IADC

IADC ISP PROGRAM

2017

Summary of Occupational Incidents
(Africa Water Totals)

Issued 15 June 2018
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IADC 2017 Africa Water Totals (Table 1)

<table>
<thead>
<tr>
<th>Totals</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Manhours</td>
<td>13,944,560</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>9</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>7</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>4</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>20</td>
</tr>
<tr>
<td>MTO Incidence Rate</td>
<td>0.13</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.10</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.06</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>0.29</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.16</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>0.79</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>0.29</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>1.43</td>
</tr>
</tbody>
</table>

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MANHOURS (LTIs NOT INCLUDED)
RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MANHOURS (LTIs NOT INCLUDED)
LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MANHOURS
DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 200,000 / MANHOURS
DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MANHOURS
RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MANHOURS
RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MANHOURS

Companies Reporting: Water – 17

Africa Water Total Incidence Rates vs Man-hours (Figure 1)
IADC 2017 Africa Water Charts

Note: There were only four Lost Time Incident recorded for 2017, therefore there will not be any charts.

Africa Water Total Recordable Incidents by Month (Chart 1)

Based on 20 Incidents

- May: 10.00%
- June: 20.00%
- July: 20.00%
- August: 5.00%
- December: 5.00%
- January: 5.00%
- February: 10.00%
- April: 25.00%
Africa Water Total Recordable Incidents by Occupation (Chart 2)
Based on 20 Incidents

- Subsea Engineer: 5.00%
- Maintenance Super: 10.00%
- Superintendent/other Supervisors: 5.00%
- Crane / Forklift Operator: 5.00%
- Mechanic: 20.00%
- Motorman: 5.00%
- Driller (Asst. Dr.): 5.00%
- Roustabout (Lease Hand): 25.00%
- Floorman: 20.00%

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Africa Water Total Recordable Incidents by Body Part (Chart 3)
Based on 20 Incidents

- Finger(s) 50.00%
- Head 10.00%
- Back 5.00%
- Hand(s) / Wrist(s) 10.00%
- Arm(s) 5.00%
- Trunk/Torso (chest, abdomen, groin) 5.00%
- Feet/Ankles 5.00%
- Leg(s) 10.00%
Africa Water Total Recordable Incidents by Incident Type (Chart 4)
Based on 20 Incidents

- Cut: 20.00%
- Struck By: 10.00%
- Struck Against: 10.00%
- Caught Between/In: 40.00%
- Flame/heat/steam (contact/exposed): 5.00%
- Strain/Overexertion: 5.00%
- Slip/Fall: Different Level: 10.00%
Africa Water Total Recordable Incidents by Equipment (Chart 5)
Based on 19 incidents

- Rig Floor Winch/Deck Winch (air/hydraulic) 15.79%
- BOP Stack (well head, tree) 5.26%
- Stairs 10.53%
- Top Drive (blocks, swivel, kelly) 5.26%
- Forklift 5.26%
- Crane 10.53%
- Pressure Hoses/Lines 5.26%
- BOP Stack (well head, tree) 5.26%
- Cathead/Drawworks 5.26%
- Helicopter 5.26%
- Engines/Pumps/Machinery 10.53%
- Hand Tools: Manual 10.53%
- Iron Roughneck, Pipe Spinner, etc. 5.26%
- Pipes/Collars/Tubulars/Csg. 5.26%

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Africa Water Total Recordable Incidents by Operation (Chart 6)
Based on 20 Incidents

- Travel/Transportation: 5.00%
- Routine Drilling Oper.: 10.00%
- Laying Down/Picking up Tubulars: 5.00%
- Material Handling: Manual: 10.00%
- Material Handling: Crane/Cherry Picker: 15.00%
- Material Handling: Forklift: 5.00%
- Material Handling: Rig Floor Winch: 5.00%
- BOP Stack Install/Maintenance: 5.00%
- Equipment Repairs or Maintenance: 25.00%
- Cementing: 5.00%
- Walking: 5.00%
- Handling Riser: 5.00%
Africa Water Total Recordable Incidents by Location (Chart 7)
Based on 19 Incidents

- Rig Floor: 30.00%
- Rig Pad/Rig Decks: 10.00%
- Rig Floor: 30.00%
- Engine Generator Room: 5.00%
- Helicopter: 5.00%
- Stairs/Ladders: 5.00%
- BOP Stack/well head/tree Area: 5.00%
- Derrick/Mast: 5.00%
- Pipe Rack/Pipe Deck: 15.00%
- Machinery Spaces: 10.00%
- Mud Pump Room: 10.00%
Africa Water Total Recordable Incidents by Time in Service (Chart 8)
Based on 18 Incidents

- >5 yrs. < 10 yrs.: 27.78%
- >1 yr. < 5 yrs.: 61.11%
- >6 mos. < 1 yr.: 5.56%
- 0 mo. < 3 mos.: 5.56%
- 0 mo. < 3 mos.: 5.56%
Africa Water Total Recordable Incidents by Time of Day (Chart 9)
Based on 20 Incidents

- 21:00: 5.00%
- 20:00: 10.00%
- 19:00: 5.00%
- 18:00: 5.00%
- 17:00: 15.00%
- 16:00: 5.00%
- 15:00: 5.00%
- 14:00: 20.00%
- 13:00: 10.00%
- 12:00: 5.00%
- 11:00: 15.00%
- 10:00: 10.00%
- 9:00: 5.00%
- 8:00: 5.00%
- 7:00: 10.00%
- 6:00: 5.00%
- 5:00: 5.00%
- 4:00: 10.00%
- 3:00: 5.00%
- 2:00: 5.00%
- 1:00: 5.00%
- 0:00: 10.00%
Africa Water Total Recordable Incidents by Age (Chart 10)
Based on 17 Incidents

- 36 - 45: 47.06%
- 46 - 55: 17.65%
- 56 - 65: 5.88%
- 26 - 35: 29.41%