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| State of the Network |
| Enhancements to the Victorian Survey Control Network and Victorian Levelling Network during 2020-2021 |

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During the 2020-2021 financial year, the Surveyor-General Victoria (SGV) Geodesy section continued to extend and enhance the Victorian Survey Control Network (SCN) and Victorian Levelling Network (VLN). This involved planning and performing Global Navigation and Satellite System (GNSS) and levelling surveys in-house and receiving data from other private and government surveyors. Internal and externally submitted GNSS and levelling data is processed and adjusted to derive accurate GDA2020 coordinate and AHD height information for permanent marks, which is then made available through the Survey Marks Enquiry Service (SMES). This report highlights Victorian SCN and VLN enhancement activity and outcomes over the past 12 months.

## Internal surveys

We completed 26 surveys this year, 85 per cent of which were requested by surveyors and spatial professionals outside SGV Geodesy. This included 10 GNSS surveys to support the capture of aerial LiDAR data across the state, and three GNSS surveys to integrate new GPSnet stations into the Victorian SCN. We visited approximately 400 existing Permanent Marks (PMs) across the state and constructed 38 new PMs. Notably, 12 new High Stability Marks (HSMs) were constructed along the Murray River to support the Victorian Murray Floodplain Restoration Project (VMFRP).

## External surveys

SGV Geodesy processed 54 GNSS and/or levelling data submissions from 25 surveyors. Improvements were made to enhance processing of short-duration multi-GNSS data submissions through Leica Infinity software, complementing the current processing workflow in Trimble Business Center. Through the processing of this submitted data, improved horizontal coordinates were supplied for 91 existing SCN marks and 106 new SCN marks.

We worked with the Victorian Department of Transport (DoT) survey section to support infrastructure projects across Victoria. Two notable examples were the Western Port Highway Upgrade and the Suburban Rail Loop. SGV Geodesy worked closely with DoT surveyors to provide high-quality height information along the length of these projects.

Most surveys submitted

Jacobs: 13 submissions with GNSS data for 76 PMs

Most survey data submitted

Department of Transport (VicRoads): 7 submissions with GNSS data for 41 PMs and 2-way levelling for 112 PMs

## Survey Control Network adjustment

All internal and external GNSS survey data processed is added to the Victorian SCN adjustment. This data is supplied to Geoscience Australia each month and is combined with data from all other states and territories in the National GDA2020 adjustment. GDA2020 horizontal coordinates from this adjustment are published through the SMES. The timeframe for routine updates to published information in SMES has also been reduced, resulting in coordinates being available in SMES within one month of submission. Below are the changes over the last 12 months to the number and quality of marks in the Victorian SCN adjustment:

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| Positional Uncertainty | June 2020 | June 2021 | Change |
| 0m – 0.01m | 4,358 | 4,654 | +296 |
| 0.01m – 0.02m | 6,614 | 6,977 | +363 |
| 0.02m – 0.05m | 22,923 | 22,903 | -20 |
| 0.05m – 0.1m | 7,673 | 7,591 | -82 |
| >0.1m | 2,750 | 2,662 | -88 |
| Total Stations | 44,318 | 44,787 | +469 |

By adding new high-quality GNSS data to the adjustment, improvements are made to the quality of SCN marks previously adjusted using older GNSS and terrestrial measurements. This generally results in a shift of the SCN mark coordinates. Where this shift is greater than 5mm, the new coordinates are published to SMES. Over the past 12 months, more than 2,800 SCN marks have had new coordinates published through this process; the shifts are seen below:

![Map

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4REWRXhpZgAATU0AKgAAAAgABAE7AAIAAAAZAAAISodpAAQAAAABAAAIZJydAAEAAAAyAAAQ3OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEpvc2ggSSBCYXRjaGVsb3IgKERFTFdQKQAAAAWQAwACAAAAFAAAELKQBAACAAAAFAAAEMaSkQACAAAAAzkwAACSkgACAAAAAzkwAADqHAAHAAAIDAAACKYAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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duHoQaunPkmp9mn9xpG0HdnlfwNi+0Wuqibc0cUsbKCPlLEN/gK9frL0Tw7pvh1LmPSIPIjuZfNdAxKg4A49Bx0rUq69X21WVS1rtv7yZy5mFFFFYkBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABUFzaJcqD92RfuuOoqeigabTuiil5JbN5d8PpKBwfrVxJUkGUdWHsaVlV1wwBHoRVV9Nt2JKhoyf7jYoLvF76FvNFZk0H2CSKZJZWXdhg7Z4rToJlG2qGTLuhbAyQMj6jpU1tIBIjZ4PemVHBwGH91jxSkrqzBO2p1TykW263AkIHAFYEtxKs7sGZGzzg4q2NV8pSsMIHHUmsu5lMhbJzJJ2rmo0mneSOmtUU7KLLFvLEt3JcyxrLJLGI2ducqMkfzrXsblIoRHIcD+Fs5BFc6EMIBjGV7r/AIVYgmIwyNx2qqlO8XykQquLuy9qzo7p5TAqByB2NZ4BPSpnLNu3HlutNAwMVzRxSjT8wnHmncFGBioZXCBmPQelT1E4BJxyKrCzcpyb6kzVkiuzeZguMR+h6tTkMQYAIEPbK4pkIAuZF6hMbR6Zqd0Dpg9+/pXeS7LQWio0dgwSUc9mHQ1JQQ1YbJIsUZeQ7VHUmqLvLqJ2RZjt/wCJz1ard1EJrWRD3U4+tMsH8yyjJ6gYNBcdI83UmjjWKMJGNqqOBTqKKDMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCKe1iuB+8Xnsw6iqwgvLfiGVZU7K/X86vUUFqbSsUhd3a8SWbZ/2TmnwXolmMUqGKTsrd6tVBdWq3KjJ2uv3XHUUDvF6NE9FURdzWvy3sZIHSRBwanS8t5B8sq/TNAnCSJ6KiN1AOsq/nULajDkLEfNY9AtAlGT6FmWRYYy8hwo6mqISbUPmkJigzwo6tTlt5ruQSXnyoDlYh/WrwGBgUFXUNtxscaRRhI1CqOwp1FFBmFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFe+iM1m6r94DI+tOtJhPaxuO4wfrU1Z+Tp92c/wDHvMc5/utQaR96PKaFMaMltyHa3f3p4ORkdKKCNiPZI33nwP8AZpyRqnTqepPenUUBdhUduP3Q7Ekk/WpKjh6MemWNAdCypytLTA2DxnFPryMTTcZ83Rm8HdWEY4Wqzu3miNcDIzk1ZIyMVWnGIyR1U5FdWEa5LLcmfxDWTygHXkj73uKmBBGRyKOtR+SmeMj2BwK7TO99wkO6RFHUHJ9hUlIqKgwgA+lLQJiOcIxPTFZ+nXMEVmBJMincTgtWiRkEHoarrYWq9IE/EUFRcbNMel1BIcJMhPoGFS1XewtXHMKj3AxUBtp7T5rVy6DrGxz+VA7RezL9FQ21ylzHleGHDKeoqaghpp2YUUUUCCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooACMjB5FQvZ27nLQoT9KmooGm1sQCxtR0gT8qlSJIxiNFX6DFOooByb3YUUUUCCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKa6LIhVxkGnUUAUPKurInyP38X9xjyPoaeupxdJVeM99y1cpCqt94A/UUGnMn8SK66hbO6qr8scDirNUtRiUWm9FAMbBuBVuN98asP4gDQKSVrodTLbAiUHnb8p/Cn1ET5LnP3GOc+hoJW1iZgAxx0zUi/d4qKnbsE7elYV6bqR5UVGVncc5wODVeZ93yLyzfpUrN3NV4ZY9pYuoZjnGeR6U6VP2cFFjvd3JwMACigMGGVII9RRWxmFFFFABRTXcIPUk4AHem/vj3Vf1oHYkoqMM6MBJghujAY5qSgLFC8Q2sovIR0OJFHcVeVg6hl5BGRSSIJI2RujDBqtpjlrFQ3VCVoLfvRv2LdFFFBmFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAI6CSNkbowxVOwkMZa0l4eM/LnutXarXdp5+2SM7Jk+6w/lQXFq3KyzQRkYPSqtrdmQmKcbJl6j19xVqglpxdmV2hlUnypcL2U9qdFHI6rulIJ/KpqiG6LjaWXtjqKCuZtC+U//AD1am+Qf+eh/KlJlflPkA9e9HnE8CNt3p2/OgPeGiMwyqQxIc4I/r+lT1Gqszh5OMdFHapKBSdwooooJIZFL3CAMVwpPH4VIYMQhvPbcT930pHQkhk4Zf19qTfJ/zz5/3qRabsRvGwaP94T8w4NWKYkZDbnO5v0FPpibuFZun3UMULiVwhLn73FaVMeGKQfvI1b6jNA4tJNMjF7bMcCePP8AvVOCGGVOR7VAbG1Ix9nj/BRULacIyWs5Ghb0zlT+FAWg+pdoqpBeOJfIu12Sdj2ardBLi1uFFFFAgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKbJIsUZeQ4UdTQA6o3uIY/vyKp9M1UBuL/lSYIOx/iapo9Pt4+fL3N/ebk0GnLFfExRf2p6TLTf7StecS5x6A1KbaE9Yl/KniKMDARfyoF7nmRR31tLwky59+KnqGS0glGHjX6gVVaKex+eAmWEdUPUD2oHyxlsaFFMhmS4iEkZyDT6DN6BRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAV7q0W4AIJSRfuuOoptlctKpjm4mjOGHr71aqrdWhkYSwNsmXofX2NBommuVlqiq1pctPvSVdksZww/rVmghpp2ZHISWVAcbjyRSmFNuAMH1B5okQtgr95TkZpC8h4ERB9SRigettBYmLJ83UHBpXcrgKMs3QUg2wxjcf/rmonmUSI5DBehJUgCgaV2SbZQM71J9NvBpyPvQMOPb0oMqKuSw9sHrSRAhMtwSScelAumo+iiigkKKKKACioyzO5VDgDqcUbZR91wfYigdiSioz5q85D+2MU9WDqGHQ0BYiurZbmEo3B/hb0NR2M7SxmOb/Wxna3v71aqjP5lrem4SNnjZcPt60Fx95cpeoqrHqVrIcCUKfRhirQORkcighxa3CiiigQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVQn/0nUkt3/wBWg3Ef3jRRQaQ6svgYGB0ooooMwooooAKKKKAMyV/sF+PK5SY8p6GtMdKKKDWfwphRRRQZBRRRQAUUUUAFFFFABRRRQAUkjiKCSUjdsUtjOM0UULca3IrO6F5HIRH5ZTH8Wc1NRRTkrOwMKKKKQiG8uhZwo/l+YXOMbsYqzEomtkmGV3puxnOKKKbXuplpDKWiikQPjVZTKMbfLkKdevAOf1phGCRRRSLkhKKKKZBQnP2fVInT/lsNrD6d6v0UUGktkwooooMyNBvmdm/hO0e1SsMY75FFFBTIIUVZJFAHynipqKKAluFFFFBJHNIY0yBk+9M85g4BwQaKKRrFKw+D/V7u7Ek1eMSOFwNuFGcd6KKyqycY3QRScncrHg49Kig/1f4miitVsR0JKKKKZJHJBFMuJEVh7is+YNpjqYHJjY4MbdKKKDWm25cr2EF3PeTmNX8lQcfL1/OrH9lwt/rWkc+paiiguo3B2joH9mpHzDLJHg54aq6X00F0IZCJVJ6kYIoooCn791I1Qciiiig5wooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/9k=)

Figure 1 – GDA2020 horizontal coordinate shifts across existing SCN stations in FY2020-2021

Largest coordinate shift

The station with the largest coordinate shift this year was Berrook PM 4 along the Victoria – South Australia border.

A picture containing outdoor, ground, sky, dirt

Description automatically generated

Figure 2 - SGV Geodesy GNSS equipment setup on the Victoria - South Australia border

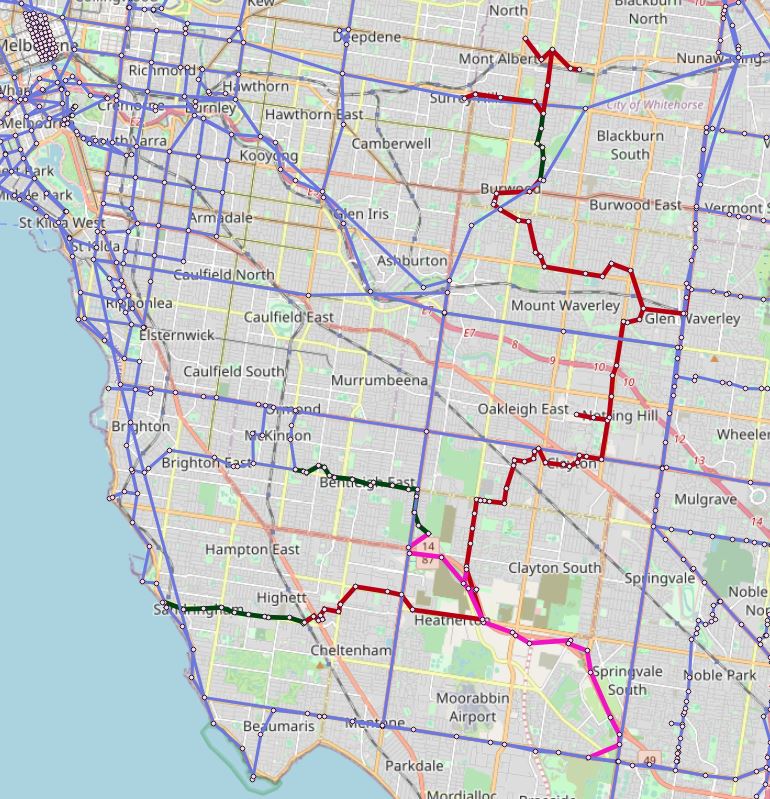
This station was previously only connected through terrestrial measurements. Through the collection of new GNSS measurements, the coordinates of this station were shifted by approximately 0.45m.

## Victorian Levelling Network adjustment

The VLN adjustment is used to determine Australian Height Datum heights for PMs across Victoria. Through FY2020-2021, the adjustment has been improved and extended as shown below:

|  |  |  |  |
| --- | --- | --- | --- |
| Vertical Uncertainty | June 2020 | June 2021 | Change |
| 0m – 0.01m | 1,476 | 1,509 | +33 |
| 0.01m – 0.02m | 10,022 | 10,169 | +147 |
| 0.02m – 0.05m | 11,191 | 11,184 | -7 |
| 0.05m – 0.1m | 2,371 | 2,371 | ±0 |
| >0.1m | 81 | 81 | ±0 |
| Total Stations | 25,141 | 25,314 | +173 |

Highlighted project: Suburban Rail Loop

SGV Geodesy worked closely with DoT surveyors to provide high-quality height information to support the first stage of the Suburban Rail Loop project. This included advising on appropriate existing height control, carrying out internal surveys to extend the VLN to the project, and processing and adjusting supplied levelling data to determine rigorously adjusted height control along the project. Through this effort, 60km of new closed-loop levelling was added to the VLN, and high-quality height information made available for 106 new PMs along the length of the project.

**Figure 3 - Levelling data added to the Victorian Levelling Network adjustment in support of the Suburban Rail Loop Project (Green - New SGV Levelling, Red - New DoT Levelling, Pink - Old DoT Levelling, Blue - Existing VLN Network)**

## Coming in 2021-2022

SGV Geodesy will continue to enhance and expand the SCN and VLN. There will be increased focus on upgrading the Victorian SCN to support development in growth areas and the Digital Cadastre Modernisation project. Major projects include:

* new HSMs and high-quality surveys to support the Marinus Link Project in Gippsland
* continued expansion and surveying of HSMs for VMFRP in north-west Victoria
* ongoing ground control point surveys to support airborne LiDAR surveys across Victoria.

## Contact us

SGV Geodesy welcomes feedback from the surveying and spatial community and can provide expert advice on positioning in Victoria. To provide feedback, or for any guidance with the capture or submission of GNSS or levelling data to SGV, please contact SMES Support:

Phone: 03 9194 0770

Email: [smes.support@delwp.vic.gov.au](mailto:smes.support@delwp.vic.gov.au)

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