SITE NAME:
 Slough STW
 ODOUR RISK ASSESSMENT

 DATE:
 13/06/2022

| DATE: | 13/06/2022 | Normal | | Α | bnormal | | 1 | | | | | | | | | | | | |
|--|--|---------------------|---|--|---|---------------------------------|---|--------------------------|-------------------------------|----------------------------------|--------------|---|-----------|----------------|---|--|--|--------------------------------------|---|
| Process Stage | Process Unit | Odour Description | Constant/ Intermittent/ Occasional/ Rare | Event Description | Likelihood of Event Frequent/ Rare/ Planned | Length of Time of Release | Nearest Customer/ Receptor | Offensive- ness (0-5) | Likelihood of Impact (0-5) | Odour Risk (<5 Low, >15 High) | Odour Impact | Monitoring | Frequency | Responsibility | Mitigation Measures | Residual Odour Impact (L/M/H) | Responsibility for Mitigation Measures | Customer Communication Needed? | Notes |
| ADD EXTRA ROWS BELOW THIS ROW IF REQUIRED | | | | | | | | | | | | | | | | | | | |
| Works Inlet | Incoming Sewers & Reception Wet Well | Sewage / Industrial | С | - | - | - | M4, Housing estate | 2 | 1 | 2 | Low | Odour/ colour SCADA | Daily | T1 | Inlet works is covered and ventilated to the Inlet Works OCU D. | - | T1 | - | Covers are not removed for longer than is needed if necessary to remove covers to perform certain tasks |
| Works Inlet | Incoming Sewers & Reception Wet Well | Sewage/ Industrial | - | Inlet uncovered. | Р | Days | M4, Housing estate | 3 | 3 | 9 | Medium | Odour/ colour | Daily | T1 | Restore covers as soon as possible. | М | Process control | Υ | |
| Works Inlet | Cess Reception, Discharge, Wash down & Drainage | Sewage | I | - | - | - | M4, Housing estate | 1 | 1 | 1 | Low | Monitor spillages (WML) | Daily | T1 | Discharged directly to inlet works through close coupled connector . | - | TW Biorecycling & T1 | - | |
| Works Inlet | Cess Reception, Discharge, Wash down & Drainage | Sewage | - | Spillage. | R | Hours | M4, Housing estate | 2 | 1 | 2 | Low | Odour/ colour | Daily | T1 | Cleaned up by Site Tech 1s ASAP | L | T1 | N | |
| Storm Separation | Storm & Balancing Tanks | Sewage | 0 | - | - | - | M4, Housing estate, Wood Lane, ASDA | 2 | 2 | 4 | Low | Odour/ colour | Daily | T1 | Due to the drainage gradient particular vigilance is required when cleaning the tank. | - | T1 | - | |
| Storm Separation | Storm & Balancing Tanks | Sewage | - | Poor drainage/ Residual sludge | F | Days | M4, Housing estate, Wood Lane, ASDA | 4 | 4 | 16 | High | Odour/ colour | Daily | T1 | Tank cleaning | н | Process control | Υ | |
| Preliminary Treatment | Screens & Screening Conditioning, Drainage & Rag Skip Management | Sewage | С | - | 1 | - | M4, Housing estate | 1 | 1 | 1 | Low | Odour/ colour | Daily | T1 | Screenings are fed into enclosed compacted skip, replaced when full. | - | T1 | - | |
| Preliminary Treatment | Screens & Screening Conditioning, Drainage & Rag Skip Management | Sewage | , | Failure of compactor, resulting in wet screenings. | F | Days | M4, Housing estate | 3 | 4 | 12 | Medium | Odour/ colour | Daily | T1 | Repair and act to ensure no build up; filled skips must be removed from site. Remove skips more often. | М | ТМ | N | Customer communcation depends on severity of issue |
| Preliminary Treatment | Grit Removal Equipment, Drainage & Grit Skip Management | Sewage | С | - | 1 | - | M4, Housing estate | 1 | 1 | 1 | Low | Odour/ colour | Daily | T1 | Ensure full skips are removed and replaced. | - | T1 | - | |
| Preliminary Treatment | Grit Removal Equipment, Drainage & Grit Skip Management | Sewage | - | Skips over fill, missing | R | Days | M4, Housing estate | 2 | 2 | 4 | Low | Odour/ colour | Daily | T1 | Replace | М | ТМ | N | Customer communcation depends on severity of issue |
| Odour Control Packages | OCU B (Western Area Pumping Station) | Sewage | C | · | · | - | M4, Housing estate | 3 | 2 | 6 | Low | Units are monitored by the SCADA system for failures | Daily | T1 | All routine site checks as per SOM. Odour control units are subject to regular preventative maintenance, checked on a monthly basis with the control of the | | | | |
| Odour Control Packages | OCU B (Western Area Pumping Station) | Sewage | - | OCU fialure | R | Days | M4, Housing estate | 2 | 3 | 6 | Medium | Units are monitored by the SCADA system for failures | Daily | T1 | Repair equipment at earliest opportunity. ERG carry out regular monthly inspections. OSIL make recommendations on remedial actions to take. | L | тм | N | |
| Crude Sewage Transfer | Flow & Distribution to Primary Settlement Tanks | Sewage | С | - | - | - | M4, Housing estate | 2 | 1 | 2 | Low | Odour/ colour | Daily | Т1 | Underground pipework. Ferric dosing at end of the inlet controlling hydrogen sulphide release. | - | - | - | |
| Primary Settlement | Primary Settlement Tanks | Sewage | С | - | - | - | M4, Housing estate | 2 | 3 | 6 | Medium | Odour/ colour | Daily | T1 | Clear any hopper blockages. For Scum or sludge build-up on surfaces, sludge dip levels are monitored. This can also be an indication of failure of desludging systems. | - | T1 | - | |
| Primary Settlement | Primary Settlement Tanks | Sewage | - | planned maintainance | Р | Weeks | M4, Housing estate | 3 | 3 | 9 | Medium | Odour/ colour | Daily | T1 | Complete work ASAP | М | TM | N | |

| Primary Settlement | Primary Settlement Tanks | Sewage | - | Hopper blockage, Pollution, plant failure | R | Weeks | M4, Housing estate | 3 | 3 | 9 | Medium | Odour/ colour | Daily | T1 | Repair, unblock, drain. Jet wash down to clean the exterior walls of tank. | М | ТМ | N | |
|--|---|-----------------------------------|---|---|---|-------|---|---|---|----|--------|---|-------|----|--|---|-------------------|---|--|
| Primary Settlement | Fats, Oil & Grease Scum Removal System | Sewage | С | - | - | - | M4, Housing estate | 2 | 2 | 4 | Low | Odour/ colour | Daily | T1 | Clear any hopper blockages. | - | T1 | - | |
| Primary Settlement | Fats, Oil & Grease Scum Removal System | Sewage | - | Hopper blockage, Pollution, plant failure | R | Days | M4, Housing estate | 2 | 2 | 4 | Low | - | | - | Repair, unblock, drain | L | ТМ | N | |
| Primary Settlement | Primary Raw Desludge Pumping | Sewage | С | - | - | - | M4, Housing estate | 2 | 1 | 2 | Low | Odour/ colour | Daily | T1 | Pipework contained and underground. | - | T1 | ÷ | |
| Settled Sewage Transfer | Flow & Distribution to Secondary Treatment | Sewage | С | - | - | - | M4, Housing estate | 2 | 1 | 2 | Low | Odour/ colour | Daily | T1 | Underground pipework. Ferric dosing at end of the inlet controlling hydrogen sulphide release. | * | - | 4 | |
| Secondary Treatment (Biological) | Activated Sludge Plant Lanes & Zones | Earthy | С | - | - | - | M4, Housing estate | 1 | 1 | 1 | Low | Odour/ colour | Daily | T1 | Ensure correct process control and repairs carried out. | - | T1 | - | |
| Secondary Treatment (Biological) | Activated Sludge Plant Lanes & Zones | Earthy | | Filamentous, Pollution, High ML, Blower failure | R | Weeks | M4, Housing estate | 2 | 2 | 4 | Low | Odour/ colour | Daily | T1 | Process control, repair | L | ТМ | N | |
| Odour Control Packages | OCU D (inlet works) | Residual odours and earthy odours | С | | | | M4, Housing estate | 2 | 1 | 2 | Low | Units are monitored by the SCADA system for failures | Daily | Τ1 | All routine site checks as per SOM. Odour control units are subject to regular preventative maintenance, checked on a monthly basis monthly by septicalist Framework contractors who Monitor performance, through p4 and HzS measurements and report to TL. Media is esplaced as per TWUL asset standards and recommendation from monitoring contractor to asset standard. | | T1 and contractor | | |
| Odour Control Packages | OCU D (Inlet works) | Residual odours and earthy odours | | Failure of unit or fan | R | Weeks | M4, Housing estate | 3 | 1 | 3 | Low | Units are monitored by the SCADA system for failures | | | Repainr equipment at earliest opportunity. ERG carry out regular monthly inspections. OSIL make recommendations on remedial actions to take. Standby fan. | L | тм | N | |
| Secondary Settlement | Final Settlement Tanks | Non-offensive | С | - | - | - | M4, Housing estate | 1 | 1 | 1 | Low | Units are monitored by the SCADA system for failures | Daily | T1 | Daily monitoring for sludge levels. Process control and repair. | - | | - | |
| Secondary Settlement | Final Settlement Tanks | Earthy | - | Failure of a component of the tank | R | Weeks | M4, Housing estate | 3 | 1 | 3 | Low | - | | - | Drain and clean as soon as possible | L | ТМ | N | |
| Secondary Settlement | Scum Removal System | Non-offensive | С | - | - | - | M4, Housing estate | 1 | 1 | 1 | Low | Units are monitored by the SCADA system for failures | Daily | T1 | Daily monitoring for sludge levels. Process control and repair. | | - | 4 | |
| Secondary Settlement | Scum Removal System | Earthy | - | Scum pump failure | R | Weeks | M4, Housing estate | 2 | 1 | 2 | Low | - | | - | Drain and clean as soon as possible | L | TM | N | |
| Secondary Settlement | RAS Chambers & Pumping | Earthy | С | | | | M4, Housing estate | 2 | 1 | 2 | Low | Units are monitored by the SCADA system for failures | Daily | T1 | Daily monitoring for sludge levels. Process control and repair. Drain and clean. | - | - | - | |
| Secondary Settlement | SAS Chambers & Pumping | Earthy | С | | | | M4, Housing estate | 2 | 1 | 2 | Low | Units are monitored by the SCADA system for failures | Daily | T1 | Daily monitoring for sludge levels. Process control and repair. Drain and clean. | 1 | - | 1 | |
| Tertiary Treatment | Filtration - Tertiary treatment disc filters | None | С | | | | M4, Housing estate | 0 | 0 | 0 | N/A | Units are monitored by the SCADA system for failures | Daily | T1 | Daily monitoring. Process control and repair when required. | - | | - | |
| Tertiary Treatment | Back Wash Returns | None | С | | | | M4, Housing estate | 0 | 0 | 0 | N/A | Units are monitored by the SCADA system for failures | Daily | T1 | Daily monitoring. Process control and repair when required. | - | - | | |
| Final Effluent | Final Effluent | None | С | | | | M4, Housing estate | 0 | 0 | 0 | N/A | Units are monitored by the SCADA system for failures | Daily | T1 | Daily sampling and corrective process control action | | - | | |
| Final Effluent | Final Effluent | Earthy | | Blanket spill from final tank | R | Days | M4, Housing estate | 1 | 1 | 1 | Low | - | | - | Process control and corrective action | L | TM | Y | Customer engagement and EA notification required due to release into sensitive receptor. |
| Sludge Imports | Sludge Reception, Screening, Wash down & Drainage | Sludge | С | - | - | - | M4, Housing estate, Wood Lane, ASDA | 4 | 2 | 8 | Medium | Odour/ colour SCADA | Daily | T1 | Remain covered at all times. Area is ventilated to OCU A | - | T1/Driver | - | |
| Sludge Imports | Sludge Reception, Screening, Wash down & Drainage | Sludge | | Spillages | R | Days | M4, Housing estate, Wood Lane, ASDA | 4 | 4 | 16 | High | Odour/ colour | Daily | T1 | Spillages are cleaned up by the driver/site staff promptly. | М | TM | Υ | Risk of customer complaints/ Abatement notice |

| Sludge Imports Skip | kip Management | Sludge | С | - | - | _ | M4, Housing estate, Wood | 2 | 1 | 2 | Low | Visual check | Daily | T1 | Skip management | _ | _ | - | |
|---|---|--|---|---|---|-------|---|---|---|----|--------|---|-------|----|--|---|----|---|--|
| Sludge Imports Skip | kip Management | Sludge | | Overfilled | R | Days | M4, Housing estate, Wood | 3 | 1 | 3 | Low | Visual check | Daily | T1 | Skip management. Waste removal at the earliest | L | TM | N | |
| Sludge Pr Conditioning Slud | Primary Raw udge Thickening & Pumping | Sludge | ı | - | - | - | M4, Housing estate, Wood Lane, ASDA | 3 | 3 | 9 | Medium | Odour/ colour SCADA | Daily | T1 | opportunity. The PFTs are kept covered at all times; the inspection covers are used for observation only. In the event of plant failure or sludge inversion, then the tanks must be emptied. Area is eventiated to OCU F. | М | T1 | | |
| Conditioning Slud | Primary Raw udge Thickening & Pumping | Sludge | - | Inversion, blockages, Plant failure | R | Days | M4, Housing estate, Wood Lane, ASDA | 4 | 4 | 16 | High | Odour/ colour | Daily | T1 | Process control, repair, tanks emptied | М | TM | N | |
| | AS Thickening & Pumping | Sludge | С | - | • | 4 | M4, Housing estate, Wood Lane, ASDA | 2 | 1 | 2 | Low | OCU monitored by SCADA, Visual checks | Daily | T1 | Connected to OCU F | 1 | - | - | |
| Sludge Conditioning (Indigenous) | AS Thickening & Pumping | Sludge | - | Plant failure, blockages | R | Days | M4, Housing estate, Wood Lane, ASDA | 2 | 1 | 2 | Low | OCU monitored by SCADA, Visual checks | Daily | T1 | Process control, monitor and repair at earliest opportunity | L | TM | N | |
| (Indigenous) | udge Blending & Mixing | Sludge | С | - | - | 1 | M4, Housing estate, Wood Lane, ASDA | 3 | 1 | 3 | Low | OCU monitored by SCADA, Visual checks | Daily | T1 | Area is ventilated to an OCU A. Follow events procedure when cleaning. | 1 | T1 | - | |
| | udge Blending & Mixing | Sludge | • | Planned maintainance. | Р | Days | M4, Housing estate, Wood Lane, ASDA | 3 | 2 | 6 | Medium | Odour/ colour | Daily | T1 | Complete work ASAP | М | TM | N | Customer engagement is dependent on severity of repair |
| Sludge Conditioning (Indigenous) | udge Blending & Mixing | Sludge | - | OCU failure. (During Sludge event, plant failure, blockages, Digester inhibition) | R | Days | M4, Housing estate, Wood Lane, ASDA | 4 | 4 | 16 | High | Odour/ colour | Daily | Т1 | Tanker cleaning. Stop imports. Event proceedure. | н | тм | Y | Risk of customer complaints/ Abatement notice |
| (Indigenous) | Return Liquors | Sludge | С | - | - | - | M4, Housing estate, Wood Lane, ASDA | 1 | 1 | 1 | Low | Scada, process control, visual checks | Daily | T1 | Underground pipework, covered. | 1 | - | - | |
| Sludge Conditioning Re (Indigenous) | Return Liquors | Sludge | | Plant failure, blockages | R | Hours | M4, Housing estate, Wood Lane, ASDA | 1 | 1 | 1 | Low | - | | - | Process control, repair at earliest opportunity. | L | TM | N | |
| Sludge Treatment Mixin | igester Feeding, xing & Discharge | Sludge | С | - | | | M4, Housing estate, Wood Lane, ASDA | 1 | 1 | 1 | Low | Odour/ colour | Daily | T1 | Ensure spills are cleaned up ASAP and events procedure followed in any sludge event, plant failure. Covered. | - | T1 | - | |
| Sludge Treatment Dige Mixin | igester Feeding, xing & Discharge | Sludge | | Spillage/ foaming around skirt. Whessoes blowing. | R | Days | M4, Housing estate, Wood Lane, ASDA | 3 | 3 | 9 | Medium | Odour/ colour | Daily | T1 | Spillages are cleaned up ASAP. Tanker cleaning. Stop imports. Event procedure. | М | TM | Y | Risk of customer complaints/ Abatement notice dependent on severity of issue |
| Sludge Treatment Dige: | Secondary gestion, Mixing & Discharge | Digested sludge | С | - | - | | M4, Housing estate, Wood Lane, ASDA | 2 | 1 | 2 | Low | Visual check | Daily | T1 | Constant monitoring as part of site operation procedure. Uncovered secondary digesters are located far from sensitive receptors on the southeast of the site. | 4 | 4 | - | |
| Sludge Treatment Dige: | Secondary gestion, Mixing & Discharge | Digested sludge | | Sludge event, plant failure, blockages, failure of dewatering plant, failure of pumping equipment | R | Days | M4, Housing estate, Wood Lane, ASDA | 2 | 2 | 4 | Low | - | | 1 | Process control, repair | L | ТМ | N | Risk of customer complaints/ Abatement notice dependent on severity of issue |
| Sludge Dewatering | Centrifuge | Earthy | С | - | - | - | M4, Housing estate | 2 | 1 | 2 | Low | Odour/ colour | Daily | T1 | Constant monitoring as part of site operation procedure | - | T1 | - | |
| Sludge Dewatering | Centrifuge | Earthy | - | Plant failure | R | Weeks | M4, Housing estate | 2 | 2 | 4 | Low | - | | | Stop imports, Process recovery. Liquid export, hire temporary equipment. | М | ТМ | N | Risk of customer complaints/ Abatement notice dependent on severity of issue |
| Sludge Storage & High I Movements | gh Level Pumping Station | Earthy | С | | | | M4, Housing estate, Wood Lane | 2 | 1 | 2 | Low | Odour - daily checks. SCADA. | Daily | T1 | Covers are not removed for longer than is needed if necessary to remove covers to perform certain tasks. Area is ventilated to a OCU C. | | T1 | | |
| | Digested Sludge Holding Tanks | Earthy | С | | | | M4, Housing estate | 2 | 1 | 2 | Low | Odour/ colour SCADA | Daily | T1 | Area is ventilated to an OCU E. | | | | |
| | Cake Pad & Drainage | Earthy | С | - | - | - | M4, Housing estate | 1 | 3 | 3 | Low | Odour/ colour | Daily | T1 | Cake removal is carried out. Vehicles covered. | - | T1 | - | |
| | Cake Pad & Drainage | Earthy | - | Poor DS, adverse weather. | R | Weeks | M4, Housing estate | 1 | 3 | 3 | Low | Odour/ colour | Daily | T1 | Stop imports. Process control. Should any odorous digested sludge cake be produced, this will be subject to process checks undertaken to identify root cause of production and removed from site expediently. | L | ТМ | N | |
| | hicle Movements & Wash Down | None | С | - | - | - | M4, Housing estate | 0 | 0 | 0 | N/A | Daily checks | Daily | T1 | Daily checks by site staff | - | - | - | |
| Biogas Systems Bio | Biogas Storage | Residual sulphur compounds (Methane itself is odourless) | R | - | - | - | M4, Housing estate | 2 | 1 | 2 | Low | Odour | Daily | T1 | Follow process control and ensure swift repair in any failure, such as whesso venting due to blockage. | - | T1 | - | |
| Biogas Systems Bio | Biogas Storage | Residual sulphur compounds (Methane itself is odourless) | - | Whessoe venting due to blockage, Plant failure | R | Days | M4, Housing estate | 2 | 2 | 4 | Low | Odour | Daily | T1 | Process control, repair | L | TM | Υ | Follow procedures as per pollution event |

| Biogas Systems | CHP | Residual sulphur compounds (Methane itself is odourless) | R | - | - | - | M4, Housing estate | 2 | 1 | 2 | Low | Odour | Daily | T1 | Follow process control and ensure swift repair in any failure. Burner design to ensure low NOx and VOC emissions, with odours removed by passage through the biogas system, with biogas contained in line. | - | T1 | - | |
|---------------------------|----------------------------------|--|---|--|---|-------|---|---|---|----|--------|---|---------|----|--|---|-----------------|---|--|
| Biogas Systems | CHP | Residual sulphur compounds (Methane itself is odourless) | - | Plant failure | R | Days | M4, Housing estate | 2 | 2 | 4 | Low | Odour | Daily | T1 | Process control, repair. Use waste gas burner. | L | ТМ | N | |
| Biogas Systems | Boilers | Residual sulphur compounds (Methane itself is odourless) | R | - | - | - | M4, Housing estate | 2 | 1 | 2 | Low | Odour | Daily | T1 | Follow process control and ensure swift repair in any failure. Burner design to ensure low NOx and VOC emissions, with odours removed by passage through the biogas system, with biogas contained in line. | - | T1 | - | |
| Biogas Systems | Boilers | Residual sulphur compounds (Methane itself is odourless) | - | Plant failure | R | Days | M4, Housing estate | 2 | 2 | 4 | Low | Odour | Daily | T1 | Process control, repair | L | ТМ | N | |
| Biogas Systems | Waste Gas Burner | Residual sulphur compounds (Methane itself is odourless) | I | - | | 4 | M4, Housing estate | 2 | 1 | 2 | Low | Odour | Daily | Т1 | Follow process control and ensure swift repair in any failure. Burner design to ensure low NOx and VOC emissions, with odours removed by passage through the biogas system, with biogas contained in line. | • | - | 1 | |
| Biogas Systems | Waste Gas Burner | Residual sulphur compounds (Methane itself is odourless) | - | Failure of CHP and Waste Gas Burner | R | Hours | - | 3 | 2 | 6 | Medium | - | | | Repair at the earliest opportunity. | М | ТМ | N | Not notifiable depending on storage in gas |
| Power Generation | Standby Generators | None | R | | | | | 0 | 0 | 0 | N/A | N/A | | | N/A | | | | Not opperational under normal operation |
| Power Generation | Standby Generators | None | - | Operating | R | Hours | | 0 | 0 | 0 | N/A | | | | N/A | L | тм | N | |
| Odour Control Packages | OCUs A, C, E, F | Residual odours and Earthly odours | С | , | - | - | M4, Housing estate | 1 | 1 | 1 | Low | Units are monitored by the SCADA system for failures | Daily | T1 | All routine site checks as per SOM. Odour control units are subject to regular preventative maintenance, checked on a monthly basis monthly by specialist Framework contractors who Monitor performance, through et and HZS measumements and report to Tr. Media is replaced in line with the TW asset standards and recommendation from monitoring contractor to asset standards. | - | T1 & Contractor | - | |
| Odour Control Packages | Odour Control Units (various) | Various | - | Plant failure | R | Weeks | M4, Housing estate, Wood Lane, ASDA | 2 | 2 | 4 | Low | Odour/ Gas monitor | Monthly | Т1 | Repair equipment at earliest opportunity. ERG carry out regular monthly inspections. OSIL make recommendations on remedial actions to take. | М | ТМ | N | Communication is dependent on the severity of the failure. |
| Odour Control Packages | Odour Control Units (various) | Various | - | Power failure | R | Days | M4, Housing estate, Wood Lane, ASDA | 2 | 2 | 4 | Low | Visual check | Weekly | Т1 | Repair equipment at earliest opportunity. ERG carry out regular monthly inspections. OSIL make recommendations on remedial actions to take. | М | ТМ | N | Communication is dependent on the severity of the failure. |
| Odour Control Packages | Odour Control Units (various) | Various | - | Washwater failure | R | Days | M4, Housing estate, Wood Lane, ASDA | 2 | 2 | 2 | Low | SCADA | Daily | T1 | Repair equipment at earliest opportunity. ERG carry out regular monthly inspections. OSIL make recommendations on remedial actions to take. | М | ТМ | N | Communication is dependent on the severity of the failure. |
| Odour Control Packages | Odour Control Units (various) | Various | - | Ductwork or cover failure | R | Weeks | M4, Housing estate, Wood Lane, ASDA | 2 | 2 | 16 | High | Visual check | Weekly | T1 | Repair equipment at earliest opportunity. ERG carry out regular monthly inspections. OSIL make recommendations on remedial actions to take. | М | ТМ | N | Communication is dependent on the severity of the failure. |

SITE NAME: Slough STW ODOUR RISK ASSESSMENT DATE: 13/08/2022

| DATE: | 13/06/2022 | | | | | | | | | | | | | | | | | | |
|--|--|-------------------|---|--|--------------------------------|---------------------------------|---|--------------------------|-------------------------------|----------------------------------|--------------|---------------|-----------|----------------|---|--|--|--------------------------------------|--|
| | | Normal | | Ab | normal | | | | | | | | | | | | | | |
| Process Stage | Process Unit | Odour Description | Constant/ Intermittent/ Occasional/ Rare | Event Description | of Event Frequent/ Rare/ | Length of Time of Release | Nearest Customer/ Receptor | Offensive- ness (0-5) | Likelihood of Impact (0-5) | Odour Risk (<5 Low, >15 High) | Odour Impact | Monitoring | Frequency | Responsibility | Mitigation Measures | Residual Odour Impact (L/IWH) | Responsibility for Mitigation Measures | Customer Communication Needed? | Notes |
| Storm Separation | Storm & Balancing Tanks | Sewage | | Poor drainage/ Residual sludge | F | Days | M4, Housing estate, Wood Lane, ASDA | 4 | 4 | 16 | High | Odour/ colour | Daily | T1 | Tank cleaning | н | Process control | Υ | |
| Preliminary Treatment | Screens & Screening Conditioning, Drainage & Rag Skip Management | Sewage | | Failure of compactor, resulting in wet screenings. | н | Days | M4, Housing estate | 3 | 4 | 12 | Medium | Odour/ colour | Daily | TI | Repair and act to ensure no build up; filled skips must be removed from site. Remove skips more often. | М | тм | z | Customer communication depends on severity of issue |
| Sludge Imports | Sludge Reception, Screening, Wash down & Drainage | Sludge | | Spillages | Я | Days | M4, Housing estate, Wood Lane, ASDA | 4 | 4 | 16 | High | Odour/ colour | Daily | T1 | Spillages are cleaned up by the driver/site staff promptly. | М | тм | * | Risk of customer complaints/ Abatement notice |
| Sludge Conditioning (Indigenous) | Primary Raw Sludge Thickening & Pumping | Sludge | | Inversion, blockages, Plant failure | R | Days | M4, Housing estate, Wood Lane, ASDA | 4 | 4 | 16 | High | Odour/ colour | Daily | TI | Process control, repair, tanks emptied | М | тм | N | |
| Sludge Conditioning (Indigenous) | Sludge Blending & Mixing | Sludge | | OCU failure. (During Sludge event, plant failure, blockages, Digester inhibition) | R | Days | M4, Housing estate, Wood Lane, ASDA | 4 | 4 | 16 | High | Odour/ colour | Daily | T1 | Tarker cleaning. Stop imports. Event proceedure. | я | TM | Y | Risk of customer complaints/ Abatement notice |
| Odour Control Packages | Odour Control Units (various) | Various | | Ductwork or cover failure | R | Weeks | M4, Housing estate, Wood Lane, ASDA | 2 | 2 | 16 | High | Visual check | Weekly | т | Repair equipment at earliest opportunity. ERG carry out regular monthly inspections. OSIL make recommendations on remedial actions to take. | М | TM | N | Communication is dependent on the severity of the failure. |