

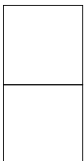
# Digital regulatory infrastructure and rules as code in New Zealand

DocRef.Org

Syncopate.

## Overview

- Welcome and housekeeping
- About us
- Our approach (MIT report)
- An example
- DocRef and Syncopate tools
- Immediate opportunities for better digital regulatory systems



21 November 2024

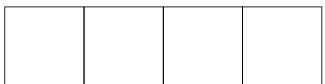
tom@syncopatelab.com





# Housekeeping

- Recording this session
- Distributing these slides
- Send questions to [tom@syncopatelab.com](mailto:tom@syncopatelab.com)
- Orientation toward New Zealand for today



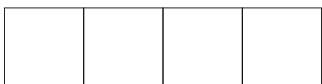


## Tom Barraclough

- Law and public policy (10+ years)
- Litigation and dispute resolution
- Think tank and public interest legal research
- Tech policy and regulation
- Clients in public and private sector, domestic and international
- Work outside, inside and alongside government

## Hamish Fraser

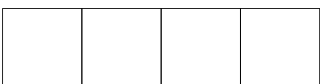
- Software development and implementation (20+ years)
- Verb (software company)
- Local government
- Central government
- Service Innovation Lab
- Rules as code training and development
- Work outside, inside and alongside government





## Big picture themes

- Regulation of digital systems (social media, AI, digital identity)
- Hierarchy of regulatory instruments (legislation, regulations, codes of practice, guidelines, technical standards)
- Digital systems essential for creating, implementing and complying with regulation (rules as code)
- Treat law and regulation as if paper-based
- Better integration is unavoidable and essential



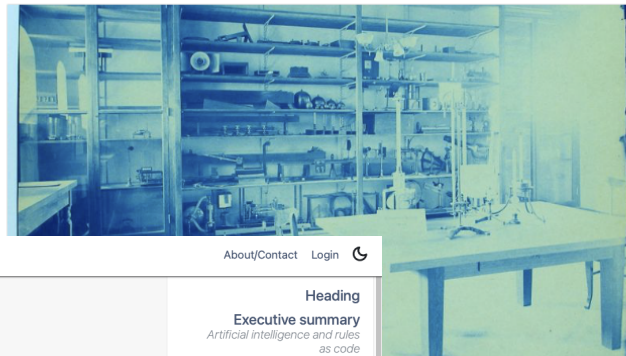
# Computational Law

@ law.MIT.edu

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## Generative AI for Law - Special Release Part 2



### Governing Digital Legal Systems: Insights on Artificial Intelligence and Rules as Code

by Hamish Fraser and Tom Barracrough



Published: Oct 15, 2024

This article explores how AI and 'rules as code' are turning law into automated systems. It highlights the need for governance focused on transparency, explainability, and risk management to ensure these digital legal frameworks stay reliable and fair.

DocRef.Org

## Governing Digital Legal Systems: Insights on Artificial Intelligence and Rules as Code 2024

Version: 1 Date: 2024-10-15 Source: [link](#)

### Governing Digital Legal Systems: Insights on Artificial Intelligence and Rules as Code

Hamish Fraser, Tom Barracrough

#### Executive summary

#### *Artificial intelligence and rules as code*

#### AI systems

1. The world is swamped with activity on artificial intelligence. In particular, a number of governmental and commercial operators are examining how artificial intelligence can be deployed in legal and regulatory contexts.
2. This more recent activity comes at a time when guidance, principles, best practice and other forms of soft regulation have already been established. These are now crystallising into binding legislation as well as other forms of harder regulatory restriction.

#### Rules as code

3. More modestly, another approach to automated systems is catching the attention of commercial, academic and governmental audiences, known as "rules as code". Rules as code is a label given to a deliberate approach to converting law and other forms of regulation into computer code and other digital formats. This enables law to be read by and operationalised in digital systems. Three key use cases for rules as code include:
  - (a) **Deployment in automated decision-making systems.** Systems can receive data inputs representing key facts, apply algorithmic rules to that data in ways that approximate the law, and produce outputs that indicate how the law applies to that given set of facts. Deployment of rules as code in this way permits clear explanations for how the

About/Contact Login

#### Heading

#### Executive summary

*Artificial intelligence and rules as code*

*Governing digital legal systems*

*Recommendations and way forward*

#### Artificial intelligence, rules as code, and digital legal systems

*Contemporary regulation of artificial intelligence*

*What is "rules as code"?*

*Contemporary interest in rules as code*

*The role of legal interpretation*

*"Highly reliable interpretations" implemented as code*

*Potential uses of rules as code systems*

*Key conclusions*

#### Governing digital legal systems

*Governing digital components*

*Governing legal components*

*An expansive view: digital legal systems*

#### Conclusion and next steps

*Developing body of practice and research*

*Key governance questions in our experience*

*Invitation to partner and collaborate*

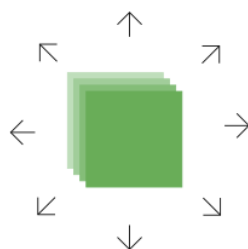


# Governing digital legal systems

## Insights on artificial intelligence and rules as code

Hamish Fraser and Tom Barraclough

June 2024



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**Table 3. Reporting requirements for level 1 Rules.**

Rule Number	Parameter	Compliance period	Reporting period <sup>8</sup>
T1.8	<i>E. coli</i> , total coliforms	3 Months	6 Months
T1.8	Turbidity	3 Months	6 Months
D1.1	<i>E. coli</i> , total coliforms	3 Months	6 Months

**Table 4. Reporting requirements for level 2 rules.**

Rule Number	Parameter	Compliance period	Reporting period <sup>9</sup>
T2.2	<i>E. coli</i> , total coliforms	1 Month	3 Months
T2.9	Turbidity	1 Month	3 Months
T2.13	UV dose	1 Month	3 Months
T2.18	FAC	1 Month	3 Months
T2.19	pH	1 Month	3 Months
D2.1	<i>E. coli</i> , total coliforms	1 Month	3 Months
D2.5	FAC	1 Month	3 Months

**Table 5. Bacterial reporting requirements for level 3 Rules.**

Rule <sup>10</sup>	Parameter	Compliance Period	Reporting period <sup>11</sup>
<i>If chlorine is the primary disinfectant</i>			
T3.2	Chlorine C.t	1 Day	1 Month
<i>If chlorine dioxide is the primary disinfectant</i>			
T3.8	Chlorine dioxide C.t	1 Day	1 Month
<i>If ozone is the primary disinfectant</i>			
T3.13	Ozone residual	1 Day	1 Month
<i>If UV is the primary disinfectant</i>			
T3.17	UV dose	1 Day	1 Month

<sup>8</sup> Report must be provided to Taumata Arowai within 20 working days of the end of June and end of December.

<sup>9</sup> Report must be provided to Taumata Arowai within 20 working days of the end of each quarter.

<sup>10</sup> Reporting is only required against one of the rules in this column depending on whether chlorine, ozone or UV is used as the primary disinfectant.

<sup>11</sup> Report must be provided to Taumata Arowai within 10 working days of the end of each month.

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## Water Services (Drinking Water Standards for New Zealand) Regulations 2022

Rt Hon Dame Helen Winkelmann, Administrator of the Government

### Order in Council

**Table 2**  
**Maximum acceptable values for inorganic determinands**

Determinand	Maximum acceptable value (mg/L unless otherwise stated)	Notes
Aluminium	1	
Antimony	0.02	
Arsenic	0.01	
Barium	1.5	
Boron	2.4	
Bromate	0.01	
Cadmium	0.004	
Chlorate	0.8	
Chlorine	5	Expressed in mg/L as Cl <sub>2</sub>
Chlorite	0.8	
Chromium	0.05	Total chromium content
Copper	2	
Cyanide	0.6	
Cyanogen chloride	0.4	
Fluoride	1.5	
Lead	0.01	
Manganese	0.4	
Mercury	0.007	Inorganic mercury only
Monochloramine	3	Expressed in mg/L as Cl <sub>2</sub>
Nickel	0.08	
Nitrate, short-term	50	Expressed in mg/L as NO <sub>3</sub> , or 11.3 mg/L as NO <sub>3</sub> -N
Nitrite, short-term	3	Expressed in mg/L as NO <sub>2</sub>
Nitrate and nitrite	Σ ratio < 1	The sum of the ratio of the concentrations of nitrate and nitrite to each of their respective MAVs must not exceed 1
Perchlorate	0.08	
Selenium	0.04	
Uranium	0.03	



ID	Rule Module	Rule Number	Level	Parameter Determinand ID	Type	Log	Compliance Period	Reporting Period	Report Timeframe	Sampling Frequency	Duration Between Samples	Determinand Check	Unit Check	Sample Reporting	Report Supply Level	Minimum Buildings	Rule Applies
G1	G	G1	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	1		S1,T1,D1
G2	G	G2	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	1		S2,T2,D2
G3	G	G3	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	1		S3,T3,D3
G4	G	G4	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	1		S1,S2,S3,T1,T2,T3,D1,D2,D3
G5	G	G5	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	1		S2,T2,D2,S3,T3,D3
G6	G	G6	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	1		S1,S2,S3,T1,T2,T3,D1,D2,D3,WC,TDWS
G7	G	G7	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	1		S1,S2,S3,T1,T2,T3,D1,D2,D3,WC,TDWS
G8	G	G8	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	1		S1,S2,S3,T1,T2,T3,D1,D2,D3,WC,TDWS
G9	G	G9	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	1		S1,S2,S3,T1,T2,T3,D1,D2,D3,WC,TDWS
G10	G	G10	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	1		S1,S2,S3,T1,T2,T3,D1,D2,D3,WC,TDWS
G11	G	G11	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	1		S1,S2,S3,T1,T2,T3,D1,D2,D3,WC,TDWS
G12	G	G12	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	1		S1,S2,S3,T1,T2,T3,D1,D2,D3,WC,TDWS
G13	G	G13	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	0		T1,T2,T3
G14	G	G14	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	0		T3,D3
G15	G	G15	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	0		S2,S3,D2,D3
G16	G	G16	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	0		D2,D3
G17	G	G17	0		Assurance	N/A	Annually	Annually	40 Working Days	N/A	N/A	0	0	1	0		T3,D3
VSC.1-ecol	VSC	VSC.1	0	ecol	Monitoring	N/A	Annually	Not Reported	N/A	Every 6 Months	At least 5 Months	1	1		1		VSC
VSC.1-coli	VSC	VSC.1	0	coli	Monitoring	N/A	Annually	Not Reported	N/A	Every 6 Months	At least 5 Months	1	1		1		VSC
VSC.2	VSC	VSC.2	0		Assurance	N/A	Annually	Not Reported	N/A	N/A	N/A	0	0		1		VSC
VSC.3	VSC	VSC.3	0		Assurance	N/A	Annually	Not Reported	N/A	N/A	N/A	0	0		1		VSC
S1.1-ecol	S1	S1.1	1	ecol	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Months	N/A	1	1	2	0		S1
S1.1-coli	S1	S1.1	1	coli	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Months	N/A	1	1	2	0		S1
S1.1-ar-se	S1	S1.1	1	ar-se	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S1
S1.1-boro	S1	S1.1	1	boro	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S1
S1.1-nitr	S1	S1.1	1	nitr	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S1
S1.1-iron	S1	S1.1	1	iron	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S1
S1.1-mang	S1	S1.1	1	mang	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S1
S1.2-ecol	S1	S1.2	1	ecol	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Months	N/A	1	1	2	0		S1
S1.2-coli	S1	S1.2	1	coli	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Months	N/A	1	1	2	0		S1
S1.2-cadm	S1	S1.2	1	cadm	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S1
S1.2-copp	S1	S1.2	1	copp	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S1
S1.2-zinc	S1	S1.2	1	zinc	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S1
S1.2-lead	S1	S1.2	1	lead	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S1
S1.2-benz	S1	S1.2	1	benz	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S1
S1.3	S1	S1.3	1		Assurance	N/A	Annually	Not Reported	N/A	N/A	N/A	0	0		0		S1
S1.4	S1	S1.4	1		Assurance	N/A	Annually	Not Reported	N/A	N/A	N/A	0	0		0		S1
S1.5	S1	S1.5	1		Assurance	N/A	Annually	Not Reported	N/A	N/A	N/A	0	0		0		S1
S2.1-ecol	S2	S2.1	2	ecol	Monitoring	N/A	N/A	Annually	40 Working Days	Monthly	N/A	1	1	2	0		S2
S2.1-coli	S2	S2.1	2	coli	Monitoring	N/A	N/A	Annually	40 Working Days	Monthly	N/A	1	1	2	0		S2
S2.1-ph	S2	S2.1	2	ph	Monitoring	N/A	N/A	Annually	40 Working Days	Every 6 Months	N/A	1	1	2	0		S2
S2.1-turb	S2	S2.1	2	turb	Monitoring	N/A	N/A	Annually	40 Working Days	Every 6 Months	N/A	1	1	2	0		S2
S2.1-iron	S2	S2.1	2	iron	Monitoring	N/A	N/A	Annually	40 Working Days	Annually	N/A	1	1	2	0		S2
S2.1-mang	S2	S2.1	2	mang	Monitoring	N/A	N/A	Annually	40 Working Days	Annually	N/A	1	1	2	0		S2
S2.1-nitr	S2	S2.1	2	nitr	Monitoring	N/A	N/A	Annually	40 Working Days	Annually	N/A	1	1	2	0		S2
S2.1-ar-se	S2	S2.1	2	ar-se	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S2
S2.1-boro	S2	S2.1	2	boro	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S2
S2.2-ecol	S2	S2.2	2	ecol	Monitoring	N/A	N/A	Annually	40 Working Days	Monthly	N/A	1	1	2	0		S2
S2.2-coli	S2	S2.2	2	coli	Monitoring	N/A	N/A	Annually	40 Working Days	Monthly	N/A	1	1	2	0		S2
S2.2-cadm	S2	S2.2	2	cadm	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S2
S2.2-copp	S2	S2.2	2	copp	Monitoring	N/A	N/A	Annually	40 Working Days	Every 3 Years	N/A	1	1	2	0		S2



Home (Datasets)

Rule Builder

Dataset Guides

Reporting Rules >

Parameters and  
Determinands >

# Rule Builder

## Supplier Type

- Very Small Communities

Up to 25 people, or up to 50 people for up to 60 days in any 12 month period.

☐
- Networked Supplies

☐
- Self-supplied Buildings

☒
- Community Drinking Water Stations

Any population size

☐
- Water Carrier Supplies

Any population size

☐
- Water Carrier Services

Any population size

☐
- Temporary Drinking Water Supplies

Any population size

☐

## Component Level

- Level 1

Small (26 – 100 people)

☐
- Level 2

Medium (101 – 500 people)

☒
- Level 3

Large (>500 people)

☐

- ☒ Varying Population

For periods when the population exceeds 500 people.
- ☒ S3 elect for compliance
- ☐ T3 elect for compliance
- ☐ More than one building

Self-supplied Buildings providing water to more than one building - refer DWQAR Footnote 23.

## Rule Modules

G + S3 + T2 + VP



- S3.3-lead
- S3.3-magn
- S3.3-mang
- S3.3-merc
- S3.3-nick
- S3.3-nitr
- S3.3-ph
- S3.3-sodi
- S3.3-sulp
- S3.3-turb
- S3.3c-cond
- S3.3c-ph
- S3.3c-turb
- S3.4-alph
- S3.4-beta
- S3.4-pota
- S3.5
- S3.6
- S3.7
- S3.8
- S3.9
- T3: Treatment >
- D3: Distribution >

# S3.3C-ph

This page displays information extracted automatically from the authoritative "summary list" document published by Taumata Arowai. It sets out in three tables:

1. the reporting requirements for all suppliers reporting against reporting line S3.3C-ph ,
2. the sampling obligations and frequency for any compliance reporting with that rule,
3. the relevant parameter/determinand with MAVs for the samples taken as drawn directly from the [Drinking Water Standards Regulations \(2022\)](#) or the [DWQAR](#) itself.

It also includes an Example Report and a References Table indicating where the summary list information was derived from.

## Attributes

This table tells you the reporting requirements for this rule, including whether reporting is required, what must be reported, and how frequently.

Required	✓
Type	Continuous Monitoring
Determinand	<a href="#">pH</a>
Compliance Period	N/A
Reporting Period	Annually
Reporting Timeframe	40 Working Days
Samples	No samples expected (1)

### On This Page

- Attributes
- Sample attributes
- Parameter/Determinand
- Example Report



S3.3-lead

S3.3-magn

S3.3-mang

S3.3-merc

S3.3-nick

S3.3-nitr

S3.3-ph

S3.3-sodi

S3.3-sulp

S3.3-turb

S3.3c-cond

S3.3c-ph

S3.3c-turb

S3.4-alph

S3.4-beta

S3.4-pota

S3.5

S3.6

S3.7

S3.8

S3.9

T3: Treatment >

D3: Distribution >

## Parameter/Determinand

ID	ph
Name	pH
Type	Parameter
Source	<a href="#">DWQAR</a>
Accepted Units	
Notes	

## Example Report

No samples expected (1)

```
{
  "rule_id": "S3.3C-ph",
  "complies_with_rule": true,
  "non_compliant_periods": 0,
  "supply_component_id": "TP00000",
  "notes": "This can be left blank...",
  "samples": null
}
```

### On This Page

#### Attributes

Sample attributes

[Parameter/Determinand](#)

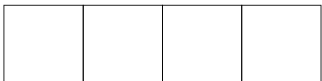
Example Report



# Digital legal systems

## Takeaways

- Multiple sources of law and regulation
- Various digital outputs, traceable to legal source
- Potential to optimise legal sources for digital analysis
- Significant potential for direct digital implementation
- Huge potential for regulatory reporting systems across multiple domains



# DocRef.Org



- Digital publishing
- Pinpoint links and references
- Enhanced cross-links between documents
- Export to multiple formats, publish to multiple locations
- Digital knowledge assets for public or private use

Deploy documents as  
digital infrastructure

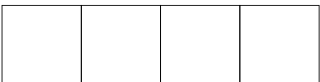
- API integrations
- Annotation and tagging
- Collaboration
- Versioning and change-tracking
- Full white-label presentation and visual design
- Handover and data portability



# Immediate opportunity #1

## Secondary legislation publishing

- Secondary Legislation Access Standards
- Publish as accessible HTML with pinpoint links
- Publish versions, amendments and tracked changes
- Collaborate, annotate, interlink
- Full white label and visual design/presentation
- Automated notices and export to other formats






## Immediate opportunity #2

### Consultation on drafts

- Publish consultation draft with tags and annotations
- Submitters annotate and tag, collaborate
- Submission received as dataset or spreadsheet
- Publish submissions as annotations

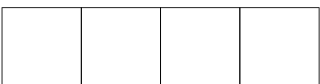
--	--	--	--



## Immediate opportunity #3

### Cross-agency or transnational regulation

- Regulation from multiple jurisdictions
- Regulation at different hierarchies (legislation, standards, guidance, codes)
- Data protection legislation across multiple jurisdictions
- Regulatory materials administered by multiple agencies
- Inter-linking and cross-referencing

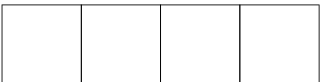




## Immediate opportunity #4

### Rules as code pilots and POC

- Develop a traceable digital legal system with our support and tools
- Design, drafting, review or implementation phase
- Tightly constrained example in real world setting
- Automation without AI and LLMs





## Immediate opportunity #5

### Knowledge assets and stewardship



Ministry of Regulation quick guides and regulatory stewardship



Shared knowledge assets



Benefits for engagement, communication, consultation, compliance and enforcement



Systematic approach using digital regulatory infrastructure



## Summing up

Better digital regulation is inevitable



Regulatory documentation can and must be improved (SLAS)

Digital implementation of law will be transformative

We're ready to work on projects now

Exciting user-facing products like DocRef available to purchase in the new year

