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EXISTING ACCESS ROAD DIVERTED TO BE WITHIN ROAD RESERVE
EXISTING QUARRY
TUMBLONG RESERVE ROAD
SITE BOUNDARY
LOT BOUNDARIES
EXTENTS OF PROPOSED LANDFILL
EXTENTS OF TOTAL LANDFILL

FIGURE 03
TUMBLONG QUARRY
EXISTING SITE SURVEY
MH EARTHMOVING

LEGEND:
SITE BOUNDARY
LOT BOUNDARIES
EXTENTS OF PROPOSED LANDFILL

CLIENT: MH EARTHMOVING
SITE: TUMBLONG QUARRY
TITLE: EXISTING SITE SURVEY
DATE: 07.03.2019
SCALE: 1:500
PAPERSIZE: A3
DWG: FIGURE 03

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CONSULTANTS IN SURVEYING, PLANNING AND DEVELOPMENT
T.J. HINCHCLIFFE & ASSOCIATES

07.03.2019
SCALE 1:500
OUTLINE OF 1m HIGH ENGINEERED BUND

EXISTING ACCESS ROAD DIVERTED TO BE WITHIN ROAD RESERVE

EXCAVATION PROFILE

LEGEND:
- SITE BOUNDARY
- LOT BOUNDARIES

CELL 1

CELL 2

FIGURE 04

TUMBLONG QUARRY

PROPOSED LANDFILL SUBGRADE LEVELS AND LAYOUT PLAN

MH EARTHMOVING

CLIENT: MH EARTHMOVING
SITE: TUMBLONG QUARRY
TITLE: PROPOSED LANDFILL SUBGRADE LEVELS AND LAYOUT PLAN
DATE: 07.03.2019
SCALE: 1:1,000
PAPERSIZE: A3
DWG: FIGURE 04

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EXISTING ACCESS ROAD DIVERTED TO BE WITHIN ROAD RESERVE

1m HIGH ENGINEERED BUND TO TIE INTO EXISTING GROUND LEVELS

LEGEND:
- SITE BOUNDARY
- LOT BOUNDARIES
- 200mm SUBBASE LAYER
- ENGINEERED BUNDS

CLIENT: MH EARTTHMOVING
SITE: TUMBLONG QUARRY
TITLE: ENGINEERED SUB-BASE AND BUNDS LAYOUT PLAN
DATE: 07.03.2019 SCALE: 1:1,000 PAPERSIZE: A3 DWG: FIGURE 05

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**FIG 09**

**TUMBLONG QUARRY**

**LEACHATE DRAINAGE CONSTRUCTION DETAILS**

**SECTION THROUGH LEACHATE SPUR DRAIN**

- 200mm THICK COMPACTED CLAY SUB-BASE
- 20mm ID SLOTTED HDPE LEACHATE COLLECTION PIPE
- 400mm ID SOLID HDPE RISER PIPE
- 3000 x 3000 x 1000mm MOUNDED AGGREGATE LEACHATE COLLECTION SUMP
- 300mm LEACHATE AGGREGATE ON CELL FLOOR
- 400mm ID SLOTTED HOPE RISER PIPE
- HOPE END CAP
- 400mm INH COMPACTED CLAY SUB-BASE
- 300mm MIN COMPACTED CLAY SUB-BASE
- 1000mm THICKENED LEACHATE AGGREGATE WITHIN SUMP AREA
- 400mm ID SLOTTED HDPE RISER PIPE (LOWER 1000MM SLOTTED)
- 40mm ID TO 200mm ID PIPE REDUCER
- 200mm ID HOPE SLOTTED LEACHATE COLLECTION PIPE
- ENGINEERED BUND
- PROTECTION GEOTEXTILE
- HDPE GEOMEMBRANE
- GEOSYNTHETIC CLAY LINER
- 300mm THICK LEACHATE DRAINAGE BLANKET
- NON-WOVEN SEPARATION GEOTEXTILE
- 2.0mm THICK HDPE GEOMEMBRANE OVERLYING GCL
- GRANULAR SURROUND TO 600mm THICK PIPE DIAMETER
- 0.30m DEEP

---

**SECTION THROUGH LEACHATE SPINE DRAIN**

- 250mm ID PERFORATED PE100 LEACHATE COLLECTION PIPE
- 100mm GRANULAR PIPE BEDDING
- GRANULAR SURROUND TO BE MIN. TWICE PIPE DIAMETER
- 0.50m DEEP

---

**SECTION ON LEACHATE RISER WEDGE**

- 600x600 ANCHOR TRENCH
- HDPE END CAP
- 400mm ID SLOTTED HDPE RISER PIPE (LOWER 1000mm SLOTTED)
- 40mm ID TO 200mm ID PIPE REDUCER
- 200mm ID HOPE SLOTTED LEACHATE COLLECTION PIPE
- ENGINEERED BUND
- PROTECTION GEOTEXTILE
- HDPE GEOMEMBRANE
- GEOSYNTHETIC CLAY LINER
- 300mm THICK LEACHATE DRAINAGE BLANKET
- NON-WOVEN SEPARATION GEOTEXTILE
- 2.0mm THICK HDPE GEOMEMBRANE OVERLYING GCL
- GRANULAR SURROUND TO 600mm THICK PIPE DIAMETER
- 0.30m DEEP

---

**PLAN OF LEACHATE COLLECTION SUMP AND PIPEWORK**

- 300mm LEACHATE AGGREGATE ON CELL FLOOR
- 400mm ID SLOTTED HOPE RISER PIPE
- HOPE END CAP
- 400mm INH COMPACTED CLAY SUB-BASE
- 300mm MIN COMPACTED CLAY SUB-BASE
- 1000mm THICKENED LEACHATE AGGREGATE WITHIN SUMP AREA
- 400mm ID SLOTTED HDPE RISER PIPE
- 40mm ID TO 200mm ID PIPE REDUCER
- 200mm ID HOPE SLOTTED LEACHATE COLLECTION PIPE
- ENGINEERED BUND
- PROTECTION GEOTEXTILE
- HDPE GEOMEMBRANE
- GEOSYNTHETIC CLAY LINER
- 300mm THICK LEACHATE DRAINAGE BLANKET
- NON-WOVEN SEPARATION GEOTEXTILE
- 2.0mm THICK HDPE GEOMEMBRANE OVERLYING GCL
- GRANULAR SURROUND TO 600mm THICK PIPE DIAMETER
- 0.30m DEEP

---

**FIG 09**

**TUMBLONG QUARRY**

**LEACHATE DRAINAGE CONSTRUCTION DETAILS**

- 200mm THICK COMPACTED CLAY SUB-BASE
- 20mm ID SLOTTED HDPE LEACHATE COLLECTION PIPE
- 400mm ID SOLID HDPE RISER PIPE
- 3000 x 3000 x 1000mm MOUNDED AGGREGATE LEACHATE COLLECTION SUMP
- 300mm LEACHATE AGGREGATE ON CELL FLOOR
- 400mm ID SLOTTED HOPE RISER PIPE
- HOPE END CAP
- 400mm INH COMPACTED CLAY SUB-BASE
- 300mm MIN COMPACTED CLAY SUB-BASE
- 1000mm THICKENED LEACHATE AGGREGATE WITHIN SUMP AREA
- 400mm ID SLOTTED HDPE RISER PIPE (LOWER 1000MM SLOTTED)
- 40mm ID TO 200mm ID PIPE REDUCER
- 200mm ID HOPE SLOTTED LEACHATE COLLECTION PIPE
- ENGINEERED BUND
- PROTECTION GEOTEXTILE
- HDPE GEOMEMBRANE
- GEOSYNTHETIC CLAY LINER
- 300mm THICK LEACHATE DRAINAGE BLANKET
- NON-WOVEN SEPARATION GEOTEXTILE
- 2.0mm THICK HDPE GEOMEMBRANE OVERLYING GCL
- GRANULAR SURROUND TO 600mm THICK PIPE DIAMETER
- 0.30m DEEP

---

**SECTION ON LEACHATE RISER WEDGE**

- 600x600 ANCHOR TRENCH
- HDPE END CAP
- 400mm ID SLOTTED HDPE RISER PIPE (LOWER 1000mm SLOTTED)
- 40mm ID TO 200mm ID PIPE REDUCER
- 200mm ID HOPE SLOTTED LEACHATE COLLECTION PIPE
- ENGINEERED BUND
- PROTECTION GEOTEXTILE
- HDPE GEOMEMBRANE
- GEOSYNTHETIC CLAY LINER
- 300mm THICK LEACHATE DRAINAGE BLANKET
- NON-WOVEN SEPARATION GEOTEXTILE
- 2.0mm THICK HDPE GEOMEMBRANE OVERLYING GCL
- GRANULAR SURROUND TO 600mm THICK PIPE DIAMETER
- 0.30m DEEP
FIGURE 10
TUMBLONG QUARRY
PHASED EXCAVATION PLAN

LEGEND:

SITE BOUNDARY
LOT BOUNDARIES

STAGE 1 EXCAVATION PROFILE
SCALE 1:1,250
APPROX. STAGE 1 EXCAVATION VOLUME: 28,240 m³

STAGE 2 EXCAVATION OUTLINE
SCALE 1:1,250
CELL 2 TO BE EXCAVATED DURING STAGE 2 WORKS

APPROX. STAGE 1 EXCAVATION VOLUME: 127,000 m³

APPROX. STAGE 1 EXCAVATION VOLUME: 28,240 m³

CELL 1

CELL 2

APPROX. STAGE 1 EXCAVATION VOLUME: 127,000 m³

EXISTING ACCESS ROAD DIVERTED TO BE WITHIN ROAD RESERVE
OUTLINE OF 1m HIGH ENGINEERED BUND

SCALE 1:1,250

LEGEND:

SITE BOUNDARY
LOT BOUNDARIES

STAGE 1 EXCAVATION PROFILE

STAGE 2 EXCAVATION OUTLINE

CELL 2 TO BE EXCAVATED DURING STAGE 2 WORKS

APPROX. STAGE 1 EXCAVATION VOLUME: 28,240 m³

APPROX. STAGE 1 EXCAVATION VOLUME: 127,000 m³

EXISTING ACCESS ROAD DIVERTED TO BE WITHIN ROAD RESERVE
OUTLINE OF 1m HIGH ENGINEERED BUND
MH EARTHMOVING
TUMBLONG QUARRY
PROPOSED TOP OF WASTE LAYOUT PLAN

CLIENT: MH EARTHMOVING
SITE: TUMBLONG QUARRY
TITLE: PROPOSED TOP OF WASTE LAYOUT PLAN
DATE: 07.03.2019
SCALE: 1:1,000
PAPERSIZE: A3
DWG: FIGURE 11

EXISTING ACCESS ROAD DIVERTED TO BE WITHIN ROAD RESERVE
1m HIGH ENGINEERED BUND TO TIE INTO EXISTING GROUND LEVELS

EXISTING ACCESS ROAD DIVERTED TO BE WITHIN ROAD RESERVE
1m HIGH ENGINEERED BUND TO TIE INTO EXISTING GROUND LEVELS
TYPICAL CAPPING CONSTRUCTION DETAILS

MH EARTHW MOVING
TUMBLONG QUARRY
TYPICAL CAPPING CONSTRUCTION DETAILS

DATE: 07.03.2019
SCALE: 1:1,000
PAPERSIZE: A3
DWG: FIGURE 12

- **Typical Section Through Edge of Cap (North & West)**
- **Typical Long Section**
- **Typical Section Through Capping Layers**

**Client:**
**Site:**
**Title:**

**InSitu Advisory**
TUMBLONG QUARRY

3D EXCAVATION AND PROPOSED FINAL WASTE PROFILE PLAN

CLIENT: MH EARTHMOVING
SITE: TUMBLONG QUARRY
TITLE: 3D EXCAVATION AND PROPOSED FINAL WASTE PROFILE PLAN
DATE: 07.03.2019 SCALE: 1:1,000 PAPERSIZE: A3 DWG: FIGURE 14

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Approximate Volumes

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<th>Description</th>
<th>Volume</th>
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<tr>
<td>TOTAL CELL 1 EXCAVATION VOLUME</td>
<td>28,240m³</td>
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<tr>
<td>PERIMETER BUNDS</td>
<td>-3,450m³</td>
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<tr>
<td>CELL 1 INTERCELL BUND</td>
<td>-2,160m³</td>
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<tr>
<td>CELL 1 SUBBASE</td>
<td>-2,716m³</td>
</tr>
<tr>
<td>BALANCE STORED IN CELL 2 AFTER COUNCIL NEEDS</td>
<td>9,914m³</td>
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Approximate Volumes

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<th>Volume</th>
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</thead>
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<tr>
<td>BULK EXCAVATION CELL 2</td>
<td>127,000m³</td>
</tr>
<tr>
<td>ADD PREVIOUSLY STORED FILL FROM CELL 2</td>
<td>9,914m³</td>
</tr>
<tr>
<td>CELL 2 SUBBASE</td>
<td>-4,610m³</td>
</tr>
<tr>
<td>DAILY COVER AND COUNCIL</td>
<td>-24,500m³</td>
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<tr>
<td>QUARRY MATERIAL NEEDS</td>
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<tr>
<td>BALANCE OF MATERIAL PLACED</td>
<td>107,800m³</td>
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Proposed Temporary Stockpile Area in Adjacent MHE Owned Lot 1 DP 72838

Balance of Cell 2 excavated material placed in temporary stockpile in MHE Adjacent Lot 107,800m³ approx.
FIGURE 16
TUMBLONG QUARRY
REHABILITATION SOILS MOVEMENT PLAN
MH EARTHMOVING

LEGEND:

SITE BOUNDARY
LOT BOUNDARIES

CELL 2
OPERATIONAL LANDFILL

CELL 1
PARTIAL
REHABILITATION
(15,130m³)

CELL 2
PARTIAL
REHABILITATION

CELL 7
FINAL REHABILITATION

CELL 3
PARTIAL
REHABILITATION

CELL 1
FULL REHABILITATION

EARTHWORKS TRUCKS TO USE SITE HAUL ROUTE TO CELL 1

REHABILITATION SOILS TAKEN FROM STOCKPILE

RESTORATION SOILS BLENDED INTO SURROUNDING GROUND LEVEL

| APPROX. VOLUMES | | |
|-----------------|-----------------|
| VOLUME OF STOCKPILED SOILS | 107,800m³ |
| REHABILITATION OF CELL 1 | -15,130m³ |
| BALANCE OF SOILS IN STOCKPILE | 92,674m³ |

APPROX. VOLUMES

| VOLUME OF STOCKPILED SOILS | 92,674m³ |
| REHABILITATION OF CELL 2 | -38,260m³ |
| WASTE COVER SOILS REQUIRED FOR CELL 2 | -19,500m³ |
| COUNCIL REMOVAL OF QUARRIED FILL DURING CELL 2 OPERATION | -34,914m³ |
| TOTAL SOILS BALANCE IN TEMPORARY STOCKPILE AT COMPLETION | 0m³ |

REHABILITATION SOILS TAKEN FROM STOCKPILE
EARTHWORKS TRUCKS TO USE SITE HAUL ROUTE TO CELL 1

APPROX. VOLUMES

| APPROX. VOLUMES | | |
|-----------------|-----------------|
| VOLUME OF STOCKPILED SOILS | 111,862m³ |
| REHABILITATION OF CELL 1 | 74,308m³ |
| BALANCE OF SOILS IN STOCKPILE | 37,554m³ |

APPROX. VOLUMES

| VOLUME OF STOCKPILED SOILS | 111,862m³ |
| REHABILITATION OF CELL 2 | -38,260m³ |
| WASTE COVER SOILS REQUIRED FOR CELL 2 | -19,500m³ |
| COUNCIL REMOVAL OF QUARRIED FILL DURING CELL 2 OPERATION | -34,914m³ |
| TOTAL SOILS BALANCE IN TEMPORARY STOCKPILE AT COMPLETION | 0m³ |

APPROX. VOLUMES

| VOLUME OF STOCKPILED SOILS | 107,800m³ |
| REHABILITATION OF CELL 1 | -15,130m³ |
| BALANCE OF SOILS IN STOCKPILE | 92,674m³ |

APPROX. VOLUMES

| VOLUME OF STOCKPILED SOILS | 92,674m³ |
| REHABILITATION OF CELL 2 | -38,260m³ |
| WASTE COVER SOILS REQUIRED FOR CELL 2 | -19,500m³ |
| COUNCIL REMOVAL OF QUARRIED FILL DURING CELL 2 OPERATION | -34,914m³ |
| TOTAL SOILS BALANCE IN TEMPORARY STOCKPILE AT COMPLETION | 0m³ |
**TUMBLONG QUARRY**

**PROPOSED FILLING PLAN**

**Filling Stage 0 - Landfill Cell 1 & 2 Modelled Surface With Engineered Bunds**
- **TUMBLONG RESERVE ROAD**
- **SITE ROAD**
- **WASTE UNLOADING HOPPER PLACED ON NORTHERN FLANK**

**Filling Stage 1 - Waste Emplacement Within Cell 1 From Waste Emplacement Hopper**
- **WASTE ENTERS CELL 1 VIA HOPPER AND SPREAD BY COMPACTION PLANT WITHIN CELL**
- **SITE ROAD**

**Filling Stage 2 - Waste Ramp Created From Waste Unloading Hopper Into Cell 2 Base**
- **TUMBLONG RESERVE ROAD**
- **SITE ROAD**
- **WASTE RAMP CAREFULLY PLACED DOWN CELL 1/CELL 2 SLOPE TO ACCESS CELL 2 FLOOR**

**Filling Stage 3 - Completed Landfill Profile**
- **TUMBLONG RESERVE ROAD**
- **SITE ROAD**
- **WASTE UNLOADING HOPPER REMOVED WHEN CELL 2 WASTE REACHES SURROUNDING GROUND LEVEL**

---

**MH EARTHMOVING**

**DATE:** 07.03.2019  **SCALE:** 1:1,000  **PAPERSIZE:** A3  **FIGURE:** 17

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MH EARTHMOVING
TUMBLONG QUARRY
DRAFT INFRASTRUCTURE LAYOUT PLAN

CLIENT: MH EARTHMOVING
SITE: TUMBLONG QUARRY
TITLE: DRAFT INFRASTRUCTURE LAYOUT PLAN
DATE: 07/03/2019
SCALE: 1:1,000
PAPERSIZE: A3
DWG: FIGURE 18

LEGEND:
- SITE BOUNDARY
- LOT BOUNDARIES

Indicative position of site compound to include:
- CRIB HUT
- SEPTIC TANK
- LOCKABLE SHED
- TOILET

Indicative position of storm water pond (see & position subject to modeling and design)

Indicative position of leachate storage dam (see & position subject to modeling and design)

Legend:
1m HIGH ENGINEERED CLAY PERIMETER BUND TO TIE INTO EXISTING GROUND LEVELS

Site compound access road

300mm thick leachate drainage blanket

MIN 150mm ID SLOTTED HDPE COLLECTION DRAIN

MIN 400mm ID SLOTTED HDPE SIDE RISER PIPE (LOWER 1000mm SLOTTED)

MIN 250mm ID SLOTTED HDPE SPINE DRAIN

MIN 150mm ID SLOTTED HDPE SIDE RISER PIPE

LEACHATE PIPEWORK FROM SIDE RISER

MIN 250mm ID SLOTTED HDPE SPINE DRAIN

300mm thick leachate drainage blanket

300mm thick leachate drainage blanket

MIN 250mm ID SLOTTED HDPE SPINE DRAIN

MIN 150mm ID SLOTTED HDPE COLLECTION DRAIN

MIN 400mm ID SLOTTED HDPE SIDE RISER PIPE (LOWER 1000mm SLOTTED)

MIN 150mm ID SLOTTED HDPE COLLECTION DRAIN

INDICATIVE POSITION OF LEACHATE STORAGE DAM (SEE & POSITION SUBJECT TO MODELING AND DESIGN)

INDICATIVE POSITION OF STORM WATER POND (SEE & POSITION SUBJECT TO MODELING AND DESIGN)
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LEGEND
- EXISTING CONTOURS (1.0m INTERVALS)
- DESIGN CONTOURS (1.0m INTERVALS)
- PROPOSED SEDIMENT DAM
- PROPOSED LEACHATE DAM
- DIRTY CATCHMENT BOUNDARY
- PROPOSED CONTOUR BANK
- PROPOSED CLEAN WATER DIVERSION
- PROPOSED TOE DRAIN
- PROPOSED SEDIMENT FENCE

INDICATIVE POSITION OF SITE COMPOUND TO INCLUDE:
- CRIB HUT
- SEPTIC TANK
- LOCKABLE SHED
- TOILET

INDICATIVE POSITION OF LEACHATE STORAGE DAM
(SIZE & POSITION SUBJECT TO MODELING AND DESIGN)

INDICATIVE POSITION OF STORM WATER POND
(SIZE & POSITION SUBJECT TO MODELING AND DESIGN)

SITE COMPOUND ACCESS ROAD

300mm THICK LEACHATE DRAINAGE BLANKET

MIN 250mm ID SLOTTED HDPE SPINE DRAIN

MIN 150mm ID SLOTTED HDPE COLLECTION DRAIN

MIN 400mm ID SLOTTED HDPE SIDE RISER PIPE (LOWER 1000mm SLOTTED)

300mm THICK LEACHATE DRAINAGE BLANKET

MIN 250mm ID SLOTTED HDPE SPINE DRAIN

MIN 150mm ID SLOTTED HDPE COLLECTION DRAIN

MIN 400mm ID SLOTTED HDPE SIDE RISER PIPE (LOWER 1000mm SLOTTED)

MIN 150mm ID SLOTTED HDPE COLLECTION DRAIN

NOTE:
* FOR DENITRIFICATION USE, SUBJECTED TO WATER QUALITY REQUIREMENTS.

FIGURE 18
TUMBLONG QUARRY
DRAFT INFRASTRUCTURE LAYOUT PLAN
MH EARTHMOVING
LEGEND:
- SITE BOUNDARY
- LOT BOUNDARIES
- 1m HIGH ENGINEERED CLAY
- PERIMETER BUND TO TIE INTO EXISTING GROUND LEVELS

TYPICAL SPILLWAY SECTION

BOUNDARY

FINAL LANDFORM

TWL RL 267.5

BASE RL 265

0.5m CREST

0.5m DEPTH

300mm THICK LEACHATE DRAINAGE BLANKET

MIN 250mm ID SLOTTED HDPE SPINE DRAIN

MIN 150mm ID SLOTTED HDPE COLLECTION DRAIN

MIN 400mm ID SLOTTED HDPE SIDE RISER PIPE (LOWER 1000mm SLOTTED)

MIN 150mm ID SLOTTED HDPE COLLECTION DRAIN

Sediment Dam Location

Sediment Dam Sizing Table

<table>
<thead>
<tr>
<th>Catchment Area (ha)</th>
<th>Design Storm</th>
<th>Settling Zone Capacity (%)</th>
<th>Sediment Zone Capacity (%)</th>
<th>Total Required Capacity (m³)</th>
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<td>4.95</td>
<td>5-year,x,0-per centile</td>
<td>1.00</td>
<td>0.50</td>
<td>1.50</td>
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</table>

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A 04.11.2019 PRELIMINARY ISSUE

Prepared/Principal Designer Date

CHECKED Date

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