Project Name: The Northern Road Upgrade, Glenmore Parkway to Jamison Road

Environment Protection Licence No: 20910

Premise Address: Glenmore Parkway Glenmore Park to Jamison Road Penrith South, NSW 2750 Link to Public Register on EPA website:

http://www.epa.nsw.gov.au/prpoeoapp/

14-Apr-17

Mar-17

Monitoring Data for the Month: Reviewed by Project Environmental Manager: Yes

Monitoring Type:

Date Published:

Water Discharge Monitoring

	Discharge / Monitoring Point	Date Sampled	Date Data Obtained	Turb (N1	idity (TU)	Total Suspe	nded Solids g/L)	р	Н	Oil & C	Grease	Monitoring Frequency	Comment
		•		Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Monitoring Producticy	
					ND	50	ND	6.5-8.5	ND	None Visible	ND	Event Based	Scheduled activity not commenced

#### Abbreviations:

mg/L = Milligrams per litre Not Applicable NV = DNS = Did Not Sample None Visible NTU = Nephelometric Turbidity Unit No Discharge Visible pH = potential of Hydrogen

Project Name: The Northern Road Upgrade (Stage 3)

Environment Protection Licence No: 20910

Link to Public Register on EPA website:

Premise Address: The Northern Road Upgrade, Glenmore Parkway to Jamison Road

http://www.epa.nsw.gov.au/prpoeoapp/

14-May-17

Date Published: Monitoring Data for the Month: Apr-17 Reviewed by Project Environmental Manager: Yes

Monitoring Type: Water Discharge Monitoring

Discharge / Monitoring Point	Date Sampled	Date Data	Turb (N1	oidity FU)	Total Suspe	nded Solids g/L)	р	Н	Oil & G	Grease	Monitoring Frequency	Comment	
	Monitoring Point Obtained	Obtained	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	3 1 3		
	ND	ND	ND		N/A	50	ND	6.5 - 8.5	ND	None visible	ND	Event Based	

### Abbreviations:

mg/L = Milligrams per litre Not Applicable None Visible DNS = Did Not Sample NTU = Nephelometric Turbidity Unit No Discharge Visible potential of Hydrogen

Project Name: The Northern Road Upgrade (Stage 3)

Environment Protection Licence No: 20910

Premise Address: The Northern Road Upgrade, Glenmore Parkway to Jamison Road Link to Public Register on EPA website:

http://www.epa.nsw.gov.au/prpoeoapp/

Date Published: 14-June-17 Monitoring Data for the Month: May-17 Reviewed by Project Environmental Manager: Yes

Monitoring Type: Water Discharge Monitoring

	Discharge / Monitoring Point  Date Sampled  Obtained	Date Sampled			oidity TU)	Total Suspe	nded Solids g/L)	р	Н	Oil & G	Grease	Monitoring Frequency	Comment
		Obtained	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	3 1 3		
	ND	ND	ND		N/A	50	ND	6.5 - 8.5	ND	None visible	ND	Event Based	

### Abbreviations:

mg/L =	Milligrams per litre	N/A =	Not Applicable	NV =	None Visible	DNS =	Did Not Sample
NTU =	Nephelometric Turbidity Unit	ND =	No Discharge	V =	Visible	pH =	potential of Hydrogen

Project Name:	The Northern Road Upgrade, Glenmore Parkway	y Glenmore park to Jamison Road Penrith South, NSW 2750

Environment Protection Licence No: 20910

Link to Public Register on EPA website:

Date Published:

Premise Address: The Northern Road Upgrade, Glenmore Parkway Glenmore park to Jamison Road Penrith South, NSW 2750

http://www.epa.nsw.gov.au/prpoeoapp/

14-Jul-17

Monitoring Data for the Month:

Reviewed by Project Environmental Manager:

Yes

Monitoring Type: Water Discharge Monitoring

Discharge /	Date Sampled	Date Data Obtained	Turb		Total Suspe	nded Solids	р	Н	Oil & (	Grease	Monitoring Frequency	Comment
Monitoring Point		Obtained	Licence Limit	Results	Licence Limit	Results	Licence Limit	I RESUITS I		Results		
ND	ND	ND	N/A	ND	50	ND	6.5 - 8.5	ND	None Visible	None Visible		

#### Abbreviations:

mg/L = Milligrams per litre N/A = Not Applicable NV = None Visible DNS = Did Not Sample NTU = Nephelometric Turbidity Unit ND = No Discharge V = Visible pH = potential of Hydrogen

Project Name: The Northern Road Upgrade, Glenmore Parkway Glenmore park to Jamison Road Penrith South, NSW 2750

Environment Protection Licence No: 20910

Premise Address: The Northern Road Upgrade, Glenmore Parkway Glenmore park to Jamison Road Penrith South, NSW 2750 Link to Public Register on EPA website:

http://www.epa.nsw.gov.au/prpoeoapp/

14-Aug-17 Jul-17

Monitoring Data for the Month: Reviewed by Project Environmental Manager: Yes

Monitoring Type: Water Discharge Monitoring

Discharge /	Date Sampled	Date Data Obtained		(NTU)		Total Suspended Solids (mg/L)		Н	Oil & (	Grease	Monitoring Frequency	Comment
Monitoring Point		Obtained	Licence Limit	Results	Licence Limit	Results	Licence Limit	I RESUITS I		Results		
ND	ND	ND	N/A	ND	50	ND	6.5 - 8.5	ND	None Visible	None Visible		

#### Abbreviations:

Date Published:

mg/L = Milligrams per litre Not Applicable None Visible DNS = Did Not Sample NTU = Nephelometric Turbidity Unit ND = No Discharge Visible potential of Hydrogen

Project Name: The Northern Road Upgrade, Glenmore Parkway Glenmore Park to Jamison Road Penrith South, NSW 2750

Environment Protection Licence No: 20910

Premise Address: The Northern Road Upgrade, Glenmore Parkway Glenmore Park to Jamison Road Penrith South, NSW 2750 Link to Public Register on EPA website:

2750 http://www.epa.nsw.gov.au/prpoeoapp/

14-Sep-17

Aug-17 Yes

Date Published:

Monitoring Data for the Month: Reviewed by Project Environmental Manager:

Monitoring Type: Water Discharge Monitoring

Monitoring Type.				vvaici Disci	er Discriarge Mornioring							
Discharge /	Date Sampled	Date Data		oidity TU)	Total Suspe	nded Solids g/L)	ţ	Н	Oil & (	Grease	Monitoring Frequency	Comment
Monitoring Point	·	Obtained	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	, , ,	
ND	ND	ND	N/A	ND	50	ND	6.5-8.5	ND	None Visible	NV	Event Based	

Abbreviations:

mg/L = Milligrams per litre Not Applicable None Visible DNS = Did Not Sample NTU = Nephelometric Turbidity Unit ND = No Discharge Visible potential of Hydrogen

Proje	ect Name:	The Norther	n Road Upgrade	e. Glenmore Parkwa	v Glenmore	park to Jamison	Road Penrith South	. NSW 2750

Environment Protection Licence No: 20910

Premise Address: The Northern Road Upgrade, Glenmore Parkway Glenmore park to Jamison Road Penrith South, NSW 2750

Link to Public Register on EPA website: <a href="http://www.epa.nsw.gov.au/prpoeoapp/">http://www.epa.nsw.gov.au/prpoeoapp/</a>

Date Published: 14-Oct-17
Monitoring Data for the Month: Sep-17
Reviewed by Project Environmental Manager: Yes

Monitoring Type: Water Discharge Monitoring

Discharge / Monitoring Point	Date Sampled	Date Data Obtained		oidity ΓU)	Total Suspended Solids (mg/L)		pl	Н	Oil & C	Grease	Monitoring Frequency	Comment
Politi			Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results		
ND	ND	ND	N/A	ND	50	ND	6.5 - 8.5	ND	None Visisble	NV	Event Based	No discharge for the reporting period

Abbreviations:

mg/L = Milligrams per litre N/A = Not Applicable NV = None Visible DNS = Did Not Sample NTU = Nephelometric Turbidity Unit ND = No Discharge V = Visible pH = potential of Hydrogen

Project Name: The Northern Road Upgrade, Glenmore Parkway to Jamison Rd (Stage 3)

Environment Protection Licence No: 20910

Link to Public Register on EPA website:

Date Published:

Premise Address: The Northern Road Upgrade, Glenmore Parkway Glenmore Park to Jamison Rd Penrith South, NSW 2750

http://www.epa.nsw.gov.au/prpoeoapp/

14-Nov-17

Monitoring Data for the Month:

Reviewed by Project Environmental Manager:

Yes

Monitoring Type: Water Discharge Monitoring

Discharge / Monitoring Point	Date Sampled	Date Data Obtained	Turbidity (NTU)		Total Suspended Solids (mg/L)		рн		Oil & C	Grease	Monitoring Frequency	Comment
Monitoring Point		Obtained	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results		
B0250R	30-Oct-17	31-Oct-17	N/A	N/A	50	8.0	6.5-8.5	8.2	None visible	NV	Special Frequency 1	
B0950R	30-Oct-17	31-Oct-17	N/A	N/A	50	9.0	6.5-8.5	8.0	None visible	NV	Special Frequency 1	

#### Abbreviations:

mg/L = Milligrams per litre N/A = Not Applicable NV = None Visible DNS = Did Not Sample

NTU = Nephelometric Turbidity Unit ND = No Discharge V = Visible pH = potential of Hydrogen

Project Name:	The Northern Road Upgrade, Glenmore Parkwa	ay Glenmore park to Jamison Road Penrith South, NSW 275	J

Environment Protection Licence No: 20910

Premise Address: The Northern Road Upgrade, Glenmore Parkway Glenmore park to Jamison Road Penrith South, NSW 2750

Link to Public Register on EPA website: <a href="http://www.epa.nsw.gov.au/prpoeoapp/">http://www.epa.nsw.gov.au/prpoeoapp/</a>

Date Published: 14-Dec-17
Monitoring Data for the Month: Nov-17
Reviewed by Project Environmental Manager: Yes

Monitoring Type: Water Discharge Monitoring

<u></u>		Trate: Diserial go memering										
Discharge / Monitoring Point	Date Sampled		Turbidity (NTU)		Total Suspended Solids (mg/L)		рН		Oil & Grease		Monitoring Frequency	Comment
			Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results		
ND					50		6.5-8.5		NV	NV	Special Frequency 1	
ND					50		6.5-8.5		NV	NV	Special Frequency 1	

#### Abbreviations:

mg/L = Milligrams per litre N/A = Not Applicable NV = None Visible DNS = Did Not Sample
NTU = Nephelometric Turbidity Unit ND = No Discharge V = Visible pH = potential of Hydrogen

Monitoring Type: **Blast Monitoring** 

Monitoring Point	Date Sampled	Date Data Obtained	Peak Partic (mm		Airblast Ov (dE	erpressure BL)	Monitoring Frequency	Comment
		Obtained	Licence Limit	Results	Licence Limit	Results		
N/A	ND	ND						No Blasting

### Abbreviations:

mm/s = millimeters per second NB = No Blasting

dBL = decibel level Monitoring Type: Discharge to Land (general)

Discharge / Monitoring Point		Date Data Obtained	Aluminium - dissolved (mg/L)		Conductivity (µS/cm)		Iron - dissolved (mg/L)		рН		Monitoring Frequency	Comment
			Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results		
N/A	ND	ND										

### Abbreviations:

Not Applicable NV = mg/L = Milligrams per litre N/A = None Visible DNS = Did Not Sample V = potential of Hydrogen μS/cm = ND = No Discharge Visible pH = Microsiemens per centimetre

Monitoring Type:

Discharge to Land (from acid sulphate soil treatment areas)

Discharge / Monitoring Point	Date Sampled		Aluminium - dissolved (mg/L)		Conductivity (µS/cm)		Iron - dissolved (mg/L)		Oil & Grease		рН		Monitoring Frequency	Comment
			Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results		
N/A	ND	ND												

#### Abbreviations:

mg/L = Milligrams per litre N/A = Not Applicable NV = None Visible DNS = Did Not Sample  $\mu$ S/cm = Microsiemens per centimetre ND = No Discharge V = Visible pH = potential of Hydrogen

Project Name: The Northern Road Upgrade, Glenmore Parkway to Jamison Rd (Stage 3)

Environment Protection Licence No: 20910

Link to Public Register on EPA website:

Date Published:

Premise Address: The Northern Road Upgrade, Glenmore Park to Jamison Road Penrith South, NSW 2750

http://www.epa.nsw.gov.au/prpoeoapp/

14-Jan-18

Monitoring Data for the Month:

Reviewed by Project Environmental Manager:

Yes

Monitoring Type: Water Discharge Monitoring

Discharge /	Date Sampled	Date Data	Turbidity (NTU)		Total Suspended Solids (mg/L)		рН		Oil & Grease		Monitoring Frequency	Comment
Monitoring Point		Obtained	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	Licence Limit	Results	3 11 3	
B0950R	11-Dec-17	11-Dec-17	50	20.7	50	24.0	6.5-8.5	8.3	None Visible	None Visible	Event Based	

### Abbreviations: