

**To:** Gravesham Joint Transportation Board  
**By:** KCC Highways, Transportation & Waste  
**Date:** 2<sup>nd</sup> December 2020  
**Subject:** Highway Forward Works Programme – 2019/20 onwards  
**Classification:** Information Only

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Summary: This report updates Members on the identified schemes approved for construction

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## **1. Introduction**

This report provides an update and summarises schemes that have been programmed for delivery in 2020/21.

Kent County Council has agreed a substantial increase in the budget for planned highway works over the next three years, and as a result we are still in the process of identifying and designing schemes for inclusion in our full Year One to Two (2019/20 and 2020/21) and Year Three to Five (2021/22 to 2023/24) programmes. Because of this, we have decided to publish an interim programme, and to publish the full programmes later this year. For some assets this interim programme covers approximately the first six months of 2020/21, whilst for others it includes most of the works planned for the whole year.

This programme is subject to regular review and may change for a number of reasons including budget allocation, contract rate changes, and to reflect KCC's changing priorities. The programme and extent of individual sites within the programme may also be revised following engineering assessment during the design phase.

**Road, Footway & Cycleway Renewal and Preservation Schemes** – see Appendix A

**Drainage Repairs & Improvements** – see Appendix B

**Street Lighting** – see Appendix C

**Transportation and Safety Schemes** – see Appendix D

- **Casualty Reduction Measures**
- **Externally funded schemes**
- **Local Growth Fund**

**Developer Funded Works** – see Appendix E

**Bridge Works** – see Appendix F

**Traffic Systems** – see Appendix G

**Combined Member Fund** – see Appendix H

## **Conclusion**

1. This report is for Members' information.

**Contact Officers:**

The following contact officers can be contacted on **03000 418181**

Richard Emmett  
Kevin Gore  
Alan Casson  
Earl Bourner  
Sue Kinsella  
Toby Butler  
Jamie Hare  
Jamie Watson

Highway Manager West Kent  
Gravesham District Manager  
Senior Asset Manager  
Drainage & Structures Asset Manager  
Street Light Asset Manager  
Traffic & Network Solutions Asset Manager  
Development Agreements Manager  
Schemes Programme Manager

## **Appendix A – Road, Footway and Cycleway Renewal and Preservation Scheme**

The delivery of these schemes is weather dependent; should it prove not possible to carry out these works on the planned dates, new dates will be arranged and the residents will be informed by a letter drop to their homes.

**COVID-19** – Unless otherwise stated in the status column the below schemes are currently sanctioned to continue as the operating procedures can be undertaken in line with current Government and Construction Leadership Council advice.

We will continue to take note and adjust to any changes in this advice, so there is a possibility that these works may be postponed at very short notice.

We take the wellbeing of the public and our workforce extremely seriously, and please be assured we have put in place all mitigating measures necessary to abide by the guidance currently in place.

<b>Machine Resurfacing – Contact Officer Mr Byron Lovell</b>			
<b>Road Name</b>	<b>Parish</b>	<b>Extent of Works</b>	<b>Current Status</b>
Sole Street	Cobham	Between Jeskyns Road to the Railway Inn Pub	Completed
A289 Hasted Road (Wainscott Bypass)	Higham	Southbound carriageway bend to A2 London bound	Completed
Milton Road	Gravesend	Ordanance Street to Harmer Street	To be completed early 2021
<b>Footway Improvement - Contact Officer Mr Neil Tree</b>			
<b>Road Name</b>	<b>Parish</b>	<b>Extent of Works</b>	<b>Current Status</b>
Ivy Close	Gravesend	<u>Footway resurfacing.</u> Full length.	Completed.
Valley Drive	Gravesend	<u>Footway resurfacing.</u> Various section between Old Rd East and Livingstone Road.	Designed but postponed. To be reprogrammed.
Arnold Avenue	Meopham	<u>Footway resurfacing.</u> Full length.	Completed
<b>Surface Treatments - Contact Officer Mr Jonathan Dean</b>			

The Street	Cobham	From Battle Street to Meadow Room Car park	Complete
Chalk Road	Gravesend	From Vicarage Lane to Rochester Road	Postponed due to utility works
Lower Rochester Road	Higham	From Gore Green Road to Cherry Garden Cottages	Complete
Nash Street (to include Nash Bank)	Gravesend	Nash Street - Whole Road. Nash Bank from A227 to Downs Road	Complete
Warren Road	Cobham	From Littlestown Road to Medway Boundary	Complete

## Appendix B – Drainage Repairs & Improvements

<b>Drainage Repairs &amp; Improvements - Contact Officer Earl Bourner</b>			
<b>Road Name</b>	<b>Parish</b>	<b>Description of Works</b>	<b>Current Status</b>
Clarendon Road	Gravesend	Installation of new chambers and repair to the line Repair / replace tidal flap valve (in accordance with PLA / EA requirements)	Works Completed
Brenchley Avenue	Gravesend	Installation of new gullies and Catchpit	Works completed. Follow up soakaway cleansing job passed to contractor. Not completed as residents moving no parking cones
Bracondale Avenue	Istead Rise	Whole road including junction with A227. Drainage improvement comprising additional soakaways to reduce risk of surface water flooding within the road	Ground investigations now complete. Design complete for Bracondale Avenue. Early contractor involvement taking place prior to passing scheme over to contractor
A227 Wrotham Road	Istead Rise	Drainage improvement local to junction with Bracondale Avenue (linked to Bracondale Avenue Scheme)	Ground investigations completed. Detailed design work ongoing.
Whitepost Lane	Culverstone	Junction with Carters Hill Lane. Improve existing drainage	Ground investigations completed. Highway works also completed. Design work for new soakaway in recreation ground ongoing
Factory Road	Northfleet	Investigation of flooding outside school.	Meeting took place with landowner (Bellway). Access is very poor to the area for inspecting drainage. Investigation ongoing.

<p>Timber Bank</p>	<p>Vigo</p>	<p>Drainage repair works and soakaway cleansing throughout road to resolve minor defects in pipes, mainly from tree root damage. One soakaway undergone structural repairs.</p>	<p>Drainage repairs completed. Following up with commission to consultant engineers to investigate drainage improvements in the area. Ground investigation to take place in the next month. Letter drop will be sent out once programmed</p>
<p>School Lane</p>	<p>Higham</p>	<p>Scheme to reduce flood risk local to junction with St. Johns Road.</p>	<p>Outline design completed. Working on detailed design. Trial holes to be excavated during half term week (w/c 26<sup>th</sup> October) to confirm location of underground services</p>

## **Appendix C – Street Lighting**

Structural testing of KCC owned illuminated sign has identified the following as requiring replacement. A status of complete identifies that the column replacement has been carried out. Programme dates are identified for those still requiring replacement.

<b>Street Lighting Column Replacement – Contact Officer Sue Kinsella</b>			
<b>Road Name</b>	<b>Parish</b>	<b>Description of Works</b>	<b>Status</b>
Lower Rd	Northfleet	Replacement of 1 x L/Col	UKPN to carry out work as cable is encased in concrete
Walnut Hill Rd	Instead Rise	1 x pole bracket replacement	Completed
Abbots Fields	Singlewell	Structural L/Col replacement	Due for Completion by end March 2021
Alfred Place	Coldharbour	Structural L/Col replacement	Due for Completion by end March 2021
Bracondale Ave	Instead rise	Structural L/Col replacement	Due for Completion by end March 2021
Cambell Rd	N/Fleet South	Structural L/Col replacement	Due for Completion by end March 2021
Chalk Rd	Chalk	Structural L/Col replacement	Due for Completion by end March 2021
Chiltern Rd	Painters Ash	Structural L/Col replacement	Due for Completion by end March 2021
Church Lane	Chalk	Structural L/Col replacement x 2	Due for Completion by end March 2021
Clarence Row	Central	Structural L/Col replacement	Due for Completion by end March 2021
Coldharbour Rd	Coldharbour	Structural L/Col replacement x 2	Due for Completion by end March 2021
Constitution Hill	Central	Structural L/Col replacement x 2	Due for Completion by end March 2021
Coopers Hill	Coldharbour	Structural L/Col replacement	Due for Completion by end March 2021
Cotswold Rd	Painters Ash	Structural L/Col replacement	Due for Completion by end March 2021
Council Ave	N/Fleet North	Structural L/Col replacement x 2	Due for Completion by end March 2021
Dene Holm Rd	Painters Ash	Structural L/Col replacement	Due for Completion by end March 2021
Dover Rd	N/Fleet North	Structural L/Col replacement	Due for Completion by end March 2021
Durndale Lane	Painters Ash	Structural L/Col replacement	Due for Completion by end March 2021
Eagle Way	N/Fleet North	Structural L/Col replacement	Due for Completion by end March 2021
Fortrye Close	Painters Ash	Structural L/Col replacement	Due for Completion by end March 2021
Gravesend Rd	Shorne	Structural L/Col replacement x1	Due for Completion by end March 2021

Glen View	Central	Structural L/Col replacement x 3	Due for Completion by end March 2021
Hilary Ave	Painters Ash	Structural L/Col replacement x 1	Due for Completion by end March 2021
Hillside Ave	Whitehill	Structural L/Col replacement x 2	Due for Completion by end March 2021
Hollybush Rd	Central	Structural L/Col replacement x 3	Due for Completion by end March 2021
Hunt Rd	Painters Ash	Structural L/Col replacement x 1	Due for Completion by end March 2021
Hall Rd	N/Fleet South	Structural L/Col replacement x 2	Due for Completion by end March 2021
Landseer Ave	Painters Ash	Structural L/Col replacement x 2	Due for Completion by end March 2021
Leith Park Rd	Central	Structural L/Col replacement x 1	Due for Completion by end March 2021
Lingfield Rd	Woodlands	Structural L/Col replacement x 1	Due for Completion by end March 2021
Love Lane	Central	Structural L/Col replacement x 1	Due for Completion by end March 2021
Mark Lane	Riverside	Structural L/Col replacement x 1	Due for Completion by end March 2021
Norfolk Rd	Riverside	Structural L/Col replacement x 1	Due for Completion by end March 2021
Old Perry St	N/Fleet South	Structural L/Col replacement x 1	Due for Completion by end March 2021
Old Road East	Central	Structural L/Col replacement x 3	Due for Completion by end March 2021
Ordnance Rd	Riverside	Structural L/Col replacement x 1	Due for Completion by end March 2021
Parrock Ave	Central	Structural L/Col replacement x 5	Due for Completion by end March 2021
Peter St	Central	Structural L/Col replacement x 1	Due for Completion by end March 2021
Pickwick Gardens	Painters Ash	Structural L/Col replacement x 1	Due for Completion by end March 2021
Pine Ave	Central	Structural L/Col replacement x 4	Due for Completion by end March 2021
Plane Ave	N/Fleet North	Structural L/Col replacement x 1	Due for Completion by end March 2021
Royal Pier Rd	Riverside	Structural L/Col replacement x 1	Due for Completion by end March 2021
Rouge lane	Central	Structural L/Col replacement x 1	Due for Completion by end March 2021
Stonebridge Rd	N/Fleet North	Structural L/Col replacement x 3	Due for Completion by end March 2021
Shepherd St	N/Fleet North	Structural L/Col replacement x 2	Due for Completion by end March 2021
South Hill Rd	Central	Structural L/Col replacement x 1	Due for Completion by end March 2021
Springhead Rd	N/Fleet South	Structural L/Col replacement x 1	Due for Completion by end March 2021
St Marks Ave	N/Fleet North	Structural L/Col replacement x 1	Due for Completion by end March 2021



Tennyson Walk	Painters Ash	Structural L/Col replacement x 2	Due for Completion by end March 2021
The Alma	Riverview	Structural L/Col replacement x 1	Due for Completion by end March 2021
Springhead Enterprise Park	N/Fleet South	Structural L/Col replacement x 2	Due for Completion by end March 2021
Vale Rd	N/Fleet South	Structural L/Col replacement x 1	Due for Completion by end March 2021

## **Appendix D – Transportation and Safety Schemes**

### **Casualty Reduction Measures**

The Schemes Planning & Delivery team is implementing schemes within Gravesham Borough, in order to meet Kent County Council's (KCC) strategic targets (for example, addressing traffic congestion or improving road safety). Casualty reduction measures have been identified to address a known history of personal injury crashes. Current status correct as of 9<sup>th</sup> November 2020.

<b>Local Transport Plan funded schemes – Contact Officer: Claire Venner</b>		
<b>Road Name</b>	<b>Description of Works</b>	<b>Current Status</b>
<b>Casualty reduction measures (reactive) – Gravesham</b>		
A289 Wainscott By-pass	Transverse bar markings	Installed
<b>LTP Schemes Gravesham</b>		
No works planned		

### **Externally Funded Schemes**

The Schemes Planning & Delivery team is implementing schemes within the borough of Gravesham funded by external corporations whilst still meeting KCC's strategic targets with the road network.

<b>Externally Funded Schemes – Contact Officer: Grant Kennaird</b>			
<b>Road Name</b>	<b>Description of Works</b>	<b>Source of Funding</b>	<b>Current Status</b>
Station Road, Northfleet	Construction of a hard standing outside Northfleet Station	Ebbsfleet Development Company	Completed
Roman Road, Pepper Hill,	(NCN177) Vegetation clearance for a small footway scheme.	Ebbsfleet Development Company	Completed
Ebbsfleet Direction Signs	Design and implementation of Advanced Direction Signs (ADS) & Direction Signs to include the wording 'Ebbsfleet Garden City'.	Ebbsfleet Development Company	On hold as this scheme is to be completed in stages along with the house build programme.
Sun Lane/White Hill Road	Proposed 'One Way'	TBC.	Monitoring.

## Local Growth Fund

### Local Growth Fund programme update for Gravesham Borough

The Department for Transport (DfT) added £100m to the Local Growth Fund (LGF) pot in order to fund Local Sustainable Transport Fund Style schemes. KCC subsequently submitted four Local Sustainable Transport Fund (LSTF) capital bids 1) East Kent – A network for Growth, 2) Kent Thameside – Integrated door-to-door journeys and 3) West Kent – Tackling Congestion. The fourth was for Tonbridge Town Centre Regeneration, which included a highway improvements scheme in the Lower High Street as well as additional LSTF style measures. The objective of all of the capital bids is to boost economic growth by decreasing carbon emissions and reducing congestion.

The Kent Thameside, West Kent and Tonbridge Town Centre Regeneration bids were all successful. The schemes aim to:

- improve access to employment and services
- reduce the need to travel by the private car
- enhance pedestrian, cycle and public transport facilities
- improve sustainable transport connections

The following schemes have been submitted as part of the successful Kent Thameside LSTF this financial year.

<b>Scheme</b>	<b>Status</b>
<b>Cycle Hub to Cyclopark cycle route</b> – a signed route between the cycle hub and Cyclopark which is suitable for less confident cyclists.	The consultation report was published on 22 <sup>nd</sup> October and can be found at the KCC directory <a href="http://www.kent.gov.uk/gravesendcycleroute/phase2">www.kent.gov.uk/gravesendcycleroute/phase2</a> Detailed design completed and handover pack with Amey. 3 x cycle counters have now been installed to collect pre-scheme and post scheme data. There was a slight delay with the contractors, but construction started at the end March 2020. The major civils improvements in New House Lane, Coldharbour Road and Dashwood Park are now completed. Sign posts in however we are awaiting signs and bollards, delayed due to Covid-19 and suppliers catching up with demand. Three cycle counters along the route for pre/post monitoring have now been reinstated following construction period.
<b>Bus Hub – Barrack Row</b>	KCC have acquired the land from Network Rail in Barrack Row for the creation of a Bus Hub which aims to consolidate the bus stops around the Station and improve the waiting facilities for the public. All tenants have vacated the site and premises are in the possession of KCC. A Tenancy at Will has been signed by Saturn Taxis for use of the forecourt fronting their former office until construction begins and the presence of vehicles will aid with security. Initial investigations identified issues with the tracking and swept paths this was investigated, and the design altered to have 4 stops in Barrack Row and Fastrack and Sapphire services stopping in Garrick Street. A Members briefing paper was sent out on 3 <sup>rd</sup> June to all members to inform of the scheme. A meeting with the GAG took place on 3 <sup>rd</sup> June followed by an engagement event on 13 <sup>th</sup> June 2019, all feedback was reviewed and considered. The

	<p>design was presented to JTB in Sept 2019 and final DD's will be presented at a future Board when received. All surveys have now been completed therefore removing demolition constraints, the slope stability report has now been received and recommends that further support is required, options and cost being sought. Discussions are ongoing with NR to resolve. Layout of the scheme is now confirmed, and DD's are being finalised and will be completed by the end Sept and Tender document prep in Oct. The Bus hub (Barrack Row and Garrick Street) are now one scheme and will be tendered together. Construction will commence in February 2021 with a 9-month construction period. Planning Permission is required for the Canopies/shelters and two electric bus pantographs down charging poles with cantilever arms, the public realm and landscaping has also been included. Planning documents were submitted to KCC in August 2020. KCC are working with GBC to help facilitate the future installation of a toilet facility by Gravesham, this will ensure that it does not require additional groundwork and removal of the granite paving. KCC are looking to send the Tender pack out in November 2020.</p>
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## Appendix E – Developer Funded Works

<b>Developer Funded Works (Section 278 Agreement Works) – Contact Officer Aaron Dival</b>				
<b>Scheme Name</b>	<b>Mastergov File Ref No</b>	<b>Parish</b>	<b>Description of Works</b>	<b>Current Status</b>
Wimbourne House, Truro Road, Gravesend	GR003005	Gravesend	Extension of footpath from Bellmouth for approximately 50m in direction of Valley Drive	Awaiting estimate from Ops to allow defect notice
BP Tollgate Station, Wrotham Road, Northfleet	GR003009	Northfleet	Creation of new access to serve BP Tollgate Station	Still awaiting further contact/ planning
Ebbsfleet United FC	GR003013	Northfleet	Footway works for new entrance	main s278 works delayed
Lion Roundabout	GR003017	Gravesend	Realignment of roundabout, removal of planters, upgrading of pelican crossing to toucan and instillation of joint footway/cycleway around roundabout	Works finished, on maintenance
Springhead Road junction with A2260	GR003020	Gravesend Swanscombe Ebbsfleet	New Access onto A2260 from Springhead	Works practically complete
Allens Mead	GR003024	Gravesend	Tie in from Dalefield Way development	In maintenance
Alfred Road	GR003018	Gravesend	New footway crossovers for new development	Complete and Adopted
Crete Hall Road	GR003057	Northfleet	Entrance to new development incorporating realignment of Crete Hall Road	Works started
Crete Hall Road	GR003239	Northfleet	Entrance to new Berkley Factory	Works mostly complete

Dering Way West	GR003132	Northfleet	Continuation of Road to form new entrance	Works Complete on maintenance
Coldharbour Road	GR003271	Northfleet	New combined cycleway / footway	Works Complete, defect list issued
Thames Way,	GR003367	Northfleet	Berkley Modular Abnormal load strategy, minor alterations to signals on route	Technical Acceptance. Agreement awaited

**Appendix F – Bridge Works**

<b>Bridge Works – Contact Officer: Earl Bourner</b>			
<b>Road Name</b>	<b>Parish</b>	<b>Description of Works</b>	<b>Current Status</b>
No works planned			

## **Appendix G – Traffic Systems**

There is a programme of scheduled maintenance to refurbish life expired traffic signal equipment across the county based upon age and fault history. The delivery of these schemes is dependent upon school terms and holiday periods; local residents, businesses and schools will be informed verbally and by a letter drop of the exact dates when known.

<b>Traffic Systems - <i>Contact Officer: Toby Butler</i></b>		
<b>Location</b>	<b>Description of Works</b>	<b>Current Status</b>
Rochester Road near Dickens Road	Renewal of traffic signal-controlled crossing	Completed July 2020
Milton Road near Cumberland Avenue	Renewal of traffic signal-controlled crossing	Completed July 2020



## **Appendix H - Combined Member Grant programme update**

### **Member Highway Fund programme update for the Gravesham Borough**

The following schemes are those, which have been approved for funding by both the relevant Member and by Simon Jones, Director of Highways, Transportation and Waste. The list only includes schemes, which are

- in design
- at consultation stage
- about to be programmed
- Recently completed on site.

The list is up to date as of 9<sup>th</sup> November 2020.

The details given below are for highway projects only. This report does not detail

- Contributions Members have made to other groups such as parish councils
- highway studies
- traffic/ non-motorised user surveys funded by Members.

More information on the schemes listed below can be found by contacting the District Manager for the Gravesham Borough.

#### **Bryan Sweetland**

<b>Details of Scheme</b>	<b>Status</b>
The Ridgeway – Village Gateway features	<b>Ordered</b>
The Ridgeway – Speed surveys	<b>Completed</b>
Forge Lane, Bowesden Lane, Woodlands Lane – Speed Surveys	<b>Completed awaiting results</b>
The Street, Cobham – Proposed footway protection bollards	<b>Design in progress</b>

#### **Alan Ridgers**

<b>Details of Scheme</b>	<b>Status</b>
Lower Higham Road – Speed and Class Surveys	<b>Completed</b>

## **Appendix I – District Manager Updates**

Below are a list of works that have been requested by Local Officers and Members of the JTB Boards which do not fit into the other Appendices.

Lyndhurst Way, Istead Rise	Installing of Streetclamp handrails.	Job is awaiting programme date. Delay has been in production due to Covid-19
Hall Road, Northfleet	Issues raised around safety of Roundabout.	Operations have cut back the vegetation obscuring signs, Lining Refresh between Roundabout and Coldharbour Road issued to Contractor. Visibility of Lining on Roundabout obscured by dirt. Arranging for this to be cleaned with a view to re-line in 2021 if required.
Church Path, Northfleet	Streetlighting not working	KCC Streetlighting Team have attended site now ownership has been obtained. Works completed 29 <sup>th</sup> October.
The Hill, Northfleet	Installation of Speed Limit Roundals	Job passed to Contractor and awaiting programming
Perry Street, Northfleet	Flooding from Garage with Car Wash	Enforcement Notice was Landowners and they have responded. Works programmed into be carried out before Christmas
Harvel Road, Vigo	Investigation into resident concerns	Investigation of Bend Warning sign and additional information plate. This is at design stage. ATC's being programmed in
Stone Street, Gravesend	No Entry sign not visible	Works to refresh lining have been undertaken. New Sign to be placed on Stone Street advising of the Road layout. Sign can be

		provided for information
Windmill Street	Removal of Tarmac from the blocks outside the Civic Centre.	Works onsite
A227 Wrotham Road, Meopham	Lining Renewal	Works Completed
Hall Road, Northfleet	Lining Renewal	Works Programmed
Hever Court Road	Replacement of Chevron Signs	New Chevreflex bollards with uprighters to be installed. Works to be undertaken Feb 2021
Gravesham	Karbontech Trial	See separate item below

Kent County Council has been exploring better drainage management via the ‘Live Labs’ project in order to seek a more encompassing software platform, dedicated to the complexities of drainage, that has the functionality to support our maintenance activities in a better way. We are trialling this project in three Districts in Kent – Gravesham, Dartford and Maidstone and a report of how successful the trial is will be produced early next year.

We will soon have inspectors inspecting every drain in Gravesham which will be validated and plotted in the Kaarbontech system, which means we have an accurate plot for gully locations. We will also be also surveying a small percentage of locations to determine the connecting pipes etc as a smaller exercise on the side.

Colleagues at Kaarbontech have also taken lots of other KCC datasets and plugged these into their system, e.g. historical confirm enquiries, historic confirm jobs, flood risk zones, tree canopies, hotspots plus many others. Once the asset information collection is completed all these datasets will then been broken down and each attribute given a risk score based on how much we ‘care’ So for example we would give a gully that falls within a 30 year flood zone a higher score.

The system will then automate a risk score for every individual drain in Gravesham and which will form a matrix based on highest to lowest risk. We will then use this information to inform proposed cleansing regime for each drain which starts at 6 monthly up to every other year/biannually. This programme means that every drain in Gravesham will be attended at least every two years with some assets yearly/ twice yearly. The cleansing programme will commence in February 2021.

This approach is about trialling moving to a more proactive programme rather than relying on customer enquiries once an issue has already occurred. We hope this will reduce the

enquiries/flooding calls we get over time which will in turn improve customer service and also reduce the ratio in which we currently spend our budget so we spend more on cyclical 'planned' work and less on reactive work. We hope that by trialling this new way of thinking means budgets will be spent in a better way.

## **1.1 Legal Implications**

1.1.1 Not applicable.

## **1.2 Financial and Value for Money Considerations**

1.2.1 Not applicable.

## **1.3 Risk Assessment**

1.3.1 Not applicable.

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