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Teys is a Trade Mark of Teys Australia – A Cargill Joint Venture

Teys Australia Southern Property Pty Ltd (Teys Australia Wagga Wagga)

Environmental Monitoring Data Summary

Environmental Protection Licence number 2262

Executive Summary

Teys Australia Wagga is the holder of Environmental Protection Licence (EPL) 2262. This Licence is administered by the *NSW Environmental Protection Authority (EPA)*, and includes conditions relevant to the site's operation, including environmental monitoring, as is outlined in this report. All environmental monitoring results required under EPL 2262 are submitted to the *EPA* each year in a formal annual return, and interpreted, and submitted to the *NSW Department of Planning and Infrastructure* in an Annual Environmental Management Review (AEMR).

All monitoring specified under EPL 2262 was completed in the 2022/2023 annual reporting period, which covered the period between 6 December 2022 and 5 December 2023.

Nil instances of non – compliance with any of the conditions in EPL 2262 occurred during the reporting period.

Further information is available by contacting the Teys Group Environmental Manager on +61 457 160 953

A full copy of EPL 2262 can be obtained on the EPA website from the following URL using the search function for licence number “2262”:

<https://apps.epa.nsw.gov.au/prpoeoapp/>



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| Analyte | Unit of Measure | Monitoring frequency required by License | Date of Sampling | Date Data Obtained | Sample Result |
|----------------------------------|-----------------|--|------------------|--------------------|---------------|
| Biochemical Oxygen Demand | (mg/L) | Monthly | 05/01/2023 | 13/02/2023 | 11 |
| | | | 01/02/2023 | 27/02/2023 | 11 |
| | | | 01/03/2023 | 28/03/2023 | 6 |
| | | | 05/04/2023 | 04/05/2023 | 4 |
| | | | 03/05/2023 | 02/06/2023 | 6 |
| | | | 07/06/2023 | 27/06/2023 | 11 |
| | | | 05/07/2023 | 09/08/2023 | 12 |
| | | | 02/08/2023 | 08/09/2023 | 29 |
| | | | 06/09/2023 | 19/10/2023 | 6 |
| | | | 04/10/2023 | 14/11/2023 | 15 |
| | | | 05/10/2023 | 08/11/2023 | 5 |
| | | | 01/11/2023 | 27/11/2023 | 12 |
| 06/12/2023 | 21/12/2023 | 32 | | | |

EPA Monitoring Point 4: Summary of results for soil monitoring on CFA High irrigation paddock (EPA Monitoring Point 4)

| Analyte | Units of measure | Monitoring frequency required by licence | No of times measured during year | Date of Sampling | Date data obtained | Date Published | Mean Value |
|--------------------------------|------------------|--|----------------------------------|------------------|--------------------|----------------|------------|
| Conductivity | (dS/m) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 0.17 |
| Exchangeable Calcium | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 135.5 |
| Exchangeable Magnesium | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 39.43 |
| Exchangeable Potassium | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 11.6 |
| Exchangeable Sodium | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 33.75 |
| Exchangeable Sodium Percentage | Percent | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 23.2 |
| Extractable Phosphorus | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 115.4 |
| Nitrate | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 1.3 |
| Nitrogen (total) | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 314.8 |
| pH | pH | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 8.6 |
| Phosphorus (total) | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 187.3 |
| Phosphorus Sorption Capacity | (L/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 90.6 |
| Total Organic Carbon | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 2263 |

The monitoring data in the table above has been taken from monitoring point 4 in EPL 2262. The monitoring point has been established to monitor the soil on which treated wastewater is applied. The monitoring point is located within in the 'CFA High' irrigation area.

EPA Monitoring Point 6: Summary of results for soil monitoring on CFA Low irrigation paddock (EPA Monitoring point 6).

| Analyte | Units of measure | Monitoring frequency required by licence | No of times measured during year | Date of Sampling | Date data obtained | Date Published | Mean Value |
|--------------------------------|------------------|--|----------------------------------|------------------|--------------------|----------------|------------|
| Conductivity | (dS/m) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 0.36 |
| Exchangeable Calcium | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 260.56 |
| Exchangeable Magnesium | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 180.74 |
| Exchangeable Potassium | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 12.05 |
| Exchangeable Sodium | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 186.77 |
| Exchangeable Sodium Percentage | Percent | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 79.92 |
| Extractable Phosphorus | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 158.7 |
| Nitrate | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 20.7 |
| Nitrogen (total) | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 902.1 |
| pH | pH | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 8.37 |
| Phosphorus (total) | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 358.8 |
| Phosphorus Sorption Capacity | (L/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 215.2 |
| Total Organic Carbon | (mg/kg) | Annual | 1 | 18/12/2023 | 25/01/2024 | 01/02/2024 | 8502 |

The monitoring data in the table above has been taken from monitoring point 6 in EPL 2262. The monitoring point has been established to monitor the soil on which treated wastewater is applied. The monitoring point is located within in the 'CFA Low' irrigation area.

EPA Monitoring Point 7 (Effluent discharge to 59 Hillary St, Wagga Wagga)

No data available as no discharge to this area.

EPA Monitoring Point 9: Summary of results for groundwater monitoring on piezometer 1 - CFA High irrigation area

| Analyte | Unit of measure | Monitoring frequency required by Licence | No. of times measured during year | Date of Sampling | Date data obtained | Date Published | Value |
|----------------------|-----------------|--|-----------------------------------|------------------|--------------------|----------------|-------|
| Conductivity | (uS/cm) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 1520 |
| Nitrate | (mg/L) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 13 |
| pH | (pH units) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 6.3 |
| Standing Water Level | (m) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 8.4 |

EPA Monitoring Point 10: Summary of results for groundwater monitoring on piezometer 5 - CFA High irrigation area

| Analyte | Unit of measure | Monitoring frequency required by Licence | No. of times measured during year | Date of Sampling | Date data obtained | Date Published | Value |
|----------------------|-----------------|--|-----------------------------------|------------------|--------------------|----------------|-------|
| Conductivity | (uS/cm) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 666 |
| Nitrate | (mg/L) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 3 |
| pH | (pH units) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 6.6 |
| Standing Water Level | (m) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 5.2 |

The monitoring data in the table above has been taken from monitoring point 9 and 10 as stated in the EPL 2262. The monitoring point has been established to monitor the groundwater in areas on which treated wastewater is applied. The monitoring points are located within in the 'CFA High' irrigation area.

EPA Monitoring Point 11: Summary of results for groundwater monitoring on piezometer 7 - CFA Low irrigation area

| Analyte | Unit of measure | Monitoring frequency required by Licence | No. of times measured during year | Date of Sampling | Date data obtained | Date Published | Value |
|----------------------|-----------------|--|-----------------------------------|------------------|--------------------|----------------|-------|
| Conductivity | (uS/cm) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 2720 |
| Nitrate | (mg/L) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | <1 |
| pH | (pH units) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 7.1 |
| Standing Water Level | (m) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 5.4 |

The monitoring data in the table above has been taken from monitoring point 11 as stated in the EPL 2262. The monitoring point has been established to monitor the groundwater in areas on which treated wastewater is applied.

EPA Monitoring Point 12: Summary of results for groundwater monitoring on piezometer 8 - CFA Low irrigation area

| Analyte | Unit of measure | Monitoring frequency required by Licence | No. of times measured during year | Date of Sampling | Date data obtained | Date Published | Value |
|----------------------|-----------------|--|-----------------------------------|------------------|--------------------|----------------|-------|
| Conductivity | (uS/cm) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 2530 |
| Nitrate | (mg/L) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | <1 |
| pH | (pH units) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 7 |
| Standing Water Level | (m) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 5.2 |

EPA Monitoring Point 14: Summary of results for groundwater monitoring on piezometer 9 - CFA Low irrigation area

| Analyte | Unit of measure | Monitoring frequency required by Licence | No. of times measured during year | Date of Sampling | Date data obtained | Date Published | Value |
|----------------------|-----------------|--|-----------------------------------|------------------|--------------------|----------------|-------|
| Conductivity | (uS/cm) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 2870 |
| Nitrate | (mg/L) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | <1 |
| pH | (pH units) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 7 |
| Standing Water Level | (m) | Annual | 1 | 19/12/2023 | 23/01/2024 | 01/02/2024 | 5 |

Units of measure – Abbreviations outlined in full

mg/L = Concentration in milligrams per litre, which is equivalent unit of measure to parts per million (ppm)

dS/m = Decisiemens per metre, a measure of electrical conductivity, which gives an indication of the concentration of dissolved ions

uS/cm = Microsiemens per centimetre, a measure of electrical conductivity, which gives an indication of the concentration of dissolved ions

mg/kg = Milligrams per kilogram, a measure of concentration of different parameters within a soil sample

L/kg = Litres per kilogram, a measure of the amount of mineral retained by the soil

Correction Log

This section is included to correct any incorrect data which may have been published in good faith.

Teys Australia Southern Property Pty Ltd T/A Teys Australia Wagga Wagga

EPL number 2262

Pollutant:

Table 4: Correction log

| Sample date and time | Original data | Corrected data | Date corrected | Date originally published | Reason |
|----------------------|---------------|----------------|----------------|---------------------------|--------|
| | | | | | |

Note: No corrections required to date.