IADC

IADC ISP PROGRAM

2016

Summary of Occupational Incidents
(Middle East Water Totals)

Issued 1 July 2017
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IADC 2016 Middle East Water Totals (Table 1)

Total

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>48,357,670</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>19</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>31</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>13</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>63</td>
</tr>
</tbody>
</table>

- **MTO Incidence Rate**: 0.08
- **RWC Incidence Rate**: 0.13
- **LTI Incidence Rate**: 0.05
- **LTI Frequency Rate**: 0.27
- **DART Incidence Rate**: 0.18
- **DART Frequency Rate**: 0.91
- **Recordable Incidence Rate**: 0.26
- **Recordable Frequency Rate**: 1.30

Companies Reporting: Water – 19

Medical Treatment Incidence Rate = MTOs X 200,000
Restricted Work Incidence Rate = RWCs X 200,000
Lost Time Incidence Rate = LTIs + FTLs X 200,000
DART Incidence Rate = LTIs + RWC X 200,000
Recordable Incidence Rate = RCRD X 200,000
Lost Time Frequency Rate = LTIs +FTLs X 1,000,000
DART Frequency Rate = LTIs + RWC X 1,000,000
Recordable Frequency Rate = RCRD X 1,000,000

Middle East Water Total Incidence Rates vs Man-hours (Figure 1)
Middle East Water Total Lost Time Incidents by Month (Chart 1)

Based on 13 Incidents

- April: 38.46%
- March: 15.38%
- May: 7.69%
- June: 7.69%
- July: 15.38%
- August: 7.69%
- September: 7.69%
- October: 7.69%
- November: 7.69%
Middle East Water Total Recordable Incidents by Month (Chart 2)
Based on 63 Incidents

- January: 4.76%
- February: 11.11%
- March: 9.52%
- April: 12.70%
- May: 7.94%
- June: 6.35%
- July: 7.94%
- August: 7.94%
- September: 12.70%
- October: 9.52%
- November: 4.76%
- December: 4.76%

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Middle East Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 13 Incidents

Toolpusher (Asst.TP, Tourpusher) 15.38%
Driller (Asst. Dr.) 7.69%
Derrickman 15.38%
Welder 7.69%
Crane Operator (Forklift Operator) 7.69%
Roustabout (Lease Hand) 15.38%
Floorman 30.77%
Middle East Water Total Recordable Incidents by Occupation (Chart 4)
Based on 63 Incidents

- Roustabout (Lease Hand): 22.22%
- Floorman: 23.81%
- Derrickman: 14.29%
- Electrician (Electronic Technician): 3.17%
- Toolpusher (Asst. TP, Tourpusher): 6.35%
- Driller (Asst. Dr.): 14.29%
- Mechanic (Repair Technician): 3.17%
- Crane Operator (Forklift Operator): 3.17%
- Catering Personnel (Camp Staff): 1.59%
- Deck Supervisor (Deck Coordinator): 1.59%
- Rig Helper: 3.17%
- Welder: 1.59%
- Maintenance Supervisor: 1.59%
- Floorman: 23.81%
- Roustabout (Lease Hand): 22.22%
- Derrickman: 14.29%
- Electrician (Electronic Technician): 3.17%
- Toolpusher (Asst. TP, Tourpusher): 6.35%
- Driller (Asst. Dr.): 14.29%
- Mechanic (Repair Technician): 3.17%
- Crane Operator (Forklift Operator): 3.17%
- Catering Personnel (Camp Staff): 1.59%
- Deck Supervisor (Deck Coordinator): 1.59%
- Rig Helper: 3.17%
- Welder: 1.59%
- Maintenance Supervisor: 1.59%
Middle East Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 13 Incidents

- Arm(s): 30.77%
- Hand(s) / Wrist(s): 23.08%
- Leg(s): 7.69%
- Neck: 7.69%
- Skin: 7.69%
- Feet/Ankles: 7.69%
- Toes: 15.38%

Based on 13 Incidents
Middle East Water Total Recordable Incidents by Body Part (Chart 6)
Based on 63 incidents

- Finger(s) (thumb(s)): 31.75%
- Hand(s) / Wrist(s): 17.46%
- Leg(s): 7.94%
- Arm(s): 6.35%
- Shoulder(s): 3.17%
- Skin: 1.59%
- Eyes: 1.59%
- Head: 14.29%
- Back: 1.59%
- Feet/Ankles: 7.94%
- Neck: 1.59%
- Toes: 4.76%
Middle East Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 13 Incidents

- Contact With Chemicals/Fluids: 7.69%
- Strain/Overexertion: 7.69%
- Slip/Fall: Different Level: 23.08%
- Slip/Fall: Same Level: 23.08%
- Caught Between/In: 15.38%
- Struck By: 7.69%
- Struck Against: 7.69%
- Flame/heat/steam exposed: 7.69%
Middle East Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 63 Incidents

- Strain/Overexertion: 1.59%
- Contact With Chemicals/Fluids: 4.76%
- Debris: 1.59%
- Cut: 9.52%
- Sprain: 1.59%
- Struck By: 11.11%
- Struck Against: 6.35%
- Slip/Fall: Different Level: 7.94%
- Slip/Fall: Same Level: 9.52%
- Jump: 1.59%
- Flame/heat/steam exposed: 1.59%
- Caught Between/In: 39.68%
- Sprain: 1.59%
- Sprain: 1.59%
Middle East Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 13 Incidents

- Welding, Cutting, Grinding Equipment: 7.69%
- Decks (grating, walkway): 7.69%
- Ladders: 15.38%
- Crane: 7.69%
- Chemicals: 7.69%
- Slings (rope, cable, chain, web): 7.69%
- Engines/Pumps/Machinery: 7.69%
- Material: 15.38%
- Well Control BOP Stack (well head, tree): 23.08%
Middle East Water Total Recordable Incidents by Equipment (Chart 10)
Based on 61 Incidents

- Rig Floor Winch/Deck Winch: 1.64%
- Top Drive (blocks, swivel, kelly): 1.64%
- Cranes: 16.39%
- Pressure Hoses/Lines: 3.28%
- Material: 8.20%
- Welding, Cutting, Grinding Equipment: 1.64%
- Chemicals: 3.28%
- BOP Stack (well head, tree): 8.20%
- Engines/Pumps/Machinery: 6.56%
- Tongs: 1.64%
- Elevators: 1.64%
- Slips (drill collar clamp): 1.64%
- Pipes/Collars/Tubulars/Csg.: 6.56%
- Slings (rope, cable, chain, web): 6.56%
- Stairs: 1.64%
- Hand Tools: Manual: 18.03%
- Hand Tools: Power: 1.64%
- Ladders: 3.28%
- Decks (grating, walkway): 6.56%
- Cranes: 16.39%
- Pressure Hoses/Lines: 3.28%
- Material: 8.20%
- Tongs: 1.64%
- Elevators: 1.64%
- Slips (drill collar clamp): 1.64%
- Pipes/Collars/Tubulars/Csg.: 6.56%
- Slings (rope, cable, chain, web): 6.56%
- Stairs: 1.64%
- Hand Tools: Manual: 18.03%
- Hand Tools: Power: 1.64%
Middle East Water Total Lost Time Incidents by Operation (Chart 11)
Based on 13 Incidents

- Mud Mixing/Pumping: 7.69%
- Routine Drilling Operations: 23.08%
- Material Handling: Manual: 7.69%
- Material Handling: Crane/Cherry Picker: 15.38%
- BOP Stack Install/Maintenance: 15.38%
- Equipment Repairs or Maintenance: 23.08%
- Walking: 7.69%
Middle East Water Total Recordable Incidents by Operation (Chart 12)
Based on 63 Incidents

- Tripping in/out: 3.17%
- Making Connection: 3.17%
- Routine Drilling Operations: 9.52%
- Running Casing/Tubing: 4.76%
- Laying Down/Picking up Pipe/Tub: 4.76%
- Material Handling: Manual: 15.87%
- Equipment Repairs or Maintenance: 20.63%
- BOP Stack Install/Maintenance: 7.94%
- Rigging Up/Down Rig Move: 4.76%
- Material Handling: Crane/Cherry Picker: 12.70%
- Mud Mixing/Pumping: 6.35%
- Walking: 6.35%

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Middle East Water Total Lost Time Incidents by Location (Chart 13)
Based on 13 Incidents

- Rig Pad/Rig Decks (rig/well site/location, yard): 23.08%
- Cherry Picker/Crane: 7.69%
- Rig Floor: 7.69%
- Pipe Rack/Pipe Deck: 7.69%
- Derrick/Mast: 7.69%
- Stairs/Ladders: 7.69%
- Mud Mixing Tank/Area: 7.69%
- BOP Stack (well head/tree) Area: 7.69%
- Catwalk/V-door: 7.69%
- Cellar/Substructure/Moonpool: 7.69%
- Machinery Spaces: 7.69%
- Rig Pad/Rig Decks (rig/well site/location, yard): 23.08%

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Middle East Water Total Recordable Incidents by Location (Chart 14)
Based on 62 Incidents

- Cherry Picker/Crane: 6.45%
- Mud Pump Room: 4.84%
- Rig Floor: 17.74%
- Pipe Rack/Pipe Deck: 8.06%
- Catwalk/V-door: 3.23%
- Derrick/Mast: 4.84%
- Camp/Accommodations Areas: 3.23%
- Work, change, storage room: 3.23%
- Rig Pad/Rig Decks (rig/well site/location, yard): 17.74%
- BOP Stack (well head/tree) Area: 6.45%
- Mud Mixing Tank/Area: 3.23%
- Shale Shaker: 3.23%
- Stairs/Ladders: 3.23%
- Mud Pits/Tanks: 3.23%
- Cellar/Sub./Moonpool: 6.45%
- Machinery Spaces: 3.23%
- Truck, Car, Bus: 1.61%
Middle East Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 13 Incidents

- >5 yrs. < 10 yrs.: 30.77%
- >1 yr. < 5 yrs.: 38.46%
- >6 mos. < 1 yr.: 7.69%
- >3 mos. < 6 mos.: 7.69%
- 10+ yrs.: 15.38%
Middle East Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 63 Incidents

- >10 yrs.: 17.46%
- >5 yrs. < 10 yrs.: 17.46%
- >1 yr. < 5 yrs.: 52.38%
- >6 mos. < 1 yr.: 6.35%
- >3 mos. < 6 mos.: 1.99%
- 0 mo. < 3 mos.: 4.76%
Middle East Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 13 Incidents

- 20:00: 15.38%
- 19:00: 7.69%
- 18:00: 7.69%
- 17:00: 7.69%
- 16:00: 7.69%
- 15:00: 7.69%
- 14:00: 7.69%
- 13:00: 7.69%
- 12:00: 7.69%
- 11:00: 23.08%
- 10:00: 15.38%
- 09:00: 7.69%
- 08:00: 7.69%
- 07:00: 7.69%
- 06:00: 7.69%
- 05:00: 7.69%
- 04:00: 7.69%
Middle East Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 62 Incidents
Middle East Water Total Lost Time Incidents by Age (Chart 19)
Based on 9 Incidents

- 26 - 35: 44.44%
- 36 - 45: 22.22%
- 46 - 55: 11.11%
- 18 - 25: 22.22%
Middle East Water Total Recordable Incidents by Age (Chart 20)
Based on 45 Incidents

- 26 - 35: 53.33%
- 36 - 45: 24.44%
- 46 - 55: 8.89%
- 56 - 65: 2.22%
- 18 - 25: 11.11%