 6338444.860 | |
| 282 | 356794.858 | 6338444.699 | |
| 282 | 320/94.858 | 0000444.099 | |

| Coordinates ¹ | | |
|--------------------------|------------|-------------|
| Vertex | Easting | Northing |
| 283 | 356800.975 | 6338443.328 |
| 284 | 356806.873 | 6338440.896 |
| 285 | 356812.552 | 6338437.552 |
| 286 | 356818.018 | 6338433.445 |
| 287 | 356823.287 | 6338428.724 |
| 288 | | 6338423.535 |
| 289 | 356833.265 | 6338418.029 |
| 290 | 356837.978 | 6338412.358 |
| 291 | 356842.534 | 6338406.662 |
| 292 | 356847.081 | 6338400.879 |
| 293 | 356851.486 | 6338395.211 |
| 294 | 356855.750 | 6338389.638 |
| 295 | 356859.911 | 6338384.142 |
| 296 | 356863.967 | 6338378.702 |
| 297 | 356867.958 | 6338373.295 |
| 298 | 356871.883 | 6338367.906 |
| 299 | 356875.771 | 6338362.510 |
| 300 | 356879.641 | 6338357.091 |
| 301 | 356883.502 | 6338351.627 |
| 302 | 356887.583 | 6338345.809 |
| 303 | 356891.674 | 6338339.933 |
| 304 | 356895.794 | 6338334.008 |
| 305 | 356899.923 | 6338328.042 |
| 306 | 356904.063 | 6338322.048 |
| 307 | 356908.230 | 6338316.038 |
| 308 | 356912.417 | 6338310.024 |
| 309 | 356916.612 | 6338304.016 |
| 310 | 356920.836 | 6338298.026 |
| 311 | 356925.068 | 6338292.062 |
| 312 | 356930.100 | 6338285.066 |
| 313 | 356935.158 | 6338278.127 |
| 314 | 356940.254 | 6338271.251 |
| 315 | 356945.404 | 6338264.439 |
| 316 | 356950.591 | 6338257.692 |
| 317 | 356955.851 | 6338251.018 |
| 318 | 356961.166 | 6338244.417 |
| 319 | 356966.555 | 6338237.893 |
| 320 | 356972.017 | 6338231.446 |
| 321 | 356977.572 | 6338225.086 |
| 322 | 356982.345 | 6338219.748 |
| 323 | 356987.165 | 6338214.451 |
| 324 | 356992.004 | 6338209.164 |
| 325 | 356996.824 | 6338203.864 |
| 326 | | 6338198.526 |
| 327 | | |
| 328 | | 6338187.638 |
| 329 | | 6338182.036 |
| 330 | 357019.894 | 6338176.299 |
| | | |

| | Coordinates ¹ | | |
|--------|--------------------------|-------------|--|
| Vertex | Easting | Northing | |
| 331 | 357024.125 | 6338170.398 | |
| 332 | 357027.179 | 6338165.866 | |
| 333 | 357030.150 | 6338161.252 | |
| 334 | 357033.056 | 6338156.577 | |
| 335 | 357035.935 | 6338151.865 | |
| 336 | 357038.796 | 6338147.141 | |
| 337 | 357041.665 | 6338142.425 | |
| 338 | 357044.562 | 6338137.737 | |
| 339 | 357047.515 | 6338133.107 | |
| 340 | 357050.550 | 6338128.551 | |
| 341 | 357053.677 | 6338124.094 | |
| 342 | 357057.305 | 6338119.270 | |
| 343 | 357061.061 | 6338114.587 | |
| 344 | 357064.955 | 6338110.037 | |
| 345 | 357068.959 | 6338105.610 | |
| 346 | 357073.064 | 6338101.291 | |
| 347 | 357075.622 | 6338098.734 | |
| 348 | 357077.271 | 6338097.075 | |
| 349 | 357081.560 | 6338092.950 | |
| 350 | 357085.914 | 6338088.907 | |
| 351 | 357090.332 | 6338084.936 | |
| 352 | 357094.795 | 6338081.026 | |
| 353 | 357099.097 | 6338077.329 | |
| 354 | 357103.417 | 6338073.648 | |
| 355 | 357107.709 | 6338069.955 | |
| 356 | 357111.974 | 6338066.217 | |
| 357 | 357116.175 | 6338062.406 | |
| 358 | 357120.293 | 6338058.492 | |
| 359 | 357124.301 | 6338054.441 | |
| 360 | 357127.536 | 6338050.932 | |
| 361 | 357128.181 | 6338050.226 | |
| 362 | 357131.905 | 6338045.816 | |
| 363 | 357135.455 | 6338041.178 | |
| 364 | 357139.090 | 6338035.840 | |
| 365 | 357142.477 | 6338030.208 | |
| 366 | 357145.597 | 6338024.293 | |
| 367 | 357148.432 | 6338018.099 | |
| 368 | 357150.963 | 6338011.644 | |
| 369 | 357153.180 | 6338004.932 | |
| 370 | 357155.074 | 6337997.976 | |
| 371 | 357156.626 | 6337990.783 | |
| 372 | 357157.817 | 6337983.363 | |
| 373 | 357158.629 | 6337975.725 | |
| 374 | 357159.053 | 6337968.431 | |
| 375 | 357159.180 | 6337960.979 | |
| 376 | 357159.076 | 6337953.394 | |
| 377 | 357158.768 | 6337945.699 | |
| 378 | 357158.322 | 6337937.915 | |

| Coord | linates | 1 |
|-------|---------|---|
|-------|---------|---|

| Coordinates ¹ | | | |
|--------------------------|------------|-------------|---|
| Vertex | Easting | Northing | Ň |
| 379 | 357157.773 | 6337930.068 | |
| 380 | 357157.170 | 6337922.175 | |
| 381 | 357156.557 | 6337914.266 | |
| 382 | 357156.000 | 6337906.360 | |
| 383 | 357155.527 | 6337898.481 | |
| 384 | 357155.067 | 6337887.123 | |
| 385 | 357154.839 | 6337875.839 | |
| 386 | 357154.770 | 6337864.587 | |
| 387 | 357154.794 | 6337853.339 | |
| 388 | 357154.847 | 6337842.054 | |
| 389 | 357154.872 | 6337830.707 | |
| 390 | 357154.797 | 6337819.254 | |
| 391 | 357154.555 | 6337807.668 | |
| 392 | 357154.092 | 6337795.911 | |
| 393 | 357153.323 | 6337783.952 | |
| 394 | 357152.513 | 6337774.826 | |
| 395 | 357151.460 | 6337765.757 | |
| 396 | 357150.132 | 6337756.943 | |
| 397 | 357148.481 | 6337748.581 | |
| 398 | 357146.483 | 6337740.862 | |
| 399 | 357144.091 | 6337733.981 | |
| 400 | 357141.282 | 6337728.138 | |
| 401 | 357137.998 | 6337723.525 | |
| 402 | 357134.217 | 6337720.335 | |
| 403 | 357133.604 | 6337720.112 | |
| 404 | 357129.899 | 6337718.766 | |
| 405 | 357126.408 | 6337718.717 | |
| 406 | 357122.626 | 6337719.477 | |
| 407 | 357118.563 | 6337720.896 | |
| 408 | 357114.240 | 6337722.826 | |
| 409 | 357109.670 | 6337725.115 | |
| 410 | 357104.863 | 6337727.617 | |
| 411 | 357099.831 | 6337730.180 | |
| 412 | 357094.605 | 6337732.655 | |
| 413 | 357089.167 | 6337734.891 | |
| 414 | 357083.566 | 6337736.741 | |
| 415 | 357079.097 | 6337737.828 | |
| 416 | 357074.539 | 6337738.630 | |
| 417 | 357072.875 | 6337738.825 | |
| 418 | 357069.901 | 6337739.173 | |
| 419 | 357065.201 | 6337739.497 | |
| 420 | 357060.438 | 6337739.628 | |
| 421 | 357055.621 | 6337739.605 | |
| 422 | 357050.769 | 6337739.456 | |
| 423 | 357045.899 | 6337739.221 | |
| 424 | 357041.002 | 6337738.930 | |
| 425 | 357036.096 | 6337738.613 | |
| 426 | 357016.705 | 6337737.402 | |
| | | | |

| | Coordinates 1 | | |
|--------|---------------|-------------|--|
| Vertex | Easting | Northing | |
| 427 | 357011.165 | 6337737.033 | |
| 428 | 357007.108 | 6337736.763 | |
| 429 | 356997.625 | 6337736.054 | |
| 430 | 356988.282 | 6337735.235 | |
| 431 | 356979.120 | 6337734.268 | |
| 432 | 356970.175 | 6337733.110 | |
| 433 | 356961.457 | 6337731.733 | |
| 434 | 356953.023 | 6337730.087 | |
| 435 | 356944.901 | 6337728.143 | |
| 436 | 356934.659 | 6337725.073 | |
| 437 | 356924.937 | 6337721.490 | |
| 438 | 356915.651 | 6337717.473 | |
| 439 | 356906.706 | 6337713.101 | |
| 440 | 356898.036 | 6337708.456 | |
| 441 | 356889.546 | 6337703.618 | |
| 442 | 356881.160 | 6337698.667 | |
| 443 | 356872.794 | 6337693.677 | |
| 444 | 356864.371 | 6337688.735 | |
| 445 | 356855.806 | 6337683.920 | |
| 446 | 356850.137 | 6337680.884 | |
| 447 | 356844.421 | 6337677.886 | |
| 448 | 356838.723 | 6337674.886 | |
| 449 | 356833.073 | 6337671.840 | |
| 450 | 356827.537 | 6337668.706 | |
| 451 | 356822.160 | 6337665.443 | |
| 452 | 356816.992 | 6337662.008 | |
| 453 | 356812.079 | 6337658.359 | |
| 454 | 356807.478 | 6337654.454 | |
| 455 | 356803.236 | 6337650.251 | |
| 456 | 356800.775 | 6337647.447 | |
| 457 | 356798.456 | 6337644.524 | |
| 458 | 356796.241 | 6337641.491 | |
| 459 | 356794.121 | 6337638.355 | |
| 460 | 356792.068 | 6337635.136 | |
| 461 | 356790.043 | 6337631.840 | |
| 462 | 356788.039 | 6337628.480 | |
| 463 | 356786.016 | 6337625.071 | |
| 464 | 356783.966 | 6337621.620 | |
| 465 | 356781.851 | 6337618.141 | |
| 466 | 356774.830 | 6337607.347 | |
| 467 | 356767.061 | 6337596.674 | |
| | 356758.604 | | |
| | | 6337576.753 | |
| 470 | | | |
| 471 | | | |
| | 356719.021 | | |
| | | 6337550.261 | |
| | | 6337548.003 | |
| | | | |

| Coordinates ¹ | | |
|--------------------------|------------|-------------|
| Vertex | Easting | Northing |
| 475 | 356692.595 | 6337548.015 |
| 476 | 356684.930 | 6337548.037 |
| 477 | 356679.710 | 6337548.840 |
| 478 | 356674.491 | 6337550.110 |
| 479 | 356669.313 | 6337551.811 |
| 480 | 356664.204 | 6337553.916 |
| 481 | 356659.201 | 6337556.390 |
| 482 | 356654.362 | 6337559.203 |
| 483 | 356649.714 | 6337562.321 |
| 484 | 356645.305 | 6337565.713 |
| 485 | 356641.162 | 6337569.347 |
| 486 | 356637.335 | 6337573.188 |
| 487 | 356635.389 | 6337575.366 |
| 488 | 356633.536 | 6337577.594 |
| 489 | 356631.767 | 6337579.864 |
| 490 | 356630.071 | 6337582.178 |
| 491 | 356628.440 | 6337584.529 |
| 492 | 356626.865 | 6337586.913 |
| 493 | 356625.336 | 6337589.326 |
| 494 | 356623.835 | 6337591.764 |
| 495 | 356622.361 | 6337594.223 |
| 496 | 356620.896 | 6337596.700 |
| 497 | 356617.938 | 6337601.759 |
| 498 | 356614.960 | 6337606.844 |
| 499 | 356611.936 | 6337611.922 |
| 500 | 356608.846 | 6337616.963 |
| 501 | 356605.665 | 6337621.930 |
| 502 | 356602.364 | 6337626.796 |
| 503 | 356598.906 | 6337631.532 |
| 504 | 356595.272 | 6337636.101 |
| 505 | 356591.446 | 6337640.473 |
| 506 | 356587.399 | 6337644.616 |
| 507 | 356580.203 | 6337650.904 |
| 508 | 356572.436 | 6337656.603 |
| 509 | 356564.238 | 6337661.828 |
| 510 | 356555.709 | 6337666.699 |
| 511 | 356546.978 | 6337671.329 |
| 512 | 356538.164 | 6337675.834 |
| 513 | 356529.379 | 6337680.334 |
| 514 | 356520.751 | 6337684.942 |
| 515 | 356512.400 | 6337689.775 |
| 516 | 356504.435 | 6337694.949 |
| 517 | 356501.709 | 6337696.895 |
| 518 | 356499.047 | 6337698.892 |
| 519 | | 6337700.934 |
| 520 | | 6337703.015 |
| 521 | | 6337705.128 |
| 522 | | 6337707.267 |
| | | |

| | Coordinates 1 | | |
|--------|---------------|-------------|--|
| Vertex | Easting | Northing | |
| 523 | 356483.439 | 6337711.596 | |
| 524 | 356480.793 | 6337713.774 | |
| 525 | 356478.100 | 6337715.950 | |
| 526 | 356467.177 | 6337724.255 | |
| 527 | 356455.447 | 6337732.267 | |
| 528 | 356442.995 | 6337739.787 | |
| 529 | 356429.890 | 6337746.619 | |
| 530 | 356416.211 | 6337752.561 | |
| 531 | 356402.043 | 6337757.421 | |
| 532 | 356387.445 | 6337761.002 | |
| 533 | 356372.506 | 6337763.101 | |
| 534 | 356357.311 | 6337763.528 | |
| 535 | 356341.909 | 6337762.078 | |
| 536 | 356335.532 | 6337760.908 | |
| 537 | 356329.130 | 6337759.483 | |
| 538 | 356322.712 | 6337757.892 | |
| 539 | 356316.266 | 6337756.235 | |
| 540 | 356309.811 | 6337754.604 | |
| 541 | 356303.336 | 6337753.093 | |
| 542 | 356296.839 | 6337751.797 | |
| 543 | 356290.319 | 6337750.811 | |
| 544 | 356283.783 | 6337750.228 | |
| 545 | 356277.221 | 6337750.143 | |
| 546 | 356275.250 | 6337750.227 | |
| 547 | 356271.288 | 6337750.530 | |
| 548 | 356269.296 | 6337750.733 | |
| 549 | 356267.304 | 6337750.963 | |
| 550 | 356265.303 | 6337751.211 | |
| 551 | 356257.194 | 6337752.253 | |
| 552 | 356247.564 | 6337753.215 | |
| 553 | 356237.734 | 6337753.792 | |
| 554 | 356227.799 | 6337753.936 | |
| 555 | 356217.862 | | |
| | 356208.007 | 6337752.754 | |
| 557 | 356198.346 | 6337751.337 | |
| 558 | 356188.975 | 6337749.313 | |
| 559 | 356179.987 | | |
| 560 | 356171.485 | 6337743.256 | |
| 561 | 356163.564 | 6337739.138 | |
| 562 | 356156.833 | 6337734.687 | |
| 563 | 356150.547 | 6337729.805 | |
| | 356144.591 | | |
| 565 | | 6337719.703 | |
| 566 | | 6337714.960 | |
| 567 | | | |
| 568 | 356121.471 | 6337707.280 | |
| 569 | 356115.225 | 6337704.819 | |
| 570 | 356108.549 | 6337703.598 | |

| Coordinates ¹ | | |
|--------------------------|--------------|-------------|
| Vertex | Easting | Northing |
| 571 | 356101.310 | 6337703.855 |
| 572 | 356097.136 | 6337704.571 |
| 573 | 356080.630 | 6337705.924 |
| 574 | 356064.585 | 6337704.465 |
| 575 | 356048.835 | 6337700.710 |
| 576 | 356033.242 | 6337695.179 |
| 577 | 356017.658 | 6337688.383 |
| 578 | 356001.936 | 6337680.843 |
| 579 | 355985.928 | 6337673.075 |
| 580 | 355969.486 | 6337665.593 |
| 581 | 355952.454 | 6337658.915 |
| 582 | 355934.693 | 6337653.559 |
| 583 | 355927.221 | 6337651.857 |
| 584 | 355919.663 | 6337650.388 |
| 585 | 355912.064 | 6337649.080 |
| 586 | 355897.023 | 6337646.657 |
| 587 | 355889.685 | 6337645.398 |
| 588 | 355882.545 | 6337644.013 |
| 589 | 355875.651 | 6337642.426 |
| 590 | 355869.078 | 6337640.572 |
| 591 | 355862.874 | 6337638.371 |
| 592 | 355860.954 | 6337637.572 |
| 593 | 355859.062 | 6337636.736 |
| 594 | 355857.189 | 6337635.870 |
| 595 | 355855.325 | 6337634.981 |
| 596 | 355853.472 | 6337634.076 |
| 597 | 355849.718 | 6337632.240 |
| 598 | 355845.842 | 6337630.422 |
| 599 | 355843.820 | 6337629.535 |
| 600 | 355835.893 | 6337626.488 |
| 601 | 355827.222 | 6337623.817 |
| 602 | 355817.948 | 6337621.564 |
| 603 | 355808.209 | 6337619.778 |
| 604 | 355798.136 | 6337618.505 |
| 605 | 355787.878 | 6337617.789 |
| 606 | 355777.564 | 6337617.681 |
| 607 | 355767.334 | 6337618.221 |
| 608 | 355757.317 | 6337619.460 |
| 609 | 355747.644 | 6337621.442 |
| 610 | 355739.337 | 6337623.894 |
| 611 | 355731.507 | 6337626.918 |
| 612 | 355724.248 | 6337630.446 |
| 613 | 355717.664 | 6337634.403 |
| 614 | 355711.822 | 6337638.722 |
| 615 | | 6337643.330 |
| 616 | | 6337648.155 |
| 617 | | 6337653.127 |
| 618 | 355697.718 | 6337658.175 |
| 010 | 20000, 17 10 | |

| | Coordinates 1 | | |
|--------|---------------|-------------|--|
| Vertex | Easting | Northing | |
| 619 | 355696.944 | 6337663.227 | |
| 620 | 355699.137 | 6337673.375 | |
| 621 | 355705.629 | 6337683.300 | |
| 622 | 355715.381 | 6337693.055 | |
| 623 | 355727.365 | 6337702.700 | |
| 624 | 355740.555 | 6337712.285 | |
| 625 | 355753.923 | 6337721.867 | |
| 626 | 355766.421 | 6337731.497 | |
| 627 | 355777.023 | 6337741.236 | |
| 628 | 355784.700 | 6337751.138 | |
| 629 | 355788.416 | 6337761.252 | |
| 630 | 355788.237 | 6337768.359 | |
| 631 | 355785.947 | 6337775.517 | |
| 632 | 355781.790 | 6337782.652 | |
| 633 | 355776.039 | 6337789.685 | |
| 634 | 355768.936 | 6337796.539 | |
| 635 | 355760.735 | 6337803.136 | |
| 636 | 355751.709 | 6337809.401 | |
| 637 | 355742.091 | 6337815.254 | |
| 638 | 355732.154 | 6337820.617 | |
| 639 | 355722.140 | 6337825.412 | |
| 640 | 355715.855 | 6337828.139 | |
| 641 | 355709.656 | 6337830.659 | |
| 642 | 355703.553 | 6337833.029 | |
| 643 | 355691.687 | 6337837.523 | |
| 644 | 355685.940 | 6337839.756 | |
| 645 | 355680.333 | 6337842.054 | |
| 646 | 355674.883 | 6337844.463 | |
| 647 | 355669.598 | 6337847.045 | |
| 648 | 355664.478 | 6337849.849 | |
| 649 | 355659.739 | 6337852.784 | |
| 650 | 355655.128 | 6337855.924 | |
| 651 | 355650.616 | 6337859.228 | |
| 652 | 355646.160 | 6337862.645 | |
| 653 | 355637.262 | 6337869.640 | |
| 654 | 355632.748 | 6337873.125 | |
| 655 | | 6337876.539 | |
| 656 | 355623.398 | 6337879.835 | |
| 657 | 355618.497 | 6337882.966 | |
| 658 | 355612.613 | 6337886.333 | |
| 659 | 355606.563 | 6337889.523 | |
| 660 | 355600.458 | 6337892.632 | |
| 661 | 355594.400 | 6337895.761 | |
| 662 | 355588.489 | 6337899.009 | |
| 663 | 355582.846 | 6337902.476 | |
| 664 | 355577.571 | 6337906.259 | |
| 665 | 355572.767 | 6337910.462 | |
| 666 | 355568.552 | 6337915.180 | |

Coordinates ¹

| Coordinates ¹ | | |
|--------------------------|------------|-------------|
| Vertex | Easting | Northing |
| 667 | 355565.019 | 6337920.516 |
| 668 | 355563.288 | 6337923.986 |
| 669 | 355561.804 | 6337927.693 |
| 670 | 355560.514 | 6337931.616 |
| 671 | 355559.389 | 6337935.740 |
| 672 | 355558.383 | 6337940.049 |
| 673 | 355557.467 | 6337944.526 |
| 674 | 355556.596 | 6337949.155 |
| 675 | 355555.732 | 6337953.920 |
| 676 | 355554.890 | 6337958.509 |
| 677 | 355553.859 | 6337963.796 |
| 678 | 355553.155 | 6337967.246 |
| 679 | 355552.422 | 6337970.719 |
| 680 | 355551.022 | 6337977.644 |
| 681 | 355550.421 | 6337981.055 |
| 682 | 355549.933 | 6337984.406 |
| 683 | 355549.586 | 6337987.679 |
| 684 | 355549.409 | 6337990.848 |
| 685 | 355549.429 | 6337993.894 |
| 686 | 355549.694 | 6337996.799 |
| 687 | 355551.104 | 6338002.511 |
| 688 | 355553.502 | 6338007.619 |
| 689 | 355556.664 | 6338012.275 |
| 690 | 355560.362 | 6338016.622 |
| 691 | 355564.352 | 6338020.806 |
| 692 | 355568.398 | 6338024.974 |
| 693 | 355572.275 | 6338029.268 |
| 694 | 355575.736 | 6338033.840 |
| 695 | 355578.566 | 6338038.832 |
| 696 | 355580.519 | 6338044.388 |
| 697 | 355581.496 | 6338051.637 |
| 698 | 355581.284 | 6338059.650 |
| 699 | 355580.186 | 6338068.244 |
| 700 | 355578.504 | 6338077.232 |
| 701 | 355576.539 | 6338086.431 |
| 702 | 355574.573 | 6338095.654 |
| 703 | 355572.917 | 6338104.716 |
| 704 | 355571.855 | 6338113.434 |
| 705 | 355571.706 | 6338121.620 |
| 706 | 355572.745 | 6338129.091 |
| 707 | 355573.777 | 6338132.493 |
| 708 | 355575.121 | 6338135.698 |
| 709 | 355576.710 | 6338138.734 |
| 710 | 355578.469 | 6338141.630 |
| 711 | 355580.351 | 6338144.413 |
| 712 | 355586.041 | 6338152.348 |
| 713 | 355587.740 | 6338154.945 |
| 714 | 355589.232 | 6338157.565 |
| | | |

| | Coordinates 1 | | |
|--------|---------------|-------------|--|
| Vertex | Easting | Northing | |
| 715 | 355592.667 | 6338168.360 | |
| 716 | 355592.554 | 6338179.843 | |
| 717 | 355589.500 | 6338191.935 | |
| 718 | 355584.123 | 6338204.550 | |
| 719 | 355577.050 | 6338217.604 | |
| 720 | 355568.898 | 6338231.023 | |
| 721 | 355560.284 | 6338244.718 | |
| 722 | 355551.826 | 6338258.610 | |
| 723 | 355544.151 | 6338272.612 | |
| 724 | 355537.866 | 6338286.646 | |
| 725 | 355537.147 | 6338288.552 | |
| 726 | 355535.849 | 6338292.379 | |
| 727 | 355535.270 | 6338294.306 | |
| 728 | 355534.269 | 6338298.202 | |
| 729 | 355533.857 | 6338300.180 | |
| 730 | 355533.228 | 6338304.212 | |
| 731 | 355533.021 | 6338306.275 | |
| 732 | 355532.803 | 6338312.183 | |
| 733 | 355533.039 | 6338318.311 | |
| 734 | 355533.619 | 6338324.597 | |
| 735 | 355534.420 | 6338330.994 | |
| 736 | 355535.324 | 6338337.441 | |
| 737 | 355536.210 | 6338343.884 | |
| 738 | 355536.965 | 6338350.272 | |
| 739 | 355537.470 | 6338356.543 | |
| 740 | 355537.604 | 6338362.649 | |
| 741 | 355537.246 | 6338368.528 | |
| 742 | 355536.625 | 6338372.662 | |
| 743 | 355535.735 | 6338376.671 | |
| 744 | 355534.632 | 6338380.571 | |
| 745 | 355533.371 | 6338384.392 | |
| 746 | 355532.009 | 6338388.153 | |
| 747 | 355529.210 | 6338395.579 | |
| - | 355527.886 | 6338399.294 | |
| 749 | | 6338403.035 | |
| 750 | 355525.665 | 6338406.828 | |
| - | 355524.160 | 6338415.775 | |
| 752 | 355523.696 | 6338425.080 | |
| 753 | | 6338434.725 | |
| 754 | 355525.116 | 6338444.681 | |
| 755 | | 6338454.928 | |
| 756 | | | |
| 757 | | 6338476.196 | |
| 758 | 355531.939 | 6338487.170 | |
| 759 | | 6338498.338 | |
| 760 | | | |
| | 355534.322 | | |
| 762 | 355534.384 | 6338513.852 | |

| Coordinates ¹ | | |
|--------------------------|-------------------------|-------------|
| Vertex | Easting | Northing |
| 763 | 355534.428 | 6338515.936 |
| 764 | 355534.426 | 6338518.006 |
| 765 | 355534.309 | 6338522.093 |
| 766 | 355534.186 | 6338524.102 |
| 767 | 355534.017 | 6338526.075 |
| 768 | 355533.792 | 6338528.011 |
| 769 | 355533.522 | 6338529.908 |
| 770 | 355563.810 | 6338534.264 |
| 771 | 355669.898 | 6338549.521 |
| 772 | 355653.124 | 6338669.041 |
| 773 | 355636.350 | 6338788.534 |
| 774 | 355468.237 | 6338764.361 |
| 775 | 355473.844 | 6338770.985 |
| 776 | 355482.422 | 6338781.283 |
| 777 | 355487.326 | 6338787.426 |
| 778 | 355442.354 | 6338780.960 |
| 779 | 355450.493 | 6338790.585 |
| 780 | 355458.805 | 6338800.550 |
| 781 | 355466.927 | 6338810.724 |
| 782 | 355474.507 | 6338820.973 |
| 783 | 355481.200 | 6338831.173 |
| 784 | 355486.645 | 6338841.192 |
| 785 | 355490.489 | 6338850.898 |
| 786 | 355492.387 | 6338860.167 |
| 787 | 355491.979 | 6338868.864 |
| 788 | 355488.920 | 6338876.861 |
| 789 | 355487.049 | 6338879.632 |
| 790 | 355484.843 | 6338882.331 |
| 791 | 355482.395 | 6338884.999 |
| 792 | 355479.769 | 6338887.673 |
| 793 | 355477.049 | 6338890.395 |
| 794 | 355474.328 | 6338893.210 |
| 795 | 355471.680 | 6338896.155 |
| 796 | 355469.178 | 6338899.272 |
| 797 | 355466.916 | 6338902.601 |
| 798 | 355464.968 | 6338906.184 |
| 799 | 355465.601 | 6338907.562 |
| 800 | 355466.235 | 6338908.939 |
| 801 | 355466.868 | 6338910.318 |
| 802 | 355467.501 | 6338911.699 |
| 803 | 355468.125 | 6338913.080 |
| 804 | 355468.993 | 6338914.966 |
| 805 | 355469.862 | 6338916.848 |
| 806 | 355470.730 | 6338918.736 |
| 807 | 355471.561 | 6338920.635 |
| 808 | 355472.355 | 6338922.552 |
| 809 | | 6338925.451 |
| 810 | 355474.425 | 6338928.388 |
| 010 | 555777. 7 25 | 5555720.500 |

| | Coordinates 1 | | |
|--------|---------------|-------------|--|
| Vertex | Easting | Northing | |
| 811 | 355475.353 | 6338931.351 | |
| 812 | 355476.224 | 6338934.330 | |
| 813 | 355477.067 | 6338937.316 | |
| 814 | 355477.844 | 6338940.303 | |
| 815 | 355478.556 | 6338943.308 | |
| 816 | 355479.231 | 6338946.323 | |
| 817 | 355479.905 | 6338949.341 | |
| 818 | 355480.598 | 6338952.351 | |
| 819 | 355481.302 | 6338955.300 | |
| 820 | 355482.005 | 6338958.249 | |
| 821 | 355482.718 | 6338961.196 | |
| 822 | 355483.421 | 6338964.144 | |
| 823 | 355484.134 | 6338967.093 | |
| 824 | 355484.707 | 6338969.389 | |
| 825 | 355485.299 | 6338971.679 | |
| 826 | 355485.891 | 6338973.972 | |
| 827 | 355486.417 | 6338976.274 | |
| 828 | 355486.850 | 6338978.591 | |
| 829 | 355487.241 | 6338981.788 | |
| 830 | 355487.319 | 6338982.860 | |
| 831 | 355487.474 | 6338985.016 | |
| 832 | 355487.594 | 6338988.257 | |
| 833 | 355487.594 | 6338988.259 | |
| 834 | 355487.649 | 6338991.508 | |
| 835 | 355487.713 | 6338994.749 | |
| 836 | 355487.754 | 6338997.039 | |
| 837 | 355487.748 | 6338999.327 | |
| 838 | 355487.757 | 6338999.331 | |
| 839 | 355487.742 | 6339001.617 | |
| 840 | 355487.746 | 6339003.907 | |
| 841 | 355487.787 | 6339006.197 | |
| 842 | 355487.891 | 6339008.018 | |
| 843 | 355487.891 | 6339008.021 | |
| 844 | 355488.041 | 6339009.848 | |
| 845 | 355488.041 | 6339009.859 | |
| 846 | 355488.182 | 6339011.674 | |
| 847 | 355488.258 | 6339013.493 | |
| 848 | 355488.203 | 6339015.303 | |
| 849 | 355487.859 | 6339017.782 | |
| 850 | 355487.290 | 6339020.246 | |
| 851 | 355486.572 | 6339022.698 | |
| 852 | 355485.789 | 6339025.136 | |
| 853 | 355485.789 | 6339025.141 | |
| 854 | 355485.035 | 6339027.569 | |
| 855 | | 6339030.155 | |
| 856 | 355483.371 | 6339032.726 | |
| 857 | 355482.484 | | |
| 858 | 355481.578 | 6339037.843 | |

| Coordinates ¹ | | |
|--------------------------|------------|-------------|
| Vertex | Easting | Northing |
| 859 | 355480.681 | 6339040.400 |
| 860 | 355479.424 | 6339043.974 |
| 861 | 355478.157 | 6339047.543 |
| 862 | 355476.872 | 6339051.107 |
| 863 | 355475.578 | 6339054.666 |
| 864 | 355474.265 | 6339058.219 |
| 865 | 355430.823 | 6339049.207 |
| 866 | 355431.334 | 6339035.497 |
| 867 | 355431.844 | 6339021.789 |
| 868 | 355432.373 | 6339008.084 |
| 869 | 355432.921 | 6338994.388 |
| 870 | 355433.487 | 6338980.698 |
| 871 | 355434.090 | 6338967.018 |
| 872 | 355434.731 | 6338953.351 |
| 873 | 355435.418 | 6338939.697 |
| 874 | 355436.151 | 6338926.059 |
| 875 | 355436.950 | 6338912.439 |
| 876 | 355406.717 | 6338958.670 |
| 877 | 355406.358 | 6338907.672 |
| 878 | 355413.213 | 6338797.484 |
| 879 | 355384.111 | 6338766.488 |
| 880 | 355088.710 | 6338812.032 |
| 881 | 355080.330 | 6338822.454 |
| 882 | 355076.126 | 6338827.686 |
| 883 | 355071.304 | 6338833.685 |
| 884 | 355077.380 | 6338839.504 |
| 885 | 355086.255 | 6338847.995 |
| 886 | 355120.242 | 6338873.751 |
| 887 | 355158.717 | 6338902.900 |
| 888 | 355095.724 | 6338985.464 |
| 889 | 355100.718 | 6339019.034 |
| 890 | 355019.597 | 6339031.162 |
| 891 | 354999.703 | 6339034.136 |
| 892 | 354949.398 | 6339055.461 |
| 893 | 354914.031 | 6339100.776 |
| 894 | 354903.507 | 6339161.362 |
| 895 | 354918.454 | 6339213.790 |
| 896 | 354957.362 | 6339261.672 |
| 897 | 355021.020 | 6339258.656 |
| 898 | 355032.172 | 6339252.737 |
| 899 | 355051.022 | 6339242.743 |
| 900 | 355086.915 | 6339223.704 |
| 901 | 355127.205 | 6339197.814 |
| 902 | 355168.759 | 6339160.845 |
| 903 | 355267.779 | 6339044.490 |
| 904 | 355310.268 | 6339070.545 |
| 905 | 355335.245 | 6339079.353 |
| 906 | 355365.957 | 6339088.034 |
| | | |

| | Coordinates ¹ | | |
|--------|--------------------------|-------------|--|
| Vertex | Easting | Northing | |
| 907 | 355379.990 | 6339067.128 | |
| 908 | 355381.770 | 6339068.045 | |
| 909 | 355382.214 | 6339068.272 | |
| 910 | 355382.659 | 6339068.495 | |
| 911 | 355383.104 | 6339068.719 | |
| 912 | 355384.003 | 6339069.166 | |
| 913 | 355384.457 | 6339069.386 | |
| 914 | 355384.902 | 6339069.610 | |
| 915 | 355385.357 | 6339069.825 | |
| 916 | 355385.802 | 6339070.044 | |
| 917 | 355386.256 | 6339070.260 | |
| 918 | 355387.610 | 6339070.903 | |
| 919 | 355388.973 | 6339071.534 | |
| 920 | 355389.882 | 6339071.950 | |
| 921 | 355390.336 | 6339072.154 | |
| 922 | 355390.791 | 6339072.363 | |
| 923 | 355391.254 | 6339072.566 | |
| 924 | 355391.709 | 6339072.765 | |
| 925 | 355392.627 | 6339073.171 | |
| 926 | 355393.537 | 6339073.568 | |
| 927 | 355394.928 | 6339074.153 | |
| 928 | 355395.847 | 6339074.537 | |
| 929 | 355396.775 | 6339074.921 | |
| 930 | 355397.230 | 6339075.109 | |
| 931 | 355398.167 | 6339075.484 | |
| 932 | 355398.631 | 6339075.668 | |
| 933 | 355399.096 | 6339075.848 | |
| 934 | 355399.560 | 6339076.033 | |
| 935 | 355400.952 | 6339076.576 | |
| 936 | 355401.426 | 6339076.753 | |
| 937 | 355401.890 | 6339076.929 | |
| 938 | 355402.828 | 6339077.279 | |
| 939 | 355403.766 | 6339077.625 | |
| 940 | 355404.240 | 6339077.795 | |
| 941 | 355405.178 | 6339078.133 | |
| 942 | 355406.125 | 6339078.467 | |
| 943 | 355406.599 | 6339078.632 | |
| 944 | 355407.546 | 6339078.959 | |
| 945 | 355408.011 | 6339079.120 | |
| 946 | 355408.494 | 6339079.281 | |
| 947 | 355408.968 | 6339079.439 | |
| 948 | 355409.915 | 6339079.754 | |
| 949 | 355410.863 | 6339080.065 | |
| 950 | 355411.337 | 6339080.219 | |
| 951 | 355413.252 | 6339080.818 | |
| 952 | 355414.683 | 6339081.256 | |
| 953 | 355415.166 | 6339081.397 | |
| 954 | 355416.124 | 6339081.682 | |
| | | | |

Coordinates ¹

| Coordinates ¹ | | | |
|--------------------------|------------|-------------|---|
| Vertex | Easting | Northing | V |
| 955 | 355421.386 | | |
| 956 | 355463.912 | 6339091.639 | |
| 957 | 355463.370 | 6339093.635 | |
| 958 | 355462.827 | 6339095.632 | |
| 959 | 355462.244 | 6339097.787 | |
| 960 | 355461.661 | 6339099.942 | |
| 961 | 355461.060 | 6339102.093 | |
| 962 | 355460.468 | 6339104.244 | |
| 963 | 355459.857 | 6339106.392 | |
| 964 | 355459.434 | 6339107.268 | |
| 965 | 355458.991 | 6339108.138 | |
| 966 | 355458.540 | 6339109.000 | |
| 967 | 355458.070 | 6339109.852 | |
| 968 | 355457.581 | 6339110.696 | |
| 969 | 355455.460 | 6339113.957 | |
| 970 | 355453.052 | 6339117.083 | |
| 971 | 355450.412 | 6339120.055 | |
| 972 | 355447.607 | 6339122.857 | |
| 973 | 355444.684 | 6339125.464 | |
| 974 | 355441.812 | 6339127.699 | |
| 975 | 355438.766 | 6339129.748 | |
| 976 | 355435.610 | 6339131.656 | |
| 977 | 355432.400 | 6339133.467 | |
| 978 | 355429.171 | 6339135.227 | |
| 979 | 355426.592 | 6339136.630 | |
| 980 | 355423.995 | 6339138.010 | |
| 981 | 355421.370 | 6339139.323 | |
| 982 | 355418.701 | 6339140.528 | |
| 983 | 355415.978 | 6339141.584 | |
| 984 | 355413.763 | 6339142.321 | |
| 985 | 355411.503 | 6339142.980 | |
| 986 | 355409.226 | 6339143.562 | |
| 987 | 355406.931 | 6339144.063 | |
| 988 | 355404.628 | 6339144.480 | |
| 989 | 355402.632 | 6339144.938 | |
| 990 | 355399.253 | 6339145.533 | |
| 991 | 355395.782 | 6339145.990 | |
| 992 | 355392.201 | 6339146.316 | |
| 993 | 355388.547 | 6339146.528 | |
| 994 | 355384.811 | 6339146.641 | |
| 995 | 355381.001 | 6339146.662 | |
| 996 | 355377.127 | 6339146.607 | |
| 997 | 355373.189 | 6339146.497 | |
| 998 | 355369.195 | 6339146.336 | |
| 999 | 355365.127 | 6339146.141 | |
| 1000 | | 6339145.950 | |
| 1001 | 355356.999 | 6339145.798 | |
| 1002 | 355353.014 | 6339145.725 | |
| | | | |

| | Coordinates ¹ | | |
|--------|--------------------------|-------------|--|
| Vertex | Easting | Northing | |
| 1003 | 355349.138 | 6339145.765 | |
| 1004 | 355345.391 | 6339145.956 | |
| 1005 | 355341.838 | 6339146.337 | |
| 1006 | 355338.486 | 6339146.942 | |
| 1007 | 355335.392 | 6339147.813 | |
| 1008 | 355332.592 | 6339148.982 | |
| 1009 | 355330.775 | 6339150.025 | |
| 1010 | 355329.086 | 6339151.205 | |
| 1011 | 355327.499 | 6339152.491 | |
| 1012 | 355325.975 | 6339153.840 | |
| 1013 | 355324.489 | 6339155.222 | |
| 1014 | 355322.994 | 6339156.597 | |
| 1015 | 355321.452 | 6339157.930 | |
| 1016 | 355319.846 | 6339159.181 | |
| 1017 | 355318.121 | 6339160.321 | |
| 1018 | 355316.257 | 6339161.308 | |
| 1019 | 355314.585 | 6339161.987 | |
| 1020 | 355312.812 | 6339162.559 | |
| 1021 | 355310.956 | 6339163.036 | |
| 1022 | 355309.018 | 6339163.431 | |
| 1023 | 355307.015 | 6339163.773 | |
| 1024 | 355304.984 | 6339164.065 | |
| 1025 | 355302.917 | 6339164.336 | |
| 1026 | 355300.840 | 6339164.596 | |
| 1027 | 355298.773 | 6339164.858 | |
| 1028 | 355296.733 | 6339165.147 | |
| 1029 | 355289.148 | 6339166.631 | |
| 1030 | 355282.106 | 6339168.685 | |
| 1031 | 355275.569 | 6339171.268 | |
| 1032 | 355269.511 | 6339174.344 | |
| 1033 | 355263.885 | 6339177.871 | |
| 1034 | 355258.663 | 6339181.818 | |
| 1035 | 355253.800 | 6339186.140 | |
| 1036 | 355249.268 | 6339190.808 | |
| 1037 | 355245.021 | 6339195.773 | |
| 1038 | 355241.041 | 6339201.008 | |
| 1039 | 355236.785 | 6339207.200 | |
| 1040 | 355232.750 | 6339213.616 | |
| 1041 | 355228.853 | 6339220.179 | |
| 1042 | 355225.038 | 6339226.817 | |
| 1043 | 355221.224 | 6339233.464 | |
| 1044 | 355217.345 | 6339240.044 | |
| 1045 | 355213.338 | 6339246.486 | |
| 1046 | 355209.119 | 6339252.719 | |
| 1047 | 355204.633 | 6339258.674 | |
| 1048 | 355199.816 | 6339264.278 | |
| 1049 | 355195.134 | 6339268.989 | |
| 1050 | 355190.176 | 6339273.423 | |
| | | | |

| | Coordinates ¹ | | |
|--------------|--------------------------|-------------|--|
| Vertex | Easting | Northing | |
| 1051 | 355185.025 | 6339277.653 | |
| 1052 | 355179.745 | 6339281.744 | |
| 1053 | 355174.401 | 6339285.768 | |
| 1054 | 355169.066 | 6339289.803 | |
| 1055 | 355163.813 | 6339293.915 | |
| 1056 | 355158.699 | 6339298.172 | |
| 1057 | 355153.796 | 6339302.650 | |
| 1058 | 355149.188 | 6339307.418 | |
| 1059 | 355147.146 | 6339309.774 | |
| 1060 | 355145.168 | 6339312.201 | |
| 1061 | 355143.273 | 6339314.700 | |
| 1061 | 355141.433 | 6339317.270 | |
| 1062 | 355139.657 | 6339319.910 | |
| 1063 | 355137.946 | 6339322.611 | |
| 1064 | 355136.280 | 6339325.369 | |
| | | 6339328.182 | |
| 1066 1067 | 355134.670 355133.106 | | |
| | | 6339331.051 | |
| 1068 | 355131.587 | 6339333.971 | |
| 1069 | 355130.578 | 6339335.949 | |
| 1070 | 355129.559 | 6339337.910 | |
| 1071 | 355128.503 | 6339339.831 | |
| 1072 | 355127.374 | 6339341.677 | |
| 1073 | 355126.144 | 6339343.411 | |
| 1074 | 355124.776 | 6339345.003 | |
| 1075 | 355123.261 | 6339346.423 | |
| 1076 | 355121.534 | 6339347.636 | |
| 1077 | 355119.597 | 6339348.607 | |
| 1078 | 355117.420 | 6339349.312 | |
| 1079 | 355115.707 | 6339349.627 | |
| 1080 | 355113.883 | 6339349.815 | |
| 1081 | 355111.959 | | |
| 1082 | 355109.942 | | |
| 1083 | 355107.862 | 6339349.723 | |
| 1084 | 355105.736 | 6339349.535 | |
| 1085 | 355103.583 | 6339349.294 | |
| 1086 | 355101.411 | 6339349.020 | |
| 1087 | 355099.249 | 6339348.724 | |
| 1088 | 355097.115 | 6339348.430 | |
| 1089 | 355093.975 | 6339348.006 | |
| 1090 | 355090.928 | 6339347.612 | |
| 1091 | 355087.945 | 6339347.247 | |
| 1092 | 355085.046 | 6339346.907 | |
| 1093 | 355082.203 | 6339346.582 | |
| 1094 | 355079.407 | 6339346.279 | |
| 1095 | 355076.657 | 6339345.988 | |
| 1096 | 355073.934 | 6339345.707 | |
| 1097 | 355071.231 | 6339345.432 | |
| 1098 | 355068.536 | 6339345.162 | |
| | | | |

| | Coordinates ¹ | | |
|--------|--------------------------|-------------|--|
| Vertex | Easting | Northing | |
| 1099 | 355079.577 | 6339414.280 | |
| 1100 | 355098.627 | 6339533.454 | |
| 1101 | 355117.678 | 6339652.623 | |
| 1102 | 355469.612 | 6339596.480 | |
| 1103 | 355494.695 | 6339592.478 | |
| 1104 | 355550.242 | 6339583.617 | |
| 1105 | 355550.702 | 6339580.953 | |
| 1106 | 355551.152 | 6339578.288 | |
| 1107 | 355555.778 | 6339551.395 | |
| 1108 | 355560.395 | 6339524.504 | |
| 1109 | 355576.358 | 6339431.622 | |
| 1110 | 355525.521 | 6339425.709 | |
| 1111 | 355531.916 | 6339389.628 | |
| 1112 | 355583.099 | 6339392.407 | |
| 1113 | 355586.530 | 6339372.449 | |
| 1114 | 355535.450 | 6339369.686 | |
| 1115 | 355540.574 | 6339340.760 | |
| 1116 | 355540.938 | 6339340.703 | |
| 1117 | 355544.349 | 6339320.883 | |
| 1117 | 355547.760 | 6339301.062 | |
| 1118 | 355551.162 | 6339281.239 | |
| 1119 | 355554.572 | 6339261.417 | |
| 1120 | 355557.983 | 6339241.597 | |
| 1121 | 355563.591 | 6339241.597 | |
| 1122 | 355612.134 | 6339223.461 | |
| 1125 | 355612.134 | 6339220.288 | |
| 1124 | 355560.590 | 6339220.288 | |
| 1125 | 355565.736 | 6339187.531 | |
| | 355578.941 | 6339187.531 | |
| 1127 | | | |
| - | 355583.743 | 6339175.155 | |
| 1129 | | | |
| 1130 | 355618.998 | 6339183.498 | |
| 1131 | 355625.758 | 6339144.186 | |
| 1132 | 355633.831 | 6339148.885 | |
| | 355644.310 | 6339154.984 | |
| 1134 | | 6339236.073 | |
| | 355629.135 | 6339243.258 | |
| 1136 | | 6339267.451 | |
| 1137 | 355641.776 | 6339272.460 | |
| 1138 | | 6339279.628 | |
| 1139 | | 6339294.965 | |
| 1140 | 355681.259 | 6339297.429 | |
| 1141 | 355742.508 | 6339305.770 | |
| 1142 | 355762.310 | 6339308.467 | |
| 1143 | | 6339309.428 | |
| 1144 | 355764.542 | | |
| 1145 | 355761.361 | 6339339.956 | |
| 1146 | 355778.057 | 6339355.092 | |

Coordinates ¹

| Coordinates 1 | | |
|---------------|------------|-------------|
| Vertex | Easting | Northing |
| 1147 | 355781.088 | 6339357.840 |
| 1148 | 355792.598 | 6339368.211 |
| 1149 | 355800.836 | 6339375.636 |
| 1150 | 355806.189 | 6339380.467 |
| 1151 | 355821.053 | 6339393.871 |
| 1152 | 355843.279 | 6339413.904 |
| 1153 | 355850.965 | 6339420.836 |
| 1154 | 355884.520 | 6339383.555 |
| 1155 | 355885.393 | 6339382.592 |
| 1156 | 355897.437 | 6339393.442 |
| 1157 | 355898.880 | 6339391.848 |
| 1158 | 355916.729 | 6339407.919 |
| 1159 | 355921.333 | 6339402.810 |
| 1160 | 355936.261 | 6339416.278 |
| 1161 | 355951.189 | 6339429.749 |
| 1162 | 355947.810 | 6339433.509 |
| 1163 | 355926.263 | 6339457.429 |
| 1164 | 355910.715 | 6339474.699 |
| 1165 | 355932.692 | 6339494.515 |
| 1166 | 355940.580 | 6339501.630 |
| 1167 | 355942.156 | 6339503.049 |
| 1168 | 355937.149 | 6339540.083 |
| 1169 | 355937.521 | 6339540.138 |
| 1170 | 355938.220 | 6339540.270 |
| 1171 | 355938.908 | 6339540.439 |
| 1172 | 355939.577 | 6339540.644 |
| 1173 | 355940.246 | 6339540.883 |
| 1174 | 355940.896 | 6339541.158 |
| 1175 | 355941.535 | 6339541.466 |
| 1176 | 355942.156 | 6339541.808 |
| 1177 | 355942.748 | 6339542.180 |
| 1178 | 355943.330 | 6339542.582 |
| 1179 | 355943.894 | 6339543.016 |
| 1180 | 355944.428 | 6339543.479 |
| 1181 | 355944.935 | 6339543.968 |
| 1182 | 355945.339 | 6339544.397 |
| 1183 | 355945.422 | 6339544.484 |
| 1184 | 355945.872 | 6339545.023 |
| 1185 | 355946.302 | 6339545.587 |
| 1186 | 355946.695 | 6339546.172 |
| 1187 | 355947.069 | 6339546.776 |
| 1188 | 355947.396 | 6339547.399 |
| | | |

| | Coordinates ¹ | | |
|--------------|--------------------------|----------------------------|--|
| Vertex | Easting | Northing | |
| 1189 | 355947.704 | 6339548.039 | |
| 1190 | 355947.965 | 6339548.694 | |
| 1191 | 355948.198 | 6339549.361 | |
| 1192 | 355948.394 | 6339550.041 | |
| 1193 | 355948.561 | 6339550.728 | |
| 1194 | 355948.681 | 6339551.423 | |
| 1195 | 355948.764 | 6339552.125 | |
| 1196 | 355948.819 | 6339552.831 | |
| 1197 | 355948.837 | 6339553.537 | |
| 1198 | 355932.958 | 6339571.070 | |
| 1199 | 355925.763 | 6339624.135 | |
| 1200 | 355923.302 | 6339642.269 | |
| 1201 | 355920.590 | 6339662.217 | |
| 1202 | 355917.879 | 6339682.168 | |
| 1203 | 355915.157 | 6339702.123 | |
| 1204 | 355912.436 | 6339722.083 | |
| 1205 | 355909.706 | 6339742.043 | |
| 1206 | 355901.412 | 6339803.130 | |
| 1207 | 355898.784 | 6339822.451 | |
| 1208 | 355896.093 | 6339842.266 | |
| 1209 | 355893.475 | 6339861.547 | |
| 1210 | 355888.721 | 6339896.529 | |
| 1211 | 355885.360 | 6339921.299 | |
| 1212 | 355874.564 | 6340000.771 | |
| 1213 | 355974.222 | 6340014.312 | |
| 1214 | 356089.192 | 6340029.935 | |
| 1215 | 356060.937 | 6340102.361 | |
| 1216 | 355678.579 | 6340204.001 | |
| 1217 | 355705.062 | 6340481.788 | |
| 1218 | 355712.114 | 6340526.706 | |
| 1219 | | 6340566.356 | |
| 1220 | 355492.821 | 6340625.715 | |
| 1221 | 355502.256 | 6340685.073 | |
| 1222 | 355277.225 | 6340723.274 | |
| 1223 | 355279.994 | 6340740.685 | |
| 1224 | | 6340781.992 | |
| 1225 1226 | | 6340796.823 6340956.788 | |
| 1226 | 355314.438 | 6341991.245 | |
| 1227 | | | |
| 1228 | 354351.202 | 6342167.550 | |
| 1229 | 554551.202 | 0342107.330 | |

1 Coordinate reference system is MGA 56

SCHEDULE E – AREA OF OPERATIONS – NORTH COORANBONG SCHEME - RETAIL OF DRINKING WATER AND SEWERAGE SERVICES

Coordinates ¹

| | 00014 | mates | | |
|--------|------------|-------------|---|----|
| Vertex | Easting | Northing | _ | Ve |
| 1 | 354351.202 | 6342167.550 | | |
| 2 | 354514.692 | 6342139.480 | | |
| 3 | 354592.036 | 6342126.211 | | |
| 4 | 355263.261 | 6342010.852 | | |
| 5 | 355299.057 | 6342004.699 | | |
| 6 | 355457.953 | 6341977.432 | | |
| 7 | 355476.118 | 6341974.262 | | |
| 8 | 355928.178 | 6341895.744 | | |
| 9 | 355947.934 | 6341892.376 | | |
| 10 | 355853.373 | 6341292.557 | | |
| 11 | 355889.131 | 6341288.932 | | |
| 12 | 355908.528 | 6341294.666 | | |
| 13 | 355909.987 | 6341295.082 | | |
| 14 | 355911.448 | 6341295.492 | | |
| 15 | 355912.912 | 6341295.894 | | |
| 16 | 355914.377 | 6341296.289 | | |
| 17 | 355915.844 | 6341296.675 | | |
| 18 | 355917.315 | 6341297.054 | | |
| 19 | 355918.785 | 6341297.426 | | |
| 20 | 355920.259 | 6341297.789 | | |
| 21 | 355921.734 | 6341298.145 | | |
| 22 | 355923.210 | 6341298.493 | | |
| 23 | 355924.690 | 6341298.834 | | |
| 24 | 355926.169 | 6341299.168 | | |
| 25 | 355927.652 | 6341299.492 | | |
| 26 | 355929.136 | 6341299.810 | | |
| 27 | | | | |
| 28 | | 6341300.421 | | |
| 29 | 355933.596 | | | |
| 30 | 355935.085 | 6341301.002 | | |
| 31 | 355936.577 | 6341301.280 | | |
| 32 | 355938.069 | 6341301.552 | | |
| 33 | 355939.563 | 6341301.814 | | |
| 34 | 355941.058 | 6341302.070 | | |
| 35 | 355942.555 | 6341302.318 | | |
| 36 | 355944.052 | 6341302.557 | | |
| 37 | 355945.552 | 6341302.789 | | |
| 38 | 355947.053 | 6341303.013 | | |
| 39 | 355948.553 | 6341303.229 | | |
| 40 | 355950.057 | 6341303.438 | | |
| 41 | 355951.560 | 6341303.639 | | |
| 42 | 355953.064 | 6341303.831 | | |
| 43 | 355954.569 | 6341304.015 | | |
| 44 | 355956.076 | 6341304.193 | | |
| 45 | 355957.583 | 6341304.363 | | |

| Coordinates ¹ | | | |
|--------------------------|--------------------------|----------------------------|--|
| /ertex | Easting | Northing | |
| 46 | 355959.091 | 6341304.523 | |
| 47 | 355960.599 | 6341304.676 | |
| 48 | 355962.109 | 6341304.822 | |
| 49 | 355963.620 | 6341304.959 | |
| 50 | 355965.130 | 6341305.090 | |
| 51 | 355966.642 | 6341305.211 | |
| 52 | 355968.154 | 6341305.325 | |
| 53 | 355969.667 | 6341305.432 | |
| 54 | 355971.181 | 6341305.530 | |
| 55 | 355972.694 | 6341305.620 | |
| 56 | 355974.208 | 6341305.702 | |
| 57 | 355975.723 | 6341305.776 | |
| 58 | 355977.237 | 6341305.843 | |
| 59 | 355978.752 | 6341305.902 | |
| 60 | 355980.267 | 6341305.953 | |
| 61 | 355981.783 | 6341305.996 | |
| 62 | 355983.299 | 6341306.031 | |
| 63 | 355984.816 | 6341306.058 | |
| 64 | 355986.332 | 6341306.076 | |
| 65 | 355987.847 | 6341306.088 | |
| 66 | 355989.363 | 6341306.091 | |
| 67 | 355990.880 | 6341306.086 | |
| 68 | 355992.396 | 6341306.074 | |
| 69 | 355993.911 | 6341306.054 | |
| 70 | 355995.427 | 6341306.026 | |
| 71 | 355996.943 | 6341305.990 | |
| 72 | 355998.458 | 6341305.945 | |
| 73 | 355999.973 | | |
| 74 75 | 356001.488 | 6341305.834 | |
| 75 76 | 356003.003 | 6341305.764 | |
| 76 77 | 356004.517 | 6341305.689 6341305.606 | |
| 77 78 | 356006.030 356007.543 | 6341305.514 | |
| 78 | 356009.055 | 6341305.415 | |
| 80 | 356010.568 | 6341305.307 | |
| 81 | 356012.079 | 6341305.193 | |
| 82 | 356013.589 | 6341305.069 | |
| 83 | 356015.100 | 6341304.938 | |
| 84 | 356036.436 | 6341302.923 | |
| 85 | 356040.052 | 6341298.556 | |
| 86 | 356036.864 | 6341263.580 | |
| 87 | 356035.744 | 6341259.492 | |
| 88 | 356150.057 | 6341238.764 | |
| 89 | 356154.466 | 6341287.101 | |
| 90 | 356150.397 | 6341292.015 | |
| | | | |

| | Coordinates ¹ | | |
|--------|--------------------------|-------------|--|
| Vertex | Easting | Northing | |
| 91 | 356230.926 | 6341284.356 | |
| 92 | 356234.995 | 6341279.435 | |
| 93 | 356251.894 | 6341277.870 | |
| 94 | 356256.765 | 6341281.960 | |
| 95 | 356403.679 | 6341268.302 | |
| 96 | 356407.748 | 6341263.377 | |
| 97 | 356424.694 | 6341261.757 | |
| 98 | 356429.593 | 6341265.824 | |
| 99 | 356484.442 | 6341260.581 | |
| 100 | 356488.511 | 6341255.657 | |
| 101 | 356505.457 | 6341254.038 | |
| 102 | 356498.096 | 6341175.733 | |
| 103 | 356649.645 | 6341148.313 | |
| 104 | 356774.359 | 6341125.628 | |
| 105 | 356976.796 | 6341088.994 | |
| 106 | 356953.354 | 6340941.979 | |
| 107 | 356933.899 | 6340819.976 | |
| 108 | 356933.894 | 6340819.976 | |
| 109 | 356911.009 | 6340676.479 | |
| 110 | 356885.170 | 6340514.852 | |
| 111 | 356884.165 | 6340509.213 | |
| 112 | 356879.669 | 6340483.987 | |
| 113 | 356871.355 | 6340438.179 | |
| 114 | 356663.500 | 6340472.232 | |
| 115 | 356675.399 | 6340545.157 | |
| 116 | 356655.424 | 6340548.976 | |
| 117 | 356654.135 | 6340541.077 | |
| 118 | 356517.390 | 6340564.916 | |
| 119 | 356511.020 | 6340529.497 | |
| 120 | 356509.328 | 6340520.087 | |
| 121 | 356508.144 | 6340512.920 | |
| 122 | 356507.647 | 6340509.879 | |
| 123 | 356473.232 | 6340515.876 | |
| 124 | 356459.461 | 6340518.274 | |
| 125 | 356457.642 | 6340507.902 | |
| 126 | 356425.193 | 6340513.556 | |
| 127 | 356392.735 | 6340519.209 | |
| 128 | 356378.973 | 6340521.608 | |
| 129 | 356346.515 | 6340527.260 | |
| 130 | 356314.239 | 6340533.244 | |
| 131 | 356314.179 | 6340540.351 | |
| 132 | 356255.557 | 6340549.401 | |
| 133 | 356241.003 | 6340473.322 | |
| 134 | 356251.795 | 6340469.873 | |
| 135 | 356238.394 | 6340391.931 | |
| 136 | 356228.412 | 6340393.983 | |
| 137 | 356218.483 | 6340342.249 | |
| 138 | 356253.676 | 6340334.913 | |
| | | | |

| | Coordinates 1 | | |
|------------|--------------------------|----------------------------|--|
| Vertex | Easting | Northing | |
| 139 | 356249.597 | 6340308.500 | |
| 140 | 356308.787 | 6340296.974 | |
| 141 | 356304.967 | 6340279.013 | |
| 142 | 356297.856 | 6340238.541 | |
| 143 | 356313.647 | 6340235.975 | |
| 144 | 356329.672 | 6340233.370 | |
| 145 | 356345.706 | 6340230.766 | |
| 146 | 356361.740 | 6340228.161 | |
| 147 | 356377.774 | 6340225.556 | |
| 148 | 356373.420 | 6340204.076 | |
| 149 | 356370.510 | 6340204.431 | |
| 150 | 356294.047 | 6340216.855 | |
| 151 | 356271.293 | 6340220.551 | |
| 152 | 356255.643 | 6340195.055 | |
| 153 | 356235.132 | 6340161.656 | |
| 154 | 356281.620 | 6340098.924 | |
| 155 | 356320.705 | 6340027.191 | |
| 156 | 356341.037 | 6340032.670 | |
| 157 | 356370.510 | 6340204.431 | |
| 158 | 356373.420 | 6340204.076 | |
| 159 | 356363.245 | 6340144.607 | |
| 160 | 356353.070 | 6340085.137 | |
| 161 | 356332.720 | 6339966.200 | |
| 162 | 356323.680 | 6339976.503 | |
| 163 | 356287.552 | 6339941.527 | |
| 164 | 356269.488 | 6339924.042 | |
| 165 | 356251.424 | 6339906.549 | |
| 166 | 356139.306 | 6340022.406 | |
| 167 | 356132.106 | 6339947.433 | |
| 168 | | | |
| 169 | 356087.789 | 6339499.202 | |
| 170 | 356102.181 | | |
| 171 | | 6339477.550 | |
| | 356137.009 | | |
| 173 | | 6339385.868 | |
| 174 | | 6339345.677 | |
| | 356101.721 | 6339305.283 | |
| 176 | | 6339397.769 | |
| 177 | | 6339423.674 | |
| 178 | | 6339425.349 | |
| 179 180 | 356007.794 | 6339427.023 | |
| 180 181 | 356022.722 356037.650 | 6339440.491 6339453.962 | |
| 181 192 | | | |
| 182 182 | | 6339467.432 | |
| 183 194 | | 6339480.903 6339555.491 | |
| 184 185 | | | |
| | 355985.394 | | |
| 186 | 355970.456 | 6339528.561 | |

| Vertex | Easting | Northing | |
|--------|------------|-------------|--|
| 187 | 355965.166 | 6339523.792 | |
| 188 | 355955.518 | 6339515.096 | |
| 189 | 355942.156 | 6339503.049 | |
| 190 | 355937.149 | 6339540.083 | |
| 191 | 355937.521 | 6339540.138 | |
| 192 | 355938.220 | 6339540.270 | |
| 193 | 355938.908 | 6339540.439 | |
| 194 | 355939.577 | 6339540.644 | |
| 195 | 355940.246 | 6339540.883 | |
| 196 | 355940.896 | 6339541.158 | |
| 197 | 355941.535 | 6339541.466 | |
| 198 | 355942.156 | 6339541.808 | |
| 199 | 355942.748 | 6339542.180 | |
| 200 | 355943.330 | 6339542.582 | |
| 201 | 355943.894 | 6339543.016 | |
| 202 | 355944.428 | 6339543.479 | |
| 203 | 355944.935 | 6339543.968 | |
| 204 | 355945.339 | 6339544.397 | |
| 205 | 355945.422 | 6339544.484 | |
| 206 | 355945.872 | 6339545.023 | |
| 207 | 355946.302 | 6339545.587 | |
| 208 | 355946.695 | 6339546.172 | |
| 209 | 355947.069 | 6339546.776 | |
| 210 | 355947.396 | 6339547.399 | |
| 211 | 355947.704 | 6339548.039 | |
| 212 | 355947.965 | 6339548.694 | |
| 213 | 355948.198 | 6339549.361 | |
| 214 | 355948.394 | 6339550.041 | |
| 215 | 355948.561 | 6339550.728 | |
| 216 | 355948.681 | 6339551.423 | |
| 217 | 355948.764 | 6339552.125 | |
| 218 | 355948.819 | 6339552.831 | |
| 219 | 355948.837 | 6339553.537 | |
| 220 | 355932.958 | 6339571.070 | |
| 221 | 355925.763 | 6339624.135 | |
| 222 | 355923.302 | 6339642.269 | |
| 223 | 355920.590 | 6339662.217 | |
| 224 | 355917.879 | 6339682.168 | |
| 225 | 355915.157 | 6339702.123 | |
| 226 | 355912.436 | 6339722.083 | |
| 227 | 355909.706 | 6339742.043 | |
| 228 | 355901.412 | 6339803.130 | |
| 229 | 355898.784 | 6339822.451 | |
| 230 | 355896.093 | 6339842.266 | |
| 231 | 355893.475 | 6339861.547 | |
| 232 | 355888.721 | 6339896.529 | |
| 233 | 355885.360 | 6339921.299 | |
| 234 | 355874.564 | 6340000.771 | |
| | | | |

| | Coordinates ¹ | | |
|---|--------------------------|-------------|--|
| Vertex | Easting | Northing | |
| 235 | 355974.222 | 6340014.312 | |
| 236 | 356089.192 | 6340029.935 | |
| 237 | 356060.937 | 6340102.361 | |
| 238 | 355678.579 | 6340204.001 | |
| 239 | 355705.062 | 6340481.788 | |
| 240 | 355712.114 | 6340526.706 | |
| 241 | 355483.378 | 6340566.356 | |
| 242 | 355492.821 | 6340625.715 | |
| 243 | 355502.256 | 6340685.073 | |
| 244 | 355277.225 | 6340723.274 | |
| 245 | 355279.994 | 6340740.685 | |
| 246 | 355286.602 | 6340781.992 | |
| 247 | 355288.970 | 6340796.823 | |
| 248 | 355314.438 | 6340956.788 | |
| 249 | 354491.441 | 6341991.245 | |
| 250 | 354446.385 | 6342047.958 | |
| 251 | 354351.202 | 6342167.550 | |
| 1 Coordinate reference system is MGA 56 | | | |

SCHEDULE F – AREA OF OPERATIONS – NORTH COORANBONG SCHEME – MAPS



| SCHEDULE F - MAP 1 - FLOW SYSTEMS - Area of Operations (Retail) - | LEGEND | LICENCE DETAILS: | |
|---|----------------------------|---|--|
| Non-potable water services | Licensed area | Licence Number: 13_001R | |
| Date created: 4 March 2020 | | Licence Type: Retail Supplier's Licence Licensee: Flow Systems Pty Ltd (ACN 136 272 298) | |
| Version: 1.0 | Non-potable water vertices | Licensee. How Systems Pty Ltd (ACN 150 272 296) | |



SCHEDULE G – AREA OF OPERATIONS – BOX HILL NORTH SCHEME - RETAIL OF NON-POTABLE WATER

Coordinates 1 Coordinates 1 Easting Northing Vertex Easting Vertex Northing 47 6279095.292 0 305539.186 6275618.928 305480.576 48 305287.488 6279393.798 1 305537.828 6275615.986 49 2 305422.613 6279483.497 305471.676 6275646.504 50 3 305453.487 6275649.748 305767.766 6279296.364 4 305426.757 6275662.016 51 305777.773 6279271.682 5 52 6279128.993 305489.200 6275809.070 306034.852 6 53 306294.774 6278990.969 305543.262 6275925.511 54 7 306398.716 6279186.591 305548.612 6275944.592 8 305495.867 6275962.174 55 306543.137 6279108.345 9 56 305473.992 6275952.145 306777.488 6278986.353 57 10 306770.309 6278977.063 305398.799 6275943.563 306739.888 58 6278950.473 11 305381.457 6275942.830 59 12 306725.543 6278951.290 305359.557 6275945.025 13 60 306710.989 6278956.211 305342.700 6275948.668 61 14 305313.095 6275960.426 306696.750 6278949.320 62 6278935.009 15 305284.356 6275978.700 306686.115 16 305268.787 6275994.125 63 306686.479 6278910.174 64 17 305195.977 6276105.958 306689.733 6278897.139 6276133.881 65 306692.002 6278894.694 18 305079.068 66 19 306697.208 305047.304 6276143.183 6278891.026 67 20 306714.354 6278886.577 305025.918 6276152.429 68 21 305004.417 6276166.017 306735.148 6278876.813 69 306752.608 6278875.577 22 304877.041 6276279.522 70 23 304844.273 6276289.191 306759.094 6278872.744 71 24 304932.500 306765.834 6278867.915 6276439.263 25 72 304591.170 6276547.305 306771.128 6278857.238 73 26 304354.926 6276619.069 306763.787 6278850.830 74 306752.681 6278850.434 27 304400.885 6276699.940 75 28 304649.910 6277154.498 306741.552 6278850.838 76 29 306730.281 6278852.841 304663.770 6277158.991 30 304673.275 6277176.621 77 306715.318 6278858.050 78 306709.718 6278857.701 31 304668.999 6277189.737 79 32 304891.023 6277597.069 306704.253 6278852.344 80 33 304961.374 6277735.705 306702.192 6278846.980 81 34 305036.285 6277878.474 306717.961 6278807.930 35 305018.392 6277887.660 82 306723.836 6278797.970 83 306745.576 6278775.309 36 304750.665 6278029.735 84 37 304865.645 6278249.931 306749.993 6278763.706 85 38 304980.103 6278206.243 306749.829 6278758.592 86 306743.667 6278749.140 39 304950.570 6278358.696 87 40 305059.125 6278359.766 306723.422 6278739.487 41 305063.749 88 306715.597 6278732.417 6278424.519 42 89 305241.477 6278429.730 306709.664 6278721.296 90 43 305157.361 306709.286 6278715.994 6278652.115 44 91 306712.250 6278678.315 305171.002 6278651.243 92 306730.731 6278643.189 45 305299.679 6278888.743 93 46 305357.017 6278864.452 306749.275 6278637.786

| | Coordinates ¹ | | |
|--------|--------------------------|-------------|--|
| Vertex | Easting | Northing | |
| 94 | 307440.257 | 6278268.396 | |
| 95 | 307374.860 | 6278148.627 | |
| 96 | 307732.592 | 6277960.187 | |
| 97 | 307536.149 | 6277583.326 | |
| 98 | 307528.270 | 6277564.034 | |
| 99 | 307542.984 | 6277554.126 | |
| 100 | 307761.354 | 6277441.219 | |
| 101 | 307587.600 | 6277125.866 | |
| 102 | 307544.684 | 6277140.470 | |
| 103 | 307519.276 | 6277146.671 | |
| 104 | 307512.113 | 6277147.028 | |
| 105 | 307500.433 | 6277153.089 | |
| 106 | 307459.792 | 6277166.559 | |
| 107 | 307430.923 | 6277169.067 | |
| 108 | 307400.158 | 6277168.107 | |
| 109 | 307379.992 | 6277171.757 | |
| 110 | 307367.595 | 6277168.881 | |

| | Coordinates ¹ | | |
|--------|--------------------------|-------------|--|
| Vertex | Easting | Northing | |
| 111 | 307358.912 | 6277161.268 | |
| 112 | 307342.530 | 6277165.253 | |
| 113 | 307107.663 | 6276808.954 | |
| 114 | 307017.422 | 6276667.762 | |
| 115 | 306888.240 | 6276472.636 | |
| 116 | 306797.764 | 6276331.826 | |
| 117 | 306552.423 | 6275941.227 | |
| 118 | 306385.024 | 6276141.484 | |
| 119 | 306049.627 | 6275772.738 | |
| 120 | 305684.600 | 6275898.147 | |
| 121 | 305680.970 | 6275878.177 | |
| 122 | 305558.194 | 6275612.053 | |
| 123 | 305539.186 | 6275618.928 | |

1 Coordinate reference system is MGA 56



SCHEDULE I – INTERPRETATION AND DEFINITIONS

1. Interpretation

- 1.1. In this Licence, unless the context requires otherwise:
 - a) the singular includes the plural and vice versa;
 - b) headings are used for convenience only and do not affect the interpretation of this Licence;
 - c) a reference to a document includes the document as modified from time to time and any document replacing it;
 - d) a reference to a "person" includes a natural person and any body or entity whether incorporated or not;
 - e) a reference to a clause is to a clause in this Licence;
 - f) a reference to a section is to a section in this Licence;
 - g) a reference to a schedule is to a schedule to this Licence;
 - a reference to a law or statute includes regulations, rules, codes and other instruments under it, and consolidations, amendments, reenactments or replacements of them; and
 - i) explanatory notes do not form part of this Licence, but in the case of uncertainty may be relied on for interpretation purposes.

2. Definitions

- 2.1. Expressions used in this Licence that are defined in the Act or the Regulation have the meanings set out in the Act or the Regulation.
- 2.2. In this Licence:

| Act | means the Water Industry Competition Act 2006 (NSW). | |
|-----------------------|---|--|
| Area of Operations | means the area of operations specified in, as applicable: | |
| | a) section 1, Table 1.4 | |
| | b) section 2, Table 2.4, and | |
| | a) appring 2 Table 2.4 | |

c) section 3, Table 3.4.

| Audit Guidelines | means the document titled " <i>Audit Guideline – Water Industry</i> <i>Competition Act 2006</i> ", which is prepared by IPART and is available on IPART's website at www.ipart.nsw.gov.au, and any other guidelines issued by IPART in relation to audits under the Act. | | |
|--|---|--|--|
| Authorised Persons | means each person specified in, as applicable: | | |
| | a) section 1, Table 1.1 b) section 2, Table 2.1, and c) section 3, Table 3.1. | | |
| Authorised Purposes | means the authorised purposes specified in, as applicable: | | |
| i uiposes | a) section 1, Table 1.5 b) section 2, Table 2.5, and c) section 3, Table 3.5. | | |
| Box Hill North Network Operator's Licence | means network operator's licence no. 16_037 granted to Flow Systems Operations Pty Ltd (ACN 603 106 305) (as varied by the Minister from time to time) | | |
| Central Park Water Network Operator's Licence | means network operator's licence no. 12_022 granted to Central Park Water Factory Pty Ltd (ACN 151 072 838) (as varied by the Minister from time to time). | | |
| Cooranbong Water Network Operator's Licence | means network operator's licence no. 15_033 granted to Cooranbong Water Pty Ltd (ACN 169 450 453) (as varied by the Minister from time to time). | | |
| Discovery Point Water Network Operator's Licence | means network operator's licence no. 13_025 granted to Discovery Point Water Factory Pty Ltd (ACN 142 392 541) (as varied by the Minister from time to time). | | |
| Glossodia Network Operator's Licence | means network operator's licence no. 19_043 granted to Flow Systems Operations Pty Ltd (ACN 603 106 305) (as varied by the Minister from time to time). | | |
| Green Square Water Network Operator's Licence | means network operator's licence no. 15_031 granted to Green Square Water Pty Ltd (ACN 163 432 906) (as varied by the Minister from time to time). | | |

| Huntlee Water Network Operator's Licence | means network operator's licence no. 15_030 granted to Huntlee Water Pty Ltd (ACN 167 418 608) (as varied by the Minister from time to time). |
|--|--|
| Insurance Expert | means an insurance broker which holds an Australian financial services licence under Part 7.6 of the <i>Corporations Act 2001</i> (Cth) that authorises the broker to provide financial product advice for, and deal in, contracts of insurance within the meaning of Chapter 7 of that Act. |
| IPART | means the Independent Pricing and Regulatory Tribunal of New South Wales established under the <i>Independent Pricing and Regulatory Tribunal Act 1992</i> (NSW). |
| Licence | means this retail supplier's licence granted under section 10 of the Act. |
| Licensed Water Industry Infrastructure | means the water industry infrastructure by means of which the non- potable water, drinking water and/or sewerage services (as applicable) under this Licence are supplied. |
| Licensee | means Flow Systems Pty Ltd (ACN 136 272 298). |
| Licensee's Code of Conduct | has the meaning given in Schedule B, clause 7.1. |
| Minister | means the Minister responsible for Part 2 of the Act. |
| NSW Health | means the Water Unit of NSW Ministry of Health and any of the local health districts as defined by the NSW Ministry of Health. |
| Pitt Town Water Network Operator's Licence | means network operator's licence no. 10_014 granted to Pitt Town Water Factory Pty Ltd (ACN 141 705 660) (as varied by the Minister from time to time). |
| Plan | means the retail supply management plan that the Licensee is required to prepare under the Regulation. |

| Regulation | means the Water Industry Competition (General) Regulation 2008 (NSW). |
|--|---|
| Reporting Manual | means the document titled "Retail Supplier's Reporting Manual", which is prepared by IPART and is available on IPART's website at www.ipart.nsw.gov.au. |
| Shepherds Bay Network Operator's Licence | means network operator's licence no. 17_042 granted to Flow Systems Operations Pty Ltd (ACN 603 106 305) (as varied by the Minister from time to time). |
| Small Retail Customer | has the meaning given to that term in the Regulation. |
| Water Industry Infrastructure | means the water industry infrastructure specified in, as applicable: a) section 1, Table 1.2 b) section 2, Table 2.2, and c) section 3, Table 3.2. |
| Wyee Water Network Operator's Licence | means network operator's licence no. 14_026 granted to Wyee Water Pty Ltd (ACN 160 953 775) (as varied by the Minister from time to time). |

B Detailed capacity analysis of FSO's and Flow Systems' applications

We considered the following as part of our assessment:

B.1 Evidence of technical capacity with respect to the Network Operator Licence Application

From our assessment, we consider that FSO, with the support of Flow Systems, has the relevant technical capacity to carry out the activities that the varied licence (if granted) would authorise.

- Compliance history and understanding of relevant legislative frameworks: FSO holds three network operator licences under the WIC Act. An operational audit conducted in 2020 for the Box Hill North scheme identified two non-material non-compliances on full implementation of management plans. Separately, FSO was non-compliant (material) for the same scheme due to an incident on implementation of its management plan.⁵⁰ However, the non-compliances did not result in a failure of treatment processes and FSO is working to fix these issues.
- Risk assessment for the non-potable water infrastructure:⁵¹ The risk assessment identifies key hazards and risks related to the scheme's non-potable water infrastructure and business systems, and identifies control measures to manage these risks. FSO is working with NSW Health to further develop the risk assessment to address shortcomings.⁵² For the purposes of this variation, we consider that the current risk assessment demonstrates FSO's technical capacity to ensure its infrastructure is operated in a safe and reliable manner.
- Flow Systems recycled water quality plan (WQP):⁵³ The WQP describes how the operation and maintenance of infrastructure for Flow Systems' schemes (including at Box Hill North) would be consistent with the *Australian Guidelines for Water Recycling* (AGWR). The WQP is a generic document intended to cover all of Flow Systems' schemes. Scheme specific information is included in the Scheme Management Plan. The WQP demonstrates FSO's capacity in developing appropriate documentation, consistent with the AGWR, to supply recycled water at the scheme.

⁵⁰ Enforcement Action Notice 07/2020, 5 June 2020.

⁵¹ Flow Systems, *Box Hill Scheme Risk Register*, version 3.3, 20 October 2020.

⁵² IPART and Flow Systems monthly compliance meeting minutes, April to August 2020.

⁵³ Flow Systems, *Recycled Water Quality Plan*, revision 12, 11 December 2018.

- Flow Systems infrastructure operating plan (IOP):⁵⁴ The IOP describes the asset lifecycle planning, system redundancy, contingency plans and condition monitoring for water industry infrastructure, amongst other infrastructure management considerations. The IOP is a generic document intended to cover all of Flow Systems' schemes. Scheme specific information is included in the Scheme Management Plan. The IOP demonstrates FSO's capacity to operate and maintain the recycled water infrastructure at the scheme.
- Flow Systems sewage management plan (SMP):⁵⁵ The SMP describes the framework for the management of the (existing) scheme. The SMP is intended to supplement the WQP, IOP, asset management plan, and incident management plan with scheme specific information. It includes scheme-specific details from relevant Flow Systems' plans (e.g. WQP and IOP) for the scheme non-potable water infrastructure. It also addresses the requirements of Element 2 of the AGWR for the scheme specifically. The SMP demonstrates FSO's capacity to ensure safe and reliable performance of the scheme.
- Water balance report:⁵⁶ This report considers the non-potable water demand, drinking water demand and sewage production for the proposed expanded scheme. It includes consideration of weather patterns, project staging, sensitivity analysis, peak week demand analysis and modelling assumptions. The water balance demonstrates that, at average demand periods, there will be sufficient water available to meet non-potable water customer demands. At full build out, the scheme will have sufficient water available for most of the time except at prolonged peak demand periods (such as in summer months). The water balance report demonstrates that FSO will be able meet non-potable water demands during this time by introducing a non-potable water restriction (expected to achieve 15% non-potable water volume reduction) on some non-residential irrigation customers through non-standard customer contracts. This report demonstrates FSO's capacity to manage fluctuation in non-potable supply and demand from the proposed expanded scheme.
- Process flow diagram:⁵⁷ The process flow diagram (PFD) describes the scheme and identifies water sources, the treatment processes, critical control points and quality control points, water storage and authorised purposes for the scheme. It also identifies the interconnection point with the Sydney Water's assets and area of responsibility between FSO, Sydney Water, customers and waste disposal contractors. The PFD demonstrates FSO's capacity to design and manage the scheme.
- Sydney Water drinking water connection approval:⁵⁸ FSO is able to access drinking water for top-up of non-potable water supply through land owner's connection to the Sydney Water infrastructure at the treatment plant. The extract from the Sydney Water detailed planning report for Box Hill North showed a maximum rate of 28L/s of drinking water can be supplied through the connection. The approval demonstrates FSO's capacity to obtain sufficient drinking water for top-up to balance the non-potable water demand for the proposed expanded scheme.

⁵⁴ Flow Systems, *Infrastructure Operating Plan*, revision 12, 20 December 2018.

⁵⁵ Flow Systems, *Sewage Management Plan*, revision 7, 28 December 2018.

⁵⁶ Box Hill North Water Balance Report, prepared by Kinesis for Flow Systems, 8 September 2020.

⁵⁷ Flow Systems, Box Hill Water, Process Flow Diagram – Recycled Water & Sewerage, revision A2, 16 September 2019.

⁵⁸ Box Hill Services Brief Document and related communications with Sydney Water, 11 October 2016 to 4 November 2016.

B.2 Evidence of technical capacity with respect to the Retail Supplier Licence Application

From our assessment, we consider that Flow Systems has the relevant technical capacity to carry out the activities that the varied licence (if granted) would authorise.

- Retail Supply Management Plan (RSMP): The RSMP describes the retailing activities to supply drinking water, non-potable water and provide sewerage services to retail customers.⁵⁹
- Customer contract: The contract provides the standard terms under which Flow Systems would supply water and provide sewerage services and describes Flow Systems' responsibilities and its customers' responsibilities on administration of accounts, disputes and levels of service.⁶⁰
- **Non-standard customer contract:** As the Box Hill North schemes reaches full capacity Flow Systems proposes that Tier 3 customers will:
 - be provided non-potable water at reduced cost during low demand periods (winter months) to offload excess recycled water from the scheme, and
 - have restrictions on non-potable water supply by 15% during high demand periods (summer months).

Flow Systems proposes to restrict supply by communicating restrictions to Tier 3 customers and rely upon those customers to voluntarily restrict their consumption on irrigation.⁶¹ Flow Systems has not provided a final RSMP or non-standard customer contract for Tier 3 customers. IPART will monitor Flow Systems' management of Tier 3 customers through our compliance activities for the proposed licence, if granted.

- Code of practice for customer complaints: The Code of Practice describes the processes Flow Systems uses to respond to complaints by customers (including owners, tenants and customers) for the services provided. Flow Systems' code of practice for customer complaints has been developed to be consistent with the Australian Standard AS ISO 10002-2006 and addresses complaints handling, including complaint definition, contact details to make a complaint, tracking of complaints, assessment of complaints, response to complaints, escalation of complaints to the Energy and Water Ombudsman NSW, compliance and continuous improvement.⁶²
- Missed Payments Policy: The policy outlines how Flow Systems responds when customers (e.g. tenants or businesses) have missed one or more payments, and outlines Flow Systems' approach to customers who are having difficulty paying or are concerned about not being able to pay on time. In situations of financial hardship, (i.e. where a customer does not pay its water bill), FSO would continue to provide non-potable water at a reasonable flow for basic health and hygiene purposes. Flow Systems, as the retail supplier, would give reasonable notice to its customers if it intended to restrict supply.⁶³

⁵⁹ Flow Systems, *Retail Supply Management Plan*, version 4, 11 February 2016.

⁶⁰ Flow Systems, *Customer Contract*, 30 October 2015, see Flow Systems Customer Contract, accessed on 22 October 2020.

⁶¹ Flow Systems, Box Hill Scheme Risk Register), revision 3.3, 20 October 2020. (RD1.9a and RD1.9b), and Box Hill North Water Balance Report, prepared by Kinesis for Flow Systems, 8 September 2020, p 4

⁶² Flow Systems, *Complaints and Dispute Resolution Policy*, revision 4, 14 March 2018.

⁶³ Flow Systems, *Missed Payments,* version 1.

- Incident Management Plan: The plan addresses continuity of service during interruptions due to incidents or operational problems, including interruptions to nonpotable water supply and disruptions to the customer centre.⁶⁴
- Compliance management procedure: which describes at a high level the compliance management within Flow Systems' organisation.⁶⁵
- Technical performance and previous retail experience: Flow Systems has experience in the Australian water industry, preparing and implementing retail systems and procedures at existing operational schemes, including at Box Hill North.⁶⁶ Flow Systems will continue to use the same systems, procedures and resources to supply its intended non-potable water customers under a varied licence at the Box Hill North Scheme.⁶⁷
- Compliance history. Flow Systems' RSMP was last audited in August 2016. The audit report on the RSMP provided to IPART did not find any non-compliances or any opportunities for improvement.⁶⁸

B.3 Evidence of financial capacity with respect to the network operator and retail supplier licence applications

From our assessment, we consider that both FSO and Flow Systems have the relevant financial capacity to carry out the activities that the varied licences (if granted) would authorise.

We have reviewed information provided by Flow Systems regarding the changed ownership structure for the Flow Systems group.⁶⁹ We conclude that FSO (the applicant for the network operator licence) and Flow Systems (the applicant for the retail supply licence) have, and will continue to have, financial capacity to carry out the activities that would be carried out under the respective licences for the Box Hill North scheme through the new ownership structure. We considered:

- The Flow Systems group's owners include large superannuation and sovereign wealth funds that injected equity into the Flow Systems business and imposed increased financial reporting on Flow Systems.
- An agreement facilitating the funding of the day-to-day operations of FSO and Flow Systems.
- The Flow Systems group has improving levels of solvency (i.e. Net Assets) and working capital.
- Flow Systems' financial forecasts indicate profitability for the Flow Systems group and individual schemes.

⁶⁴ Flow Systems, *Incident Management Plan*, revision 8, 30 December 2018.

⁶⁵ Flow Systems, Compliance Management Policy and Procedure, revision 3, 29 August 2017.

⁶⁶ Existing operational schemes are Box Hill North, Central Park, Discovery Point, Green Square, Huntlee, North Cooranbong, Pitt Town, Shepherds Bay and Wyee schemes.

⁶⁷ The RSMP, codes and compliance procedures are standard documents that apply across all of Flow Systems' schemes.

Water Futures, *Report on the Retail Supply Management Plan Audit of Flow Systems*, Final Report (revision 1), 5 August 2016.

⁶⁹ Information provided includes copies of a Securityholder's Agreement, Subscription Agreement and a Trust Deed for the applicant's holding company, A Directors' Declaration, replies to our formal requests for information and informal correspondence with the applicant.

Further confidential information relating to financial capacity of the licensees is included in the Briefing to the Minister accompanying this report.

B.4 Evidence of organisational capacity with respect to the network operator and retail supplier licence applications

From our assessment, we consider that both FSO and Flow Systems have the relevant organisational capacity to carry out the activities that the varied licences (if granted) would authorise.

- Organisational structure: Flow Systems owns and manages its subsidiaries, including FSO. Flow Systems and FSO manage third parties to deliver the proposed works based on contractual arrangements and agreements.⁷⁰
- Organisational chart: key personnel for areas such as business development, project delivery, operations, retail, finance technology, legal, risk and compliance are shared across the subsidiaries as required.⁷¹
- An outline of the experience of key personnel: namely the Directors, Chief Executive Officer, Executive Manager Project Delivery, Executive Manager Scheme Operations and Executive Manager Risk and Compliance, which match the role descriptions.⁷²
- Key personnel curricula vitae: which outlines relevant experience in the water industry and specific personnel nominated to the Box Hill North scheme.⁷³

B.5 Capacity to carry out those activities in a manner that does not present a risk to public health with respect to the network operator and retail supplier licence applications

From our assessment, we consider that both FSO and Flow Systems have the capacity to carry out the activities that the varied licences (if granted) would authorise in a manner that does not present a risk to public health.

Risk management method: We reviewed FSO/Flow Systems' risk assessment, including Flow Systems' proposed management of end uses for Tier 3 customers. We consider that FSO and Flow Systems have demonstrated capacity to identify and manage key hazards and risks related to non-potable water components of an amended scheme, to acceptable levels of risk, and would have in place reasonable control and mitigation measures as discussed in Chapters 4.3 and 5 of this report.⁷⁴

⁷⁰ Flow Systems Operations Ownership Structure, as at 20 May 2019.

⁷¹ We consider the slight changes to organisational chart from the application package that was consulted on does not impact our assessment that FSO has organisational capacity. Flow Systems Organisational Chart, 20 May 2019.

⁷² Appendix A3(c) *Biographies and Position Descriptions* of the Network Operator and Retail Supplier Licence Applications.

⁷³ ibid

⁷⁴ Flow Systems, Box Hill Scheme Risk Register, 20 October 2020. End use by Tier 3 customers is considered at Risk ID RI 1.7b.

- Source water quality: FSO will continue to source non-potable water from the licensed Box Hill North recycled water treatment plant. Drinking water top-up for the recycled water network would be sourced from Sydney Water as per the existing scheme.
- Fit for purpose recycled water quality: FSO operates water industry infrastructure at the Box Hill North scheme under its existing licence. FSO and Flow Systems have demonstrated its capacity to treat sewage and provide fit for purpose non-potable water, consistent with the requirements of the AGWR, at its licensed schemes. We consider that FSO is likely to need to further revise its risk assessment with NSW Health to adequately manage risks posed by the proposed activities including new end-uses under the varied licence.
- Cross connection mitigation measures: FSO has identified appropriate controls to ensure the risks of cross connections are minimised. In addition, FSO will continue to conduct quality assurance inspections of non-potable water connections prior to commercial operation of new infrastructure and would follow a specific notification protocol in the case of possible cross connection incidents.
- Non-potable water supply interruption: Any temporary interruption to the provision of non-potable water at the treatment plant should pose a limited risk to public health because drinking water top-up for non-potable water is available from Sydney Water. In situations of financial hardship, (i.e. where a customer does not pay its water bill), FSO would continue to provide non-potable water at a reasonable flow for basic health and hygiene purposes. Flow Systems, as the retail supplier, would give reasonable notice to its customers if it intended to restrict supply.

B.6 Appropriate arrangements with respect to insurance for the network operator and retail supplier licence applications

From our assessment, we consider that both FSO and Flow Systems have appropriate insurance arrangements.

- Insurance information for Flow Systems and all its subsidiaries (including FSO) was provided:
 - Insurance certificates of currency FSO and Flow Systems are named on each relevant insurance certificate
 - Contract works and legal liability insurance policy
 - Industrial special risk insurance policy
 - Insurance expert report detailing the following insurances:
 - Workers compensation
 - Contractors pollution liability
 - Industrial special risks
 - Combined public and products liability and professional indemnity
 - Contract works
 - Cyber risk
 - General business
 - Management liability
 - Portable equipment property.

We note that Flow Systems also holds other insurances including construction insurance, contractors' pollution insurance, equipment insurance and cyber enterprise risk management insurance.

- icare review: We sought advice from the NSW government-owned insurance provider icare which concluded that FSO and Flow Systems have appropriate and adequate insurance cover for the proposed licensed activities. As part of its review, icare examined:
 - FSO's and Flow Systems' proposal under the varied licences
 - The scheme risk assessment
 - Insurance coverage details, certificates of currency and the insurance policies listed above
 - A Deed of Guarantee and Indemnity between FSO and its Guarantor, Flow Systems⁷⁵
 - Insurance expert's report.⁷⁶

⁷⁵ Dated 17 June 2016.

⁷⁶ Prepared by Arthur J. Gallagher & Co. (Aus) Limited, 30 July 2019.

C Flow Systems Operations' ownership structure and related licensees

| Subsidiary | Scheme | Network operator licence | Licensed for | | |
|---------------------------------------|--|--------------------------------|-----------------|-----------------|----|
| | | | DW ^a | NP ^b | S℃ |
| Pitt Town Water Pty Ltd | Pitt Town scheme, Pitt Town, Sydney | 10_014 | | √ | √ |
| Central Park Water Factory Pty Ltd | Central Park development, Chippendale, Sydney | 12_022 | \checkmark | √ | √ |
| Discovery Point Water Pty Ltd | Discovery Point development, Wolli Creek, Sydney | 13_025 | ✓ | √ | √ |
| Wyee Water Pty Ltd | Wyee residential scheme, Wyee, Lake Macquarie | 14_026 | ~ | √ | ✓ |
| Huntlee Water Pty Ltd | Huntlee residential scheme, North Rothbury, Hunter Valley | 15_030 | \checkmark | √ | √ |
| Green Square Water Pty Ltd | Green Square Town Centre, Sydney | 15_031 | | √ | |
| Cooranbong Water Pty Ltd | Cooranbong residential development, Cooranbong, Lake Macquarie | 15_033 | ~ | √ | ✓ |
| Flow Systems Operations Pty Ltd | Box Hill North residential development, The Hills Shire Council | 16_037 | | √ | ✓ |
| Flow Systems Operations Pty Ltd | Shepherds Bay development, Meadowbank, City of Ryde Council | 17_042 | \checkmark | √ | √ |
| Flow Systems Operations Pty Ltd | Glossodia development, the Hawkesbury City Council. | 19_043 | | √ | √ |

Table C.1 Flow Systems' subsidiaries and their licensed schemes

a. Drinking water infrastructure

b. Non-potable water infrastructure

c. Sewerage infrastructure


Figure C.1 Flow Systems group ownership structure

Note: As Trustee Corporation SCI has direct control over SCIT. Data source: Letters from Flow Systems to IPART, 6 August 2019 and 28 January 2020.

D Summary of submissions

 Table D.1
 Summary of submissions for FSO's and Flow Systems' applications to vary their network operator and retail supplier licences for the Box Hill North scheme

| Agency | Summary of submission | Our response | |
|------------|--|--|--|
| NSW Health | | | |
| 1. | NSW Health requested that all new end-uses are subject to a risk assessment to ensure that risks are appropriately managed. NSW Health noted that "an exposure assessment is necessary" to determine log reduction values for end- uses that are not considered in the AGWR. | Flow Systems is currently liaising with NSW Health to amend its risk assessment for the scheme. | |
| | NSW Health also noted that Flow Systems' should update its risk methodology prior to conducting new risk workshops related to the scheme. The updates should address NSW Health's and IPART's feedback on previous risk assessments. | | |
| 2. | NSW Health recommended that Flow Systems' customers and other end-users of recycled water are made aware of, and agree to, any requirements to manage the risk. | We agree. Under Schedule 2, clause 9 of the WIC Regulation, Flow Systems must inform customers of the authorised purposes of non-potable water and must not supply non-potable water for any other purpose. | |
| | | In addition, Flow Systems is required to update its water quality plans to include controls to manage the risk to end-users. Audits will assess the adequacy and implementation of the controls. | |
| 3. | NSW Health requested that Flow Systems review the risk assessments in consultation with relevant stakeholders including NSW Health, IPART and EPA. NSW Health expects an invitation to attend risk assessments. NSW Health requests that the management plans and incident notification protocols for sewage and recycled water are updated if details of the scheme change. | Our current practices would ensure that FSO consult with NSW Health and the EPA as relevant stakeholders at various stages during the development and auditing of FSO's management plans and incident notification protocols. | |
| | | Standard licence condition (Schedule B, clause 4.1) ⁷⁷ requires FSO to comply with requirements of NSW Health. The existing direction from NSW Health requires FSO to consult with NSW Health during the development of all documents identified. ⁷⁸ | |

⁷⁷ Schedule B, clause 3.1 of the proposed network operator licence.

⁷⁸ Letter to Flow Systems Operations Pty Ltd from IPART, Notification of NSW Health Requirements under Licence Clause B4, 7 December 2017.

| Agency | Summary of submission | Our response |
|--------|---|---|
| 4. | NSW Health considers that IPART's audit process would confirm adequacy and compliance of the recycled water management plan against the AGWR. | For the proposed additional non-potable water reticulation: FSO would be required to undertake periodic operational audit of the scheme. The operational audit would check the implementation of licence plans against requirements of the AGWR. |
| | | For already licensed infrastructure with the proposed new end-uses: FSO must notify us of its proposal to supply non-potable water for new end-uses at least three months before commencing such operation (Schedule B, clause 11.1 of the existing network operator licence ⁷⁹). |
| | | FSO is required to update its water quality plan and associated risk assessment to adequately identify risks and controls related to the new end-uses. We consider that the plan will need to be audited for adequacy, as this is a significant change to the plan. Implementation of the updated plan will be audited as part of operational audits of the scheme. |
| 5. | NSW Health noted that a licence under the WIC Act does not automatically exempt FSO from the requirement to develop and adhere to a drinking water management system under the <i>Public Health Act 2010</i> and <i>Public Health Regulation 2012</i> . | Drinking water is not being supplied by Flow Systems at the Box Hill North scheme. However, we note that Flow Systems and FSO may be subject to additional requirements under legislation administered by NSW Health. We expect Flow Systems and FSO to liaise with NSW Health to understand its obligations. |

⁷⁹ Schedule B, clause 9.1 of the proposed network operator licence.

| Agency | Summary of submission | Our response |
|--|---|--|
| The Hills | Shire City Council (Council) | |
| 6. | As part of Council's planning proposal assessment, the Council required Flow Systems to demonstrate that the water management facility would have capacity to accommodate the anticipated demand by all future development within the Precinct, including land not controlled by the major developer. The Council noted that the existing RSL does not apply to a number of properties along Red Gables Road / Janpieter Road. | The properties identified in Council's submission as 'not within Flow Systems' Service Agreement' are included in Flow Systems existing retail supplier licence area of operations for sewerage and recycled water services. Flow Systems responded to Council's submission, noting that ⁸⁰ : |
| The Council recommended that Flow Systems be required to include these additional properties within the RSL area (for both recycled water and sewerage services) to reflect Flow Systems' commitment to reasonably service these properties within a timely manner. | The properties identified are included in its retail supplier licence It is committed to servicing the land within the residential-zoned Box Hill North urban release area when capacity becomes available. The scope of Flow Systems' 2019 application to vary its retail supplier licence area of operations beyond the residential-zoned urban release area is to permit recycled water services only, and only at times where excess recycled water is available. | |

⁸⁰ Letter from Flow Systems to the Hills Shire Council, 19 May 2019.

| Agency | Summary of submission | Our response |
|----------|---|---|
| 7. | The Council noted that the proposal from Flow Systems appears to be a short term solution to removing excess treated water from the overall system. It does not take into account potential future growth in the area and lots that may require services should they be released in the future. The proposed inclusion of an additional 38 lots would remove the need for Flow Systems to dispose of this excess water through other means without these additional lots gaining the benefit of a sewerage treatment system. The Council identified a potential growth area (land that adjoins the Box Hill North precinct to the west) that may be suitable to accommodate future urban development. The Council recommended that any infrastructure extension of the retail supplier licence consider these potential future residences that may require access to both water and sewerage in the future. | Noted. The merits of the proposed variation have been considered in this Report. IPART has not received an application for Flow Systems to service the new growth area identified in Council's submission and is unable to accommodate Council's request to consider potential future residences in the current licence application assessment. Flow Systems responded to Council's submission, noting that⁸¹: The recent drought conditions showed that reliance on drinking water for non-potable uses is inefficient and short-sighted. Flow Systems wishes to extend the benefits of non-potable water to as many customers as possible in and around its schemes. The current Flow Systems' local water centre site will not be large enough to service any development outside of the existing residential-zoned land, however given the flexibility and decentralised nature of Flow Systems would be happy to review any proposed development plans for the surrounding RU6-zoned land and offer alternative servicing strategies for wastewater, water or energy services. |
| 8. | The Council noted that the map provided by IPART for consultation appears to contain inaccuracies where properties outside of the Box Hill North Precinct south of Old Pitt Town Road have been identified as within the 'existing' licence area. | The area of operations in the existing licence was amended post- consultation during the granting of that licence. It includes lots south of Old Pitt Town Road. We understand that it is difficult to identify the actual area of operations from a long list of lot and DP numbers in the existing licence. We are now using maps and coordinates to define the area of operations in the licence to improve clarity. |
| Departme | ent of Planning, Industry and Environment (DPIE) | |
| 9. | DPIE confirmed that it found no record of enforcement action undertaken or carried out against FSO or Flow Systems under the EP&A Act. | Noted. |
| 10. | DPIE is unaware of any unacceptable risks to the environment posed by the activities to be licensed. | Noted. |
| 11. | DPIE does not recommend any licence conditions in relation to protection of the environment. | Noted. We have not included any additional licence conditions related to the protection of the environment. |

⁸¹ Ibid.

| Agency | Summary of submission | Our response |
|--------------|--|--|
| Environn | nent Protection Agency (EPA) | |
| 12. | EPA is not aware of any breaches of the <i>Protection of Environment Operations Act 1997</i> (POEO Act) and has not taken any regulatory action against FSO or Flow Systems. | Noted. |
| 13. | EPA considered that FSO does not require an environment protection licence (EPL) under the POEO Act, on the understanding that the proposed variations do not alter current waste disposal methods at the Box Hill North scheme to include discharge to waters or lands. Therefore the current situation remains | Noted. EPA did not recommend any conditions relating to the environment to be included in the network operator licence. We have not included any |
| | unchanged and EPLs are not required. | additional licence conditions related to the protection of the environment. |
| 14. | EPA noted that it is the responsibility of the proponent to ensure that all relevant environmental legislation is complied with. | Noted. |
| 15. | EPA noted that IPART should not duplicate legislated environmental requirements. | Noted. |
| Sydney Water | | |

| Agency | Summary of submission | Our response |
|--------|--|--|
| 16. | Sydney Water supports measures that help to reduce the demand for drinking water, subject to: | Noted. |
| | Conditions may be needed to assure public health, safety and environmental outcomes (as determined by NSW Health, WorkCover and the Environment Protection Authority). | We consider that no additional licence conditions are required. NSW Health, in its submission, did not recommend additional licence conditions. |
| | Consistent definitions being used across licences for the same permitted uses. An assessment of impacts on the overall water balance for each scheme, including changes to the supply of drinking water for top-up. | Conditions of network operator licences prescribed in the WIC Regulation address issues of a safe and reliable network, environmental protection and require that water quality plans consistent with AGWR be developed and implemented. |
| | | The current FSO licence has a licence condition requiring it to comply wit NSW Health's' requirements that IPART has agreed to and are notified to the Licensee. |
| | | We consider consistency across licences whenever we receive a licence variation application. We have attempted to ensure that the definitions used across Flow Systems' and its subsidiaries' licences are consistent. For example, the licences refer to "ornamental water features" rather than simply "water features" to reduce ambiguity about non-potable water use. |
| | | We have had regard to FSO's water balance report ⁸² for the scheme tha includes sensitivity analysis, assessed impacts on drinking water top-up and project staging analysis. |

⁸² Box Hill North Water Balance Report, prepared by Kinesis for Flow Systems, 8 September 2020.

| Agency | Summary of submission | Our response |
|--------|---|--|
| 17. | Sydney Water has stated its strong preference that all WIC Act licence holders be required to develop a Code of Conduct (CoC) with any other utility that provides services to or within their area of operations, regardless of whether there is a direct interconnection of infrastructure. As a minimum, the CoC should cover matters such as: Data sharing (for example, water quality) Incident management Customer communication and complaint protocols | Noted. FSO is required to establish a CoC in accordance with clause B10 of its current network operator licence for interconnections, if the Minister has not already established a CoC under clause 25 of the WIC Regulation. There is no requirement for a CoC where services are provided within the area of operations but there is no interconnection. |
| | How the risk of cross connections will be managed/mitigated. | As this raises a broader issue that affects all licences and is not related to the variation being sought, we have not sought to address this issue through the licence variation process. We will however consider this issue as part of the next re-make of the WIC Regulation. We intend to consult further with Sydney Water and WIC Act licensees on the issues raised as part of that process. |
| 18. | Sydney Water would welcome the opportunity to work with Flow Systems to ensure the safety of customers is prioritised, including better understanding Flow Systems' approach to communicating with recycled water customers during drought. | Noted. We sought clarification from Flow Systems and note that Sydney Water has endorsed the drinking water top-up at maximum day demand at various stages of the scheme. ⁸³ We encourage Sydney Water to discuss |
| | Sydney Water noted that while historically recycled water has been exempted from water restrictions, demand for recycled water in extended dry periods typically exceeds the available supply requiring significant volumes of drinking water top-up. This may compromise pressure and flow in Sydney Water's drinking water system which may lead to poor service outcomes for customers and could also present public safety risk to the community during incidents (for example, during bushfires). | the terms of provision of top-up potable water supply, during extended dry periods, with the landowner of the local water centre which is a customer of Sydney Water. |
| | | If necessary, the Minister has the capacity to impose restrictions on recycled water use. FSO proposes to impose non-potable water restrictions in dry summer months to Tier 3 non-residential irrigation customers under non-standard customer contracts. We consider that this is a more appropriate and flexible mechanism than specific licence clauses which are not able to be updated dynamically in response to wet/dry periods. |

⁸³ Flow Systems' response to our request for information, item 35, 29 May 2020, p 6.

| Agency | Summary of submission | Our response |
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| 19. | Sydney Water considered that the proposed expansion of the Box Hill North scheme may not represent a sustainable use of water resources. Sydney Water noted that Flow Systems' water balance for the expanded area does not affect wastewater collection, and so does not change the level of recycled water available. This means some demand will be met through Sydney Water providing additional drinking water to top-up Flow Systems' recycled water facility. Sydney Water considered Flow Systems' servicing strategy does not adequately reflect the water balance for the area resulting in excess volumes of recycled water at various times of the year. | Flow Systems has provided an updated water balance report ⁸⁴ for the scheme that includes sensitivity analysis, drinking water top-up usage and project staging analysis. Flow relies on drinking water top-up supply from Sydney Water to meet demand but does not intend to impose additional demands to what has already been agreed. Instead Flow is proposing a tiered customer water servicing strategy to ensure it has adequate supply and disposal mechanisms. Refer to Section 4.3.1 licensing criterion (f) of this report for more detail. |
| 20. | Sydney Water considered that the updated water balance report provides limited evidence to explain or justify the updated assumptions. Sydney Water noted that the original water balance (submitted as part of the original licence application in 2015) assumed significantly higher residential potable water and recycled water demand despite more residential dwellings and a larger area in this variation application. Sydney Water considered extensive tanker movements may be required to dispose of excess sewage / recycled water, and Sydney Water's potable water top-up capacity will need to be sized to meet peak day demand. There may be little or no capacity reduction in other water industry infrastructure due to the servicing strategy for this scheme. | Noted. Flow Systems has provided an updated water balance report ⁸⁵ for the scheme that includes sensitivity analysis, drinking water top-up usage and project staging analysis. Flow is proposing a tiered customer water servicing strategy to ensure it has adequate supply and disposal mechanisms. Refer to Section 4.3.1 licensing criterion (f) of this report for more detail. |
| Individua | al | |
| 21. | An individual submission by a member of public requested the retail licence variation application be rejected on the following grounds: | Noted. |
| | Flow Systems are refusing to supply sewer and recycled water services to landholders currently on their licence. The Minister has written to Flow Systems stating that they are in breach of their licence (a letter from the Department of Planning and Environment to the individual, dated 18 June 2019 was attached to the submission). The Hills Shire Council also has similar concerns as set out above. | In July 2019, Flow Systems wrote to DPIE in response to the Minister's view on licence contravention and provided their reasons as to why they are not in breach of their current licence. ⁸⁶ DPIE is currently considering the servicing of lots owned by the individual. We will cooperate and support DPIE in dealing with this matter. |

⁸⁴ Box Hill North Water Balance Report, prepared by Kinesis for Flow Systems, 8 September 2020.

⁸⁵ Ibid.

⁸⁶ Letter from Flow Systems to the Deputy Secretary, Metropolitan and Regional Water, Department of Planning and Environment, 3 July 2019.

E Assessment of FSO's EIA Checklist

E.1 Purpose

FSO has submitted an application under the WIC Act for a variation of their current network operator licence (licence number 16_037).

FSO prepared an Environmental Impact Assessment (EIA) Checklist⁸⁷ for the proposed activities to satisfy the legal requirements under Part 5 of the EP&A Act and clause 7 of the WIC Regulation.

We assessed the adequacy of the EIA Checklist, in particular by identifying and assessing the potential environmental impacts of the proposed variation, to determine whether adequate consideration has been given to the environment and whether the proposed variation should be approved under Part 5 of the EP&A Act.

To assess whether the EIA Checklist is sufficient to allow the Minister to make a determination under Part 5 of the EP&A Act, we have reviewed the EIA Checklist against the following provisions:

- Sections 5.5 and 5.7 of the EP&A Act
- Clause 228 of the Environmental Planning and Assessment Regulation 2000 (NSW)
- Section 7(1)(a) and section 10(4)(e) of the WIC Act
- Clause 7 of the WIC Regulation.

We have also assessed whether other relevant requirements have been identified and considered in the EIA Checklist, including:

- Other relevant provisions relating to NSW legislation (such as the *Biodiversity Conservation Act* 2016 (BC Act) and the *National Parks and Wildlife Act* 1974)
- Relevant provisions relating to Commonwealth legislation (including the *Environment Protection and Biodiversity Conservation Act* 1999 (EPBC Act))
- Environmental guidance and good practice relating to construction and operation (such as the NSW Interim Construction Noise Guideline 2009)

⁸⁷ Flow Systems, Box Hill – extension of recycled water reticulation, Environmental Impact Assessment Checklist, 6 October 2020.

E.2 Proposal

FSO proposes to modify the Box Hill North non-potable water scheme to construct and operate a pipeline to service Lot 17 DP 752047 on Janpieter Road. The proposed works assessed in the EIA Checklist include the following:

- Construction, operation and maintenance of a non-potable water pipeline to provide non-potable to Lot 17 DP 752047. The proposed pipeline is approximately 25mm in diameter and 250m in length at a shallow depth.
- Construction activities to be confined in the Janpieter Road corridor, within a six metre buffer east of the lot boundary of Janpieter Road and Lot 8 DP 75204, in the cleared, grassed area of the Janpieter Road corridor.

The proposed works is estimated to take 5 days to complete.

E.3 Findings

The EIA Checklist provides sufficient information on the construction and operational activities of the proposed variation to enable us to examine and take into account to the fullest extent possible all matters affecting or likely to affect the environment.

The key issues found through our assessment are:

- The EIA Checklist clearly articulates the scope of the proposed modification FSO assess. The scope of work is to include a non-potable pipeline to provide non-potable to Lot 17 DP 752047. Section 3.3 of the EIA Checklist provides detailed descriptions for the proposed modification.
- Environmental impacts of the proposed extended area of operations have been assessed and are expected to be minor and consistent with the impacts described in the EIA Checklist. Environmental impacts are temporary in nature and mitigation measures have been identified in keeping with standard construction practices.
- ▼ It is unlikely that the proposed activity will have significant impacts on threatened species, populations and ecological communities listed pursuant to the BC Act, the *Fisheries Management Act 1994* or impact on matters of national environmental significance pursuant to the EPBC Act.

E.4 Conclusion

The EIA Checklist has:

- 1. Examined and taken into account relevant Commonwealth and NSW legislation and policies.
- 2. Examined and taken into account to the fullest extent possible all matters affecting or likely to affect the environment by reason of the proposed activity. Identified environmental impacts are within acceptable parameters, provided the mitigation measures outlined in the EIA Checklist are effectively implemented.

3. Been prepared in accordance with Part 5 Division 5.1 of the EP&A Act. FSO have concluded that the proposed activity is unlikely to significantly affect the environment and hence an EIS is not required to be prepared. The proposed activity is also unlikely to affect Commonwealth land or have an impact on any matters of national environmental significance.

We therefore consider that the EIA Checklist meets the requirements for determination under Part 5 Division 5.1 of the EP&A Act and has taken into account to the fullest extent possible all matters affecting or likely to affect the environment associated with the proposed scope of work that is the subject of the variation application for the Box Hill North scheme.