



Department of Energy, Mines,  
Industry Regulation and Safety



# Health and Hygiene Sampling Bulk Lodgement

## Preparing an XML Bulk Upload file

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# 1 Glossary

Term / Acronym	Meaning
DEMIRS	Department of Energy, Mines, Industry Regulation and Safety
OSH	Occupational Safety and Health
SRS	Safety Regulation System
WHSA	<i>Work Health and Safety Act 2020</i>
WHS(M)R	Work Health and Safety (Mines) Regulations 2022
XML	eXtensible Markup Language. A text-based file format used to store and transport data

# 2 Introduction

The Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) has developed functionality within the Safety Regulation System (SRS) to allow atmospheric, biological and noise dosimetry samples to be submitted in bulk. This can be done by using either an XML file or an Excel template provided by the department.

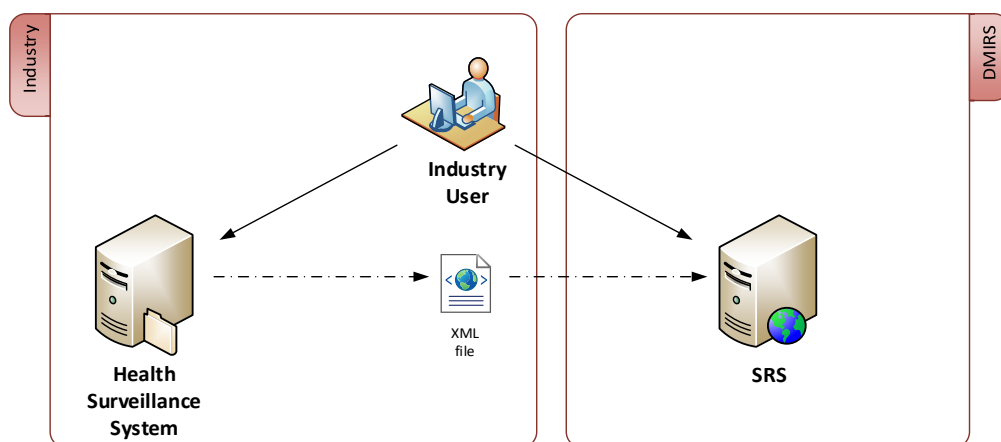
This document details the XML file schema used by the department and provides examples of files for atmospheric, biological and noise dosimetry samples.

To learn about the Excel template that can be used in place of the XML file, refer to [Appendix C - Using the Excel template for bulk upload](#).

To learn how to submit the XML or Excel file to the department via the SRS bulk upload functionality, refer to [Appendix D - Accessing and uploading data into SRS](#).

# 3 High Level End to End Process

This process requires an XML export from an organisation's current health surveillance system to an XML format (schema provided, see [Appendix A - XML file schema](#)). Once exported, this XML can be submitted to the department via the SRS bulk upload functionality.



## 3.1 Systems

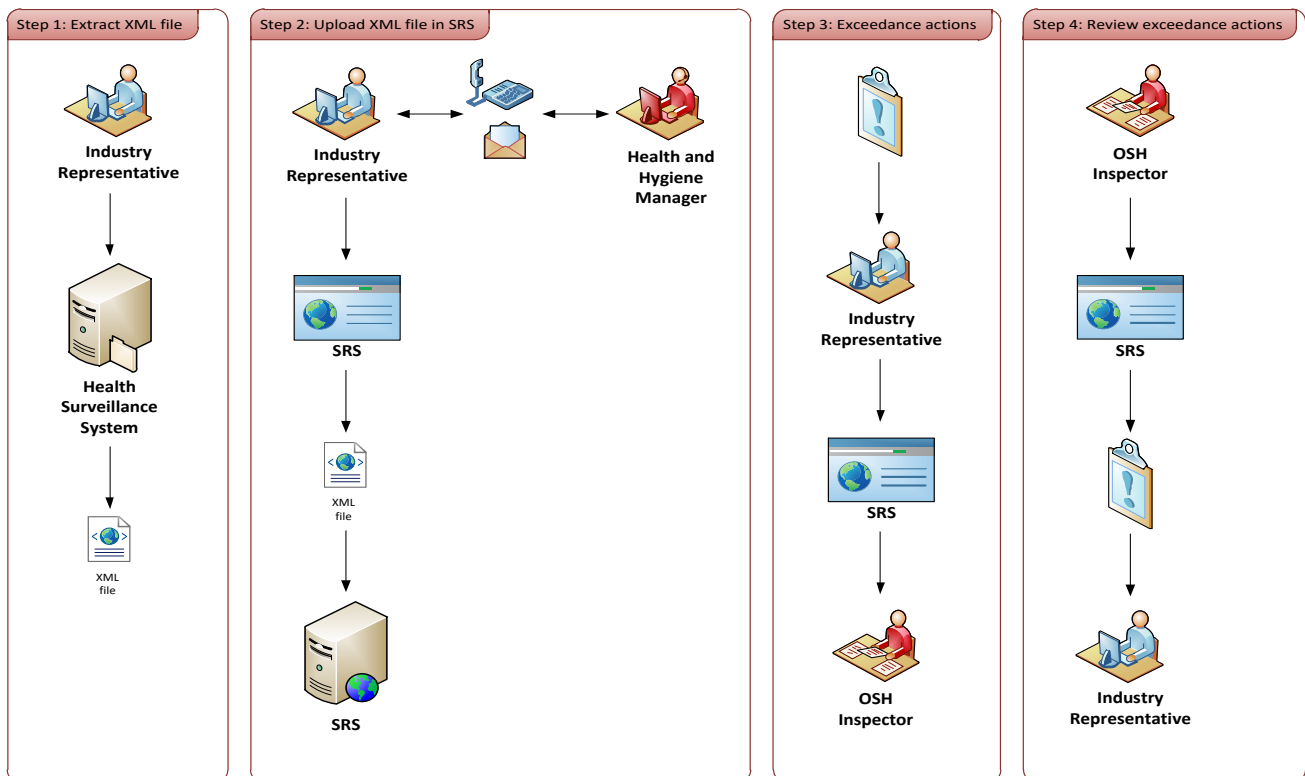
There are two systems involved in the end to end process of transferring sampling information from each company to the department:

- 1) Industry Party's Health Surveillance System; and
- 2) SRS.

## 3.2 Roles and activities

There are two primary roles and one secondary supporting role involved in the end to end process of transferring sampling information from Industry to the department. Each role completes different tasks in the overall process of preparing data in an XML file to importing to SRS through to addressing any exceedances:

- 1) Industry Representative: Prepares and imports an XML file of data to SRS.
- 2) The department's Health and Hygiene Manager: Available to assist with data upload to SRS.
- 3) The department's OSH Inspector: Reviews any exceedances within SRS.



- 1) The Industry Representative enters the required data into their health surveillance system and subsequently generates an XML file.
- 2) The Industry Representative logs into SRS and uploads the XML file. The Health and Hygiene Manager will be available if there are any questions.
- 3) If there are any samples submitted via the bulk upload that have any exceedances, the Industry Representative is required to enter further information into SRS.
- 4) The exceedance action details are reviewed by the OSH Inspector who can seek further information from the Industry Representative. This leads to a repeat of steps 3 and 4 until the OSH Inspector accepts the exceedance action details.

## 4 Preparing an XML file for upload

For details on how to prepare an XML file to bulk upload data into SRS, refer to [Appendix A - XML file schema](#). File schema details and examples are included to assist with this process.

## 5 Reference codes required for XML and Excel files

Both the XML and Excel files require reference codes to be used for equipment, location, occupation, agents, sample timing and personal protective equipment (PPE). Refer to [Appendix B - Reference codes required for XML and Excel files](#) for the latest list.

## 6 Using the Excel template for bulk upload

For details on how to use the Excel template to bulk upload data into SRS, refer to [Appendix C - Using the Excel template for bulk upload](#).

## 7 Accessing and uploading data into SRS

Appropriate security access is required to access the bulk lodgement functionality within SRS. For details on the required access and how it may be obtained, plus instructions on how to navigate through the steps to upload your XML file to SRS, refer to [Appendix D - Accessing and uploading data into SRS](#).

## 8 Further Information

Further information can be found by accessing the [department's website](#).

Alternatively, you can contact the SRS Manager via the following details:

**Contact:** Hygiene Manager

**Address:** Lvl 2, 1 Adelaide Tce, East Perth, WA 6004

**Postal Address:** Mineral House, 100 Plain Street, East Perth, WA 6004

**Telephone:** (08) 9358 8001 (option 2)

**Email:** [SRSHygieneManager@dmirs.wa.gov.au](mailto:SRSHygieneManager@dmirs.wa.gov.au)

## **APPENDICES**

## **i. Appendix A - XML file schema**

This section contains the specification of the schema that will be uploaded via SRS. The one XML file can be used to upload atmospheric, biological and noise samples, however there are differences in the information required for each type. Alternatively, it is also possible to submit separate files for the different sampling methods.

### **1 Structure**

#### **Sample Record**

**Sample Record Id**

**Operation**

**Type**

**Company**

**Site**

**Registered Sampler**

**Sample Collection**

**Current HHMP**

**SEGID**

**InvestigativeSample**

**Employee**

**Shift**

**Sample Results**

**Sample Result**

**Exceedance Declaration**

## 2 Definition

The technical requirements for each object in the schema are detailed below.

### 2.1 Current

The codes below are all current as of 26<sup>th</sup> March 2024. Refer to 2.2 - Obsolete tags that have been removed.

Type	Field	Description/Detail	
Sample Record	Id	<b>Description</b>	Unique defined sample Id provided by Industry
		<b>Mandatory</b>	Yes
		<b>Type</b>	String
		<b>Format</b>	Max length 120
		<b>Validation</b>	An error will be displayed if the Sample Id has already been used or is duplicated in the file
Operation	Type	<b>Description</b>	Type of operation activity the person sampled was involved in.
		<b>Mandatory</b>	Yes
		<b>Type</b>	Operation
		<b>Format</b>	
		<b>Validation</b>	Allowable values: MiningOperation ExplorationOperation  *Please note: MiningOperation should be set unless sampling is conducted on people involved with exploration drilling, in which case ExplorationOperation should be set.
Company	CODE	<b>Description</b>	Company Code - Unique string allocated by the department to identify the company operating the site or, for an exploratory drilling project, the exploration company responsible.
		<b>Mandatory</b>	Yes
		<b>Type</b>	String
		<b>Format</b>	Company Code - O\d{5}
		<b>Validation</b>	*Please note: The format for the Company Code may lengthen in future.
Company	Name	<b>Description</b>	Company Name which identifies the company operating the site or, for an exploratory drilling project, the exploration company responsible.
		<b>Mandatory</b>	Yes
		<b>Type</b>	String



Type	Field	Description/Detail	
		<b>Format</b>	Max length 60
		<b>Validation</b>	
Site	Code	<b>Description</b>	Unique Site code allocated by the department to identify the site where sampling is carried out on.
		<b>Mandatory</b>	Yes if Operation is MiningOperation
		<b>Type</b>	String
		<b>Format</b>	SG\d{7}
		<b>Validation</b>	*Please note: the format for the Site Code may lengthen in future.
Site	Name	<b>Description</b>	Name of site
		<b>Mandatory</b>	Yes if Operation is MiningOperation
		<b>Type</b>	String
		<b>Format</b>	Max length 60
		<b>Validation</b>	
Registered Sampler	Registration	<b>Description</b>	Unique Id assigned to an approved Registered Sampler or Noise Officer by the department.
		<b>Mandatory</b>	Mandatory for atmospheric and noise dosimetry samples. Not required for biological samples
		<b>Type</b>	String
		<b>Format</b>	Max length 30
		<b>Validation</b>	Registration is current at sampling date.  If the agents in the sample record are for atmospheric samples then the registration details must be for a Registered Sampler.  If the agents in the sample record are for noise dosimetry samples then the registration details must be for a Certified Noise Officer.  Registration Samplers are not required for biological samples.
Registered Sampler	Surname	<b>Description</b>	Surname of the Registered Sampler
		<b>Mandatory</b>	Mandatory for atmospheric and noise dosimetry samples. Not required for biological samples
		<b>Type</b>	String
		<b>Format</b>	Max length 30
		<b>Validation</b>	
		<b>Description</b>	Given name of the Registered Sampler

Type	Field	Description/Detail	
Registered Sampler	GivenName	<b>Mandatory</b>	Mandatory for atmospheric and noise dosimetry samples. Not required for biological samples
		<b>Type</b>	String
		<b>Format</b>	Max length 30
		<b>Validation</b>	
Sample Collection	Date	<b>Description</b>	Date the sample was taken
		<b>Mandatory</b>	Yes
		<b>Type</b>	Date
		<b>Format</b>	xs:date
		<b>Validation</b>	
Sample Collection	CurrentHHMP	<b>Description</b>	If the site had a Health Management Plan (HMP) in SRS at the time the sample was taken then enter its reference ID
		<b>Mandatory</b>	No
		<b>Type</b>	String
		<b>Format</b>	HHMP-Id{6}
		<b>Validation</b>	
Sample Collection	SEGID	<b>Description</b>	The Similar Exposure Group (SEG) ID related to the sampled person
		<b>Mandatory</b>	No
		<b>Type</b>	String
		<b>Format</b>	
		<b>Validation</b>	
Sample Collection	InvestigativeSample	<b>Description</b>	Indicate whether the sample was taken in an investigative capacity or not
		<b>Mandatory</b>	No
		<b>Type</b>	Boolean
		<b>Format</b>	
		<b>Validation</b>	Allowable Values: true false  The value must be false if a SEGID has been provided
Sample Collection	EquipmentCode	<b>Description</b>	Sampling equipment used
		<b>Mandatory</b>	Mandatory for atmospheric samples. Not required for biological and noise dosimetry samples
		<b>Type</b>	String

Type	Field	Description/Detail	
		<b>Format</b>	Max length 4
		<b>Validation</b>	Allowable values: See Appendix D for Equipment codes
Sample Collection	LocationCode	<b>Description</b>	The location where most of the exposure occurred during sampling
		<b>Mandatory</b>	Yes
		<b>Type</b>	String
		<b>Format</b>	Max length 3
		<b>Validation</b>	Allowable Values: See Appendix D for Location codes
Employee	Surname	<b>Description</b>	Surname of the person sampled
		<b>Mandatory</b>	Yes
		<b>Type</b>	String
		<b>Format</b>	Max length 30
		<b>Validation</b>	
Employee	GivenName	<b>Description</b>	Given Name of the person sampled
		<b>Mandatory</b>	Yes
		<b>Type</b>	String
		<b>Format</b>	Max length 30
		<b>Validation</b>	
Employee	DateOfBirth	<b>Description</b>	Date of Birth of the person sampled
		<b>Mandatory</b>	Yes
		<b>Type</b>	Date
		<b>Format</b>	xs:date
		<b>Validation</b>	
Employee	Gender	<b>Description</b>	Gender of the person sampled
		<b>Mandatory</b>	Yes
		<b>Type</b>	String
		<b>Format</b>	
		<b>Validation</b>	Allowable Values: Female Male
Employee	OccupationCode	<b>Description</b>	Occupation code of the person sampled
		<b>Mandatory</b>	Yes
		<b>Type</b>	String
		<b>Format</b>	Max length 6

Type	Field	Description/Detail	
		<b>Validation</b>	Allowable Values: See Appendix D for Occupation Codes
Employee	PPEType	<b>Description</b>	Type of personal protective equipment worn
		<b>Mandatory</b>	Mandatory for noise dosimetry samples. Not required for atmospheric and biological samples
		<b>Type</b>	String
		<b>Format</b>	
		<b>Validation</b>	Allowable Values: See Appendix D for PPE Type Codes
Employee	PPETypeOther	<b>Description</b>	The type of PPE worn that is not specified in the list of supplied values
		<b>Mandatory</b>	Mandatory if PPEType = OTHER
		<b>Type</b>	String
		<b>Format</b>	Max length 50
		<b>Validation</b>	
Employee	PPEClass	<b>Description</b>	The class rating of the PPE
		<b>Mandatory</b>	Mandatory for noise dosimetry samples. Not required for atmospheric and biological samples
		<b>Type</b>	Int
		<b>Format</b>	
		<b>Validation</b>	Allowable Values: See Appendix D for PPE Class Rating Codes
Shift	SampleTiming	<b>Description</b>	Timing of the sampled person's roster when the sample was taken eg Start of Shift
		<b>Mandatory</b>	Mandatory for biological samples. Not required for atmospheric and noise dosimetry samples
		<b>Type</b>	String
		<b>Format</b>	Max length 20
		<b>Validation</b>	Allowable Values: See Appendix D for Sample Timing Codes
Shift	Length	<b>Description</b>	Shift length of the person sampled – hours and minutes as decimal eg 7.5 for and seven and a half hour shift
		<b>Mandatory</b>	Mandatory for atmospheric and noise dosimetry samples. Not required for biological samples
		<b>Type</b>	Decimal

Type	Field	Description/Detail	
Shift	DaysOn	<b>Format</b>	(4,2)
		<b>Validation</b>	
		<b>Description</b>	Number of days on in the shift pattern of the person sampled
		<b>Mandatory</b>	Mandatory for atmospheric and noise dosimetry samples. Not required for biological samples
		<b>Type</b>	Int
Shift	DaysOff	<b>Format</b>	
		<b>Validation</b>	
		<b>Description</b>	Number of days off in the shift pattern of the person sampled
		<b>Mandatory</b>	Mandatory for atmospheric and noise dosimetry samples. Not required for biological samples
		<b>Type</b>	Int
Sample Result	ExposureType	<b>Format</b>	
		<b>Validation</b>	
		<b>Description</b>	Exposure type
		<b>Mandatory</b>	Mandatory for atmospheric samples. Not required for biological and noise dosimetry samples
		<b>Type</b>	String
Sample Result	ContaminantCode	<b>Format</b>	Max length 4
		<b>Validation</b>	Allowable Values: TWA PEAK STEL
		<b>Description</b>	Agent analysed
		<b>Mandatory</b>	Yes
		<b>Type</b>	String
Sample Result	BelowDetectionLimit	<b>Format</b>	Max length 50
		<b>Validation</b>	Allowable Values: See Appendix D for Agent Codes
		<b>Description</b>	Identifies if the concentration of the contaminant analysed is below the detection limit.
		<b>Mandatory</b>	Mandatory for atmospheric samples. Not required for noise dosimetry and biological samples

Type	Field	Description/Detail	
		<b>Type</b>	Boolean
		<b>Format</b>	
		<b>Validation</b>	Allowable Values: true false
Sample Result	Concentration	<b>Description</b>	Result of the agent sampled
		<b>Mandatory</b>	Yes
		<b>Type</b>	Decimal
		<b>Format</b>	(9,4)
		<b>Validation</b>	
Sample Result	UnitOfMeasure	<b>Description</b>	Unit of measurement
		<b>Mandatory</b>	Yes
		<b>Type</b>	String
		<b>Format</b>	Max length 20
		<b>Validation</b>	Allowable Values:  See Appendix D for Unit of measurement based on contaminant code. A conversion formula is provided in Appendix D to convert airborne solvents and gases from mg/m3 to ppm.
Sample Result	AttenuationExpected	<b>Description</b>	Expected Attenuation based on the PPE worn
		<b>Mandatory</b>	Mandatory for noise samples. Not required for atmospheric and biological
		<b>Type</b>	Decimal
		<b>Format</b>	(9,2)
		<b>Validation</b>	
Exceedance Declaration	WasRiskInfoProvided	<b>Description</b>	For atmospheric:  The worker has been provided with suitable and adequate information, training and instruction about the risks and controls associated with airborne contaminants [WHS s. 19(3) and WHS(M)R r. 39]  For noise:  The worker has been provided with suitable and adequate information, training and instruction about the risks and controls associated with noise hazards [WHS s. 19(3) and WHS(M)R r. 39]
		<b>Mandatory</b>	Not required for biological samples or if there is no exceedance of the exposure standard
		<b>Type</b>	Boolean

Type	Field	Description/Detail	
		<b>Validation</b>	Allowable Values: true false
Exceedance Declaration	WasPPESupplied	<b>Description</b>	For atmospheric:  Effective respiratory protective devices were supplied to the worker [WHS(M)R rr. 36 and 44(3)]  For noise:  Effective hearing protective devices were supplied to the worker [WHS(M)R rr. 36 and 44(3)]
		<b>Mandatory</b>	Not required for biological samples or if there is no exceedance of the exposure standard
		<b>Type</b>	Boolean
		<b>Validation</b>	Allowable Values: true false
Exceedance Declaration	WasFitTested	<b>Description</b>	For atmospheric:  The worker was provided with respiratory protection devices of a suitable size and fit that are reasonably comfortable for the person to wear, and appropriate information, training and instruction [WHS(M)R rr. 44(3) and 44(4)]  For noise:  The worker was provided with hearing protection devices of a suitable size and fit that are reasonably comfortable for the person to wear, and appropriate information, training and instruction [WHS(M)R rr. 44(3) and 44(4)]
		<b>Mandatory</b>	Not required for biological samples or if there is no exceedance of the exposure standard
		<b>Type</b>	Boolean
		<b>Validation</b>	Allowable Values: true false
Exceedance Declaration	HasOngoingProgram	<b>Description</b>	For atmospheric:  The worker is subject to an ongoing health monitoring program [WHS(M)R rr. 368 and 675F]  For noise:  The worker has had a baseline audiometric (hearing) test (within 3 months of

Type	Field	Description/Detail	
			commencing) and is subject to an ongoing (every 2 years) hearing testing program [WHS(M)R r. 58(2)]
		<b>Mandatory</b>	Not required for biological samples or if there is no exceedance of the exposure standard
		<b>Type</b>	Boolean
		<b>Validation</b>	Allowable Values: true false
Exceedance Declaration	HasPlanSubmitted	<b>Description</b>	For atmospheric:  A Health Management Plan inclusive of airborne contaminants and controls, has been prepared and implemented [WHS(M)R r. 675EA]  For noise:  A Health Management Plan that includes noise hazards and controls has been prepared and implemented [WHS(M)R r. 675EA] and a report has been prepared by the appointed Noise Officer detailing the plans to reduce the exposure to noise [WHS(M)R schedule 26(2)(2)]
		<b>Mandatory</b>	Not required for biological samples or if there is no exceedance of the exposure standard
		<b>Type</b>	Boolean
		<b>Validation</b>	Allowable Values: true false

## 2.2 Obsolete

The following fields were previously mandatory but were made obsolete as of 20<sup>th</sup> April 2018. Any values provided in these fields will be ignored when the file is processed in SRS.

Type	Field	Description/Detail	
Company	ABN / ACN / ARBN	<b>Description</b>	ABN - Australian Business Number ACN - Australian Company Number (only applicable if ACN has an associated ABN) ARBN - Australian Registered Body Numbers
		<b>Mandatory</b>	No. This field is now <b>obsolete</b>
		<b>Type</b>	String



Type	Field	Description/Detail	
		<b>Format</b>	If ABN – Max length 11 If ACN – Max length 9 If ARBN – Max length 9
		<b>Validation</b>	
Operation	Phone	<b>Description</b>	Phone number that can be used to contact company / site regarding the sample record.
		<b>Mandatory</b>	Yes
		<b>Type</b>	String
		<b>Format</b>	Max length 12
		<b>Validation</b>	
Sample Collection	Purpose	<b>Description</b>	Sample collection purpose
		<b>Mandatory</b>	No. This field is now <b>obsolete</b>
		<b>Type</b>	String
		<b>Format</b>	Length 1
		<b>Validation</b>	Allowable values: Q - Quota R – Requested by Inspector O – Other
Sample Collection	Type	<b>Description</b>	Exposure type
		<b>Mandatory</b>	No. This field is now <b>obsolete</b>
		<b>Type</b>	String
		<b>Format</b>	Max Length 4
		<b>Validation</b>	This field was only applicable for atmospheric samples.
Sample Collection	StartTime	<b>Description</b>	Time sampling commenced
		<b>Mandatory</b>	No. This field is now <b>obsolete</b>
		<b>Type</b>	Time
		<b>Format</b>	xs:time
		<b>Validation</b>	
Sample Collection	FinishTime	<b>Description</b>	Time sampling finished
		<b>Mandatory</b>	No. This field is now <b>obsolete</b>
		<b>Type</b>	Time
		<b>Format</b>	xs:time
		<b>Validation</b>	
Sample Collection	FlowRates	<b>Description</b>	Average flow rate used to calculate the total volume of air sampled. For valid sampling the start and end flow rates must not deviate more than 5% (or 10% for asbestos fibre and inhalable dust sampling)

Type	Field	Description/Detail	
		<b>Mandatory</b>	No. This field is now <b>obsolete</b>
		<b>Type</b>	Decimal
		<b>Format</b>	(9,4)
		<b>Validation</b>	
Sample Collection	ConfinedWorkspace	<b>Description</b>	Indicates whether the person sampled was performing confined space work
		<b>Mandatory</b>	No. This field is now <b>obsolete</b>
		<b>Type</b>	Boolean
		<b>Format</b>	
		<b>Validation</b>	
Sample Collection	RespiratorWorn	<b>Description</b>	Indicates whether the person sampled was wearing a respirator for the majority of the sample duration
		<b>Mandatory</b>	No. This field is now <b>obsolete</b>
		<b>Type</b>	Boolean
		<b>Format</b>	
		<b>Validation</b>	
Sample Collection	ExposureNormal	<b>Description</b>	Indicates whether the exposure conditions were normal
		<b>Mandatory</b>	No. This field is now <b>obsolete</b>
		<b>Type</b>	Boolean
		<b>Format</b>	
		<b>Validation</b>	
Employee	HSN	<b>Description</b>	Health Surveillance Number of the person sampled (MINEHEALTH number)
		<b>Mandatory</b>	No. This field is now <b>obsolete</b>
		<b>Type</b>	Int
		<b>Format</b>	
		<b>Validation</b>	
Shift	Hours	<b>Description</b>	Shift length of the person sampled – hours component
		<b>Mandatory</b>	No. This field is now <b>obsolete</b>
		<b>Type</b>	Int
		<b>Format</b>	
		<b>Validation</b>	
Shift	Minutes	<b>Description</b>	Shift length of the person sampled – minutes component
		<b>Mandatory</b>	No. This field is now <b>obsolete</b>

Type	Field	Description/Detail	
		Type	Int
		Format	
		Validation	Must be either 0, 15, 30 or 45
Company	Contractor	Description	Indicates if person sampled is a contractor
		Mandatory	No. This field is now <b>obsolete</b>
		Type	Boolean
		Format	
		Validation	
Company	ABN / ACN / ARBN	Description	Contractor company code of the person sampled ABN – Australian Business Number ACN - Australian Company Number (only applicable if ACN has an associated ABN) ARBN – Australian Registered Body Numbers Company Code - Unique string allocated by DMP to identify the company operating the site or, for an exploratory drilling project, the exploration company responsible.
		Mandatory	No. This field is now <b>obsolete</b>
		Type	String
		Format	If ABN –Max length11 If ACN – Max length 9 If ARBN – Max length 9 If Company Code - O\{5}
		Validation	*Please note: The format for the Company Code may lengthen in future.
Company	Name	Description	Contracting Company Name of the person sampled
		Mandatory	No. This field is now <b>obsolete</b>
		Type	String
		Format	Max length 60
		Validation	
Sample Result	RosterTimingCode	Description	Timing of the sampled person's roster when the sample was taken eg Start of Shift
		Mandatory	No. This field is now <b>obsolete</b>
		Type	
		Format	
		Validation	
Sample Result	ExceedanceJustification	Description	Reason for Exceedance and Action plan
		Mandatory	No. This field is now <b>obsolete</b>
		Type	String

Type	Field	Description/Detail	
Sample Record	Comments	Format	
		Validation	
		Description	Details of any factors that may have affected the results reported such as unusual events, conditions or work practises during sampling.
		Mandatory	No. This field is now <b>obsolete</b>
		Type	String
Drilling	TenementId	Format	Max length 120
		Validation	
		Description	Tenement identification allocated by the department
		Mandatory	No. This field is now <b>obsolete</b>
		Type	String
Drilling	Location	Format	Max length 20
		Validation	
		Description	Geographical location of the drilling. If exploration is not associated with a mine site, record the latitude and longitude.
		Mandatory	No. This field is now <b>obsolete</b>
		Type	String
Drilling	MethodCode	Format	Max length 60
		Validation	
		Description	Drilling method
		Mandatory	No. This field is now <b>obsolete</b>
		Type	String
Company	CODE	Format	Max length 6
		Validation	Allowable Values: See Appendix G for Drilling Method Codes
		Description	Drilling company code Company Code - Unique string allocated by the department to identify the company operating the site or, for an exploratory drilling project, the exploration company responsible.
		Mandatory	No. This field is now <b>obsolete</b>
		Type	String
Company		Format	If Company Code - O\d{5}
		Validation	*Please note: The format for the Company Code may lengthen in future.
		Description	Drilling company name.

Type	Field	Description/Detail	
	Name	<b>Mandatory</b>	No. This field is now <b>obsolete</b>
		<b>Type</b>	String
		<b>Format</b>	Max length 60
		<b>Validation</b>	

### 3 Atmospheric XML Schema Definition (XSD)

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema elementFormDefault="qualified"
  targetNamespace="http://www.dmp.wa.gov.au/srs/contam/sample-record/1.0"
  xmlns="http://www.dmp.wa.gov.au/srs/contam/sample-record/1.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:element name="SampleDocument">
    <xs:complexType>
      <xs:all>
        <xs:element name="SampleRecords">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="SampleRecord" type="SampleRecord" maxOccurs="unbounded" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:all>
    </xs:complexType>
  </xs:element>

  <xs:complexType name="SampleRecord">
    <xs:all>
      <xs:element name="Operation" type="Operation" />
      <xs:element name="RegisteredSampler" type="RegisteredSampler" />
      <xs:element name="SampleCollection" type="SampleCollection" />
      <xs:element name="SampleResults">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="SampleResult" type="SampleResult" maxOccurs="unbounded" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ExceedanceDeclaration" type="ExceedanceDeclaration" nillable="true"
minOccurs="0" />
    </xs:all>
    <xs:attribute name="Id" type="xs:string" use="required" />
  </xs:complexType>

  <xs:complexType name="Operation" abstract="true">
    <xs:sequence>
      <xs:element name="Company" type="Company" />
      <xs:element name="Site" type="Site" nillable="true" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="MiningOperation">
    <xs:complexContent>
      <xs:extension base="Operation" />
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="ExplorationOperation">
    <xs:complexContent>
      <xs:extension base="Operation" />
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="RegisteredSampler">
    <xs:all>
      <xs:element name="Registration">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="30" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="Surname">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="30" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:all>
  </xs:complexType>
</xs:schema>
```

```

        </xs:simpleType>
    </xs:element>
    <xs:element name="GivenName">
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:maxLength value="30" />
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
</xs:all>
</xs:complexType>

<xs:complexType name="SampleCollection">
    <xs:all>
        <xs:element name="Date" type="xs:date" />
        <xs:element name="CurrentHHMP" type="xs:string" nillable="true" minOccurs="0" />
        <xs:element name="SEGID" type="xs:string" nillable="true" minOccurs="0" />
        <xs:element name="InvestigativeCapacity" type="xs:boolean" nillable="true" minOccurs="0" />
        <xs:element name="EquipmentCode">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:maxLength value="4" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
        <xs:element name="LocationCode" type="xs:int" />
        <xs:element name="Employee" type="Employee" />
    </xs:all>
</xs:complexType>

<xs:complexType name="Employee">
    <xs:all>
        <xs:element name="Surname">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:maxLength value="30" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
        <xs:element name="GivenName">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:maxLength value="30" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
        <xs:element name="DateOfBirth" type="xs:date" />
        <xs:element name="Gender" type="Gender" />
        <xs:element name="OccupationCode" type="xs:int" />
        <xs:element name="Shift" type="Shift" />
    </xs:all>
</xs:complexType>

<xs:complexType name="SampleResult">
    <xs:all>
        <xs:element name="ExposureType">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration value="TWA" />
                    <xs:enumeration value="PEAK" />
                    <xs:enumeration value="STEL" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
        <xs:element name="ContaminantCode">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:maxLength value="20" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
        <xs:element name="Concentration" nillable="true" minOccurs="0">
            <xs:simpleType>
                <xs:restriction base="xs:decimal">

```

```

        <xs:totalDigits value="9" />
        <xs:fractionDigits value="4" />
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="UnitOfMeasure">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="50" />
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="BelowDetectionLimit" type="xs:boolean" nillable="true" minOccurs="0" />
</xs:all>
</xs:complexType>

<xs:complexType name="Company">
  <xs:all>
    <xs:element name="Code">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="0\d{5}|\^$" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="Name">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="60" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:all>
</xs:complexType>

<xs:complexType name="Site">
  <xs:all>
    <xs:element name="Code">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="SG\d{7}|\^$" />
          <xs:maxLength value="10" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="Name">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="60" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:all>
</xs:complexType>

<xs:complexType name="Shift">
  <xs:all>
    <xs:element name="Length">
      <xs:simpleType>
        <xs:restriction base="xs:decimal">
          <xs:totalDigits value="4" />
          <xs:fractionDigits value="2" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="DaysOn" type="xs:int" />
    <xs:element name="DaysOff" type="xs:int" />
  </xs:all>
</xs:complexType>

<xs:complexType name="ExceedanceDeclaration">
  <xs:all>
    <xs:element name="WasRiskInfoProvided" type="xs:boolean" />
    <xs:element name="WasPPESupplied" type="xs:boolean" />
  </xs:all>
</xs:complexType>

```



```
        <xs:element name="WasFitTested" type="xs:boolean" />
        <xs:element name="HasOngoingProgram" type="xs:boolean" />
        <xs:element name="HasPlanSubmitted" type="xs:boolean" />
    </xs:all>
</xs:complexType>

<xs:simpleType name="Gender">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Female" />
        <xs:enumeration value="Male" />
    </xs:restriction>
</xs:simpleType>
</xs:schema>
```

## 4 Atmospheric Sample Record File Example (XML)

```
<?xml version="1.0" encoding="UTF-8" ?>
<SampleDocument xmlns="http://www.dmp.wa.gov.au/srs/contam/sample-record/1.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <SampleRecords>
    <SampleRecord Id="A0000001">

      <Operation xsi:type="MiningOperation">
        <Company>
          <Code>000001</Code>
          <Name>Test Company</Name>
        </Company>
        <Site>
          <Code>SG0000001</Code>
          <Name>Test Site</Name>
        </Site>
      </Operation>

      <RegisteredSampler>
        <Registration>123123</Registration>
        <Surname>Bana</Surname>
        <GivenName>Eric</GivenName>
      </RegisteredSampler>

      <SampleCollection>
        <Date>2018-09-17</Date>
        <CurrentHHMP>HHMP-000007</CurrentHHMP>
        <SEGID>SEG007</SEGID>
        <InvestigativeCapacity>false</InvestigativeCapacity>
        <EquipmentCode>PPI</EquipmentCode>
        <LocationCode>121</LocationCode>

        <Employee>
          <Surname>Parker</Surname>
          <GivenName>Peter</GivenName>
          <DateOfBirth>1968-01-01</DateOfBirth>
          <Gender>Male</Gender>
          <OccupationCode>110000</OccupationCode>
          <Shift>
            <Length>12</Length>
            <DaysOn>14</DaysOn>
            <DaysOff>6</DaysOff>
          </Shift>
        </Employee>
      </SampleCollection>

      <SampleResults>
        <SampleResult>
          <ExposureType>TWA</ExposureType>
          <ContaminantCode>RES</ContaminantCode>
          <Concentration>3.1012</Concentration>
          <UnitOfMeasure>mg/m3</UnitOfMeasure>
          <BelowDetectionLimit>false</BelowDetectionLimit>
        </SampleResult>

        <SampleResult>
          <ExposureType>TWA</ExposureType>
          <ContaminantCode>SIL</ContaminantCode>
          <Concentration>0.0540</Concentration>
          <UnitOfMeasure>mg/m3</UnitOfMeasure>
          <BelowDetectionLimit>false</BelowDetectionLimit>
        </SampleResult>
      </SampleResults>

      <ExceedanceDeclaration>
        <WasRiskInfoProvided>true</WasRiskInfoProvided>
        <WasPPESupplied>true</WasPPESupplied>
        <WasFitTested>true</WasFitTested>
        <HasOngoingProgram>true</HasOngoingProgram>
        <HasPlanSubmitted>true</HasPlanSubmitted>
      </ExceedanceDeclaration>
    </SampleRecord>
  </SampleRecords>
</SampleDocument>
```

```

<SampleRecord Id="A0000002">
  <Operation xsi:type="MiningOperation">
    <Company>
      <Code>000001</Code>
      <Name>Test Company</Name>
    </Company>
    <Site>
      <Code>SG0000001</Code>
      <Name>Test Site</Name>
    </Site>
  </Operation>

  <RegisteredSampler>
    <Registration>7853</Registration>
    <Surname>Stark</Surname>
    <GivenName>Tony</GivenName>
  </RegisteredSampler>

  <SampleCollection>
    <Date>2018-03-27</Date>
    <Date>2018-09-17</Date>
    <CurrentHHMP>HHMP-000007</CurrentHHMP>
    <SEGID></SEGID>
    <InvestigativeCapacity>true</InvestigativeCapacity>
    <EquipmentCode>ST</EquipmentCode>
    <LocationCode>162</LocationCode>

    <Employee>
      <Surname>Prince</Surname>
      <GivenName>Diana</GivenName>
      <DateOfBirth>1988-04-01</DateOfBirth>
      <Gender>Female</Gender>
      <OccupationCode>123000</OccupationCode>
      <Shift>
        <Length>13.25</Length>
        <DaysOn>21</DaysOn>
        <DaysOff>7</DaysOff>
      </Shift>
    </Employee>
  </SampleCollection>

  <SampleResults>
    <SampleResult>
      <ExposureType>STEL</ExposureType>
      <ContaminantCode>S02</ContaminantCode>
      <Concentration>1.812</Concentration>
      <UnitOfMeasure>ppm</UnitOfMeasure>
      <BelowDetectionLimit>false</BelowDetectionLimit>
    </SampleResult>
    <SampleResult>
      <ExposureType>STEL</ExposureType>
      <ContaminantCode>N02</ContaminantCode>
      <Concentration>2.040</Concentration>
      <UnitOfMeasure>ppm</UnitOfMeasure>
      <BelowDetectionLimit>false</BelowDetectionLimit>
    </SampleResult>
    <SampleResult>
      <ExposureType>TWA</ExposureType>
      <ContaminantCode>HNO</ContaminantCode>
      <Concentration>0.006</Concentration>
      <UnitOfMeasure>ppm</UnitOfMeasure>
      <BelowDetectionLimit>true</BelowDetectionLimit>
    </SampleResult>
  </SampleResults>
</SampleRecord>
</SampleRecords>

</SampleDocument>

```

## 5 Biological XML Schema Definition (XSD)

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema elementFormDefault="qualified"
  targetNamespace="http://www.dmp.wa.gov.au/srs/contam/sample-record/1.0"
  xmlns="http://www.dmp.wa.gov.au/srs/contam/sample-record/1.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:element name="SampleDocument">
    <xs:complexType>
      <xs:all>
        <xs:element name="SampleRecords">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="SampleRecord" type="SampleRecord" maxOccurs="unbounded" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:all>
    </xs:complexType>
  </xs:element>

  <xs:complexType name="SampleRecord">
    <xs:all>
      <xs:element name="Operation" type="Operation" />
      <xs:element name="SampleCollection" type="SampleCollection" />
      <xs:element name="SampleResults">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="SampleResult" type="SampleResult" maxOccurs="unbounded" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:all>
    <xs:attribute name="Id" type="xs:string" use="required" />
  </xs:complexType>

  <xs:complexType name="Operation" abstract="true">
    <xs:sequence>
      <xs:element name="Company" type="Company" />
      <xs:element name="Site" type="Site" nillable="true" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="MiningOperation">
    <xs:complexContent>
      <xs:extension base="Operation" />
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="ExplorationOperation">
    <xs:complexContent>
      <xs:extension base="Operation" />
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="SampleCollection">
    <xs:all>
      <xs:element name="Date" type="xs:date" />
      <xs:element name="CurrentHHMP" type="xs:string" nillable="true" minOccurs="0" />
      <xs:element name="SEGID" type="xs:string" nillable="true" minOccurs="0" />
      <xs:element name="InvestigativeCapacity" type="xs:boolean" nillable="true" minOccurs="0" />
      <xs:element name="LocationCode" type="xs:int" />
      <xs:element name="Employee" type="Employee" />
    </xs:all>
  </xs:complexType>

  <xs:complexType name="Employee">
    <xs:all>
      <xs:element name="Surname">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="30" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:all>
  </xs:complexType>


```

```

        </xs:simpleType>
      </xs:element>
      <xs:element name="GivenName">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="30" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="DateOfBirth" type="xs:date" />
      <xs:element name="Gender" type="Gender" />
      <xs:element name="OccupationCode" type="xs:int" />
      <xs:element name="Shift" type="Shift" />
    </xs:all>
  </xs:complexType>

  <xs:complexType name="SampleResult">
    <xs:all>
      <xs:element name="ContaminantCode">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="20" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="Concentration" nillable="true" minOccurs="0">
        <xs:simpleType>
          <xs:restriction base="xs:decimal">
            <xs:totalDigits value="9" />
            <xs:fractionDigits value="4" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="UnitOfMeasure">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="50" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="BelowDetectionLimit" type="xs:boolean" nillable="true" minOccurs="0" />
    </xs:all>
  </xs:complexType>

  <xs:complexType name="Company">
    <xs:all>
      <xs:element name="Code">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:pattern value="0\d{5}|\^$" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="Name">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="60" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:all>
  </xs:complexType>

  <xs:complexType name="Site">
    <xs:all>
      <xs:element name="Code">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:pattern value="SG\d{7}|\^$" />
            <xs:maxLength value="10" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="Name">

```

```

        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="60" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:all>
  </xs:complexType>

  <xs:complexType name="Shift">
    <xs:all>
      <xs:element name="SampleTiming">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="EndOfShift" />
            <xs:enumeration value="EndOfWorkRoster" />
            <xs:enumeration value="SpotSample" />
            <xs:enumeration value="StartOfShift" />
            <xs:enumeration value="StartOfWorkRoster" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:all>
  </xs:complexType>

  <xs:simpleType name="Gender">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Female" />
      <xs:enumeration value="Male" />
    </xs:restriction>
  </xs:simpleType>
</xs:schema>

```

## 6 Biological Sample Record File Example (XML)

```
<?xml version="1.0" encoding="UTF-8" ?>
<SampleDocument xmlns="http://www.dmp.wa.gov.au/srs/contam/sample-record/1.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

```
<SampleRecords>
  <SampleRecord Id="B0000001">
    <Operation xsi:type="MiningOperation">
      <Company>
        <Code>000001</Code>
        <Name>Test Company</Name>
      </Company>
      <Site>
        <Code>SG0000001</Code>
        <Name>Test Site</Name>
      </Site>
    </Operation>
    <SampleCollection>
      <Date>2018-09-18</Date>
      <CurrentHHMP>HHMP-000007</CurrentHHMP>
      <SEGID>SEG007</SEGID>
      <InvestigativeCapacity>false</InvestigativeCapacity>
      <LocationCode>121</LocationCode>
      <Employee>
        <Surname>Parker</Surname>
        <GivenName>Peter</GivenName>
        <DateOfBirth>1968-01-01</DateOfBirth>
        <Gender>Male</Gender>
        <OccupationCode>110000</OccupationCode>
        <Shift>
          <SampleTiming>StartOfShift</SampleTiming>
        </Shift>
      </Employee>
    </SampleCollection>
    <SampleResults>
      <SampleResult>
        <ContaminantCode>As_bio (Urine)</ContaminantCode>
        <Concentration>19.1200</Concentration>
        <UnitOfMeasure>µg As/L</UnitOfMeasure>
        <BelowDetectionLimit>false</BelowDetectionLimit>
      </SampleResult>
      <SampleResult>
        <ContaminantCode>Pb_bio (Blood)</ContaminantCode>
        <Concentration>15.3400</Concentration>
        <UnitOfMeasure>µg/dL</UnitOfMeasure>
        <BelowDetectionLimit>false</BelowDetectionLimit>
      </SampleResult>
    </SampleResults>
  </SampleRecord>
  <SampleRecord Id="B0000002">
    <Operation xsi:type="MiningOperation">
      <Company>
        <Code>000001</Code>
        <Name>Test Company</Name>
      </Company>
      <Site>
        <Code>SG0000001</Code>
        <Name>Test Site</Name>
      </Site>
    </Operation>
    <SampleCollection>
      <Date>2018-09-18</Date>
```

```

<CurrentHHMP>HHMP-000007</CurrentHHMP>
<SEGID>SEG023</SEGID>
<InvestigativeCapacity>false</InvestigativeCapacity>
<LocationCode>162</LocationCode>

<Employee>
  <Surname>Prince</Surname>
  <GivenName>Diana</GivenName>
  <DateOfBirth>1988-04-01</DateOfBirth>
  <Gender>Female</Gender>
  <OccupationCode>123000</OccupationCode>
  <Shift>
    <SampleTiming>SpotSample</SampleTiming>
  </Shift>
</Employee>
</SampleCollection>

<SampleResults>

  <SampleResult>
    <ContaminantCode>As_bio (Urine)</ContaminantCode>
    <Concentration>14.1500</Concentration>
    <UnitOfMeasure>µg As/L</UnitOfMeasure>
    <BelowDetectionLimit>false</BelowDetectionLimit>
  </SampleResult>

  <SampleResult>
    <ContaminantCode>Pb_bio (Blood)</ContaminantCode>
    <Concentration>1.9340</Concentration>
    <UnitOfMeasure>µg/dL</UnitOfMeasure>
    <BelowDetectionLimit>false</BelowDetectionLimit>
  </SampleResult>
</SampleResults>
</SampleRecord>
</SampleRecords>

</SampleDocument>

```



## 7 Noise XML Schema Definition (XSD)

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema elementFormDefault="qualified"
  targetNamespace="http://www.dmp.wa.gov.au/srs/contam/sample-record/1.0"
  xmlns="http://www.dmp.wa.gov.au/srs/contam/sample-record/1.0"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:element name="SampleDocument">
    <xs:complexType>
      <xs:all>
        <xs:element name="SampleRecords">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="SampleRecord" type="SampleRecord" maxOccurs="unbounded" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:all>
    </xs:complexType>
  </xs:element>

  <xs:complexType name="SampleRecord">
    <xs:all>
      <xs:element name="Operation" type="Operation" />
      <xs:element name="RegisteredSampler" type="RegisteredSampler" />
      <xs:element name="SampleCollection" type="SampleCollection" />
      <xs:element name="SampleResults">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="SampleResult" type="SampleResult" maxOccurs="unbounded" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ExceedanceDeclaration" type="ExceedanceDeclaration" nillable="true"
minOccurs="0" />
    </xs:all>
    <xs:attribute name="Id" type="xs:string" use="required" />
  </xs:complexType>

  <xs:complexType name="Operation" abstract="true">
    <xs:sequence>
      <xs:element name="Company" type="Company" />
      <xs:element name="Site" type="Site" nillable="true" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="MiningOperation">
    <xs:complexContent>
      <xs:extension base="Operation" />
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="ExplorationOperation">
    <xs:complexContent>
      <xs:extension base="Operation" />
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="RegisteredSampler">
    <xs:all>
      <xs:element name="Registration">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="30" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="Surname">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="30" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:all>
  </xs:complexType>
</xs:schema>
```

```

</xs:element>
<xs:element name="GivenName">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="30" />
    </xs:restriction>
  </xs:simpleType>
</xs:element>
</xs:all>
</xs:complexType>

<xs:complexType name="SampleCollection">
  <xs:all>
    <xs:element name="Date" type="xs:date" />
    <xs:element name="CurrentHHMP" type="xs:string" nillable="true" minOccurs="0" />
    <xs:element name="SEGID" type="xs:string" nillable="true" minOccurs="0" />
    <xs:element name="InvestigativeCapacity" type="xs:boolean" nillable="true" minOccurs="0" />
    <xs:element name="LocationCode" type="xs:int" />
    <xs:element name="Employee" type="Employee" />
    <xs:element name="PPEType" nillable="true" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="EM" />
          <xs:enumeration value="em" />
          <xs:enumeration value="EP" />
          <xs:enumeration value="ep" />
          <xs:enumeration value="CPM" />
          <xs:enumeration value="cpm" />
          <xs:enumeration value="None" />
          <xs:enumeration value="NONE" />
          <xs:enumeration value="Other" />
          <xs:enumeration value="OTHER" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="PPETypeOther" nillable="true" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="50" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="PPECClass" nillable="true" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="xs:int">
          <xs:enumeration value="1" />
          <xs:enumeration value="2" />
          <xs:enumeration value="3" />
          <xs:enumeration value="4" />
          <xs:enumeration value="5" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:all>
</xs:complexType>

<xs:complexType name="Employee">
  <xs:all>
    <xs:element name="Surname">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="30" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="GivenName">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:maxLength value="30" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="DateOfBirth" type="xs:date" />
    <xs:element name="Gender" type="Gender" />
  </xs:all>
</xs:complexType>

```

```

        <xs:element name="OccupationCode" type="xs:int" />
        <xs:element name="Shift" type="Shift" />
    </xs:all>
</xs:complexType>

<xs:complexType name="SampleResult">
    <xs:all>
        <xs:element name="ContaminantCode">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:maxLength value="20" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
        <xs:element name="Concentration" nillable="true" minOccurs="0">
            <xs:simpleType>
                <xs:restriction base="xs:decimal">
                    <xs:totalDigits value="9" />
                    <xs:fractionDigits value="4" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
        <xs:element name="UnitOfMeasure">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:maxLength value="50" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
        <xs:element name="AttenuationExpected">
            <xs:simpleType>
                <xs:restriction base="xs:decimal">
                    <xs:totalDigits value="9" />
                    <xs:fractionDigits value="2" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
    </xs:all>
</xs:complexType>

<xs:complexType name="Company">
    <xs:all>
        <xs:element name="Code">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:pattern value="0\d{5}|\^$" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
        <xs:element name="Name">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:maxLength value="60" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
    </xs:all>
</xs:complexType>

<xs:complexType name="Site">
    <xs:all>
        <xs:element name="Code">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:pattern value="SG\d{7}|\^$" />
                    <xs:maxLength value="10" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
        <xs:element name="Name">
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:maxLength value="60" />
                </xs:restriction>
            </xs:simpleType>
        </xs:element>
    </xs:all>
</xs:complexType>

```

```

        </xs:simpleType>
      </xs:element>
    </xs:all>
  </xs:complexType>

  <xs:complexType name="Shift">
    <xs:all>
      <xs:element name="Length">
        <xs:simpleType>
          <xs:restriction base="xs:decimal">
            <xs:totalDigits value="4" />
            <xs:fractionDigits value="2" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="DaysOn" type="xs:int" />
      <xs:element name="DaysOff" type="xs:int" />
    </xs:all>
  </xs:complexType>

  <xs:complexType name="ExceedanceDeclaration">
    <xs:all>
      <xs:element name="WasRiskInfoProvided" type="xs:boolean" />
      <xs:element name="WasPPESupplied" type="xs:boolean" />
      <xs:element name="WasFitTested" type="xs:boolean" />
      <xs:element name="HasOngoingProgram" type="xs:boolean" />
      <xs:element name="HasPlanSubmitted" type="xs:boolean" />
    </xs:all>
  </xs:complexType>

  <xs:simpleType name="Gender">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Female" />
      <xs:enumeration value="Male" />
    </xs:restriction>
  </xs:simpleType>
</xs:schema>

```

## 8 Noise Dosimetry Record File Example (XML)

```
<?xml version="1.0" encoding="UTF-8" ?>
<SampleDocument xmlns="http://www.dmp.wa.gov.au/srs/contam/sample-record/1.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <SampleRecords>

    <SampleRecord Id="N0000001">

      <Operation xsi:type="MiningOperation">
        <Company>
          <Code>000001</Code>
          <Name>Test Company</Name>
        </Company>
        <Site>
          <Code>SG0000001</Code>
          <Name>Test Site</Name>
        </Site>
      </Operation>

      <RegisteredSampler>
        <Registration>534576</Registration>
        <Surname>Oscorp</Surname>
        <GivenName>Oswald</GivenName>
      </RegisteredSampler>

      <SampleCollection>
        <Date>2018-09-18</Date>
        <CurrentHHMP>HHMP-000007</CurrentHHMP>
        <SEGID>SEG007</SEGID>
        <InvestigativeCapacity>false</InvestigativeCapacity>
        <LocationCode>121</LocationCode>

        <Employee>
          <Surname>Parker</Surname>
          <GivenName>Peter</GivenName>
          <DateOfBirth>1968-01-01</DateOfBirth>
          <Gender>Male</Gender>
          <OccupationCode>110000</OccupationCode>
          <Shift>
            <Length>12</Length>
            <DaysOn>14</DaysOn>
            <DaysOff>6</DaysOff>
          </Shift>
        </Employee>

        <PPEType>OTHER</PPEType>
        <PPETypeOther>Beats by Dr Dre</PPETypeOther>
        <PPEClass>1</PPEClass>
      </SampleCollection>

      <SampleResults>
        <SampleResult>
          <ContaminantCode>Noise_LAeq8h</ContaminantCode>
          <Concentration>87</Concentration>
          <UnitOfMeasure>dB(A)</UnitOfMeasure>
          <AttenuationExpected>0</AttenuationExpected>
        </SampleResult>
        <SampleResult>
          <ContaminantCode>Noise_Lpeak</ContaminantCode>
          <Concentration>140</Concentration>
          <UnitOfMeasure>dB(C)</UnitOfMeasure>
          <AttenuationExpected>0</AttenuationExpected>
        </SampleResult>
      </SampleResults>

      <ExceedanceDeclaration>
        <WasRiskInfoProvided>true</WasRiskInfoProvided>
        <WasPPESupplied>true</WasPPESupplied>
        <WasFitTested>false</WasFitTested>
        <HasOngoingProgram>true</HasOngoingProgram>
        <HasPlanSubmitted>true</HasPlanSubmitted>
      </ExceedanceDeclaration>
    </SampleRecord>
  </SampleRecords>
</SampleDocument>
```

```

</ExceedanceDeclaration>
</SampleRecord>

<SampleRecord Id="N0000002">

  <Operation xsi:type="MiningOperation">
    <Company>
      <Code>000001</Code>
      <Name>Test Company</Name>
    </Company>
    <Site>
      <Code>SG0000001</Code>
      <Name>Test Site</Name>
    </Site>
  </Operation>

  <RegisteredSampler>
    <Registration>17853</Registration>
    <Surname>Wayne</Surname>
    <GivenName>Bruce</GivenName>
  </RegisteredSampler>

  <SampleCollection>
    <Date>2018-09-18</Date>
    <CurrentHHMP>HHMP-000007</CurrentHHMP>
    <SEGID>SEG023</SEGID>
    <InvestigativeCapacity>false</InvestigativeCapacity>
    <LocationCode>162</LocationCode>

    <Employee>
      <Surname>Prince</Surname>
      <GivenName>Diana</GivenName>
      <DateOfBirth>1988-04-01</DateOfBirth>
      <Gender>Female</Gender>
      <OccupationCode>123000</OccupationCode>
      <Shift>
        <Length>13.25</Length>
        <DaysOn>21</DaysOn>
        <DaysOff>7</DaysOff>
      </Shift>
    </Employee>

    <PPEType>CPM</PPEType>
    <PPEClass>4</PPEClass>

  </SampleCollection>

  <SampleResults>
    <SampleResult>
      <ContaminantCode>Noise_LAeq8h</ContaminantCode>
      <Concentration>81</Concentration>
      <UnitOfMeasure>dB(A)</UnitOfMeasure>
      <AttenuationExpected>26</AttenuationExpected>
    </SampleResult>
    <SampleResult>
      <ContaminantCode>Noise_Lpeak</ContaminantCode>
      <Concentration>122</Concentration>
      <UnitOfMeasure>dB(C)</UnitOfMeasure>
      <AttenuationExpected>26</AttenuationExpected>
    </SampleResult>
  </SampleResults>

</SampleRecord>

</SampleRecords>

</SampleDocument>

```

## 9 Combined Sample Record File Example (XML)

```
<?xml version="1.0" encoding="UTF-8" ?>
<SampleDocument xmlns="http://www.dmp.wa.gov.au/srs/contam/sample-record/1.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <SampleRecords>

    <SampleRecord Id="N0000001">

      <Operation xsi:type="MiningOperation">
        <Company>
          <Code>000001</Code>
          <Name>Test Company</Name>
        </Company>
        <Site>
          <Code>SG0000001</Code>
          <Name>Test Site</Name>
        </Site>
      </Operation>

      <RegisteredSampler>
        <Registration>534576</Registration>
        <Surname>Oscorp</Surname>
        <GivenName>Oswald</GivenName>
      </RegisteredSampler>

      <SampleCollection>
        <Date>2018-09-18</Date>
        <CurrentHHMP>HHMP-000007</CurrentHHMP>
        <SEGID>SEG007</SEGID>
        <InvestigativeCapacity>false</InvestigativeCapacity>
        <LocationCode>121</LocationCode>

        <Employee>
          <Surname>Parker</Surname>
          <GivenName>Peter</GivenName>
          <DateOfBirth>1968-01-01</DateOfBirth>
          <Gender>Male</Gender>
          <OccupationCode>110000</OccupationCode>

          <Shift>
            <Length>12</Length>
            <DaysOn>14</DaysOn>
            <DaysOff>6</DaysOff>
          </Shift>
        </Employee>

        <PPEType>OTHER</PPEType>
        <PPETypeOther>Beats by Dr Dre</PPETypeOther>
        <PPEClass>1</PPEClass>
      </SampleCollection>

      <SampleResults>

        <SampleResult>
          <ContaminantCode>Noise_LAeq8h</ContaminantCode>
          <Concentration>87</Concentration>
          <UnitOfMeasure>dB(A)</UnitOfMeasure>
          <AttenuationExpected>0</AttenuationExpected>
        </SampleResult>

        <SampleResult>
          <ContaminantCode>Noise_Lpeak</ContaminantCode>
          <Concentration>140</Concentration>
          <UnitOfMeasure>dB(C)</UnitOfMeasure>
          <AttenuationExpected>0</AttenuationExpected>
        </SampleResult>
      </SampleResults>

      <ExceedanceDeclaration>
        <WasRiskInfoProvided>true</WasRiskInfoProvided>
      </ExceedanceDeclaration>
    </SampleRecord>
  </SampleRecords>
</SampleDocument>
```

```

    <WasPPESupplied>true</WasPPESupplied>
    <WasFitTested>false</WasFitTested>
    <HasOngoingProgram>true</HasOngoingProgram>
    <HasPlanSubmitted>true</HasPlanSubmitted>
  </ExceedanceDeclaration>
</SampleRecord>
<SampleRecord Id="A0000001">
  <Operation xsi:type="MiningOperation">
    <Company>
      <Code>000001</Code>
      <Name>Test Company</Name>
    </Company>
    <Site>
      <Code>SG0000001</Code>
      <Name>Test Site</Name>
    </Site>
  </Operation>
  <RegisteredSampler>
    <Registration>123123</Registration>
    <Surname>Bana</Surname>
    <GivenName>Eric</GivenName>
  </RegisteredSampler>
  <SampleCollection>
    <Date>2018-09-18</Date>
    <CurrentHHMP>HHMP-000007</CurrentHHMP>
    <SEGID>SEG007</SEGID>
    <InvestigativeCapacity>false</InvestigativeCapacity>
    <EquipmentCode>CA</EquipmentCode>
    <LocationCode>121</LocationCode>
    <Employee>
      <Surname>Parker</Surname>
      <GivenName>Peter</GivenName>
      <DateOfBirth>1968-01-01</DateOfBirth>
      <Gender>Male</Gender>
      <OccupationCode>110000</OccupationCode>
      <Shift>
        <Length>12</Length>
        <DaysOn>14</DaysOn>
        <DaysOff>6</DaysOff>
      </Shift>
    </Employee>
  </SampleCollection>
  <SampleResults>
    <SampleResult>
      <ExposureType>TWA</ExposureType>
      <ContaminantCode>RES</ContaminantCode>
      <Concentration>3.1012</Concentration>
      <UnitOfMeasure>mg/m3</UnitOfMeasure>
      <BelowDetectionLimit>false</BelowDetectionLimit>
    </SampleResult>
    <SampleResult>
      <ExposureType>TWA</ExposureType>
      <ContaminantCode>SIL</ContaminantCode>
      <Concentration>0.0540</Concentration>
      <UnitOfMeasure>mg/m3</UnitOfMeasure>
      <BelowDetectionLimit>false</BelowDetectionLimit>
    </SampleResult>
  </SampleResults>
  <ExceedanceDeclaration>
    <WasRiskInfoProvided>true</WasRiskInfoProvided>
    <WasPPESupplied>true</WasPPESupplied>
    <WasFitTested>true</WasFitTested>
  </ExceedanceDeclaration>
</SampleRecord>

```



```

        <HasOngoingProgram>true</HasOngoingProgram>
        <HasPlanSubmitted>true</HasPlanSubmitted>
    </ExceedanceDeclaration>
</SampleRecord>
<SampleRecord Id="B0000001">
    <Operation xsi:type="MiningOperation">
        <Company>
            <Code>000001</Code>
            <Name>Test Company</Name>
        </Company>
        <Site>
            <Code>SG0000001</Code>
            <Name>Test Site</Name>
        </Site>
    </Operation>
    <SampleCollection>
        <Date>2018-09-18</Date>
        <CurrentHHMP>HHMP-000007</CurrentHHMP>
        <SEGID>SEG007</SEGID>
        <InvestigativeCapacity>false</InvestigativeCapacity>
        <LocationCode>121</LocationCode>
        <Employee>
            <Surname>Parker</Surname>
            <GivenName>Peter</GivenName>
            <DateOfBirth>1968-01-01</DateOfBirth>
            <Gender>Male</Gender>
            <OccupationCode>110000</OccupationCode>
            <Shift>
                <SampleTiming>StartOfShift</SampleTiming>
            </Shift>
        </Employee>
    </SampleCollection>
    <SampleResults>
        <SampleResult>
            <ContaminantCode>As_bio (Urine)</ContaminantCode>
            <Concentration>19.1200</Concentration>
            <UnitOfMeasure>µg As/L</UnitOfMeasure>
            <BelowDetectionLimit>false</BelowDetectionLimit>
        </SampleResult>
        <SampleResult>
            <ContaminantCode>Pb_bio (Blood)</ContaminantCode>
            <Concentration>15.3400</Concentration>
            <UnitOfMeasure>µg/dL</UnitOfMeasure>
            <BelowDetectionLimit>false</BelowDetectionLimit>
        </SampleResult>
    </SampleResults>
</SampleRecord>
<SampleRecord Id="A0000002">
    <Operation xsi:type="MiningOperation">
        <Company>
            <Code>000001</Code>
            <Name>Test Company</Name>
        </Company>
        <Site>
            <Code>SG0000001</Code>
            <Name>Test Site</Name>
        </Site>
    </Operation>
    <RegisteredSampler>
        <Registration>7853</Registration>
    </RegisteredSampler>

```

```

    <Surname>Stark</Surname>
    <GivenName>Tony</GivenName>
  </RegisteredSampler>

  <SampleCollection>
    <Date>2018-09-18</Date>
    <CurrentHHMP>HHMP-000007</CurrentHHMP>
    <SEGID></SEGID>
    <InvestigativeCapacity>true</InvestigativeCapacity>
    <EquipmentCode>ST</EquipmentCode>
    <LocationCode>162</LocationCode>

    <Employee>
      <Surname>Prince</Surname>
      <GivenName>Diana</GivenName>
      <DateOfBirth>1988-04-01</DateOfBirth>
      <Gender>Female</Gender>
      <OccupationCode>123000</OccupationCode>

      <Shift>
        <Length>13.25</Length>
        <DaysOn>21</DaysOn>
        <DaysOff>7</DaysOff>
      </Shift>
    </Employee>
  </SampleCollection>

  <SampleResults>

    <SampleResult>
      <ExposureType>STEL</ExposureType>
      <ContaminantCode>S02</ContaminantCode>
      <Concentration>1.812</Concentration>
      <UnitOfMeasure>ppm </UnitOfMeasure>
      <BelowDetectionLimit>false</BelowDetectionLimit>
    </SampleResult>

    <SampleResult>
      <ExposureType>STEL</ExposureType>
      <ContaminantCode>N02</ContaminantCode>
      <Concentration>2.040</Concentration>
      <UnitOfMeasure>ppm </UnitOfMeasure>
      <BelowDetectionLimit>false</BelowDetectionLimit>
    </SampleResult>

    <SampleResult>
      <ExposureType>TWA</ExposureType>
      <ContaminantCode>HNO</ContaminantCode>
      <Concentration>0.006</Concentration>
      <UnitOfMeasure>ppm</UnitOfMeasure>
      <BelowDetectionLimit>true</BelowDetectionLimit>
    </SampleResult>

  </SampleResults>

</SampleRecord>

</SampleRecords>

</SampleDocument>

```

## **ii. Appendix B - Reference codes required for XML and Excel files**

All codes can be found in the following document: [Safety Regulation System \(SRS\) health and hygiene code index.](#)

Alternatively, there is an Excel spreadsheet, SRS - Health and Hygiene Codes.xlsx, which is located in the directory **03 - Reference Data**.

## **iii. Appendix C - Using the Excel template for bulk upload**

Refer to the guide: **02 - Using the Excel template for bulk upload.pdf**.

## **iv. Appendix D - Accessing and uploading data into SRS**

Refer to the guide: **01 - Accessing and uploading data into SRS.pdf**.