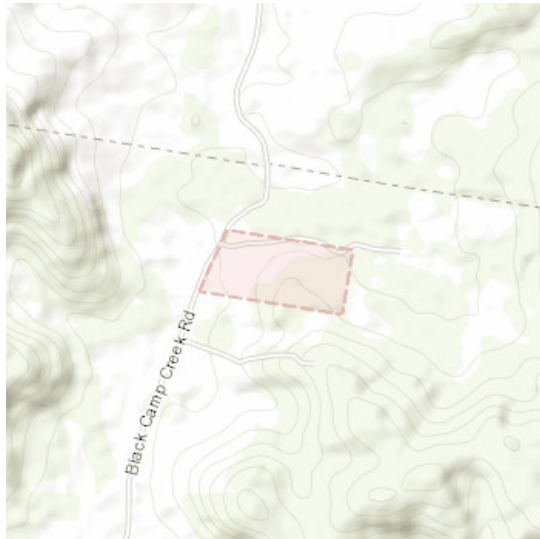


Caller Details

Contact:	Peta Harris	Caller Id:	3022837	Phone:	0418 108 229
Company:	Not supplied				
Address:	PO Box 107 Clarence Town NSW 2321	Email:	peta@perceptionplanning.com.au		

Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



User Reference:	306 Black Camp Creek Road		
Working on Behalf of:	Private		
Enquiry Date:	Start Date:	End Date:	
25/07/2021	27/07/2021	31/08/2021	

Address:
306 Black Camp Creek Road
Glen Martin NSW 2321

Job Purpose:

Design

Onsite Activities:

Planning & Design

Location of Workplace:

Private

Location in Road:

- Check that the location of the dig site is correct. If not you must submit a new enquiry.
- Should the scope of works change, or plan validity dates expire, you must submit a new enquiry.
- Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners.

Notes/Description of Works:

Not supplied

Your Responsibilities and Duty of Care

- The lodgement of an enquiry does not authorise the project to commence. You must obtain all necessary information from any and all likely impacted asset owners prior to excavation.
- If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.
- If you damage an underground asset you MUST advise the asset owner immediately.
- By using this service, you agree to Privacy Policy and the terms and disclaimers set out at www.1100.com.au
- For more information on safe excavation practices, visit www.1100.com.au

Asset Owner Details

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days. Additional time should be allowed for information issued by post. It is **your responsibility** to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Dial Before You Dig service, so it is **your responsibility** to identify and contact any asset owners not listed here directly.

** Asset owners highlighted by asterisks ** require that you visit their offices to collect plans.

Asset owners highlighted with a hash # require that you call them to discuss your enquiry or to obtain plans.

Seq. No.	Authority Name	Phone	Status
201028316	Essential Energy	13 23 91	NOTIFIED
201028314	Hunter Water Corporation	1300 657 657	NOTIFIED
201028315	Telstra NSW Central	1800 653 935	NOTIFIED

END OF UTILITIES LIST



Dial Before You Dig (DBYD)

Location Information

Hunter Water Corporation

36 Honeysuckle Drive
NEWCASTLE NSW 2300

To:

Peta Harris
PO Box 107 d
Clarence Town NSW 2321

Enquiry Details	
Utility ID	80220
Job Number	30178374
Sequence Number	201028314
Enquiry Date	26/07/2021 09:49
Response	NOT AFFECTED
Address	306 Black Camp Creek Road Glen Martin
Location in Road	
Activity	Planning and Design

Enquirer Details	
Customer ID	3022837
Contact	Peta Harris
Company	
Email	peta@perceptionplanning.com.au
Phone	+61418108229

Enquirer Responsibilities

Hunter Water Corporation's (HWC) provision, and your access to and use, of the data, maps and other information contained in this response (Information) are subject to the following terms and conditions, and all additional disclaimers contained elsewhere within this response.

Nature of HWC's assets

You acknowledge that:

- water in the main is under pressure and may cause injury if the main is damaged;
- sewer mains can be under pressure and may cause injury if the main is damaged;
- recycled water mains can be under pressure and may cause injury if the main is damaged;
- services are laid at varying depths;
- the Information does not include data related to property services; and
- HWC will seek recovery of repair costs if assets are damaged.
- All electrical services are to be considered live.

Accordingly, all persons must exercise extreme care and only use hand excavation until the exact location of all assets within a relevant work area is established.

Your use of Information

You acknowledge and accept that all Information provided in this response by HWC:

- (a) is generated based on an automated analysis of the data you submit to the Dial Before You Dig website (DBYD). Accordingly, the relevance and reliability of such Information is dependant on the accuracy and suitability of the data you provide to DBYD;
- (b) the Information is intended to have a general application only and may not be suitable for your specific requirements; and
- (c) all Information is intended to provide guidance only and any reliance you place on such Information is entirely at your own risk.

The Information is provided for the sole purpose of assisting the location of HWC assets before excavation (**Permitted Purpose**), and you must not copy, translate, modify, distribute or make derivative works of the Information except as you directly require to achieve the Permitted Purpose. All Information contained in this response must be used and kept together. Your access to, and use of, the Information does not grant you any ownerships rights in respect of the Information or any intellectually property in the Information.

Disclaimer

While HWC takes all reasonable care in providing details of its underground assets, due to changes in road and footway alignments and levels, the age and incompleteness of some records and the intended general nature of the Information, it is not possible to conclusively specify the location of all of HWC's underground assets.

ALL INFORMATION IS PROVIDED AS GENERAL GUIDANCE ONLY AND SHOULD NOT BE USED OR RELIED UPON IN SUBSTITUTION FOR SPECIALISED PROFESSIONAL INDEPENDENT ADVICE.

If you have a question or concern about the appropriateness, reliability or application of any Information you must seek advice from a relevantly qualified professional.

HWC makes no representation and gives no warranty or undertaking (express or implied) as to the currency, accuracy, completeness, effectiveness or reliability of the Information or that the Information can be used for any purpose in substitution for specialised, professional and independent advice.

You must not solely rely upon the Information when undertaking underground works.

To the full extent permitted by law, HWC disclaims responsibility or liability for all loss, damage, injury or other claim whatsoever for any outcome arising from:

- (a) your access to, or use of, the Information, including any failure to avail yourself of the Information;
- (b) your reliance on the Information or its inability to meet your needs;
- (c) your failure to correctly or accurately:
 - (1) submit relevant or valid data to DBYD; or
 - (2) use or interpret the Information provided by HWC; or
- (d) any delay, failure, interruption, or corruption of any Information.

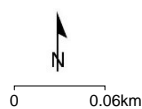
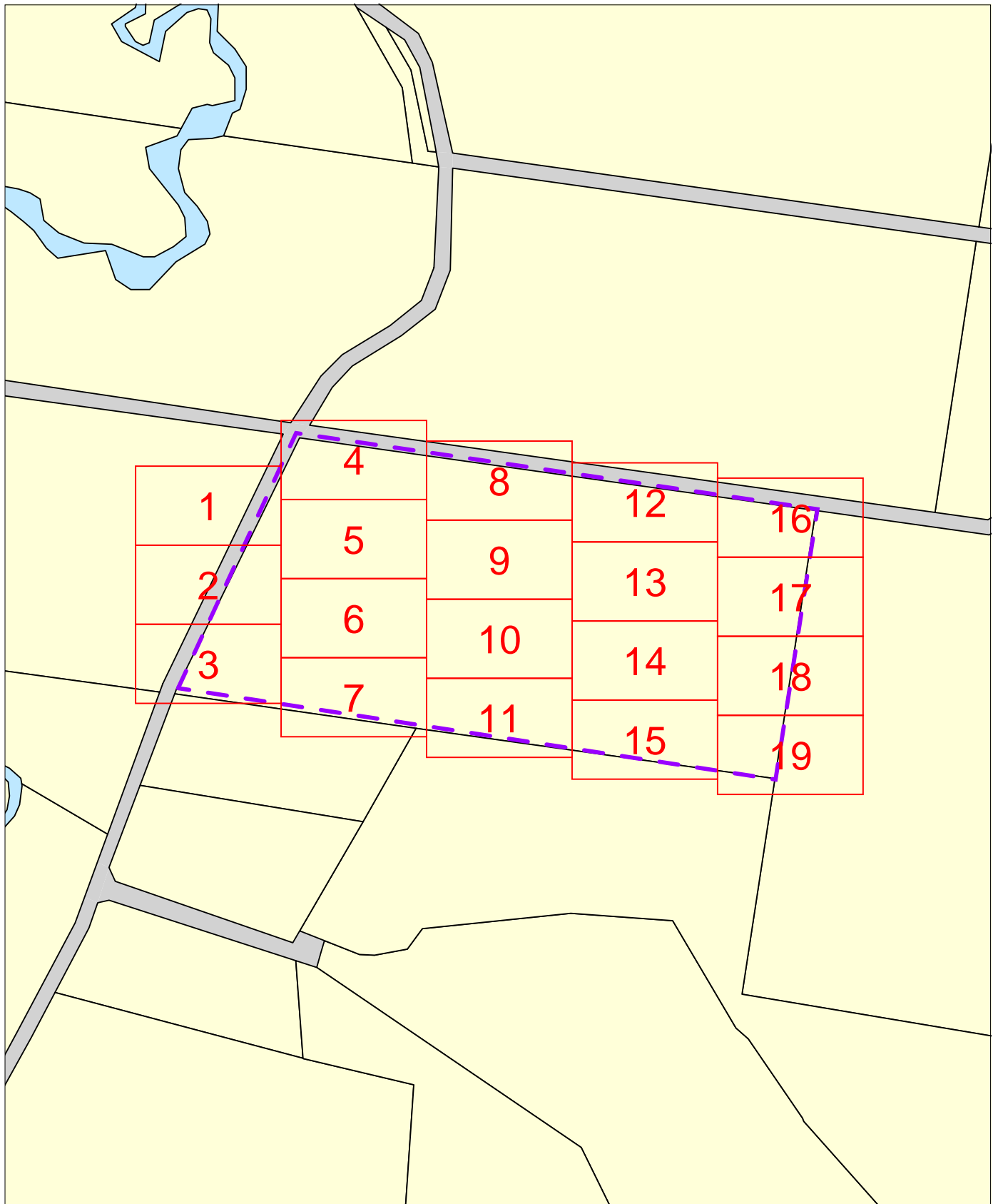
www.hunterwater.com.au

1300 657 000



Overview Map

Sequence No: 201028314
306 Black Camp Creek Road Glen Martin



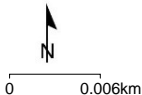
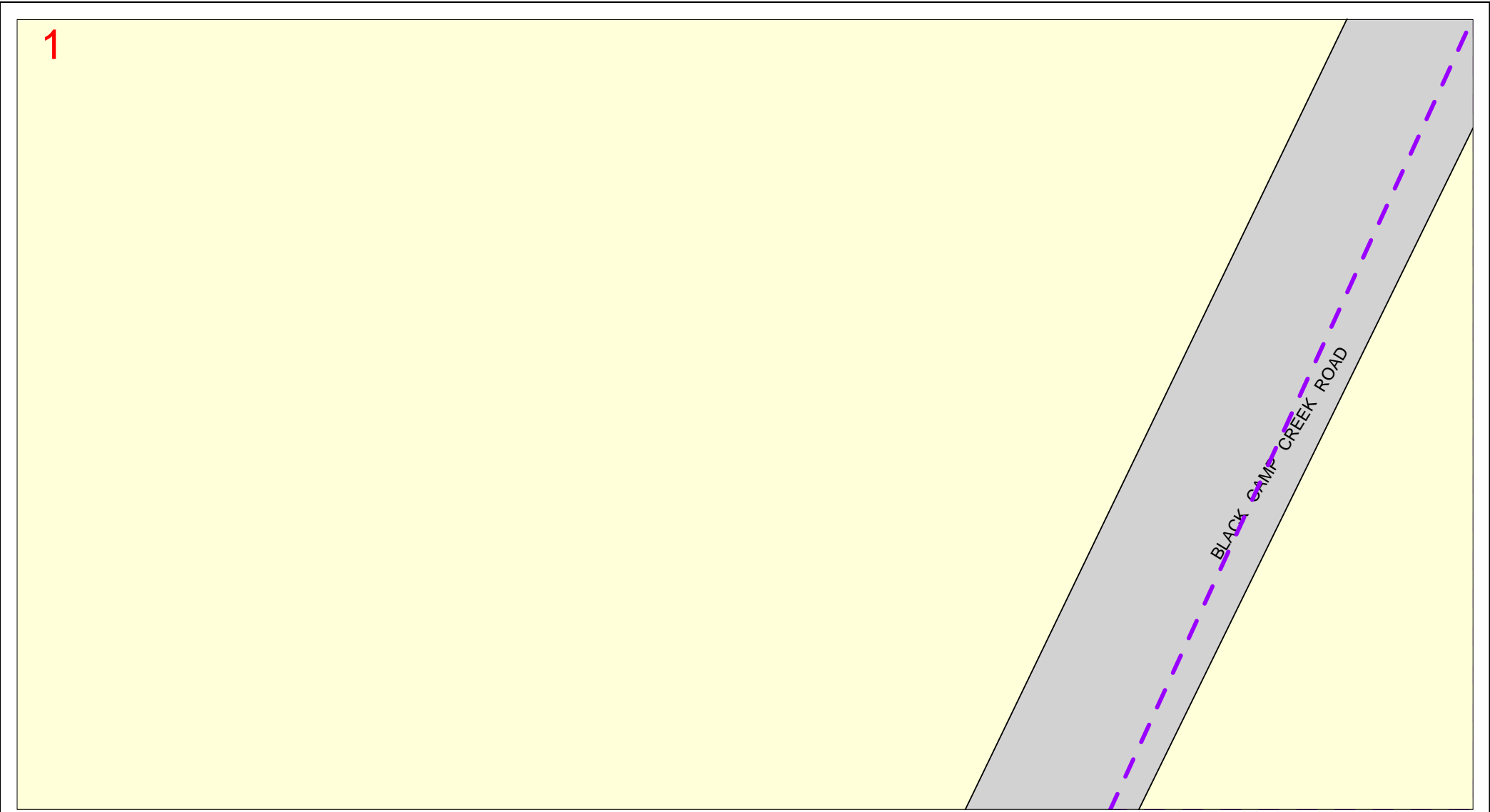
LEGEND:





Map 1

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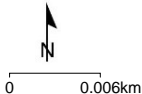
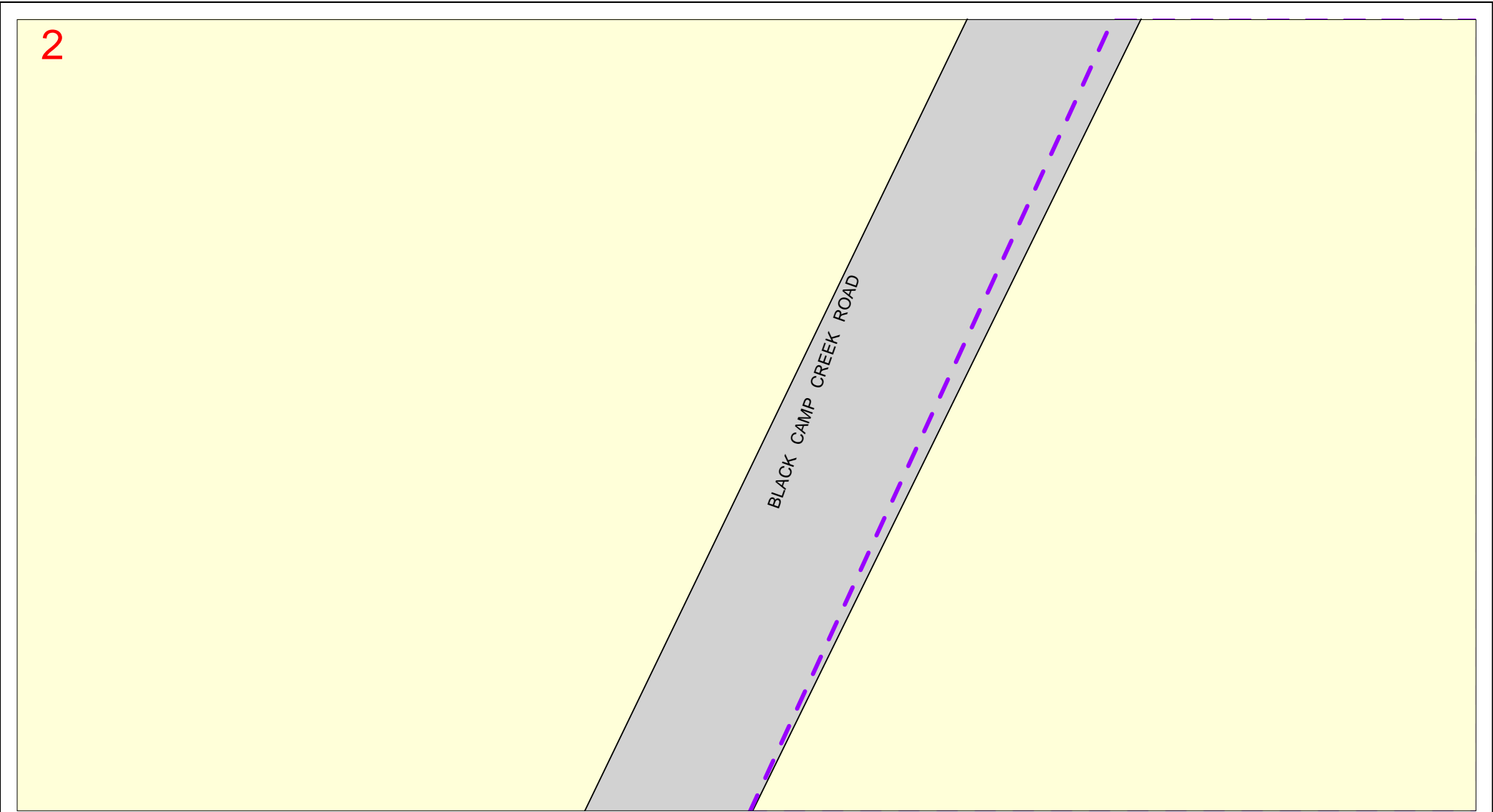
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Map 2

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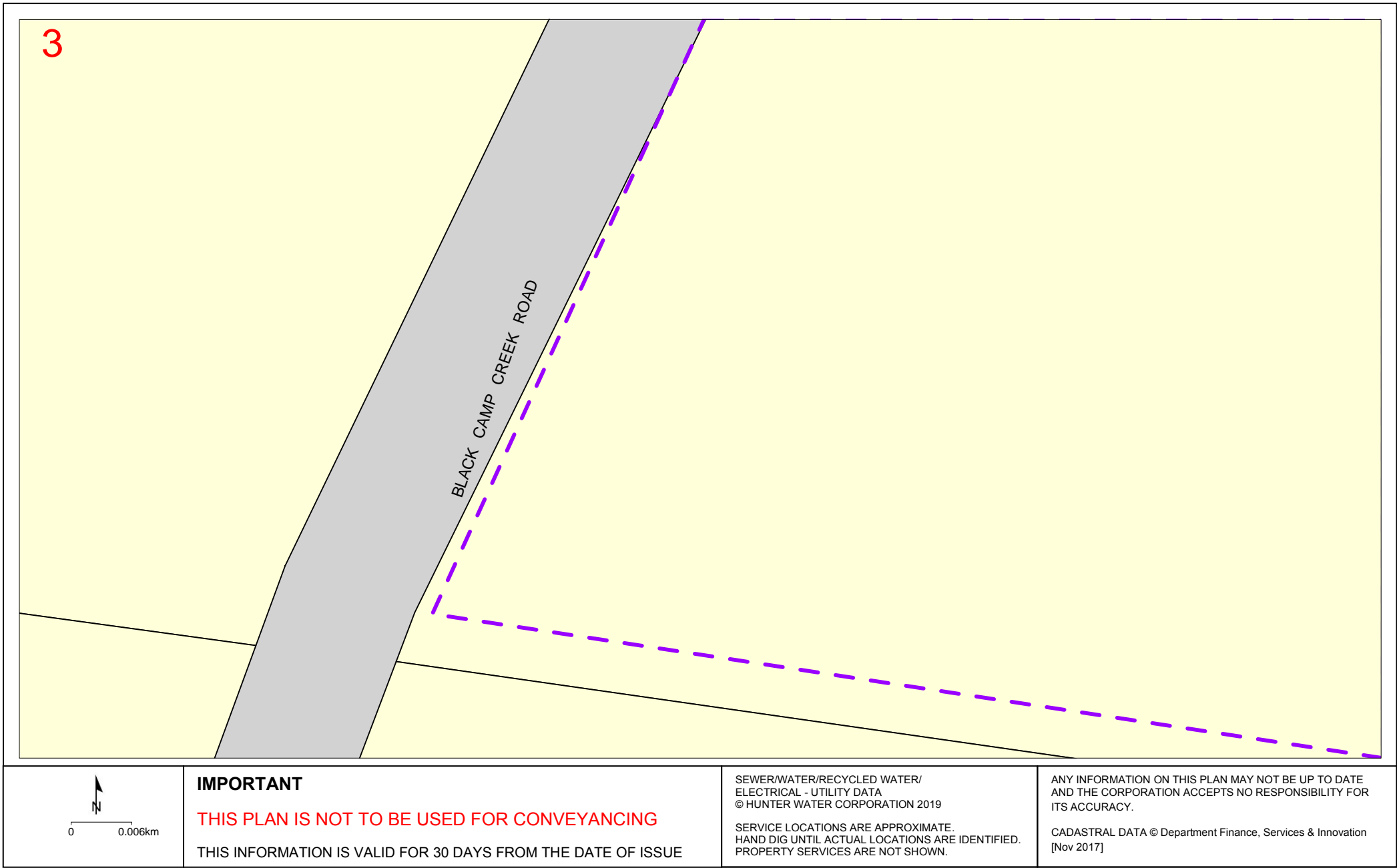
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Map 3

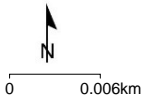
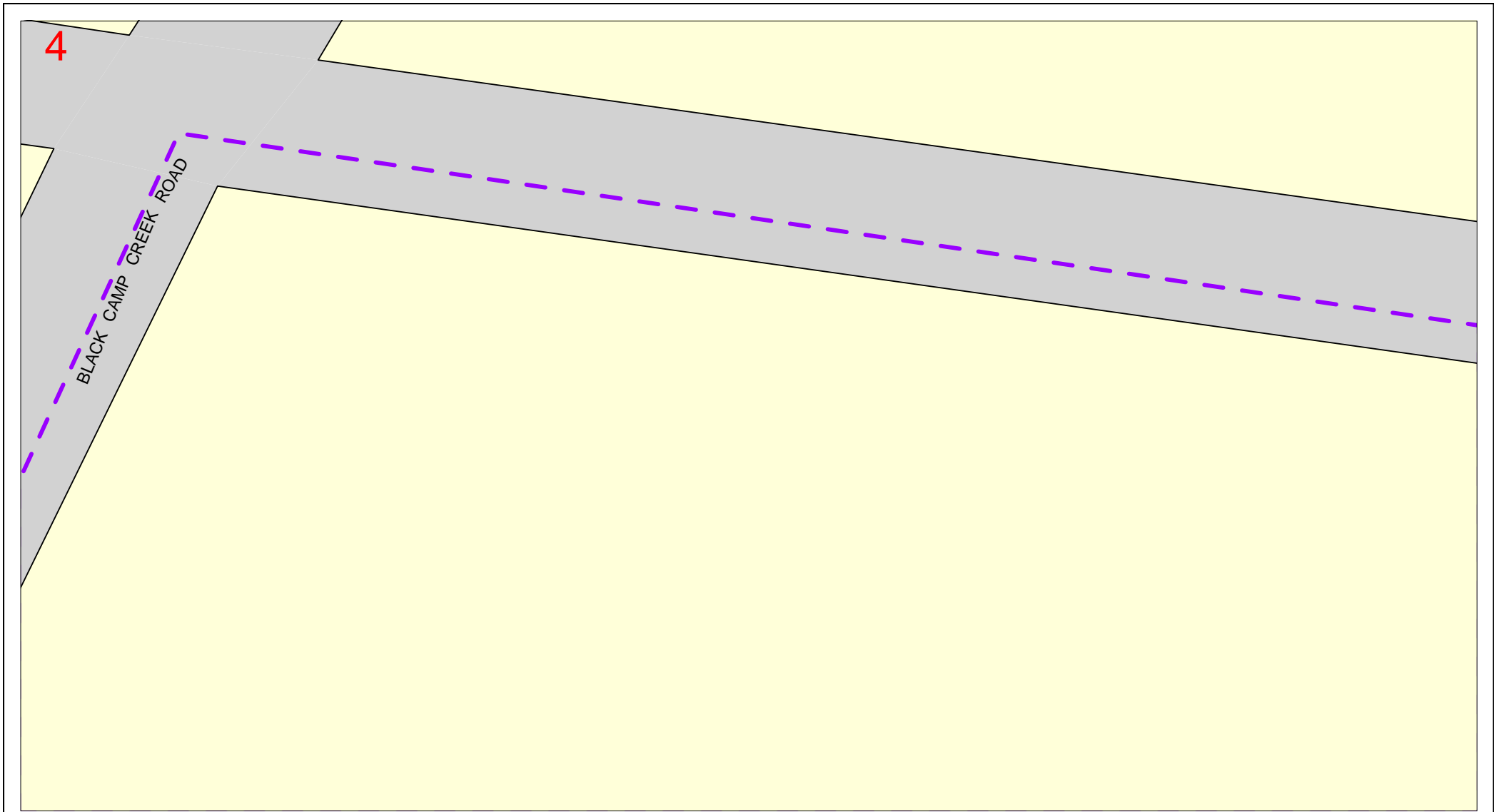
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Map 4

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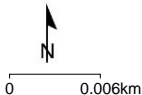
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Map 5

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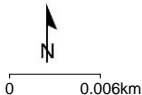
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Map 6

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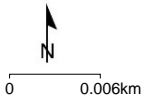
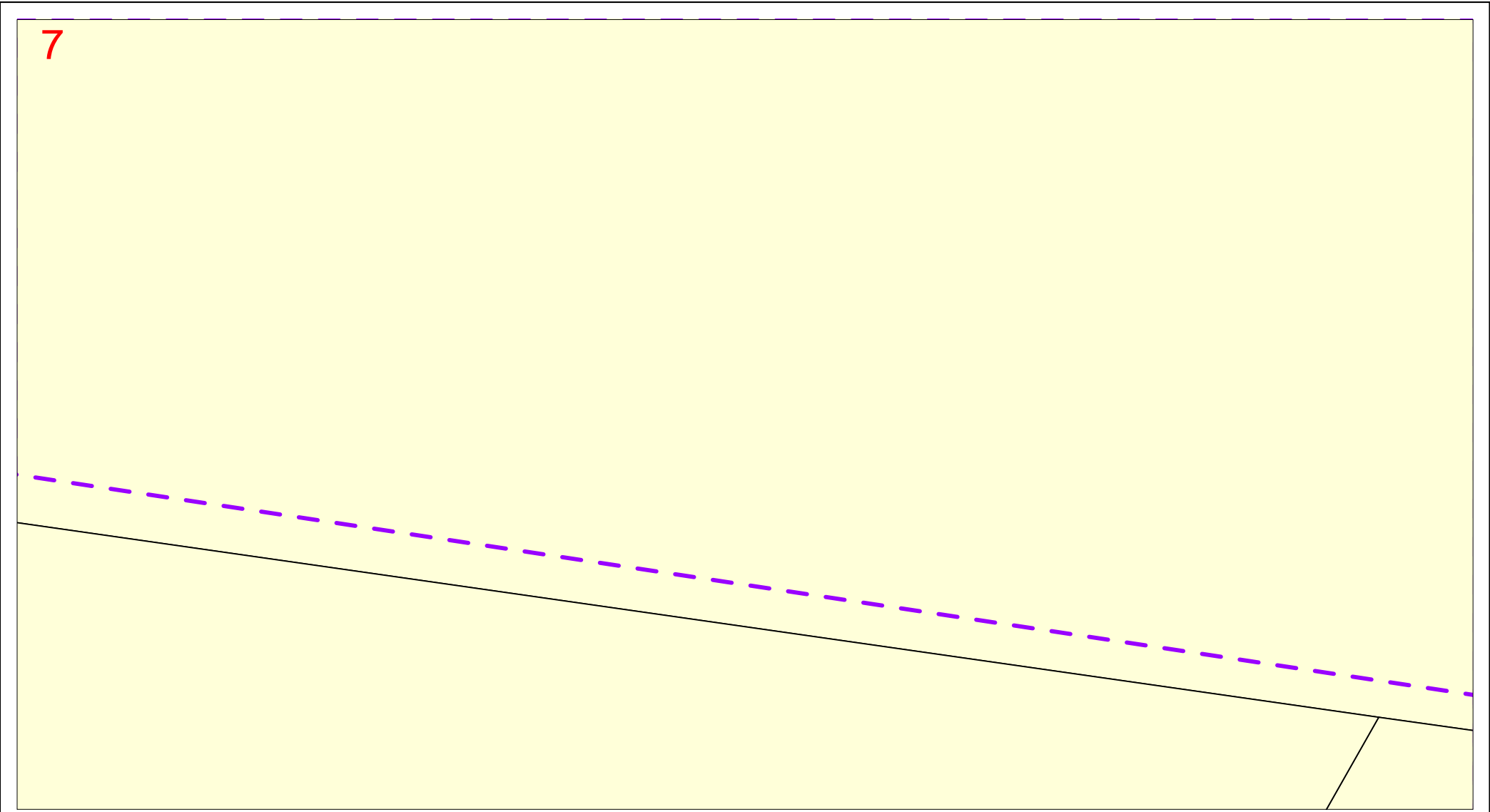
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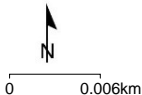
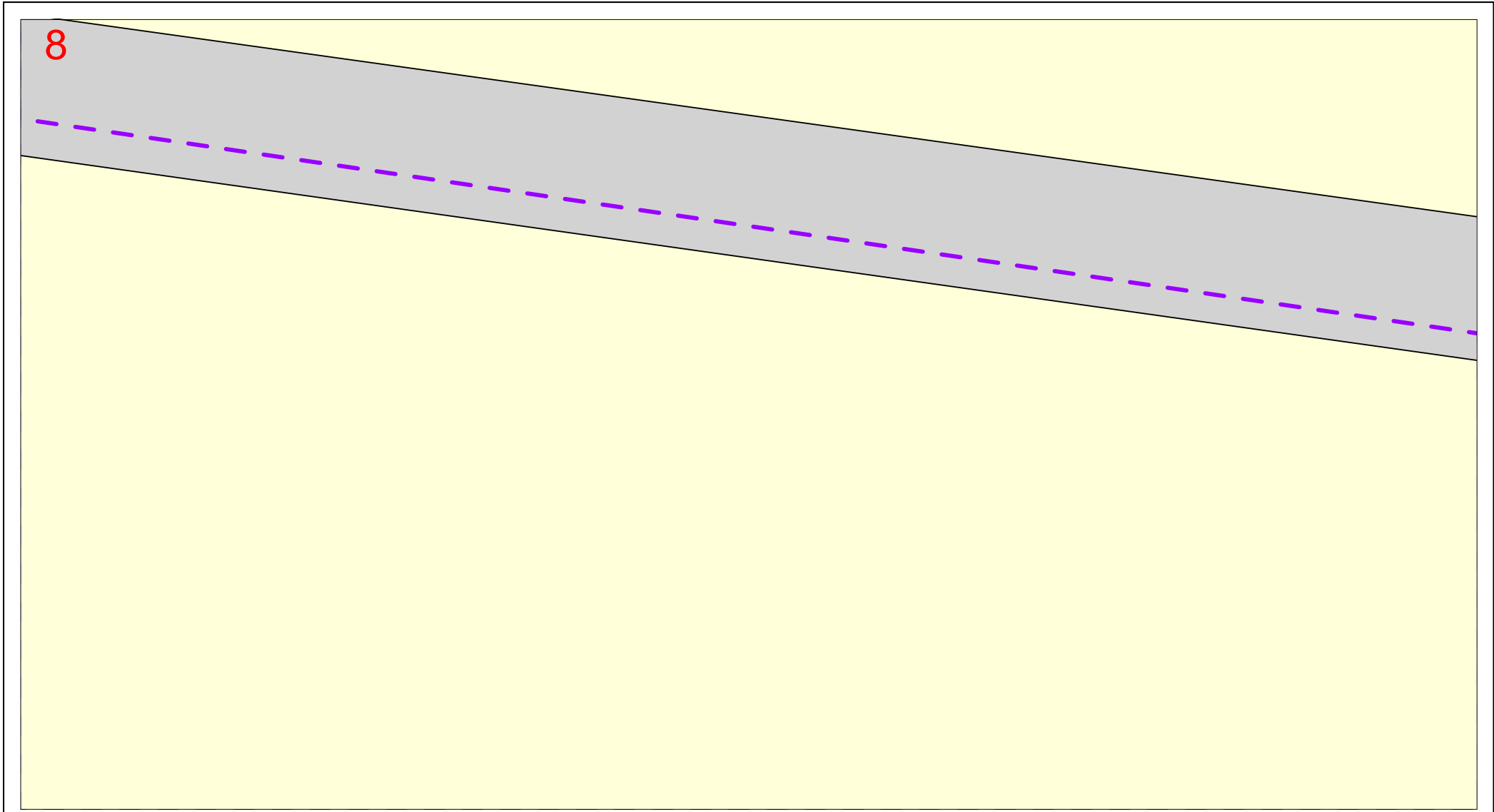
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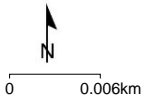
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Map 9

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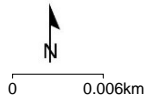
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Map 10

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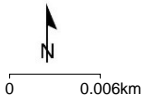
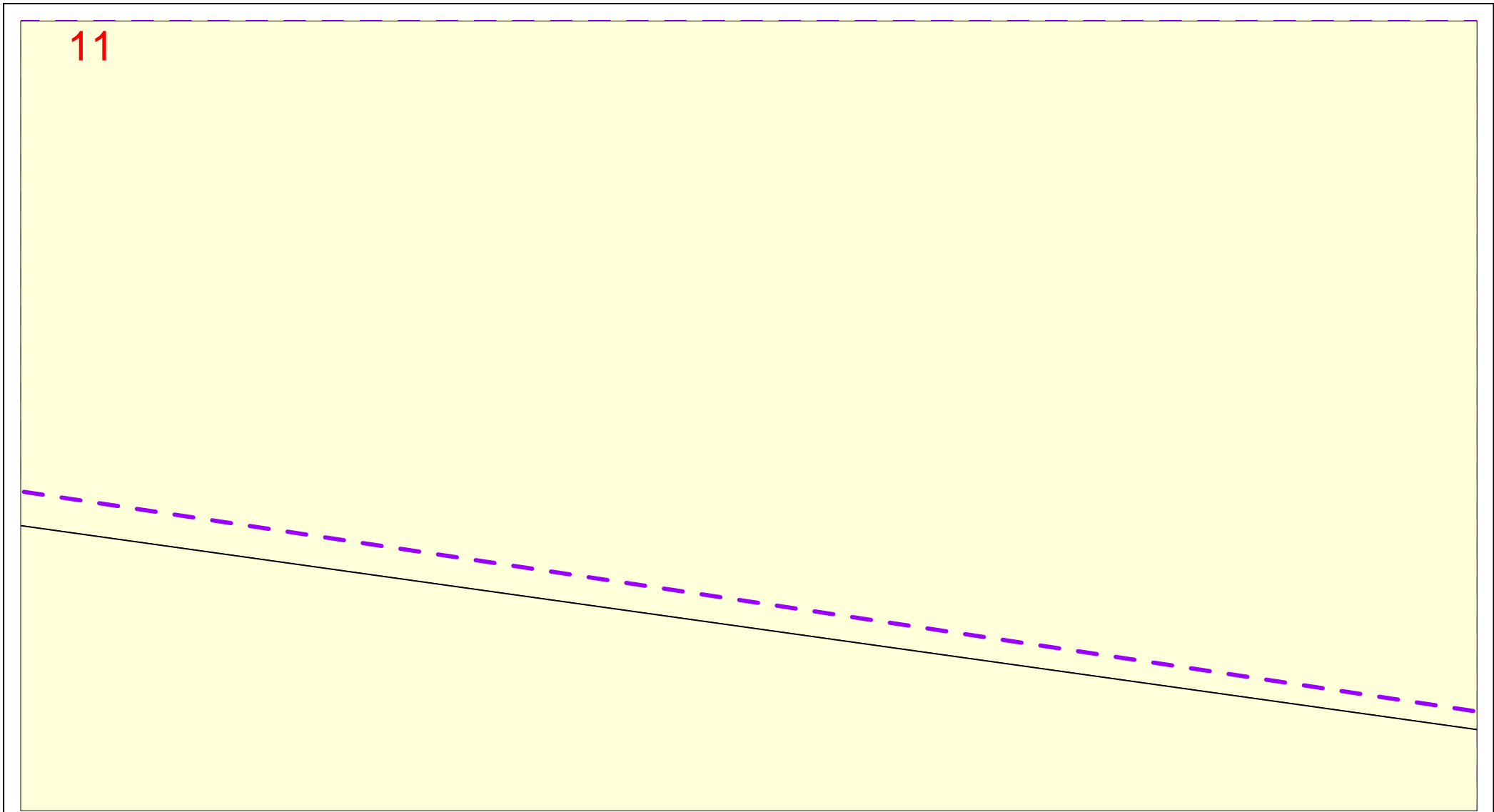
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Map 11

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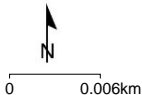
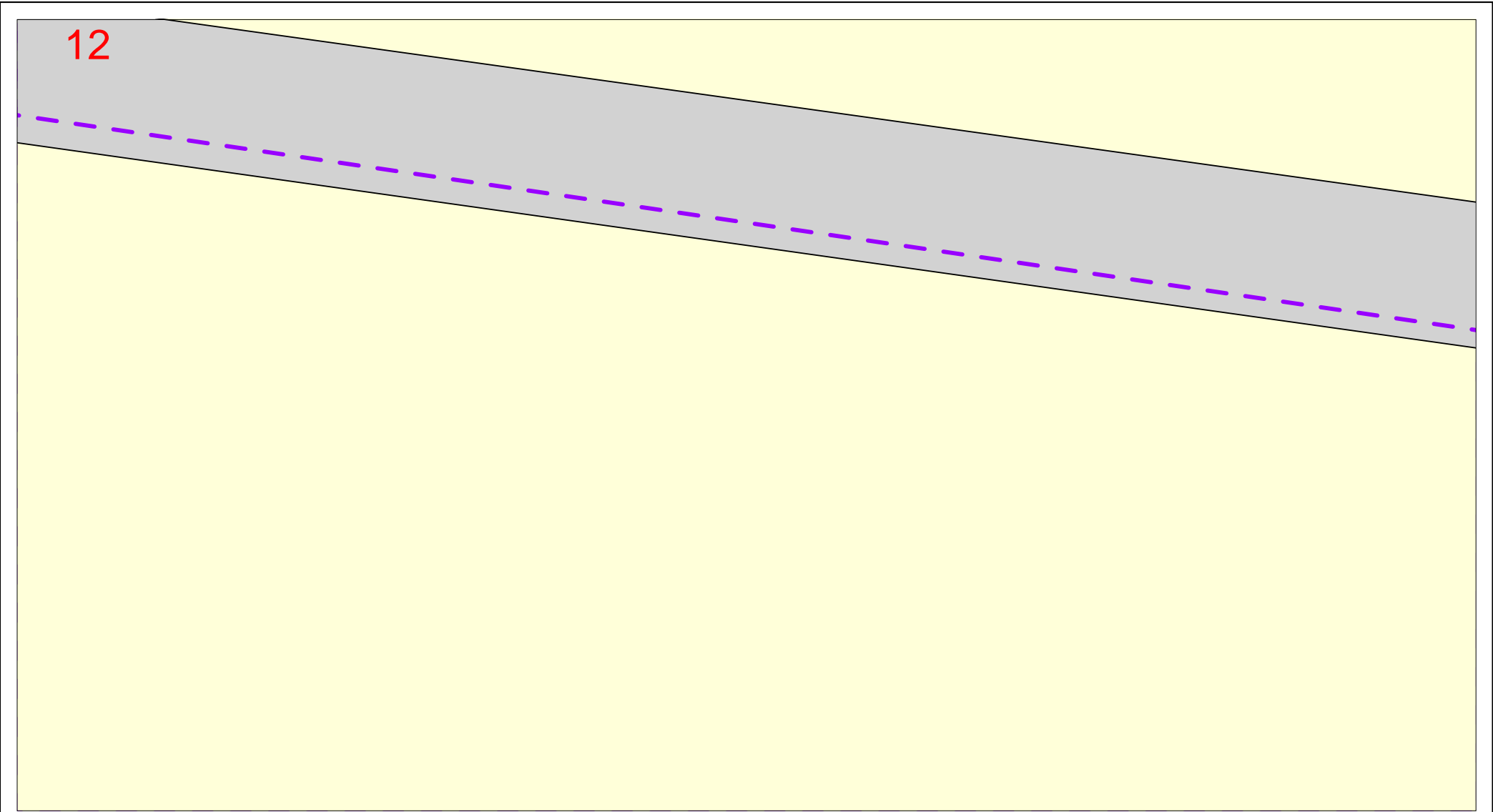
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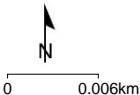
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Map 13

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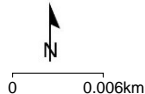
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Map 14

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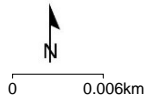
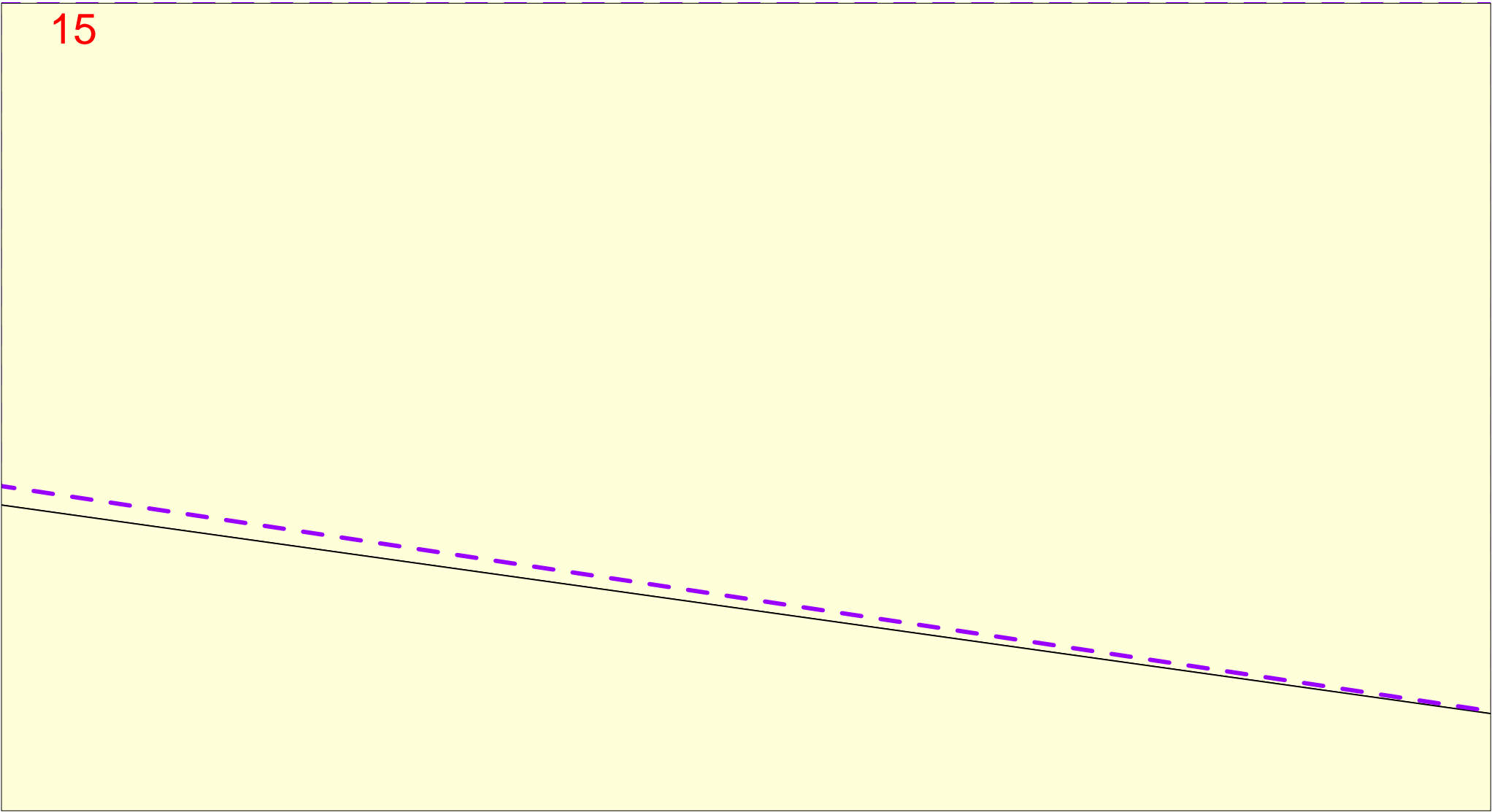
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Map 15

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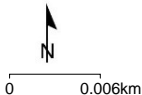
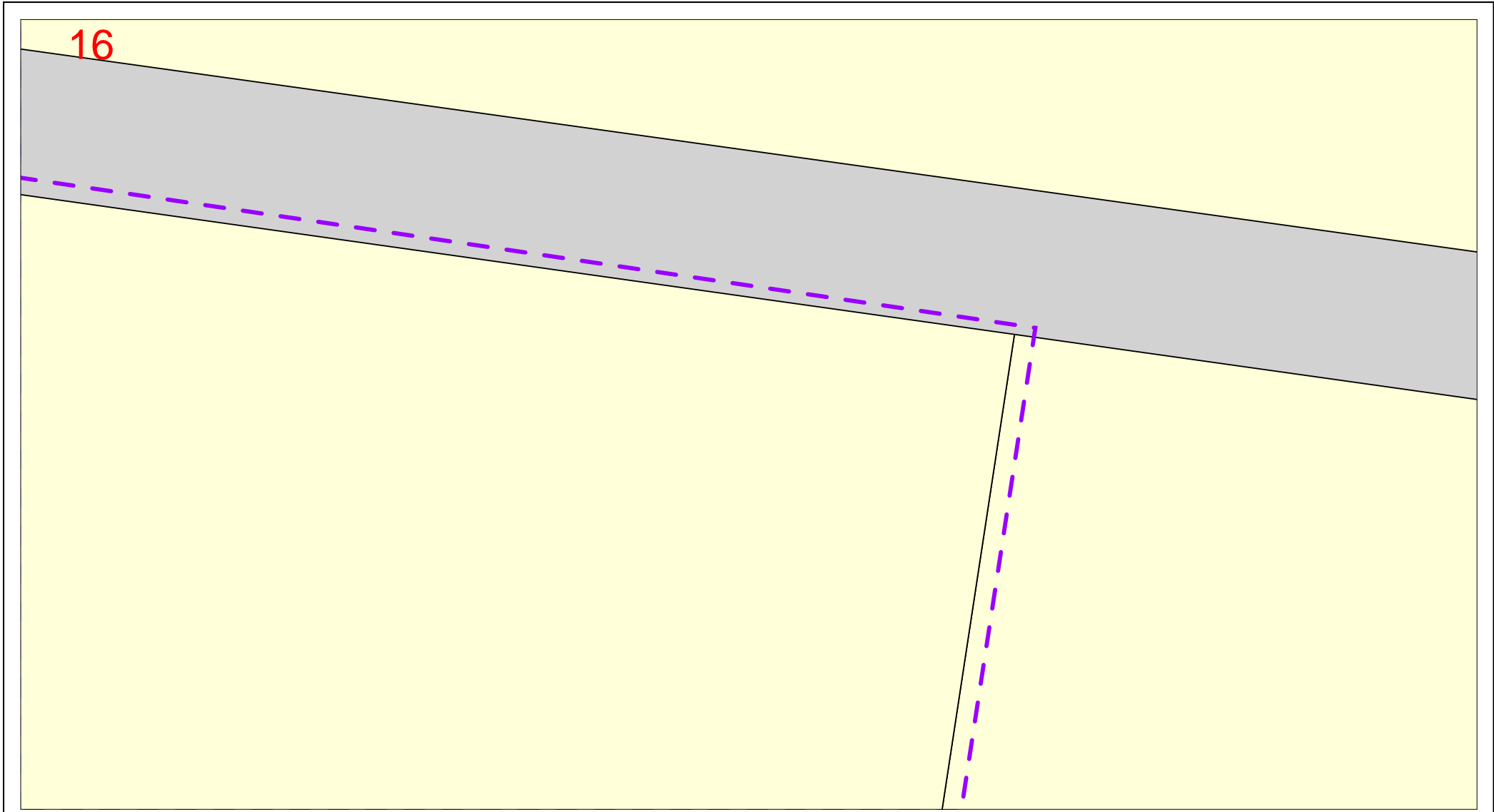
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Map 16

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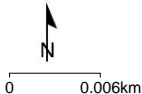
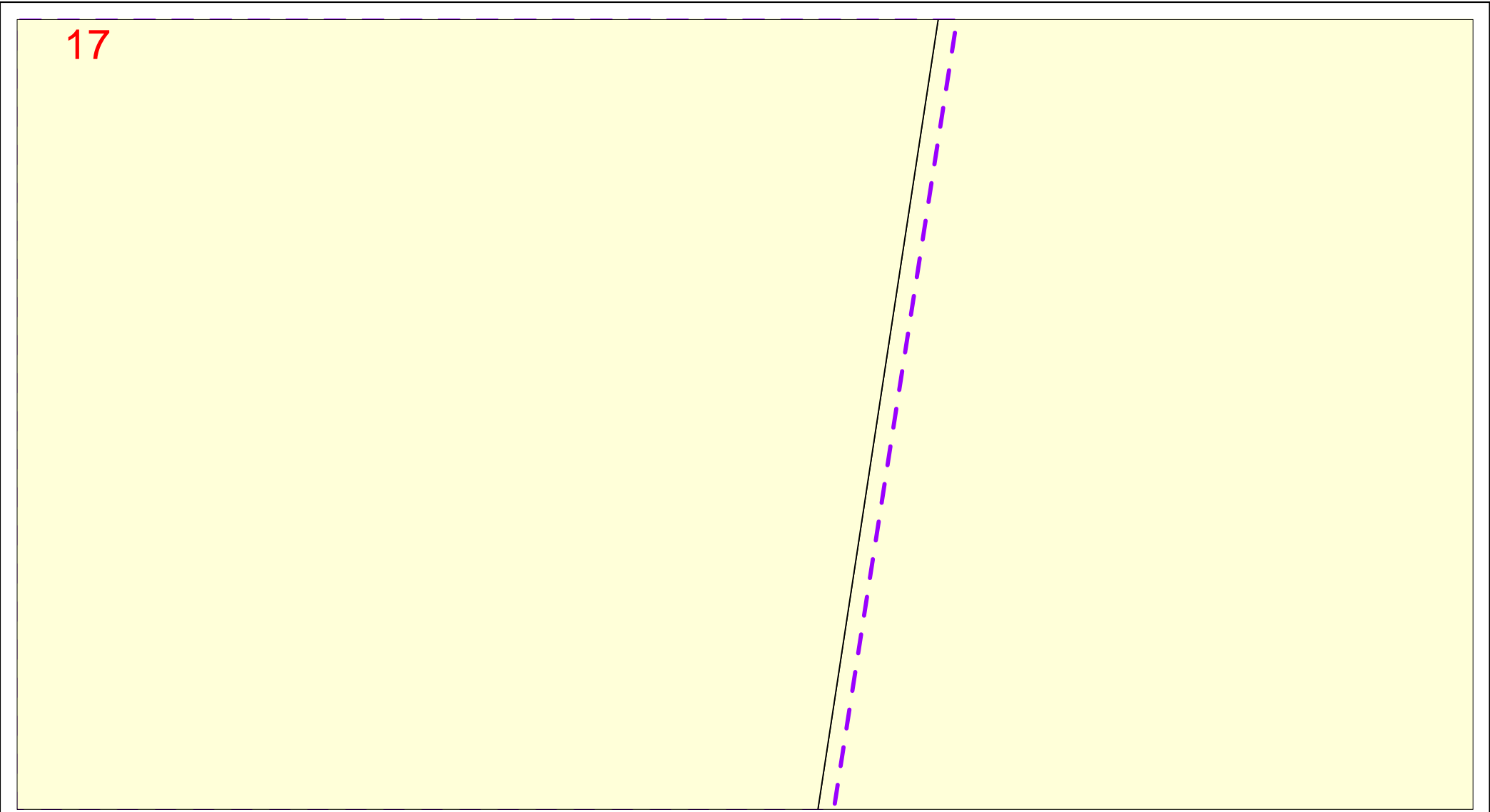
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Map 17

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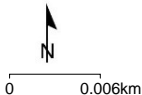
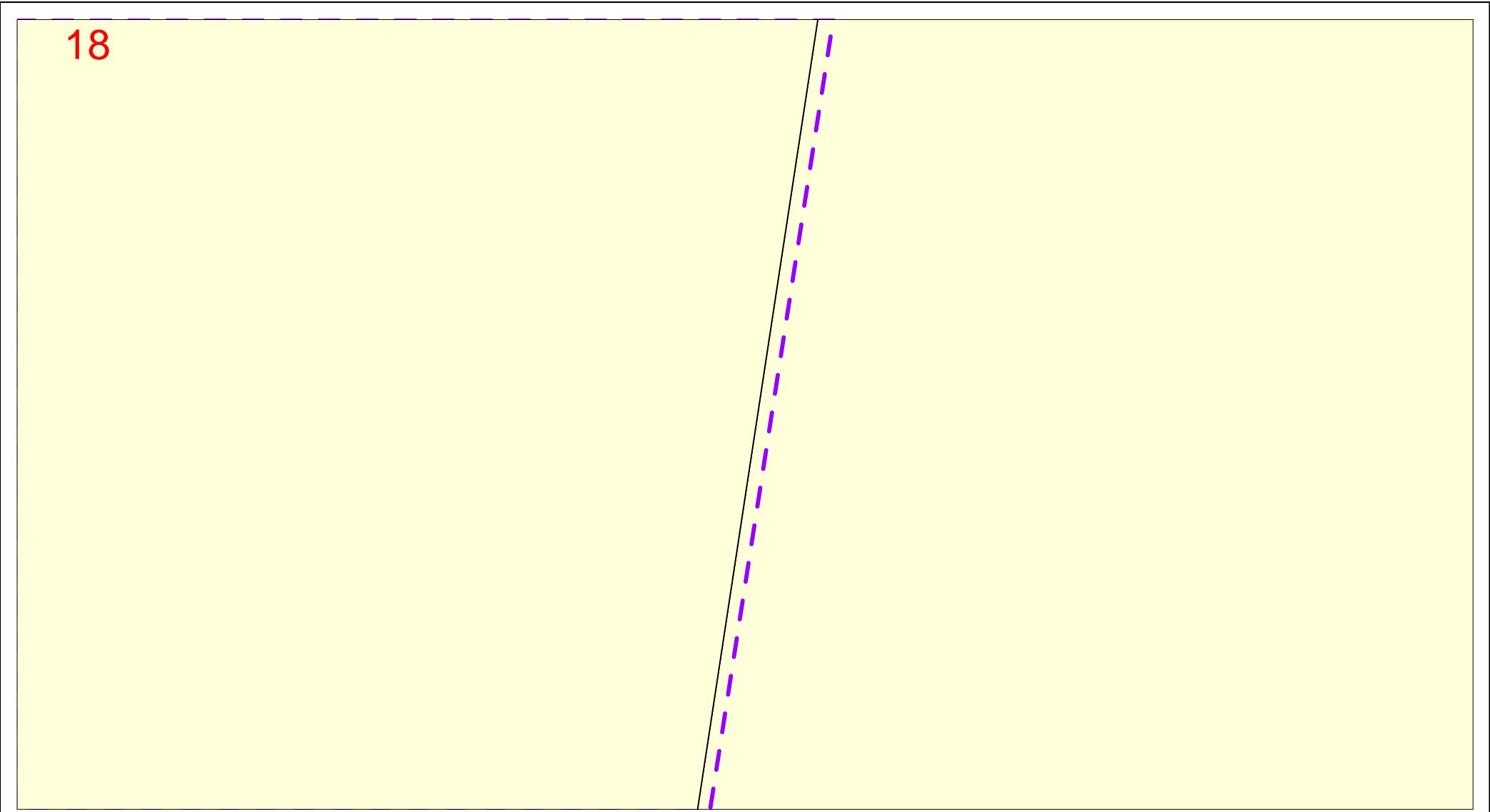
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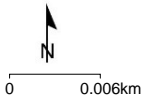
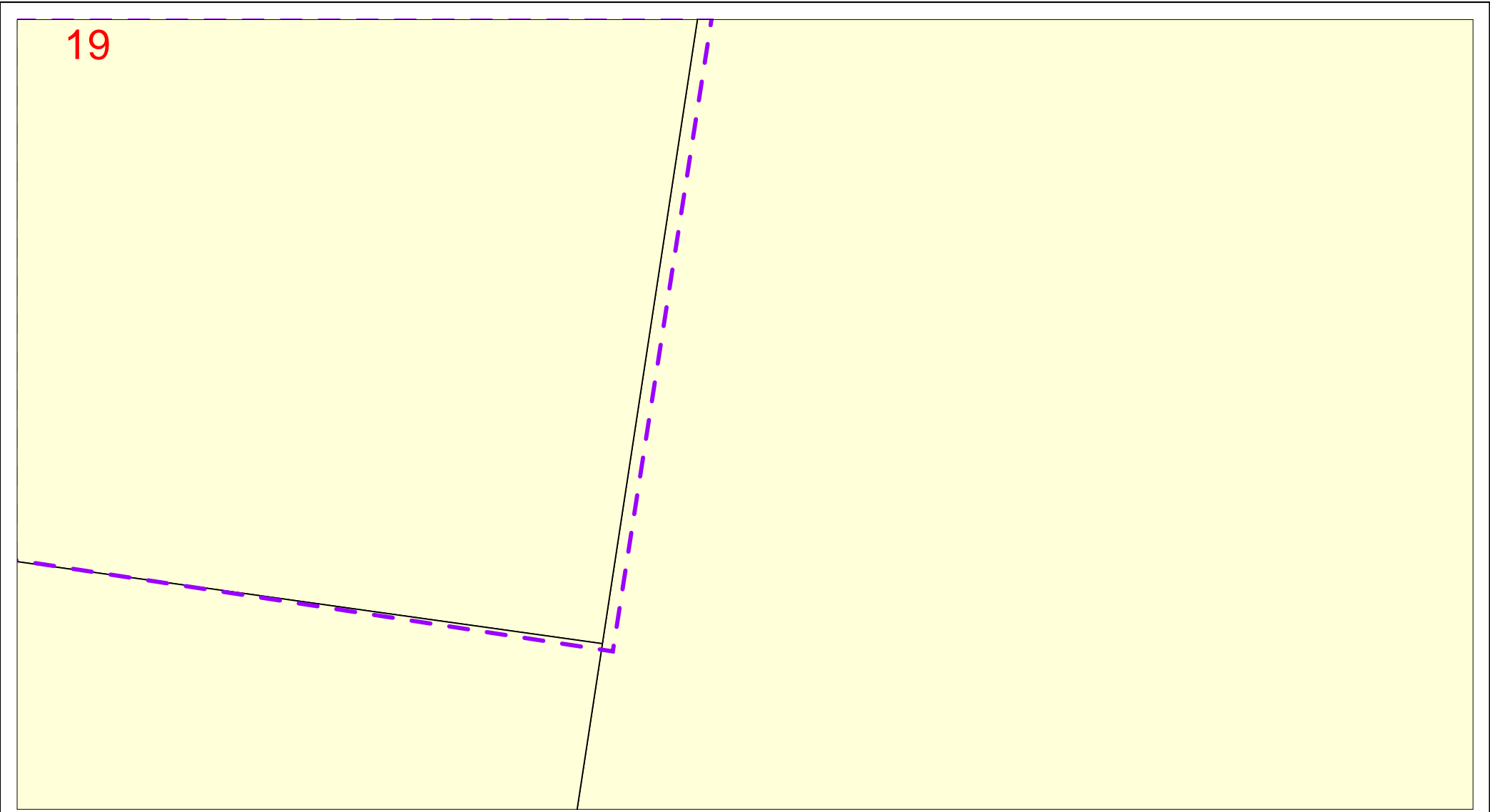
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


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AND THE CORPORATION ACCEPTS NO RESPONSIBILITY FOR
ITS ACCURACY.



















CADASTRAL DATA © Department Finance, Services & Innovation
[Nov 2017]

Hunter Water Corporation DBYD Asset Legend







Electrical Assets

-  High Voltage
-  Low Voltage
-  Electrical Pole
-  Distribution Transformer
-  Air Break Switch
-  Circuit Breaker
-  High Voltage
-  Low Voltage



















Water Assets

-  Contol Valve
-  Hydrant Control Valve
-  Reflux Valve
-  Stop/Scour Valve
-  Tee & Stop Valve
-  Hydrant
-  Cluster Box
-  End Cap
-  Flushing Tap
-  Manhole
-  Scour
-  Water Meter
-  Water Network Structure
-  Other Main
-  Trunk Main
-  Reticulation Main
-  Water Encased Mains
-  Water Prelaid Service

























HWC Rain Gauge





-  HWC Rain Gauge
-  HWC Stream Flow Gauge
-  Radio Base
-  Weather Station
-  Piezometer
-  Bore Site

RecycledWater Assets











-  Air Valve
-  Reflux Valve Open
-  Stop Valve Open
-  RecycledWater Hydrant
-  Cluster Box
-  End Cap
-  Flushing Tap
-  Manhole
-  Scour
-  RecycledWater Meter
-  RecycledWater Network Structure
-  Other Main
-  Reticulation Main
-  Reticulation Main Encased/Conduit
-  Trunk Main
-  Trunk Main Encased/Conduit
-  RecycledWater Encased Mains
-  RecycledWater Prelaid Service

Sewer Assets

-  Air Valve
-  Stop/Butterfly/Ball Valve
-  Gate Valve
-  Manhole
-  Cap
-  Dead End
-  Flushing Tank
-  H&V Bend
-  Junction Connection
-  Outfall
-  Overflow
-  Sewer/Valve Pit
-  Tangent Point
-  Sewer Meter
-  Sewer Vent
-  Sewer Network Structure
-  Other Main
-  Gravity Main
-  Pressure/Vacuum Main
-  Effluent Main
-  Outfall
-  Overflow Main
-  Rising Main
-  Sewer Encased Mains

-  StormWater Assets
-  StormWater Network Structure
-  StormWater Mains
-  Mains Abandon

Area of Interest

-  Area of Interest
-  Easement Non HWC
-  Fence Line
-  Non-HWC Easement
-  HWC Easement
-  Parcel
-  Road
-  Water Parcels
-  Hazardous Material
-  Map Sheet Index



CABLE/PIPE LOCATION
Assets were found in the search area

COMPANY NAME:	Not supplied
ATTENTION:	Peta Harris
EMAIL:	peta@perceptionplanning.com.au
SEARCH LOCATION:	306 Black Camp Creek Road Glen Martin NSW 2321
SEQUENCE NO:	201028316
DATE:	Monday, 26 July 2021

Provision of Plans:

Please find enclosed plans depicting approximate locations of **Essential Energy** assets in the search location. **The excavator must not assume that there may not be assets owned by other network operators in the search location.**

Underground assets searched for	Underground assets found
Essential Energy Electrical	<input checked="" type="checkbox"/>
Essential Energy Water & Sewerage	<input type="checkbox"/>

Plans are updated from time to time to record changes to underground assets and may be updated by Essential Energy without notice. In the event that excavation does not commence within 28 days of receipt of a plan, a new plan should be obtained.

The excavator must retain the plans on site for the duration of the works.

The excavator shall report all damage made to Essential Energy assets immediately. Note that damage includes gouges, dents, holes and gas escapes.

IN CASE OF EMERGENCY OR TO REPORT DAMAGE:
PHONE 13 20 80

DISCLAIMER

Please be aware that plans may **not** reflect alterations to surface levels or the position of roads, buildings, fences etc. **Cable and pipe locations are approximate** and the plans are **not** suitable for scaling purposes. *Essential Energy does not retain plans for privately-owned underground electrical or water & sewerage assets located on private property. Privately-owned underground electrical assets located on private property are the responsibility of the owner.*

The plans have been prepared for Essential Energy's sole use and benefit. **Essential Energy cannot and does not warrant the accuracy or completeness of the plans.** Essential Energy supplies them at no cost with the object of reducing the serious risk of unintentional damage being caused to its cables and pipes. **Essential Energy does not accept any responsibility for any omissions, inaccuracies or errors in the plans, or any reliance place on the material. Any reliance placed on any plan provided in response to your request is at your own risk.**



Essential Energy retains all intellectual and industrial property rights which exists or may exist in or with respect to the plan(s). The material provided is not to be copied or distributed beyond you.

You release Essential Energy from and against all claims, demands, actions and proceedings arising out of or in any way related to the use of the provided material.

Location of Assets on Site:

The plans indicate only that cables and pipes may exist in the general vicinity – they do not pinpoint the exact location of the cables and pipes.

If it is found that the location of cables or pipes on the plans can be improved, please notify Essential Energy on 13 23 91 (or fax 1800 354 636).

All individuals have a duty of care they must observe when working in the vicinity of underground cables and pipes. It is the **excavator's responsibility to visually expose the underground cables and pipes manually, ie. by using hand-held tools and non-destructive pot-holing techniques prior to any mechanical excavation**. The excavator will be held responsible for all damage caused to the Essential Energy network or cables and pipes, and for the costs associated with the repair of any such damage. The excavator will also be held responsible for all damage caused to any persons.

When digging in the vicinity of underground assets, persons should observe the requirements of the applicable Codes of Practice published by the NSW Work Cover Authority or Safe Work Australia, and any amendments from time to time by the Authorities, including although not limited to:

- Excavation Work
- Managing Electrical Risks in the workplace
- How to manage and control asbestos in the workplace

(Please refer to <https://www.workcover.nsw.gov.au/law-and-policy/legislation-and-codes/codes-of-practice>).

When digging in the vicinity of **electrical assets** persons should observe the requirements of the **Electricity Supply Act 1995**.

Persons excavating near live underground electrical reticulation and/or earthing cables **must exercise extreme caution at all times and adhere to the requirements of Essential Energy's Electrical Safety Rules**. (These are available on our website: <http://www.essentialenergy.com.au/content/safety-community> and include

- **Work near Essential Energy's Underground Assets:**
<http://www.essentialenergy.com.au/asset/cms/pdf/contestableWorks/CEOP8041.pdf> , and
- **Asbestos Fact Sheet:**
<http://www.essentialenergy.com.au/asset/cms/pdf/safety/AsbestosFactSheet.pdf>

In some situations these procedures call for work to be performed by authorised staff.

Should there be any doubt as to the exact location of any underground electrical assets, and the potential for conflict with live underground cables caused by excavation at your work site, you should contact

13 23 91 to arrange for an on-site visit by an Essential Energy representative. No construction or mechanical excavation work is to commence prior to this on-site visit and approval being obtained.

When digging in the vicinity of **water or sewer assets** persons should observe the requirements of the **Water Management Act 2000**.

Should there be any doubt as to the exact location of any underground water and sewer assets, and the potential for conflict with underground water and sewer pipes caused by excavation at your work site, you should contact **13 23 91** to arrange for an on-site visit. No construction or excavation work is to commence prior to this on-site visit and approval being obtained.

Prior Notification:

Please note that for excavation depths greater than 250mm near power poles and stays you should allow for **advance notice** in your construction program to permit Essential Energy time to allocate the necessary field resources to carry out the inspection at the site a **minimum of fourteen (14) working days prior to work commencing**. This service may incur a fee and this can be negotiated with the local Area Coordinator at the time of making the appointment. Failure to give reasonable notice to the local Area Coordinator may result in disruption to Essential Energy's planned works program in the district and could incur an extra charge over and above the normal rate for this service.

For further information please call 13 23 91.

Telstra DBYD Data Extraction

For non-ground breaking activities -

***Planning and design, conveyancing, tendering, educational or research, other data gathering**

Note - The supply of any Telstra data for non ground breaking activities is at Telstra's discretion. Data supply may be refused on commercial, privacy, security or other reasons.

*Planning and design requests submitted by identified utilities intending works on their own assets ***may** be exempt from the \$120 (GST inc) extraction fee for Standard Telstra Responses for non ground breaking activities. This is at Telstra's discretion and conditions may apply. Data extraction fees for all non standard responses however will still apply. Eg for large projects or non standard formats.

The supply of any data for non ground breaking activities is not subject to a 48hr response time; however Telstra will endeavour to respond within 48hrs for all standard responses. Please contact us directly for any urgent requests.

Standard Telstra Response - for non ground breaking activities \$120 (GST inc)

Criteria - Each request only requires a single delivery from Telstra (as in 1 request 1 Delivery).

A single delivery is either -

- **1 x Email with 1 x PDF map file** containing one or two A3 map pages (depending on network). Covers areas up to approx 500m in size.
- or-
- **1 x Email with 1 x DWF map file.** Covers areas up to approx 3km in size.
- or-
- **1 x *Posted delivery.-** (*only if email unavailable or at Telstra's discretion)

Posted is either -

- Posted softcopy of standard response on disk
- or-
- Posted printed hardcopy – maximum of 2 x A3 sheets only.

Non-Standard Response – for non ground breaking activities (fees apply)

Data Use Agreement (required for DXF format) **\$360** (GST inc)

Projects - If a response takes more than 30mins to extract data in any format will be at an hourly rate **(\$240** per hour GST inc).

- Projects that take 1 day or longer will be quoted individually.
- (All data will be provided in softcopy only - not printed).

Note - Multiple part requests through DBYD for one project will be amalgamated and considered a single project for data extraction charging purposes. Posted responses cannot be delivered within 48hrs, allow several days for delivery. Postage is by Australia Post standard delivery. Express delivery at additional cost. All prices and specifications are subject to change.

Telstra DBYD Data Extraction

For ground breaking activities -

***Manual or mechanical excavation, horizontal boring, vertical boring, blasting**

Standard Telstra Response – for ground breaking activities

cost to requestor - \$nil

Criteria - Each request only requires a single delivery from Telstra (as in 1 request 1 delivery).

A single delivery is defined as either -

- **1 x Email with 1 x PDF map file** containing one or two A3 map pages (depending on network). *Covers up to approx 500m.*
- or-
- **1 x Email with 1 x DWF map file.** *Covers up to approx 3km.*
- or-
- **1 x *Posted delivery** for customers requesting a response for their principal place of residence only, (and only when email delivery is unavailable or at Telstra's discretion).
Either -
 - Posted printed hardcopy (A3 sheets only- at Telstra's discretion)

Non-Standard Telstra Response – for ground breaking activities (fees apply)

An extraction fee is incurred if the response exceeds a standard response i.e. -

- Use of data requires a data use agreement (for example DXF format)
- If an individual job or project requires more than a single delivery (as defined above)
- Specific printing and/or posting of requests that are not for the principle place of residence
- Any other response other than a Standard Telstra Response for ground breaking activities

Data extraction costs for ground breaking activities -

- Posted hardcopy of standard response i.e. when not principle place of residence – max of 2 x A3 sheets (at legible scale) - **\$120** GST inc. Note - large areas will not be printed and posted.
- Requires Data Use Agreement – i.e. requirement for DXF files - **\$360** (GST inc)
- Non standard response over 30 mins extraction time for softcopy will be at an hourly rate (**\$240 per hour** GST inc).
- Projects that take 1 day or longer will be quoted individually.

Note - Multiple part requests through DBYD for one project will be amalgamated and considered a single project for data extraction charging purposes. Printing/posting fee exemptions may be provided at Telstra's discretion. Postage is by Australia Post standard delivery. All posted plans will normally be extracted within 48 hrs; time in transit through post is additional and may take several days Express delivery at additional cost. All prices and specifications are subject to change. Data extraction fees are based on various criteria including the principal excavation activity selected by the customer on the DBYD website. Telstra reserves the right to vary its fees in circumstances where the principal excavation activity is varied or misrepresented by the customer.

When working near underground electrical infrastructure

NSW legislation requires people who are planning to do excavation work to obtain copies of underground electricity cable plans through Dial Before you Dig (Phone 1100) and to make sure that the plans are no more than 30 days old when excavation commences.

The aim of the legislation is to ensure that when workers dig or drive items near underground electricity cables, ducting, and pipes, they will establish the exact location of the cables and thus avoid coming into contact with them or damaging them. These items carry vital services such as electricity, water, gas and communications, and establishing their location before digging will help ensure worker safety and prevent damage to the network which may cause disruption of essential services to local communities.

Excavate safely and protect underground assets

Dial Before You Dig (DBYD) is the first step to excavating safely. You should use DBYD when you will be undertaking (but not restricted to) the following:

- > Any excavation using machinery digging deeper than 150mm. This includes but is not restricted to back hoes, excavators, borers & kanger hammers (ploughing or ripping activities)
- > Any excavation using hand tools deeper than 300mm which includes shovels, spades and crow bars
- > Any vertical or horizontal boring.

Note: The above examples are general and may not cover all situations in the regulations where a DBYD would be required e.g. driving metal posts in the ground.

Regardless of the size of your project you should lodge an enquiry with DBYD before commencing work. This applies to small tasks like backyard landscaping, driving items into the ground as well as heavy work such as directional boring or directional drilling. DBYD strive to respond to enquiries within two business days.

Dial Before You Dig

- > Phone 1100
- > Web www.1100.com.au
- > Download the DBYD iPhone app



The Essential First Step

When a DBYD has been obtained, contact Essential Energy on **13 23 91** to identify any underground pipes and/or cables in the vicinity of excavation works to be carried out. Allow at least **two weeks or 10 working days advance notice** in your construction program to permit Essential Energy time to allocate the necessary field resources to carry out an onsite inspection if required. This service may incur a fee & should be stated at the time of making the appointment.

In the event the excavation does not commence within 28 days of receipt of a plan, a new plan should be obtained. The excavator **must** retain the plans on site for the duration of the excavation works.

Your responsibility

All individuals have a duty of care they must observe when working in the vicinity of underground cables, ducts and pipes. Be aware of the requirement set out in the latest WorkCover Codes of Practice 'Work near Underground Assets Guideline' and 'Work near Overhead Powerlines' which can be viewed at www.workcover.nsw.gov.au or you can purchase a copy of the Code of Practice by contacting WorkCover on 1300 799 003.

You should also be familiar with Essential Energy's operational procedures 'Work near Essential Energy's underground assets' CEOP8041 and 'Construction work near electricity network' CEOP1116, which can be found at essentialenergy.com.au/construction

- > **Employers:** If you're an employer or employing someone to excavate, complete construction or drive items into the ground even at home you have a legal obligation to ensure their safety
- > **Excavators:** It is the excavator's responsibility to visually expose the underground pipes and cables manually before any construction begins.

Note – when excavating involving high pressure water or compressed air to break up the ground, which is then removed by a powerful vacuum unit to expose critical utilities after they have been electronically located to confirm identity, size, number of services and depth, checks should be carried out to ensure the pressure is acceptable for all cables and other assets which may be found prior to commencing pot holing by this method. Warning: CONSAC cables shouldn't be potholed by this method and must be de-energised before any work carried out near them. It's recommended to only use air/vacuum equipment to pot hole that operates at or less than 13,790Kpa (2000psi).

Be safe, because they need you



No Go Zone for powered excavation

Extract from WorkCover “Work near Underground Assets”

TABLE 1: Types of assets and limits of underground approach

Assets	Clearances	No Go Zone for Powered Excavation	Controls	Typical Depths
Low voltage electricity cables – voltages less than or equal to 1000V (1kV)	Close proximity with the use of hand tools	300 mm	Must contact asset owner for specific conditions	450 – 750 mm
Electricity conductors from 11,000V (11kV) up to 33,000V (33 kV)	Close proximity with the use of hand tools	600 mm	Must contact asset owner for specific conditions	900 mm
Underground sub-transmission cables 33,000V up to 132,000V (132 kV)	Must contact asset owner	Must contact asset owner	Must be carried out under the supervision of the asset owner	900 mm
High Voltage Electricity cables – voltages from 1000V (1kV) up to (33 kV)	Close proximity with the use of hand tools	Must contact asset owner	Must contact asset owner for specific conditions	600 – 1000 mm
Extra High Voltage Electricity Transmission cables – voltages above (132 kV) and 330,000V (330 kV)	Must contact asset owner	Must contact asset owner	Work must be carried out under the supervision of the asset owner	800 – 1200 mm

How to expose cables or pipes

Location plans provide an indication of the presence of underground assets only; they do not pinpoint the exact location. This is why manual exposure is required, which can be done by potholing. Underground assets must first be exposed by pot-holing with non-conductive tools to identify their location. Excavation with hand tools shall be carried out carefully up to, but not closer than, the minimum distances specified in Table 1. Several potholes may need to be dug manually to determine and satisfy yourself of the exact locations of cables or pipes to avoid any mishaps. Manual pot-holing needs to be undertaken with extreme care, common sense and while employing techniques least likely to damage cables. For example, orientate shovel blades and trowels parallel to the cable rather than digging across the cable. Look out for sand, plastic strips or specially marked bricks when excavating, which signal the presence of underground cables.

Only once all underground assets have been located, marked and protected against damage can the excavation proceed with caution.

No Go Zone for powered excavation

Directional boring is powered excavation and contact with the asset owner must be made before excavation takes place. For directional boring across the line of an asset a minimum clearance of **300 mm** from the asset shall be maintained. When boring across the line of an underground asset, the location of the asset/s shall be positively proven by hand digging (pot-holing) or by another approved method and a safety observer appointed.

Note: Where the risk assessment identifies a potential risk of making contact with either underground assets, safety observer/s would be required. The safety observer's

responsibility is to ensure that approach distances from underground and overhead assets are maintained.

For boring under electricity cables, the only true way of knowing where the directional drill is, is to “see” it. It is necessary to excavate a slit trench at right angles to the approaching drill and 500mm deeper than the asset being protected and beside the cables to confirm the depth of the cables and ensure the drill is not within the minimum approach distance of the cable (specified in Table 1).

For directional boring parallel to the asset and at the level of the asset, a clearance of **500 mm** shall be maintained from the edge of the nearest asset and pot holed at 10m intervals to ensure clearances are maintained with a safety observer appointed.

The four Ps of safe excavation

- 1. Plan** – Plan your job. Use the Dial Before You Dig service before your job is due to begin to help keep your project safe. Contact Essential Energy on 13 23 91 to identify any underground pipes and/or cables in the vicinity
- 2. Pothole** – Potholing (digging by hand) is a method to assist in establishing the exact location of all underground infrastructure. Only use air/vacuum equipment to pot hole that operates at or less than 13,790Kpa (2000psi)
- 3. Protect - Protecting and supporting exposed infrastructure is the excavator's responsibility.** Always erect safety barriers in areas at risk to protect underground networks
- 4. Proceed** – But ONLY when you have planned, potholed and put the protective measures in place.

Be safe, because they need you



Digging safely

You cannot be too careful when it comes to safe excavation. Avoiding underground ducting pipe and cable damage is as simple as having the right tools, the right skills and the right information.

- > Study the plans you receive from asset owners thoroughly
- > Check to see if they relate to the area you requested and make sure you understand them. If you are unclear about what the symbols mean or how to proceed, contact the relevant network owner
- > Check the work area for other forms of electrical equipment, including street lights, ground substations, phone boxes or traffic lights – all good indicators that underground cables will be present
- > Remember underground cables can also be present even if overhead powerlines have been identified
- > Never assume the depth or alignment of pipes and cables. Installed networks assets may not have been installed in a straight line
- > Always observe any instructions stated on the plans provided by the asset owner
- > Remember, plans and maps identifying the location of underground cables and depths can alter after road upgrades or developments and underground assets may be as little as a few millimetres below the surface
- > Other service lines (for example gas mains (pipes) and communication cables) can also be present. Shared trenches are frequently used on underground runs to premises
- > New electrical cables are sometimes laid using existing old conduits
- > Various methods of protecting underground cables may be utilised (for example electrical bricks, conduits, concrete or flat PVC barriers) or may be direct buried or installed by under-boring methods which may have no visual disturbance of the ground
- > Ensure overhead & electrical structures aren't undermined during excavation.

Earth cables

Earth cables are an important part of all electrical installations and have two main purposes:

- > To safeguard against the possibility of danger to life
- > To maintain the good working order of the electrical network.

They can have potentially dangerous electrical current flowing through them. Usually they have a green and yellow covering but could be a bare cable buried directly in the ground.

Even if the map provided does not show underground cables, earth cables may be present. These earth cables are usually associated with electrical equipment located

on the pole such as transformers, switching equipment, permanent earthing points or Padmount / kiosk subs.

It's recommended that if any excavation is to take place within **10m** of a power pole with a cable running down it into the ground, contact is made with Essential Energy on **13 23 91** to have the earthing system located. While an effort is made to install the earthing under the powerline and guy if installed, sometimes circumstances may require a variation to this, so don't assume where they are installed. The distance and configuration that the earthing cable is installed varies due to the soil conditions and system type (e.g. Single wire earth return (SWER)).

Additional earthing electrodes stakes may be installed to ensure the required earthing reading is obtained.

WARNING:SWER installations

- > Contacting SWER earthing can be deadly
- > Voltage is present on SWER transformer earthing systems either at 12.7 kV or 19.1kV
- > NO excavation is allowed within 10 metres of a SWER transformer pole.

Excavating around electrical poles

Anyone intending to excavate around any electrical item risks serious injury or death as a result of contact with underground cables or the earthing system.

Assets around poles

For excavation depths greater than 250mm near power poles and stays you must arrange for an Essential Energy representative to attend the worksite 2 weeks prior to work commencing. Call Essential Energy on **13 23 91**. More information is available in Essential Energy's operational procedure, 'Work near Essential Energy's underground assets: CEOP8041' which can be found at essentialenergy.com.au/construction

Unless otherwise agreed, underground assets and other obstructions around poles are to be kept a minimum distance of 300mm from the periphery of the pole, to allow inspections by the asset owner employees.

No excavation within 10 metres of a SWER transformer pole is to occur without the approval of the local electricity asset owner. It should be noted that the NSW Service and Installation Rules require a sketch of the underground service/consumers mains to be marked inside the switchboard.

The risks are higher for those earthing systems of the SWER constructions as the earthing is utilised as the return path.

Be safe, because they need you



Typically any electrical item installed on a pole will have an earth wire running down the pole into the ground, which includes:

- > Transformers in urban and rural situations
- > Isolation, protection and regulation items.

Transformers located on the ground (padmount and kiosk), besides having underground electrical cables, will have an earthing system installed around them.

Damaged earthing

If an earth cable has been damaged, maintain a clearance of eight (8) meters and contact Essential Energy on **13 23 91**. **DONT ATTEMPT** to re-join the cable - this will place you at serious risk.

Operating near underground cables and earths

- > Underground cables should never be moved or relocated unless under the express authority of the organisation or person responsible for the powerlines
- > The excavator shall report all damage made to Essential Energy assets immediately. Damage includes: gouges, dents, holes and gas escapes
- > Never undermine poles, cables, earthing cable, pad-mount and kiosk substations.



Above: Poles with become unstable if undermined

Make sure it can't go wrong

You should ensure that people at work, their equipment (tools and plant) or materials do not come within close proximity to underground powerlines unless:

- > A written risk assessment has been completed and a safe system of work implemented
- > The relevant safety precautions and worker training requirements, including WorkCover Codes of Practice and Essential Energy's requirements, have been implemented and complied with.

If working in close proximity to underground cables is unavoidable and the risk assessment has been completed, the following should be considered to control the risks and ensure work safety:

- > Have the power switched off by Essential Energy
- > Consider all conductors as live unless it is positively known they have been de-energised
- > Where appropriate, provide ground markings to identify location and warn workers of the presence of underground power and other assets.

Emergency situations

In the event that contact with an underground powerline occurs or cables are exposed or damaged, remembering the following points could help save a life:

- > If the situation is at all life threatening, immediately contact the Emergency Services on 000 (triple zero)
- > Call Essential Energy's 24-hour supply interruptions line – **13 20 80** to switch off the power if required or report damage or exposure cables / conduits
- > If any other underground assets are damaged you should contact the affected asset owners immediately
- > Treat underground cables as alive, even if they appear to be dead
- > Keep everyone at least eight metres away from the incident site, the person or any machinery making contact with underground cable
- > Don't panic or touch the person receiving the electric shock – this could place you at risk
- > Untrained, unequipped persons should not attempt to rescue a person receiving an electric shock. All too often secondary deaths occur when others go to the aid of earlier victims
- > Remain on/inside the machinery until the supply is disconnected
- > If possible, break contact between the machinery and underground cable.



For more information

Essential Energy's Public Safety team is available to facilitate Electrical Awareness sessions and discuss any questions relating to electrical safety. For more information on electrical safety please call

- > Essential Energy General Enquiries 13 23 91
- > Essential Energy Supply Interruptions 13 20 80
- > WorkCover NSW 13 10 50
- > Dial Before You Dig www.1100.com.au 1100

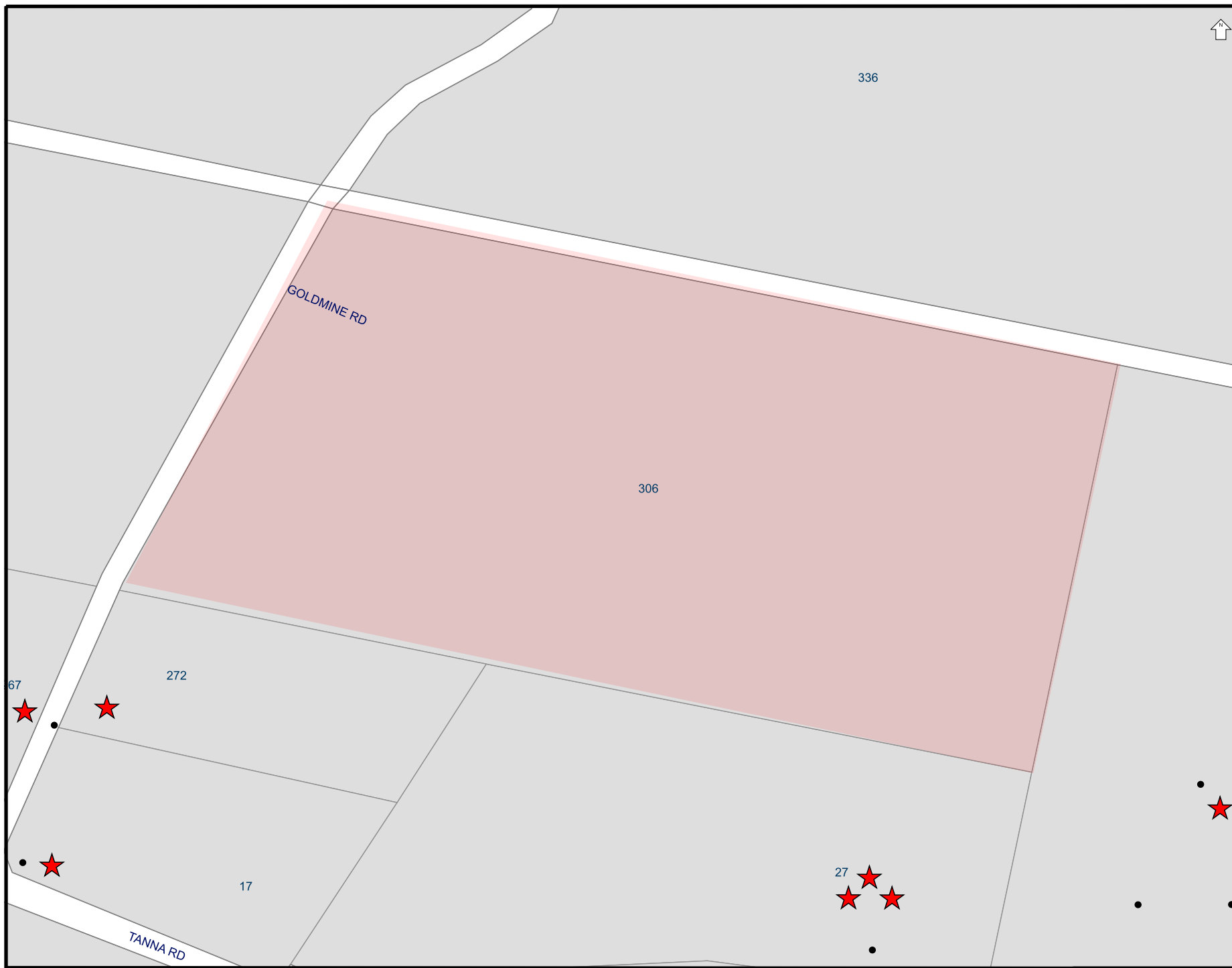
- > Follow us  
- > or visit essentialenergy.com.au/safety

Safety first: Before you dig or drive items into the ground

1. Contact DBYD
2. DO NOT attempt to excavate within 10m of any power pole or electrical item
3. Contact Essential Energy on 13 23 91 for assistance to locate cables and earthing
4. Locate asset: Pot-hole
5. Proceed only if you have satisfied yourself it is safe.

Be safe, because they need you





Overhead wires not shown
LOOK UP & LIVE!

LEGEND

- - - - - LV Underground Cable
- - - - - HV Underground Cable
- - - - - Underground Pipe
- ★ Underground Earth or Wires
- ▲ Ground Substation
- Pole
- ☒ Cubicle
- Pit
- Area of Interest

Critical Assets

Contact Essential Energy
on 13 23 91

- ▨ Zone Substation
- . - . - Underground Cable
- . . - . Underground Fibre

Proposed Works

- ▨ Area of proposed works

Proposed assets are shown as
orange symbols

**THE INFORMATION ON THIS
MAP MAY NOT BE
ACCURATE.
If details are
incorrect, please
notify
Essential Energy on
13 23 91
(or fax 1800 354 636)**

ISSUE DATE: 26/07/2021

You must resubmit your
request if you have not
started work within 4 weeks
of the 'Issue Date' above

A4 SCALE: 1:4174



Job Number: 30178374

Sequence number: 201028316

Job location: 306 Black Camp Creek Road, Glen Martin

Map
Centre: