

LORIS H HASSALL TRADING PTY LTD
SAMPLE COLLECTION REGISTER - 2019



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| LICENSEE: | LORIS H HASSALL TRADING PTY LTD |
| PREMISES: | NEWELL HIGHWAY 812 PARKES ROAD |
| LICENSE NUMBER: | 12765 |
| REPORTING PERIOD: | 11 NOVEMBER 2018 - 12 NOVEMBER 2019 |

IRRIGATION EFFLUENT

| EPA LOCATION ID | TYPE OF MONITORING POINT | SAMPLING LOCATION DESCRIPTION | EPA SAMPLING FREQUENCY | LHH SAMPLE FREQUENCY | NUMBER OF SAMPLES | SAMPLE TYPE | SCHEDULED MONTH FOR COLLECTION | DATE COLLECTED | TIME COLLECTED | COLLECTED BY | SAMPLE WEIGHT/VOLUME TESTED | DATE OBTAINED FROM NATA LAB | NATA LAB REPORT REF NO. | PUBLISHED DATE |
|-----------------|---|---------------------------------|------------------------|----------------------|-------------------|-------------|--------------------------------|----------------|----------------|--------------|-----------------------------|-----------------------------|-------------------------|----------------|
| 1 | Irrigation wastewater quality and volume monitoring | Sampling tap on pipe after pump | Quarterly | Monthly | 1 | Grab Sample | December | NS | NS | NS | NS | NT | NT | NA |
| 1 | Irrigation wastewater quality and volume monitoring | Sampling tap on pipe after pump | Quarterly | Monthly | 1 | Grab Sample | January | 23-Jan-19 | 0730-0830 | M. Churchill | 2 Lts | 04-Feb-19 | 51212 | 16-Aug-19 |
| 1 | Irrigation wastewater quality and volume monitoring | Sampling tap on pipe after pump | Quarterly | Monthly | 1 | Grab Sample | February | 11-Feb-19 | 0730-1030 | M. Churchill | 2 Lts | 22-Feb-19 | 51491 | 04-Mar-19 |
| 1 | Irrigation wastewater quality and volume monitoring | Sampling tap on pipe after pump | Quarterly | Monthly | 1 | Grab Sample | March | 18-Mar-19 | 0730-1030 | M. Churchill | 2 Lts | 04-Apr-19 | 51932 | 16-Aug-19 |
| 1 | Irrigation wastewater quality and volume monitoring | Sampling tap on pipe after pump | Quarterly | Monthly | 1 | Grab Sample | April | 29-Apr-19 | 0700-0830 | M. Churchill | 2 Lts | 14-May-19 | 52516 | 27-May-19 |
| 1 | Irrigation wastewater quality and volume monitoring | Sampling tap on pipe after pump | Quarterly | Monthly | 1 | Grab Sample | May | 27-May-19 | 0720-0830 | M. Churchill | 2 Lts | 12-Jun-19 | 52857 | 16-Aug-19 |
| 1 | Irrigation wastewater quality and volume monitoring | Sampling tap on pipe after pump | Quarterly | Monthly | 1 | Grab Sample | June | 25-Jun-19 | 0730-0830 | M. Churchill | 2 Lts | 19-Jul-19 | 53294 | 16-Aug-19 |
| 1 | Irrigation wastewater quality and volume monitoring | Sampling tap on pipe after pump | Quarterly | Monthly | 1 | Grab Sample | July | 17-Jul-19 | 0700-0830 | M. Churchill | 2 Lts | 07-Aug-19 | 53599R | 16-Aug-19 |
| 1 | Irrigation wastewater quality and volume monitoring | Sampling tap on pipe after pump | Quarterly | Monthly | 1 | Grab Sample | August | 15-Aug-19 | 0830-1030 | M. Churchill | 2 Lts | 02-Sep-19 | 53948 #1 | 04-Sep-19 |
| 1 | Irrigation wastewater quality and volume monitoring | Sampling tap on pipe after pump | Quarterly | Monthly | 1 | Grab Sample | September | 17-Sep-19 | 0730-0930 | M. Churchill | 2 Lts | 01-Oct-19 | 54363 | 09-Oct-19 |
| 1 | Irrigation wastewater quality and volume monitoring | Sampling tap on pipe after pump | Quarterly | Monthly | 1 | Grab Sample | October | 08-Oct-19 | 0700-0830 | M. Churchill | 2 Lts | 23-Oct-19 | 54617 #1 | 24-Oct-19 |
| 1 | Irrigation wastewater quality and volume monitoring | Sampling tap on pipe after pump | Quarterly | Monthly | 1 | Grab Sample | November | 01-Nov-19 | 0730-0930 | M. Churchill | 2 Lts | 26-Nov-19 | 54966 #1 | 28-Nov-19 |

*Not Tested (NT) *No Sample (NS) *Not Applicable (NA)

IRRIGATION SLURRY SLUDGE

| EPA LOCATION ID | TYPE OF MONITORING POINT | SAMPLING LOCATION DESCRIPTION | EPA SAMPLING FREQUENCY | LHH SAMPLE FREQUENCY | NUMBER OF SAMPLES | SAMPLE TYPE | SCHEDULED MONTH FOR COLLECTION | DATE COLLECTED | TIME COLLECTED | COLLECTED BY | SAMPLE WEIGHT/VOLUME TESTED | DATE OBTAINED FROM NATA LAB | NATA LAB REPORT REF NO. | PUBLISHED DATE |
|-----------------|---------------------------|---|------------------------|----------------------|-------------------|-------------|--------------------------------|----------------|----------------|--------------|-----------------------------|-----------------------------|-------------------------|----------------|
| NA | Slurry quality monitoring | Sample collected from Irrigation Effluent pit | NA | Quarterly | 1 | Grab Sample | February | NS | NS | NS | NS | NT | NT | NA |
| NA | Slurry quality monitoring | Sample collected from Irrigation Effluent pit | NA | Quarterly | 1 | Grab Sample | May | NS | NS | NS | NS | NT | NT | NA |
| NA | Slurry quality monitoring | Sample collected from Irrigation Effluent pit | NA | Quarterly | 1 | Grab Sample | August | 15-Aug-19 | 1130 | M. Churchill | 4.5 Lts | 02-Sep-19 | 53948 #2 | 04-Sep-19 |
| NA | Slurry quality monitoring | Sample collected from Irrigation Effluent pit | NA | Quarterly | 1 | Grab Sample | November | 01-Nov-19 | 0830 | M. Churchill | 4.5 Lts | 26-Nov-19 | 54966 #2 | 28-Nov-19 |

*Not Tested (NT) *No Sample (NS) *Not Applicable (NA)

SOIL SAMPLES

| EPA LOCATION ID | TYPE OF MONITORING POINT | SAMPLING LOCATION DESCRIPTION | EPA SAMPLING FREQUENCY | LHH SAMPLE FREQUENCY | NUMBER OF SAMPLES | SAMPLE TYPE | SCHEDULED MONTH FOR COLLECTION | DATE COLLECTED | TIME COLLECTED | COLLECTED BY | SAMPLE WEIGHT/VOLUME TESTED | DATE OBTAINED FROM NATA LAB | NATA LAB REPORT REF NO. | PUBLISHED DATE |
|-----------------|--|-------------------------------|------------------------|----------------------|-------------------|------------------|--------------------------------|----------------|----------------|--------------|-----------------------------|-----------------------------|-------------------------|----------------|
| 4 | Soil quality monitoring of irrigation area | Irrigation Bay 1 | Annually | Annually | 4 | Composite Sample | September | 16-Sep-19 | 0630 | M. Churchill | 4 kg | 04-Oct-19 | 54362 #1-4 | 09-Oct-19 |
| 4 | Soil quality monitoring of irrigation area | Irrigation Bay 2 | Annually | Annually | 4 | Composite Sample | September | 16-Sep-19 | 0700 | M. Churchill | 4 kg | 04-Oct-19 | 54362 #5-8 | 09-Oct-19 |
| 4 | Soil quality monitoring of irrigation area | Irrigation Bay 3 | Annually | Annually | 4 | Composite Sample | September | 16-Sep-19 | 0730 | M. Churchill | 4 kg | 04-Oct-19 | 54362 #9-12 | 09-Oct-19 |
| 4 | Soil quality monitoring of irrigation area | Irrigation Bay 4 | Annually | Annually | 4 | Composite Sample | September | 16-Sep-19 | 0800 | M. Churchill | 4 kg | 04-Oct-19 | 54362 #13-16 | 09-Oct-19 |
| 4 | Soil quality monitoring of irrigation area | Irrigation Bay 5 | Annually | Annually | 4 | Composite Sample | September | 16-Sep-19 | 0830 | M. Churchill | 4 kg | 04-Oct-19 | 54362 #17-20 | 09-Oct-19 |
| 4 | Soil quality monitoring of irrigation area | Irrigation Bay 6 | Annually | Annually | 4 | Composite Sample | September | 16-Sep-19 | 0900 | M. Churchill | 4 kg | 04-Oct-19 | 54362 #21-24 | 09-Oct-19 |
| 4 | Soil quality monitoring of irrigation area | Irrigation Bay 7 | Annually | Annually | 4 | Composite Sample | September | 16-Sep-19 | 0930 | M. Churchill | 4 kg | 04-Oct-19 | 54362 #25-28 | 09-Oct-19 |

*Not Tested (NT) *No Sample (NS) *Not Applicable (NA)

PIEZOMETERS

| EPA LOCATION ID | TYPE OF MONITORING POINT | SAMPLING LOCATION DESCRIPTION | EPA SAMPLING FREQUENCY | LHM SAMPLE FREQUENCY | NUMBER OF SAMPLES | SAMPLE TYPE | SCHEDULED MONTH FOR COLLECTION | DATE COLLECTED | TIME COLLECTED | COLLECTED BY | SAMPLE WEIGHT/VOLUME TESTED | DATE OBTAINED FROM NATA LAB | NATA LAB REPORT REF NO. | PUBLISHED DATE |
|-----------------|--------------------------------|-------------------------------|------------------------|----------------------|-------------------|-------------|--------------------------------|----------------|----------------|--------------|-----------------------------|-----------------------------|-------------------------|----------------|
| 3 | Groundwater quality monitoring | Piezometer 1 | Quarterly | Quarterly | 1 | Grab Sample | February | 01-Feb-19 | 0830 | M. Churchill | NS | NT | NT | 16-Aug-19 |
| 3 | Groundwater quality monitoring | Piezometer 2 | Quarterly | Quarterly | 1 | Grab Sample | February | 01-Feb-19 | 0840 | M. Churchill | NS | NT | NT | 16-Aug-19 |
| 3 | Groundwater quality monitoring | Piezometer 3 | Quarterly | Quarterly | 1 | Grab Sample | February | 01-Feb-19 | 0855 | M. Churchill | NS | NT | NT | 16-Aug-19 |
| 3 | Groundwater quality monitoring | Piezometer 4 | Quarterly | Quarterly | 1 | Grab Sample | February | 01-Feb-19 | 0910 | M. Churchill | NS | NT | NT | 16-Aug-19 |
| 3 | Groundwater quality monitoring | Piezometer 5 | Quarterly | Quarterly | 1 | Grab Sample | February | 01-Feb-19 | 0925 | M. Churchill | NS | NT | NT | 16-Aug-19 |
| 3 | Groundwater quality monitoring | Piezometer 6 | Quarterly | Quarterly | 1 | Grab Sample | February | 01-Feb-19 | 0940 | M. Churchill | NS | NT | NT | 16-Aug-19 |
| 3 | Groundwater quality monitoring | Piezometer 1 | Quarterly | Quarterly | 1 | Grab Sample | May | 08-May-19 | 0905 | M. Churchill | NS | NT | NT | 16-Aug-19 |
| 3 | Groundwater quality monitoring | Piezometer 2 | Quarterly | Quarterly | 1 | Grab Sample | May | 08-May-19 | 0915 | M. Churchill | NS | NT | NT | 16-Aug-19 |
| 3 | Groundwater quality monitoring | Piezometer 3 | Quarterly | Quarterly | 1 | Grab Sample | May | 08-May-19 | 0930 | M. Churchill | NS | NT | NT | 16-Aug-19 |
| 3 | Groundwater quality monitoring | Piezometer 4 | Quarterly | Quarterly | 1 | Grab Sample | May | 08-May-19 | 0945 | M. Churchill | NS | NT | NT | 16-Aug-19 |
| 3 | Groundwater quality monitoring | Piezometer 5 | Quarterly | Quarterly | 1 | Grab Sample | May | 08-May-19 | 1000 | M. Churchill | NS | NT | NT | 16-Aug-19 |
| 3 | Groundwater quality monitoring | Piezometer 6 | Quarterly | Quarterly | 1 | Grab Sample | May | 08-May-19 | 1010 | M. Churchill | NS | NT | NT | 16-Aug-19 |
| 3 | Groundwater quality monitoring | Piezometer 1 | Quarterly | Quarterly | 1 | Grab Sample | August | 14-Aug-19 | 0135 | M. Churchill | NS | NT | NT | 04-Sep-19 |
| 3 | Groundwater quality monitoring | Piezometer 2 | Quarterly | Quarterly | 1 | Grab Sample | August | 14-Aug-19 | 0145 | M. Churchill | NS | NT | NT | 04-Sep-19 |
| 3 | Groundwater quality monitoring | Piezometer 3 | Quarterly | Quarterly | 1 | Grab Sample | August | 14-Aug-19 | 0200 | M. Churchill | NS | NT | NT | 04-Sep-19 |
| 3 | Groundwater quality monitoring | Piezometer 4 | Quarterly | Quarterly | 1 | Grab Sample | August | 14-Aug-19 | 0215 | M. Churchill | NS | NT | NT | 04-Sep-19 |
| 3 | Groundwater quality monitoring | Piezometer 5 | Quarterly | Quarterly | 1 | Grab Sample | August | 14-Aug-19 | 0230 | M. Churchill | NS | NT | NT | 04-Sep-19 |
| 3 | Groundwater quality monitoring | Piezometer 6 | Quarterly | Quarterly | 1 | Grab Sample | August | 14-Aug-19 | 0245 | M. Churchill | NS | NT | NT | 04-Sep-19 |
| 3 | Groundwater quality monitoring | Piezometer 1 | Quarterly | Quarterly | 1 | Grab Sample | November | 04-Nov-19 | 1000 | M. Churchill | 2 Lts | NT | NT | 28-Nov-19 |
| 3 | Groundwater quality monitoring | Piezometer 2 | Quarterly | Quarterly | 1 | Grab Sample | November | 04-Nov-19 | 1010 | M. Churchill | 2 Lts | NT | NT | 28-Nov-19 |
| 3 | Groundwater quality monitoring | Piezometer 3 | Quarterly | Quarterly | 1 | Grab Sample | November | 04-Nov-19 | 1015 | M. Churchill | 2 Lts | NT | NT | 28-Nov-19 |
| 3 | Groundwater quality monitoring | Piezometer 4 | Quarterly | Quarterly | 1 | Grab Sample | November | 04-Nov-19 | 1020 | M. Churchill | 2 Lts | NT | NT | 28-Nov-19 |
| 3 | Groundwater quality monitoring | Piezometer 5 | Quarterly | Quarterly | 1 | Grab Sample | November | 04-Nov-19 | 1040 | M. Churchill | 2 Lts | NT | NT | 28-Nov-19 |
| 3 | Groundwater quality monitoring | Piezometer 6 | Quarterly | Quarterly | 1 | Grab Sample | November | 04-Nov-19 | 1050 | M. Churchill | 2 Lts | NT | NT | 28-Nov-19 |

*Not Tested (NT) *No Sample (NS) *Not Applicable (NA)

TREATED BRINE EFFLUENT

| EPA LOCATION ID | TYPE OF MONITORING POINT | SAMPLING LOCATION DESCRIPTION | EPA SAMPLING FREQUENCY | LHM SAMPLE FREQUENCY | NUMBER OF SAMPLES | SAMPLE TYPE | SCHEDULED MONTH FOR COLLECTION | DATE COLLECTED | TIME COLLECTED | COLLECTED BY | SAMPLE WEIGHT/VOLUME TESTED | DATE OBTAINED FROM NATA LAB | NATA LAB REPORT REF NO. | PUBLISHED DATE |
|-----------------|--|---|------------------------|----------------------|-------------------|-------------|--------------------------------|----------------|----------------|--------------|-----------------------------|-----------------------------|-------------------------|----------------|
| NA | Treated Brine effluent quality and volume monitoring | Sampling tap on pipe after pump to evaporation pans | NA | Monthly | 1 | Grab Sample | December | NS | NS | NS | NS | NT | NT | NA |
| NA | Treated Brine effluent quality and volume monitoring | Sampling tap on pipe after pump to evaporation pans | NA | Monthly | 1 | Grab Sample | January | 23-Jan-19 | 0930 | M. Churchill | 2 Lts | 04-Feb-19 | 51212 | 16-Aug-19 |
| NA | Treated Brine effluent quality and volume monitoring | Sampling tap on pipe after pump to evaporation pans | NA | Monthly | 1 | Grab Sample | February | 11-Feb-19 | 0800 | M. Churchill | 2 Lts | 22-Feb-19 | 51945 | 16-Aug-19 |
| NA | Treated Brine effluent quality and volume monitoring | Sampling tap on pipe after pump to evaporation pans | NA | Monthly | 1 | Grab Sample | March | 18-Mar-19 | 0800 | M. Churchill | 2 Lts | 04-Apr-19 | 51931 | 16-Aug-19 |
| NA | Treated Brine effluent quality and volume monitoring | Sampling tap on pipe after pump to evaporation pans | NA | Monthly | 1 | Grab Sample | April | 29-Apr-19 | 0820 | M. Churchill | 2 Lts | 14-May-19 | 52515 | 16-Aug-19 |
| NA | Treated Brine effluent quality and volume monitoring | Sampling tap on pipe after pump to evaporation pans | NA | Monthly | 1 | Grab Sample | May | 27-May-19 | 0700 | M. Churchill | 2 Lts | 12-Jun-19 | 52857 | 16-Aug-19 |
| NA | Treated Brine effluent quality and volume monitoring | Sampling tap on pipe after pump to evaporation pans | NA | Monthly | 1 | Grab Sample | June | 25-Jun-19 | 1000 | M. Churchill | 2 Lts | 12-Jul-19 | 53294 | 16-Aug-19 |
| NA | Treated Brine effluent quality and volume monitoring | Sampling tap on pipe after pump to evaporation pans | NA | Monthly | 1 | Grab Sample | July | 17-Jul-19 | 0730 | M. Churchill | 2 Lts | 01-Aug-19 | 53599 | 16-Aug-19 |
| NA | Treated Brine effluent quality and volume monitoring | Sampling tap on pipe after pump to evaporation pans | NA | Monthly | 1 | Grab Sample | August | 12-Aug-19 | 1135 | M. Churchill | 2 Lts | 02-Sep-19 | 53948 #8 | 04-Sep-19 |
| NA | Treated Brine effluent quality and volume monitoring | Sampling tap on pipe after pump to evaporation pans | NA | Monthly | 1 | Grab Sample | September | 17-Sep-19 | 0700 | M. Churchill | 2 Lts | 30-Sep-19 | 54364 | 09-Oct-19 |
| NA | Treated Brine effluent quality and volume monitoring | Sampling tap on pipe after pump to evaporation pans | NA | Monthly | 1 | Grab Sample | October | 08-Oct-19 | 0730 | M. Churchill | 2 Lts | 23-Oct-19 | 54617 #2 | 24-Oct-19 |
| NA | Treated Brine effluent quality and volume monitoring | Sampling tap on pipe after pump to evaporation pans | NA | Monthly | 1 | Grab Sample | November | 01-Nov-19 | 0900 | M. Churchill | 2 Lts | 26-Nov-19 | 54966 #7 | 28-Nov-19 |

*Not Tested (NT) *No Sample (NS) *Not Applicable (NA)

EVAPORATION PANS

| EPA LOCATION ID | TYPE OF MONITORING POINT | SAMPLING LOCATION DESCRIPTION | EPA SAMPLING FREQUENCY | LHM SAMPLE FREQUENCY | NUMBER OF SAMPLES | SAMPLE TYPE | SCHEDULED MONTH FOR COLLECTION | DATE COLLECTED | TIME COLLECTED | COLLECTED BY | SAMPLE WEIGHT/VOLUME TESTED | DATE OBTAINED FROM NATA LAB | NATA LAB REPORT REF NO. | PUBLISHED DATE |
|-----------------|---|--------------------------------|------------------------|----------------------|-------------------|-------------|--------------------------------|----------------|----------------|--------------|-----------------------------|-----------------------------|-------------------------|----------------|
| 2 | Treated Brine effluent quality monitoring | End of pipe entering New Dam 1 | Quarterly | Quarterly | 1 | Grab Sample | February | 11-Feb-19 | 0905 | M. Churchill | 2 Lts | 22-Feb-19 | 51492 | 04-Mar-19 |
| 5 | Treated Brine effluent quality monitoring | End of pipe entering New Dam 2 | Quarterly | Quarterly | 1 | Grab Sample | February | 11-Feb-19 | 0900 | M. Churchill | 2 Lts | 22-Feb-19 | 51493 | 04-Mar-19 |
| 6 | Treated Brine effluent quality monitoring | End of pipe entering New Dam 3 | Quarterly | Quarterly | 1 | Grab Sample | February | 11-Feb-19 | 0910 | M. Churchill | 2 Lts | 22-Feb-19 | 51494 | 04-Mar-19 |
| 2 | Treated Brine effluent quality monitoring | End of pipe entering New Dam 1 | Quarterly | Quarterly | 1 | Grab Sample | May | 29-Apr-19 | 0805 | M. Churchill | 2 Lts | 14-May-19 | 52515-1 | 27-May-19 |
| 5 | Treated Brine effluent quality monitoring | End of pipe entering New Dam 2 | Quarterly | Quarterly | 1 | Grab Sample | May | 29-Apr-19 | 0810 | M. Churchill | 2 Lts | 14-May-19 | 52515-2 | 27-May-19 |
| 6 | Treated Brine effluent quality monitoring | End of pipe entering New Dam 3 | Quarterly | Quarterly | 1 | Grab Sample | May | 29-Apr-19 | 0815 | M. Churchill | 2 Lts | 14-May-19 | 52515-3 | 27-May-19 |
| 2 | Treated Brine effluent quality monitoring | End of pipe entering New Dam 1 | Quarterly | Quarterly | 1 | Grab Sample | August | 14-Aug-19 | 1110 | M. Churchill | 2 Lts | 02-Sep-19 | 53948 #9 | 04-Sep-19 |
| 5 | Treated Brine effluent quality monitoring | End of pipe entering New Dam 2 | Quarterly | Quarterly | 1 | Grab Sample | August | 14-Aug-19 | 1130 | M. Churchill | 2 Lts | 02-Sep-19 | 53948 #10 | 04-Sep-19 |
| 6 | Treated Brine effluent quality monitoring | End of pipe entering New Dam 3 | Quarterly | Quarterly | 1 | Grab Sample | August | 14-Aug-19 | 1150 | M. Churchill | 2 Lts | 02-Sep-19 | 53948 #11 | 04-Sep-19 |
| 2 | Treated Brine effluent quality monitoring | End of pipe entering New Dam 1 | Quarterly | Quarterly | 1 | Grab Sample | November | 02-Nov-19 | 0900 | M. Churchill | 2 Lts | 26-Nov-19 | 54966 #8 | 28-Nov-19 |
| 5 | Treated Brine effluent quality monitoring | End of pipe entering New Dam 2 | Quarterly | Quarterly | 1 | Grab Sample | November | 02-Nov-19 | 0910 | M. Churchill | 2 Lts | 26-Nov-19 | 54966 #9 | 28-Nov-19 |
| 6 | Treated Brine effluent quality monitoring | End of pipe entering New Dam 3 | Quarterly | Quarterly | 1 | Grab Sample | November | 02-Nov-19 | 0915 | M. Churchill | 2 Lts | 26-Nov-19 | 54966 #10 | 28-Nov-19 |

*Not Tested (NT) *No Sample (NS) *Not Applicable (NA)