Adani Infrastructure Pty Ltd

Application for Permit to Take Water from Mistake Creek – Supporting Document

22 May 2020





Table of Contents

Section	n 1 Introduction	1
1.1	The Project	1
1.2	Project Background	2
1.3	Purpose and Scope	3
1.4	The Proponent	5
1.5	Overview of Application	5
1.6	Water Supply Strategy	9
1.7	Other Water-related Applications	
1.8	Water Efficiencies	
1.0		
Section	n 2 Background	
2.1	Water Supply Studies	
2.2	Mistake Creek	13
Section	n 3 Relevant Legislation	
3.1	Planning Act 2016	
3.2	Water Act 2000	16
3.2.1	Water Resource (Burdekin Basin) Plan 2007	
3.2.2	Burdekin Basin Resource Operation Plan 2009	
3.2.3	Public Interest	
3.3	Native Title Act 1993	
3.4	Aboriginal Cultural Heritage Act 2003	
3.5	Site Relevance	
351	Water Permit	
3.5.2	Water Permit Application Process	
0.0.2		
Section	n 4 Proposed Works	21
4.1	Taking Water from Mistake Creek	21
4.1.1	Required Water Volumes and Timeframe	21
4.1.2	Water Extraction and Storage Locations	21
Section	n 5 Potential Effects on Surface Water Resources	24
5.1	Mistake Creek Flow Analysis	24
5.1.1	Reliability	24
5.1.2	Integrated Quality and Quantity Modelling	26
5.2	Major Water Uses	28
5.3	Environmental Considerations	
5.4	Existing Environment	
5.4.1	Fish Species	
5.4.2	Reptiles	
5.4.3	Aquatic Macroinvertebrates	

5.4.4	Mammals	.33
5.4.5	Vegetation	.34
5.4.6	Potential Impacts	35
5.5	Potential Environmental Impacts and Management Measures	36
Section 6	Native Title	38
Section 7	Summary and Conclusions	39
Section 8 References		

Figures

Figure 1-1	General Project Locality Plan	1
Figure 1-2	Mistake Creek Extraction Point	4
Figure 1-3	Adjoining Landholders	7
Figure 1-4	Mistake Creek – Disney Property Extraction Location	8
Figure 1-5	Project Water Demand to December 2021	
Figure 2-1	Regional View of Mistake Creek	15
Figure 3-1	Application Process for a Water Permit	20
Figure 5-1	Estimated Mean Daily Flow – Mistake Creek	24
Figure 5-2	Excerpt from Burdekin ROP IQQM Node Diagram	27
Figure 5-3	Water Users Immediately Downstream of the Proposed Disney Property Extraction Point	29
Plates	ed sure 200	

 \mathbf{X}

Plates

Plate 2-1	Mistake Creek near Disney Property, adjacent to gravity diversion inlet (viewing south)	14
Plate 2-2	Bank of Mistake Creek adjacent to the gravity diversion inlet (viewing north)	14
Plate 4-1	Existing diversion channel on Disney property	22
Plate 4-2	Existing diesel pumps within gravity diversion channel on Disney	23
Plate 4-3	Existing diversion channel and pumping station on Disney property	23

Tables

Table 1-1	Proponent Details	5
Table 1-2	Surface Water Summary	5
Table 3-1	Reserve Volumes that may be Granted as a Water Allocation or a Water Licence	
Table 3-2	Reserve Volumes that may be Granted as a Water Allocation or a Water Licence	
Table 4-1	Summary of Proposed Water Extraction on Mistake Creek	21
Table 4-2	Summary of Approximate Volumes Required for Each Proposed Purpose	21
Table 5-1	Estimated Daily Flows by Month - Cubic Metres Per Second	24
Table 5-2	Wet Days per Month for Mistake Creek	25
Table 5-3	Mistake Creek Wet Season Characteristics	25
Table 5-4	IQQM Modelled Extraction Conditions	27
Table 5-5	Fish Species Listed as Potentially Inhabiting Mistake Creek	
Table 5-6	Potential Environmental Impacts and Management Measures	
Table 7-1	Summary	

Appendices

Appendix A – Mistake Creek IQQM EFO and WASO Results	1
Appendix B – Water Strategy Supply Sources, Quantities Sought and Associated Risks	3
Appendix C – Water Demand & Source Breakdown	4
Appendix D – Disclaimer and Limitations	5

Document History & Status

Revision	Date issued	Reviewed by	Approved by	Date approved	Revision type
0	19/03/2020	T.Kinny	T.Kinny, R.Merz	20/03/2020	Final
1	21/04/2020	T.Kinny	T.Kinny, R.Merz	23/04/2020	Final
2	22/05/2020	T.Kinn RTI ss 49(3)-(4), sch 4, pt 3 item 3, pt 4	4 i i&en/5 62020	Final
Distribution of Copies					

Distribution of Copies

Version	Date issued	Quantity	Electronic	Issued to
Final (Rev 0)	20/03/2020	1	PDF	Adani
Final (Rev 1)	23/04/2020	1	PDF	Adani
Final (Rev 2)	22/05/2020	1	PDF	Adani
	0,	6		

X

Last Saved:	25 May 2020	
File Name:	1000657_RPT_Mistake Creek_Water Permit Application_23042020_Rev1.docx	
Authors: Tim Kinny, Juliano Miranda, Baijie Chen		
Project Manager:	Tim Kinny	
Client:	Adani Infrastructure Pty Ltd	
Document Title:	Application for Permit to Take Water from Mistake Creek – Supporting Document	
Document Version:	Final	
Project Number:	1000657	

Section 1 Introduction

1.1 The Project

Adani Mining Pty Ltd is developing the Carmichael Coal Mine in the North Galilee Basin, approximately 160 kilometres (km) north-west of Clermont, in Central Queensland. The Carmichael Mine is expected to have an initial mine production rate of 10 million tonnes per annum (mtpa).

Carmichael Railway Network Pty Ltd (CRN) is planning to develop a new narrow gauge railway of approximately 206 km in length (greenfield rail), to transport coal product from the mine to the Abbot Point Coal Terminal, via an existing third party rail line (brownfield rail) (Figure 1-1). The total route length between the Carmichael Mine and the Abbot Point Coal Terminal is approximately 400 km (i.e. length of both brownfield and greenfield railway sections). The narrow gauge rail will have an initial design capacity of 40 mtpa, ensuring capability to manage the Carmichael Mine's initial 10 mtpa production rate.



Figure 1-1 General Project Locality Plan

In order to facilitate the Project, Adani must secure a sufficient and reliable water supply. As part of the current development strategy and as an immediate priority, Adani Infrastructure have reviewed water requirements for various construction activities. Accordingly, Adani Infrastructure is seeking assistance from the Department of Natural Resources, Mines and Energy (DNRME) in the approval of this application for provision of a secure supply of water to meet demands for the Project's construction phase. Further details of the water supply strategy, and efficiencies being employed, is provided in Section 1.6.

A permit is being sought to take water from Mistake Creek for the purpose of constructing Project-related infrastructure. The Mistake Creek catchment is within an area considered part of the Carmichael Coal Mine and Rail (CCMR) Project. Studies completed for the Carmichael Coal Mine Environmental Impact Statement (EIS) (Rail Chapter 6) (GHD 2012) and Supplementary EIS (SEIS) (GHD 2013a) indicate that there is sufficient surface and groundwater available locally to offer a reliable water supply.

Early construction work for rail infrastructure commenced in 2019 and extraction is required to support the ongoing construction program. Adam Mining Pty Ltd previously held a water permit for extraction from Mistake Creek provided for the take of 8,050 ML over three years (reference: 614017). That permit expired in January 2018 and was never acted upon as no water was taken from the system due to delays in construction commencement.

Following, a subsequent water permit was granted to Adani Infrastructure Pty Ltd to extract 1,525 ML of water from Mistake Creek on 22 October 2018, which expired on 30 June 2019. Adani Infrastructure Pty Ltd extracted 1,500 ML of this water between 30 March 2019 and 2 April 2019 from Mistake Creek. The water extracted under that permit will be exhausted by roughly October 2020, with approximately 670 ML of this water remaining for use during the intervening 6 months. Adani are therefore, seeking a new water permit to extract an additional volume during the 2020-21 wet season. This water permit application seeks to secure a water source from Mistake Creek for a 12 month period. Figure 1-2 provides an overarching location plan identifying the proposed infrastructure location of the Project and the extraction point on Mistake Creek.

1.2 Project Background

The CCMRP was declared a 'coordinated project' under the *State Development and Public Works Organisation Act 1971* (SDPWO Act) on 26 November 2010. On 6 January 2011, the Commonwealth Department of the Environment and Energy (DotEE) (formerly SEWPaC) determined the CCMR to be a 'controlled action' requiring a parallel assessment under the Commonwealth Government Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) with joint EIS documentation (EPBC2010/5736). The EIS process was completed and the CG's Evaluation Report for the CCMR was issued on the 7 May 2014. Subsequently, the Commonwealth Government approved the CCMR under the EPBC Act (with conditions) on 14 October 2015. Due to the size of the Project, the assessment for the majority of the rail (beyond that included in CCMR) was progressed separately. The distance from the mine to the Port of Abbot Point is approximately 388 kilometres (km), however, the proponent for the rail (CRN) is now progressing a revised 206 km alignment. The rail inclusive of CCMR (rail chainage 388 – 311 km) and North Galilee Basin Rail Project (NGBR) (rail chainage 311 – 179.5 km) is collectively known as the CRN.

The CRN starts from the proposed Carmichael Coal Mine, and heads east towards Mistake Creek west of the Gregory Developmental Road. This section of rail was assessed as part of the CCMR EIS, SEIS and AEIS, in which it was known as Separable Portion 1 (SP1).

1.3 Purpose and Scope

This application concerns the taking of water from the Mistake Creek for a 12 month period. It is proposed that water would be extracted from the Mistake Creek and transported to construction locations associated with the Project, including the CRN rail line, roads and construction camps (Figure 1-2). With approval, extraction of the water from the Mistake Creek would provide a reliable water source essential for the construction phase of the Project. Given the temporary nature of the construction activities, the purpose of this permit is to secure water to cover the duration of construction phase activities only.

The purpose of this report is to provide sufficient information to support the application for a permit to take water from the Mistake Creek for the construction of elements of the Project. This report includes information regarding:

- Previous relevant water supply studies;
- The hydrology and reliability of the Mistake Creek flows;
- Relevant legislation associated with this application;
- Proposed works associated with the extraction of water from Mistake Creek;
- Potential environmental impacts of the works; and
- Management measures.

In addition to the above items, the proposed water extraction sought in this application has been assessed using the Burdekin Resource Operation Plan (ROP) Integrated Quality and Quantity Model (IQQM). The IQQM outputs have been assessed against the Burdekin Water Resource (WRP) and ROP Environmental Flow Objectives (EFO) and Water Allocation Security Objectives (WASO) for compliance. The IQQM assessment for this extraction was completed in April 2020. The IQQM assessment is described in Section 0 and results summarised in Appendix A.



1.4 The Proponent

Adani Infrastructure is the proponent for this permit application. The relevant details of the application are summarised in Table 1-1 below.

Proponent	Adani Infrastructure Pty Ltd	
Address	PO Box 967 Townsville, QLD 4810	
Phone/Fax	P: (07) 4430 6800 F: (07) 4430 6768	
Email	@adani.com.au	

Table 1-1 Proponent Details

The proponent is Adani Infrastructure Pty Ltd, who is an Australian subsidiary of Adani Enterprises Limited, a company based in Ahmedabad, India. Adani Enterprises Limited has diverse interests in global trading, development and operation of ports, inland container terminals, establishing of special economic zones, oil refining, logistics, gas distribution, power generation, transmission and trading.

Adani Mining Pty Ltd was established in Australia in mid-2010 with the intent of engaging in exploration and mining coal resources. Adani Mining Pty Ltd initially purchased the right to seek a Mining Lease Application (MLA) (MLA 70441) over Exploration Permit for Coal (EPC) 1080 in December 2011. This initiated the development of the CCMR Project. Adani Abbot Point Terminal Pty Ltd (AAPT), also an Australian subsidiary of Adani Enterprises Limited, has purchased the lease of Abbot Point Coal Terminal as part of their overall program for coal exploration.

1.5 Overview of Application

Table 1-2 below summarises the proposed taking of water from the Mistake Creek including the coordinates of the extraction location, the proposed volume of water required for construction and the purpose for the taking of water from the Mistake Creek. Figure 1-3 shows the properties adjoining the extraction lot. Figure 1-4 shows the extraction point, located in the Mistake Creek adjacent to the Disney property.

Number of Extraction Location	One (refer to Figure 1-4 for proposed surface water extraction location)		
Purpose	Construction and operation of the Project infrastructure (rail, roads, worker accommodation, quarries and civil works)		
Dates of commencement and conclusion of water extraction activities	31 July 2020 – 31 July 2021		
Watercourse Source	Mistake Creek		
Location (GDA94 – MGA55)	Easting 487775.08	Northing 7588794.21	
Adjacent Properties (refer to Figure 1-3)	operties ure 1-3)		
Maximum Rate of Extraction	6,500 L/s(¹) (561.6 ML/d)		

Table 1-2 Surface Water Summary

Required Water Quality The majority of water will be used during construction for earthworks conduct of dust suppression. Any water used for other purposes will be treated to the standards before use.	
Volume Required/Year (Total)	1,800 ML + 30% contingency (total maximum volume of 2,340 ML)
Permit Timeframe	12 months

(1) Based on existing pump capacity

The existing owner of the dam and infrastructure holds a water licence and harvesting under the existing conditions can commence when Mistake Creek flows reach 430 ML/d, with a maximum daily extraction rate of 6,500 L/s. The threshold limit of 430 ML/d is physically controlled by a weir on the side of Mistake Creek. The take of water from Mistake Creek is facilitated by a gravity diversion channel. When the height of the creek reaches a certain level (exceeding crest level of 194.67 m), the water then flows into the gravity diversion. Water is then taken from the gravity diversion into the dam via the six pumps. The take of water from the gravity diversion is only possible when the flow of the Mistake Creek downstream of the gravity diversion is more than 5 cubic metres per second (equivalent to a sill height of 193.74 m). Therefore, any temporal limitations on extraction volumes included in the permit should be consistent with those provided to the existing licence holder.

Published on Act 2009





M:\BES160270_Adani_Disney\GIS\DATAWXDVFINAL\004-R5_Disney Property extraction-storage locations.mx

1.6 Water Supply Strategy

Given the rural nature of the northern Galilee Basin, there are limited existing water supplies in the region. Landholders in the area predominantly use groundwater bores and/or surface water harvesting. The closest existing large-scale water supply is the Burdekin Falls Dam (Lake Dalrymple), located approximately 150 km to the north-east of the Carmichael Mine. Alternative water source options were considered in the early planning stages. Detailed analysis was completed by Adani with input from recognised firms including GHD, Hyder, Calibre, Engeny and CDM Smith. It was ultimately determined that a diversified range of water sources was required, and preferably at different locations along the rail corridor to reduce transportation and potential losses.

To provide DNRME with an understanding of the water strategy for the Project, this section provides an overview of the water usage for the wider rail project, water sources established or being pursued, risk level of sources and efficiency measures.

To ensure reliability and security of water supply to support the development and operation of key infrastructure, CRN is seeking water for a range of activities. As the work fronts of the various construction activities for quarries, access roads, rail, and accommodation camps are separated by distances of more than 100 km, several water source locations are required to be provided to minimise traffic generated from water trucks, and to ensure water is available in the areas it is needed for dust suppression, road construction, concreting activities etc. Therefore, water is to be extracted from a variety of locations and water sources for construction activities, including Mistake Creek. These sources are:

- Sunwater 1,270 ML from Sunwater supply until 31 August 2020;
- Mistake Creek 1,500 ML as extracted under WL 618979 (Disney landholder agreement) and 2,340 ML sought in current application;
- Belyando Flood Harvesting 250 ML to be extracted under WL 621750;
- Recycled Water approximately 150 KL / day reused from camp operations; and
- Stormwater minor and infrequent amounts from camp detention basins.

Details of Adani's expired and current permits and the single water licence (WL 617268) are provided in Section 1.7. A full breakdown of current project water strategy supply sources, quantities sought, and associated risks is provided in Appendix B.

The water demand and usage per month has been calculated out to December 2021 and has been carefully mapped against available incoming water. Figure 1-5 shows the rail water demand (green line for port side and red for mine side of the rail line) and shows the cessation points of the Sunwater and Disney agreements. Therefore, without alternative water sources the Project faces a potential shortage of construction water post August 2020. Appendix C contains a breakdown of water sources





1.7 Other Water-related Applications

This section provides an overview of nearby permits and licences for water that have been submitted to DNRME separate to this application, for purposes of construction and operation of the mine, rail and or other off-site infrastructure.

Current and expired allocations are summarised below. While the purpose of these allocations included rail related infrastructure, these were all granted to Adani Mining Pty Ltd, Adani Infrastructure Pty Ltd and Adani Infrastructure Pty Ltd is proponent for the current application:

- Mistake Creek Water Permit (Expired) An application for a water permit to extract 8,050 ML of water from Mistake Creek was submitted by Adani Mining Pty Ltd to DNRME on 23 December 2014 for a period of three years. On 19 March 2015 Adani Mining Pty Ltd was granted the water permit to extract from Mistake Creek for the construction of on-lease and off-lease infrastructure (reference 614017). Adani has not taken any water under this permit, as the project activities have not commenced during that period.
- Mistake Creek Water Permit (Expired) Adani Infrastructure Pty Ltd was granted a Water Permit to extract 1,525 ML of water from Mistake Creek on 22 October 2018 which expired on 30 June 2019. Adani Infrastructure Pty Ltd extracted 1,500 ML of this water between 30 March 2019 and 2 April 2019 from Mistake Creek. This water was required to meet part of the water demand for rail construction scheduled in 2019-2020. This current application is a resubmission of the previous 1,525 ML water permit from Mistake Creek; however, with only a single extraction point and a required extraction volume slightly higher than previous application.
- Belyando River Water Permit (Original Expired, New Permit Current) An original water permit for 250 ML for extraction from the Belyando River was obtained in 2015 (reference 614136). After the permit for 250 ML for extraction from the Belyando River expired, Adani Mining Pty Ltd was granted a subsequent water permit (reference 617345) for the period of 2 years which expired on 30 April 2019. Adani Mining Pty Ltd did not take any water under this permit, as the project activities had not commenced during that period. Adani Mining Pty Ltd

submitted a new water permit application for 250 ML from the Belyando River which was granted and is currently active.

- Suttor River Water Licence (Current) Adani Mining Pty Ltd has applied for and obtained a water licence to extract from the Strategic Reserve Allocation (i.e. identified reserves of unallocated water in the basin). At the time of establishing the reserve volumes in the Burdekin Basin Resource Operations Plan 2009, there was 150 GL available for allocation across the Sub-catchment E general and strategic reserves. The water licence grants a capped allocation determined by impact assessment against Environmental Flow Objectives (EFOs) and Water Allocation Security Objectives (WASOs). The criteria establish the requirements for adequate environmental flows and water allocation for potable and agricultural purposes.
- Adani Mining Pty Ltd has been granted a Water Licence (reference WL 617268) from strategic reserve water in the Belyando-Suttor Sub catchment Area E of the *Water Plan (Burdekin Basin) 2007*. This licence authorises take of 12,500 ML (10,800 ML mean annual volume) from the Suttor River of the Burdekin Basin, adjacent to Lot 3 on SP27855. The Water Licence will not be accessed in 2020 as the extraction is currently in review by the Commonwealth Government Department of Agriculture, Water and Environment and Energy (DAWE) for potential impacts to Matters of National Environmental Significance (MNES) under the EPBC Act (EPBC 2019/8508). Additional data gathering and documentation to support a Preliminary Documentation Report is currently underway with the assessment and approval process required to be completed prior to construction of pump, conveyance and storage infrastructure to enable harvest under the licence (approximately a 12-month construction timeframe).

The extraction associated with WL 617268 is part of the North Galilee Water Scheme (NGWS) which involves significant permanent infrastructure comprising:

- Water harvest and storage infrastructure to store water harvested from the Suttor River (including river intake, river pump station, intake pipeline, new and expanded 10 GL dam and conveyance pump station);
- Stage A (Belyando Pipeline) 49 km water pipeline and associated facilities from the water storage infrastructure to the Separable Portion 1 (SP1) rail corridor of the CCP; and
- Stage B (Carmichael Pipeline) 61 km water pipeline and associated facilities (wholly within the 95 m SP1 rail corridor assessed and approved for disturbance by the existing CCP approval (EPBC 2010/5736)) from the junction with the Stage A pipeline, to the CCP Mine lease (ML)

The project was referred to the Department of Agriculture, Water and Environment (DAWE) on 16 September 2019 and deemed a controlled action requiring assessment by Preliminary Documentation (EPBC 2019/8508). The DAWE referral portal details the significant additional information required to satisfy DAWE. Adani is currently scheduling downstream habitat assessments for MNES species. These detailed habitat assessments and documentation updates need to be completed prior to DAWE considering the NGWS project. Adani cannot commence construction of the project, which would enable utilisation of WL 617268, until the assessment and decision process by DAWE is complete. Further, the taking of the water may constitute an offence under the EPBC Act whilst the project is under assessment.

At the earliest, this is expected at the end of 2020 or early 2021. The publicly available referral document on the DAWE portal provides information on the anticipated construction timeframe for the NGWS project. Detailed design and construction of the water harvest and storage infrastructure is anticipated to take between 9 and 12 months (excluding the connecting pipelines). Therefore, assuming the earliest possible Commonwealth Government process timeframe is achieved, Adani could theoretically begin extracting under WL 617268 in September 2021, well beyond the expiry date of this proposed take from Mistake Creek. Further, WL 617268 takes effect when the balance of the licence fee is paid, this is scheduled for 1 July 2021. Water cannot be taken until that fee is paid in full.

Water Efficiencies 1.8

The majority of the water required for the project is for earthworks and dust suppression, with limited potential to reduce usage and risks of demand spikes in dryer conditions. Given the difficulty sourcing secure medium-term supply and the costs involved, it is both an environmental and commercial imperative for Adani to efficiently use available water. As such, various efficiency measures are being employed across the project, including:

- Reuse of treated effluent from the temporary construction camps;
- Water efficient appliances within the camps (e.g. shower heads incorporated into the works are low flow);
- Water treatment plant to treat raw water rendering it suitable for potable use;
- Incorporating 50% of recycled water into the construction work water for dust suppression at work fronts close to the treatment plants;
- Employing construction techniques and management measures that limit cleared areas and stockpiles requiring dust suppression; and
- Re-use of captured stormwater from sediment basins at the camp locations and rail sites.



Section 2 Background

2.1 Water Supply Studies

A previous assessment of water supply sources was published in the SEIS Appendix C3i which provides an assessment of the suitability of Mistake Creek as a water extraction source for the Project. Although the volume sought from the original application in SEIS Appendix C3i was smaller than that proposed for this application, (700 ML over two years compared to 2,340ML (including 30% contingency) over a 12 month period), some information from this application was still relevant and has been used in the preparation of this report. The SEIS Appendix C3i assessment found that cumulative wet season (1 November to 31 March) flows in Mistake Creek can exceed 1,000 GL with expected cumulative wet season flows to average 140 GL (or 940 ML/d). Other relevant information that was used includes the characteristics and location of Mistake Creek and relevant infrastructure, environmental values and potential impacts, and major water uses.

Additional reports found in the Project EIS and SEIS were also utilised to compile information to support the current application. These include:

- Project (Rail) Chapter 6 Water Resources (EIS) (GHD 2012); and
- Appendix S1a Rail Hydrology Report (SEIS) (GHD 2013d).

These documents are large and are not attached, however they can be found at the following locations:

- http://eisdocs.dsdip.qld.gov.au/Carmichael%20Coal%20Mine%20and%20Rail/EIS/EIS/Rail%20Chapters/06water-resources-rail.pdf
- http://eisdocs.dsdip.qld.gov.au/Carmichael%20Coal%20Mine%20and%20Rail/SEIS/Appendices/Appendix%20S/Appendix-S1a-Rail-Hydrology-Report.pdf

Various water sources have been identified for local water supply to meet the yield and reliability. Mistake Creek has been chosen based on a number of reasons which include:

- Local resource and close to the works for which the water is proposed to be used;
- Low environmental impact; and
- Legislatively viable.

The proposed extraction location on Mistake Creek is approximately 5 km from the CRN rail construction corridor and on flat terrain. The creek draws on a large catchment, increasing reliability and reducing the impact on local water resources.

The existing infrastructure and use of areas already cleared or disturbed also decreases the environmental footprint and associated impacts. No vegetation clearance is anticipated to be required to place pumps and small water storage infrastructure.

2.2 Mistake Creek

Mistake Creek is a major river system within the Belyando River Catchment and has widths of up to 20 m. Mistake Creek has a catchment area of 8,048 km² and provides a boundary to Disney property (Lot 4 on SP116046) (refer to Figure 1-2 and Figure 2-1). Mistake Creek joins the Belyando River which then merges with the Suttor River and flows in a northerly direction from its headwaters in the Drummond Range to the Burdekin Falls Dam. Similar to the Belyando River, Mistake Creek has a shallow channel gradient which means that even when peak discharges are high the velocities are relatively low. Plate 2-1 and 2-2 show the characteristics of Mistake Creek, adjacent to the intake channel (gravity diversion channel) located adjacent to the Disney property.

Mistake Creek was identified as a potential water source for the Project as it has existing infrastructure that can be used for abstraction, and is near to the locations of construction water demand for the rail, as shown in Figure 1-2.



Source: GHD 2013a

Plate 2-1 Mistake Creek near Disney Property, adjacent to gravity diversion inlet (viewing south)



Plate 2-2 Bank of Mistake Creek adjacent to the gravity diversion inlet (viewing north)



Section 3 Relevant Legislation

3.1 Planning Act 2016

The *Planning Act 2016* (Planning Act) replaced the *Sustainable Planning Act 2009*. The Planning Act is Queensland's principal planning legislation and comprises of three main elements: plan making, development assessment and dispute resolution. The Planning Regulation 2017 complements the Planning Act.

Under the Planning Act there are two primary State planning instruments, being (1) the State Planning Policy (SPP) and (2) Regional Plans. State interests outlined in these documents are considered into the local context when planning schemes are developed.

Although, this Water Permit Application is submitted under separate legislation, CRN is aware that an Operational Works Development Permit for Taking and Interfering with Water (under Sch 10, Part 19, Division 1 of the Planning Regulation 2017) is often required. However, CRN will be utilising the existing Disney Property pump and storage infrastructure. As such, a permit under the Planning Act is not required.

3.2 Water Act 2000

The *Water Act 2000* (Water Act) provides for the sustainable management and allocation of water to meet Queensland's future water requirements including the protection of natural ecosystems and security of supply to water users through the development of water resource plans, and other activities. Each water management area has a separate WRP and associated resource operations plan (ROP) to provide a framework to regulate water extractions to ensure that they are maintained as a sustainable resource.

Given that the Project is located in the Burdekin Basin the extraction of water must comply with the Burdekin WRP and the Burdekin ROP. The relevance of these is summarised is Section 3.2.1 and Section 3.2.2 below.

3.2.1 Water Resource (Burdekin Basin) Plan 2007

The WRP provides a framework for the sustainable management of water resources by providing sustainable water allocation while protecting ecological values in the Burdekin Basin. The WRP provides information regarding the outcomes for sustainable management of water, performance indicators and objectives, strategies for achieving outcomes and monitoring and reporting requirements.

To ensure the objectives of the WRP are met hydrological assessment using IQQM was conducted (refer Section 0) which measures compliance against the Burdekin WRP and ROP EFO and WASO targets in relation to the water extraction proposed in this application.

3.2.2 Burdekin Basin Resource Operation Plan 2009

The Burdekin ROP supports the implementation of the Burdekin WRP and water use plans in the Burdekin Basin. Chapter 2 of the ROP identifies the process for making available and dealing with unallocated water mentioned in section 29 of the WRP. The ROP identifies three unallocated water reserve classifications:

- a. General reserve;
- b. Strategic reserve; and
- c. SunWater reserve.

Mistake Creek is located in subcatchment E of the ROP which at the time of production of the plan, 2009, there was 130,000 ML of water in the 'general reserve' for this subcatchment. The ROP does not identify the process for obtaining a permit to take unallocated water, however, the process is prescribed in Part 2, Division 2, of the Water Regulation 2016. Table 3-1 and Table 3-2 below identify the water reserves in the Burdekin catchment.

Deserved	Mean annual volume (ML) by subcatchment area									
Reserved purpose	А	В	С	D	E	F	G	Total		
General reserve	50,000	5,000	0	0	130,000	5,000	10,000	200,000		
Strategic reserve for State purposes	0	0	0	0	9,200 ¹	5,000	10,000	35,000 ¹		
							Total	235,000		

 Table 3-1
 Reserve Volumes that may be Granted as a Water Allocation or a Water Licence

1 - At the commencement of the Burdekin Basin Water Management Protocol 2019, 9,200 ML was available to be granted from strategic reserve as shown in Table 3-1. Upon completion of an existing State purpose project (the NGWS), 10,800 ML will return to the State and the total available volume held in strategic reserve will be 20,000 ML.

Table 3-2	Reserve Volumes that may be Granted as a Water Allocation or a Water Licence
-----------	--

Deserved murness	Mean annual volume (ML) by subcatchment area									
Reserved purpose	А	В	с 🗸	D	E	F	G	Total		
SunWater reserve	0	0	8,7	44	0	0	0	8,744		
Strategic reserve for a future raising of Burdekin Falls Dams	150	,000	0	0	0	0	0	150,000		
Strategic reserve for water infrastructure for the Bowen and Broken subcatchments	0	0	150,000	0	0	0	0	150,000		
			10	C	\mathbf{O}		Total	308,744		

3.2.3 Public Interest

Section 138 of the Water Act provides the criteria for deciding applications for water permits. In deciding whether to grant the application, consideration must be given to the 'public interest', among other criteria that are addressed in this documentation. There is no specific definition of public interest in either the Water Act or Water Regulation 2016; however, the other criteria in Section 138 deals primarily with protection of the natural ecosystems, the physical integrity of watercourses and existing water entitlements. Therefore, while it can be broadly considered as constituting the triple bottom line (social, environmental and financial), public interest is this case considered to primarily focus on economic matters.

CRN is seeking this water permit to support the continued construction of the greenfield rail line connecting the Carmichael Mine to the Port of Abbot Point. Both projects have successfully achieved all levels of approvals to enable construction. The Carmichael Mine project was redesigned in 2018 to be a 10 Mtpa mine and CRN to be a 206 km railway. Both projects will see 1,500 direct jobs and 6,750 indirect jobs created during ramp up and construction. These projects have been in construction for 6 months and currently have over 200 personnel working onsite. Adani has a strong regional employment policy and the vast majority of these jobs are supporting residents of the Townsville, Rockhampton, Whitsunday, Isaac, Central Highlands, Mackay, Charters Towers and Gladstone regions. In addition to the current and expanded employment benefits, the project will inject billions of dollars in royalties into the Queensland economy. The Mistake Creek water permit is required to enable continued construction of the rail and associated infrastructure and to allow CRN to meet environmental obligations under the various approvals (e.g. dust suppression).

3.3 Native Title Act 1993

The *Native Title Act 1993* is a Commonwealth statute that deals with the recognition of native title in Australia, and prescribes processes to be undertaken when activities impact on native title. The extraction site is located within the area covered by the Jangga Indigenous Land Use Agreement (ILUA) area.

Adani Mining Pty Ltd, the CRN and the Queensland Government have a registered ILUA with the Jangga People executed on 4 November 2013 which encompasses the area and activities associated with the proposed extraction.

3.4 Aboriginal Cultural Heritage Act 2003

The Aboriginal Cultural Heritage Act 2003 (ACH Act) protects Indigenous cultural heritage in Queensland. To comply with the duty of care provision under section 23 of the Act, a proponent of a project is to prepare a Cultural Heritage Management Plan (CHMP), which is an agreement between the proponent and the native title claimants covering the identification and management of Indigenous cultural heritage.

To meet CRN's obligations under the ACH Act, CRN (Adani) and Jangga People entered into an Early Works Cultural Heritage Clearance Agreement in June 2011 and a CHMP in May 2013. The CHMP was updated in May 2015. The CHMP commits to ensuring that assessments are undertaken prior to commencement of project activities and management arrangements as agreed are implemented. In accordance with these agreements:

- An initial geotechnical survey of the management area (as detailed in the CHMP) was undertaken in May 2015 by Jangga Traditional Owner field officers assisted by Everick Heritage Consultants (Everick). A survey report was provided in June 2015 by Everick;
- A cultural heritage survey of the entire management area was undertaken in June 2015. A survey report was
 provided in July 2015 by Northern Archaeology Consultants (NAC);
- A meeting was held in July 2015 to allow Jangga Operations Pty Ltd (Jangga Operations) and NAC to present the findings of the surveys; and
- Following consideration of cultural heritage and project design constraints, a meeting was held between Jangga Operations, NAC and Adani to finalise appropriate cultural heritage mitigation strategies over the entire management area. The management plan was signed off on 21 July 2015.

Adani (CRN) have consulted with Jangga Operations regarding the proposed water extractions.

3.5 Site Relevance

3.5.1 Water Permit

As the extraction of water from the Mistake Creek will be for a temporary purpose, a water permit is required rather than a water licence. Water permit applications for the extraction of water from a watercourse must include the following:

- Purpose for which the water is to be used;
- Date of activity commencement and completion;
- Water source;

- Name of the watercourse;
- Location (lot on plan);
- Maximum rate at which water will be extracted;
- Volume required (ML/day);
- Total volume required (ML over life of permit); and
- A map of the proposed extraction point.

These requirements are addressed above in Table 1-2.

3.5.2 Water Permit Application Process

Water permit applications are made under section 137 of the Water Act. This application includes a maximum extraction of 2,340 ML (including 30% contingency) with maximum rate of 6,500 L/s (561.6 ML/d) for the Disney property. This application will be submitted to the DNRME (the regulator) for assessment. A summary of the water permit application process is detailed below in Figure 3-1.

Preliminary Water Supply Strategy and Investigations

Application for permit to take water (Part 3, Division 3 of the *Water Act 2000*)

Application for development permit for new operational works (if triggered)

Applications are approved or denied

Construction of works

Figure 3-1 Application Process for a Water Permit

Section 4 Proposed Works

The proposed works associated with this application involves the taking of surface water from Mistake Creek for construction of the Project. A summary of the volumes to be extracted over the duration of the permit and the location of the extraction point is listed in Table 1-2.

4.1 Taking Water from Mistake Creek

4.1.1 Required Water Volumes and Timeframe

The maximum rate of extraction at Disney property is to be 6,500 L/s with a maximum volume of 561.6 ML/d. A total of 1,500 ML of water was extracted from Mistake Creek under the previous water permit for construction held by Adani Mining Pty Ltd. The water extracted under the previous permit that expired in June 2019 is currently being used; however, this volume will be exhausted in 2020 and CRN are now seeking a new water permit during 2020-21. This water permit application is for the proposed take period of 12 months from May 2020.

A summary of the water extraction for Mistake Creek under this permit application is provided in Table 4-1. A summary of the approximate volumes required for each purpose is provided in Table 4-2.

Table 4-1 Summary of Proposed Water Extraction on Mistake Creek

Location	Water Required (ML/d) (Max)	Total Water Required (ML/yr)
Disney Property	561.6	2,340 (including 30% contingency)

Table 4-2 Summary of Approximate Volumes Required for Each Proposed Purpose

Purpose	Total Estimated Water Demand (ML)
Off-site road construction and maintenance	39
Camp construction and operation	169
Rail construction and operation	2,132
Total	2,340*

* Including 30% contingency and recovery of recycled water

4.1.2 Water Extraction and Storage Locations

4.1.2.1 Disney Property

The Disney property is located adjacent to the CRN corridor, and contains an existing flood harvesting dam. The dam is located adjacent to Mistake Creek, a tributary of the Belyando River. It is proposed water is taken directly from Mistake Creek at the weir location, adjacent to the Disney property. The existing flood harvest dam footprint is rectangular and currently has storage capacity of 3.5 GL. The installed pump system contains six pumps, each capable of pumping 1,600 L/s for a total extraction rate of 830 ML/d (Plate 4-2).

The existing owner of the dam and infrastructure holds a water licence and has advised that harvesting under the existing conditions can commence when Mistake Creek flows reach 430 ML/d above which an unlimited amount of water is allowed to be extracted, with a maximum daily extraction rate of 6,500 L/s.

The IQQM used for water planning compliance assessments already includes details of licenced volumes at this location. The threshold limit of 430 ML/d is physically controlled by a weir on the side of Mistake Creek. In addition, the take of

water from Mistake Creek is facilitated by a gravity diversion channel. When the height of the creek reaches a certain level (exceeding crest level of 194.67 m), the water then flows into the gravity diversion. Water is then taken from the gravity diversion into the dam via the six pumps. The take of water from the gravity diversion is only possible when the flow of the Mistake Creek downstream of the gravity diversion is more than 5 cubic metres per second (equivalent to a sill height of 193.74 m).

The original IQQM run in 2014 was based on an annual extraction of 3,500 ML/yr. CRN are now proposing to take a lesser volume of 2,340 ML in 12 months. Given the length of time since the original modelling, CDM Smith has completed a water allocation identification process using the latest DNRME data and rerun the IQQM to check for consistency with the EFO and WASO targets (refer Section 0).

CRN proposes to use this existing infrastructure under an agreement with the landholder, and will measure water takes under this permit separately. Water under this application will be stored in the dam on the Disney property and extracted from an irrigation channel to the south fed directly from the dam (see Figure 1-4). It is proposed to install a diesel powered pump capable of 115 m dynamic head at 65 L/s at the extraction point on the irrigation channel. The installation will also include a 12,000 L diesel tank. Water will be extracted and either feed directly into water trucks or into a pipeline which will connect the site to the rail corridor.



Plates 4-1, 4-2 and 4-3 display the existing environment including the existing diversion channel, diesel pumps and the pumping station at the Disney property.

Plate 4-1 Existing diversion channel on Disney property



Plate 4-2 Existing diesel pumps within gravity diversion channel on Disney



Plate 4-3 Existing diversion channel and pumping station on Disney property

As mentioned above, the placement of the existing weir at the junction of Mistake Creek and the gravity diversion channel provides a measure that physically controls the threshold flows of at least 430 ML/d, prior to extraction taking place. This arrangement would continue under operation of a water permit approved under this application.

Section 5 Potential Effects on Surface Water Resources

This section provides the Mistake Creek flow analysis, identifies major water users in the system, and describes environmental values and potential environmental impacts. Mitigation measures proposed to minimise impacts associated with the extraction of water from the Mistake Creek are also identified.

5.1 Mistake Creek Flow Analysis

In order to estimate the flows at Mistake Creek, data from a DNRME gauging station located on Mistake Creek approximately 11 km upstream of the Disney off-stream storage was used (stream gauge 120309A). The historical flow data at this gauging station was deemed sufficient for determining flows at the abstraction site.

The mean daily flow through Mistake Creek is 320 ML per day (3,700 L/s). The creek can be dry for several months in the dry season; however, during the wetter months flows can be expected to average 140 GL (or 940 ML/d). Therefore, there is a significant supply of water during the wetter months as seen in Figure 5-1.

Table 5-1 summarises the mean daily flows through Mistake Creek each month, as measured at the gauging station.



Figure 5-1 Estimated Mean Daily Flow – Mistake Creek



Jan	Feb	Mar	Apr	Мау	June	July	Aug	Sep	Oct	Nov	Dec
11.14	26.02	10.46	2.34	6.97	0.88	0.93	0.35	0.7	1.52	2.74	4.3

5.1.1 Reliability

The results of the flow analysis indicated that flows into Mistake Creek are more reliable through the months of October through to May. During wetter periods, water is available with daily flows ranging from 5 cubic metres per second to 24.4 cubic metres per second. Mistake Creek achieves a mean daily flow of 5 cubic metres per second in January, February, March and May. Table 5-2 below summarises wet days per month and reliability of flows for Mistake Creek for the months of December through to March.

Estimated reliability for Mistake Creek indicates that during the wetter months, there are generally 13-18 'wet days' per month where the daily flow exceeds 5 cubic metres per second. The most reliable month for daily flows to exceed 5 cubic metres per second is February. Flows through Mistake Creek exceed 1,000 L/s during all months except July, August and September.

Month	Wet Days (daily flow exceeds 5 cubic metres per second)	Reliability (daily flow exceeds 5 cubic metres per second)
December	13.0	42%
January	17.6	57%
February	17.2	61%
March	18.3	59%
		Source: GHD 2013

Table 5-2 Wet Days per Month for Mistake Creek

The ~114 years of IQQM time series data for the gauge station adjacent to the existing Disney Property intake reports the following statistics for the total volume of water passing the gauge in the wet season of end October to end April as

Table 5-3 Mistake Creek Wet Season Characteristics

follows:

Parameter	Volume (GL)	Comment		
Maximum wet season volume on record	1,270	Year 1973/74		
Average wet season volume	141			
95 th percentile wet season volume	0.6	There are 6 seasons where volumes are less than 0.6 GL: 1911/12, 1930/31, 1934/35, 1941/42, 1944/45, 1968/69		
98 th percentile volume	0.4	There are 3 seasons where volumes are less than 0.4 GL: 1930/31, 1934/35, 1968/69		

In accordance with Figure 1-5, the monthly demand for water peaks between July 2020 and December 2020. While demand begins to decline from December 2020, the reduction is gradual and significant demand is still required up to May 2021 and does not cease until approximately December 2021. As per Figure 5-1, mean daily flows in Mistake Creek peak in February and typically decline through to April, at which point there can be a late season pulse around May.

The proposed duration of the water permit is for 12 months, until 31 May 2021. Based on historical data, flows that achieve the physical control threshold to enter the Disney Property gravity diversion are most likely to occur between January and May each year. Adani is seeking to extend the landholder agreement with the Disney Property owner to continue utilising the remainder of the 1,500 ML extracted under WL 618979 and will be entering a competitive bidding process for supply from Sunwater from 31 August 2020 onwards. The intention is for these sources to cover the supply requirement until the 2,340 ML sought in this permit is obtained during the coming wet season. Seasonality and the risk of supply is a challenge Adani have been addressing through diversifying sources of supply (e.g. water permits, Sunwater allocation, stormwater capture, recycled water reuse) coupled with the efficiency measures listed in Section 1.8. While water from a permit stemming from this application is unlikely to be available prior to February 2021, it will likely be integral to covering the construction supply requirements out to December 2021.

5.1.2 Integrated Quality and Quantity Modelling

The Integrated Quantity and Quality Model (IQQM) is a hydrologic modelling tool developed by the New South Wales Government, with collaboration from the Queensland Government. Its prime purpose is to simulate the impacts of water resource management strategies on flows, so the impacts of various water diversion scenarios can be assessed. In Queensland, IQQM is used to solve multiple supply path problems for long-term water resource planning. (Queensland Government 2018).

IQQM has been subject to widespread and rigorous scientific reviews and is well regarded for its capability to estimate flow volumes (Cullen et al., 2003). The model provides a daily simulation of water flows by representing river systems and flow paths using a series of nodes and links. The nodes represent points of significance of the particular river system (e.g. gauging stations, diversion sites, stream junctions, etc.), and the links simulate flow paths and stream characteristics. IQQM is a rules-based model that includes a large number of 'routines' to simulate different types of diversions. It is also flexible in its range of applications (Queensland Government 2018).

It is understood that the Burdekin ROP IQQM has not been updated since the 2015 assessment. Figure 5-2 shows the node diagram for the Belyando River and Suttor River (including all tributaries) extracted from Burdekin ROP IQQM. As part of this application, the current active water licences in the 2019 Burdekin Basin Water Entitlement Notice were reviewed and compared to the Burdekin ROP IQQM. The review indicates several active water entitlements within the Belyando River and Suttor River catchments are higher than the Burdekin ROP IQQM and a few new water licences which have not been included in the Burdekin ROP IQQM. Table 5-4 shows the locations and differences between the current active water licences and Burdekin ROP IQQM. The Burdekin ROP IQQM was updated to include the current major water entitlements and forms the Base Case for the assessment of this Mistake Creek water permit application.

The granted water licence (reference WL 617268) to take 12,500 ML (10,800 ML mean annual volume) from the Suttor River of the Burdekin Basin adjacent to Lot 3 on SP27855 is currently in review by the DAWE and is highly unlikely that any water will be taken under this licence during the period of this Mistake Creek water permit application. Nevertheless, the extraction volumes under water licence (WL 617268) have been included in the Base Case IQQM model to account for all active licence (utilised or unutilised) in the system.

As part of the original water permit application, the Disney extraction location on Mistake Creek was modelled in the Burdekin ROP IQQM immediately upstream of the confluence with Belyando River (node 275 in Figure 5-2) and to conditions presented in Table 5-4. The proposed taking of water from the Mistake Creek as discussed in Section 1.5 was added to the Base Case IQQM as the Proposed Mistake Creek Case. The model was updated in such a way that the proposed Disney extraction occurs after all existing licenced extractions from Mistake Creek and precede the Mistake Creek system routing.

Appendix A summarises the IQQM results of the Base Case and Proposed Mistake Creek Case against the Burdekin WRP and ROP EFO and WASO targets. The IQQM results are consistent with the Burdekin WRP and ROP EFO and WASO targets. For clarity, WASOs are objectives that may be expressed as performance indicators and are stated in a WRP to ensure protection of a water entitlement to obtain water in accordance with a water allocation. The IQQM indicates no significant impact on water levels and major downstream water users.



Figure 5-2 Excerpt from Burdekin ROP IQQM Node Diagram

Table 5-4	IQQM Modelled Extract	tion Conditions

Water Allocation Reference	Lot on Plan	Nominal Entitlement Modelled in the Burdekin ROP IQQM (per water year)	Current Nominal Entitlement (per water year)	Daily Volumetric Limit	Property Name	IQQM Node Number
101981	1/SP210553	10,000 ML	12,500 ML	1,468.8 ML	Logan Creek	216 ª
620908, 41234F	2/CP882192	9,287 ML	12,377 ML	371.5 ML	Mistake Creek	256 °
0426439F	5070/PH1056	1,728 ML	3,700 ML	86.4 ML	Mistake Creek	262 ª
45019A	3/SP278559	-	430 ML	6 ML	Belyando Junction	292 ^{a,c}
52426A	22/SP218335	3,888 ML	4,800 ML	43.2 ML	St Anns	300 ª
57220A, 57382A, 57383A	5060/PH387	1,150 ML	1,300 ML	56.2 ML	Rosetta Station	302 ª
617345	3/SP278704, 662/SP308960	-	125 ML	3 ML	Belyando River	741 ^b
617268	3/SP278559		12,500 ML	830 ML	Belyando Junction	744 ^b
621164	682/CP906890	-	2,800 ML	217 ML	Suttor Creek	745 ^b
32098AF	3/RP617023	-	300 ML	15.6 ML	Logan Creek	746 ^b
^a existing node in IC	QM					

^b new node in IQQM

^c same location as node 292, entitlement added to the existing node 292

5.2 Major Water Uses

The closest landholder to the extraction locations is TJ Kirkwood who is located on the Disney property as previously described in this report. Currently, this property has two water licences for water harvesting to take water from Mistake Creek. The details of these licences include:

- A gravity diversion licence (57847F) to take overland flow from Mistake Creek. When the height of the creek
 reaches a certain level (exceeding crest level of 194.67m) the water flows into the gravity diversion and is used for
 domestic/agricultural purposes by the licence holder; and
- A licence to take water from the gravity diversion (057819F) into the ring tank via six pumps. This is only possible when the flow in the Mistake Creek is more than 5 cubic metres per second.

Mistake Creek provides a reliable source of water for the current licence holder. IQQM modelling detailed in Section 0 indicates no significant impact on water levels and major water users as defined under the Burdekin WRP and ROP EFOs and WASOs.

A section of Mistake Creek and the Belyando River (between Disney Dam and Llanarth Station Dam) has been provided in Figure 5-3 below to indicate immediate downstream users.





Figure 5-3 Water Users Immediately Downstream of the Proposed Disney Property Extraction Point

5.3 Environmental Considerations

Under the Burdekin WRP, a list of ecological outcomes is identified for the sustainable management of water within the plan area. These ecological outcomes are:

- To maintain the natural variability of flows that support the habitats of native plants and animals and migratory birds in watercourses, floodplains, wetlands, lakes and springs;
- To provide for the continued capability of one part of a river system to be connected to another, including by maintaining flood flows that—
 - allow for the movement of native aquatic fauna between riverine, floodplain, wetland, estuarine and marine environments; and
 - deliver nutrients and organic matter throughout the plan area to support natural processes such as breeding, growth and migration in riverine, floodplain, wetland, estuarine and marine environments; and
 - deliver water and sediments throughout the plan area to support river-forming processes;
- To minimise changes to natural variability in water levels and to support natural ecological processes, including maintaining refugia associated with waterholes and lakes particularly in the Belyando-Suttor sub-catchment;
- To promote improved understanding of the matters affecting the flow-related health of ecosystems in the plan area;
- To maintain flooding in the Lower Burdekin and Haughton sub-catchments to provide freshwater inputs to wetlands on the Burdekin Haughton floodplain;
- To provide a flow regime that—
 - maintains delivery of fresh water to the estuaries of watercourses and the Great Barrier Reef Lagoon; and
 - maintains natural sedimentation processes to support the replenishment of beaches along the Burdekin Haughton floodplain and Cape Bowling Green; and
 - supports productivity in the receiving waters of the Great Barrier Reef and inshore reefs.

The aquatic ecosystem values of parts of the Belyando/Suttor Rivers subcatchments are considered to be Slightly to Moderately Disturbed as a result of cattle grazing (GHD, 2012). The vegetation assessment shows that approximately 50% of the entire Belyando River/Suttor River catchment areas had less than 50% ground cover.

The potential impacts of the proposed water extraction will therefore be mainly related to environmental purposes and ensuring there is sufficient flow of water through Mistake Creek during periods of low flow. As previously identified, the physical constraint of the weir adjacent to the gravity diversion means that Mistake Creek flows must reach 430 ML/d in order for water to fill the channel and be extracted. Therefore, minimum downstream flows will be maintained.

5.4 Existing Environment

This section provides a precis of the existing aquatic environments within the Project catchment. Information has been obtained from the CCMR EIS and the NGBR EIS. For the purpose of this section, aquatic fauna includes fish, freshwater turtles, aquatic macroinvertebrates and mammals that are entirely confined to or spend extended durations in aquatic

environments. As a consequence of the surrounding cattle grazing land use (dominated by cattle grazing), the aquatic ecosystem values of the Belyando River sub-catchment is considered to be 'slightly to moderately disturbed'.

5.4.1 Fish Species

Desktop studies and field site surveys have identified approximately 17 freshwater fish species (see Table 5-5) that have the potential to occur in Mistake Creek. Of these 17 species, none are listed under the EPBC Act or the NC Act. The 17 fish species do not require a passage for migratory purposes beyond their freshwater habitat. Dispersal rates are likely to be maximised following flood peaks as waters recede.

Field investigation at the Carmichael Coal Mine site recorded 10 of the 17 species detailed in Table 5-5. All are common freshwater species which have been previously recorded in the upper Burdekin Catchment. Agassiz's glassfish (*Ambassis agassizii*) and Midgley's carp gudgeon (*Hypseleotris species 1*) were the most commonly recorded species during field surveys at the Carmichael Coal Mine site though were detected only at locations with macrophytes and no flow. Other species captured in the vicinity of the Carmichael Coal Mine site included Purple-spotted gudgeon (*Mogurnda adspersa*), Sleepy cod (*Oxyeleotris lineolata*), Eastern rainbowfish (*Melanotaenia splendida splendida*), Hyrtl's tandan (*Neosilurus hyrtlii*), Spangled perch (*Leiopotherapon unicolor*), Fly speckled hardyhead (*Craterocephalus stercusmuscarum*), Western carp gudgeon (*Hypseleotris klunzingeri*) and Bony bream (*Nematalosa erebi*). These field investigation results may be considered representative of the fish communities found in the downstream Mistake Creek at the location of the proposed water extractions.

All of the 17 fish species are potamodromous, meaning they only migrate within fresh water, and so do not require a passage beyond their freshwater habitat for migratory purposes. Maximum dispersal rates for most of these species are likely to occur following flood peak as waters recede. It is therefore important that natural flood flows are maintained.

Status ¹	Scientific Name	Family	Common name	Size ²	Habitat ³
Present	Craterocephalus stercusmuscarum Ambassis agassizii	Atherinidae Chandidae Eloteridae	Fly-specked hardyhead Agassiz's glassfish Midgley's carp gudgeon	S S S	All All All
	Hypseleotris sp. Mogurnda adspersa Oxyeleotris lineolata Melanotaenia splendida splendida Neosilurus hyrtlii Leiopotherapon unicolor	Melanotaeniidae Plotosidae Terapontidae	Southern Purple-spotted gudgeon Sleepy cod Eastern rainbowfish Hyrtl's tandan Spangled perch	M L L L	Ali Slow Ali Ali Ali
Possible	Nematalosa erebi Hypseleotris klunzingeri Philypnodon grandiceps Macquaria ambigua Neosilurus ater Neosilurus mollespiculum Porochilus rendahli Scortum parviceps Toxotes chatareus	Clupeidae Eloteridae Percichthyidae Plotosidae Terapontidae Toxotidae	Bony bream Western carp gudgeon Flathead gudgeon Golden perch Black catfish Soft-spined catfish Rendahl's catfish Small-headed grunter Seven-spotted archerfish	M S L L M M L L	All All Slow Slow Fast Slow Fast Slow

Table 5-5 Fish Species Listed as Potentially Inhabiting Mistake Creek

```
<sup>1</sup> Present = recorded as present at either the mine or rail survey sites, Possible = project EIS desktop search predicted

<sup>2</sup> Size as adult, S = small (<10cm), M = medium (10-20cm), L = large (>20cm)

<sup>3</sup> Slow = relatively still and slow waters, Fast = relatively swift moving water
```

Similarly, other studies by in the catchment found seven fish species in the Suttor River in May 2012 and a further three species in December 2013 (Amec 2013). Of the ten species found, eight were native to the project area, one was a translocated native (*Oxyeleotris lineolata*: sleepy cod) and one was an introduced pest species (*Oreochromis mossambicus*, tilapia). None of the endemic fish species are listed as threatened in either State or Commonwealth legislation.

5.4.2 Reptiles

There are seven aquatic reptiles that are known to inhabit the Burdekin Basin (GHD 2012; DES 2019):

- Cann's long-necked turtle (*Chelodina canni*);
- Eastern long-necked turtle (Chelodina longicollis);
- Irwin's turtle (Elseya irwini);
- Krefft's river turtle (Emydura macquarii krefftii);
- Saw-shelled turtle (Wollumbinia latisternum);
- Freshwater crocodile (Crocodylus johnsoni); and
- Estuarine crocodile (Crocodylus porosus).

Five of the above are freshwater turtle species. They are known to inhabit a variety of habitats ranging from ephemeral waterholes and pools to structurally complex rivers and creeks. Irwin's turtle is not expected to occur in or near the extraction location. Krefft's river turtle and an unidentified long-necked turtle species were identified in the wider area during surveys (GHD 2012).

Estuarine crocodile occurs within the lower reaches of the Burdekin basin below the Burdekin Dam. Freshwater Crocodile has been reported as occurring in the Burdekin Dam but generally occurs much further west and north-west of the Project. Neither crocodile species is considered likely to be found in the Project area.

All of the above species are listed under the NC Act as least concern with the exception of the estuarine crocodile, which is listed as vulnerable under the NC Act and marine/migratory under the EPBC Act.

5.4.3 Aquatic Macroinvertebrates

Crustacean species encountered during trapping in the Carmichael River and Cabbage Tree Creek (in the adjacent Belyando River system) included redclaw (*Cherax quadricarinatus*). This is a common and widespread species found in a variety of habitats including farm dams. Crab shells of the Family Parathelphusidae were encountered in several habitats including offstream habitats such as gilgais (GHD 2012).

Aquatic macroinvertebrate sampling was undertaken across two seasons at four sites along the Carmichael River and one site along Cabbage Tree Creek. A total of 230 individuals were collected from 41 families of aquatic macroinvertebrates across the five sites sampled for the CCMR EIS. The highly variable and unpredictable environmental conditions of the river systems represented in the Burdekin Catchment are reflective of the relatively low macroinvertebrate diversity and community composition found there (Parsons Brinkerhoff 2009).

The species detected have habitat preferences that include aquatic vegetation, woody debris, root balls and detritus, which were characteristics more prevalent on the Carmichael River where a greater diversity was detected. However, a uniform sandy substrate, as detected in the Carmichael River, is expected to substantially influence the low macroinvertebrate community diversity.

The habitat that were sampled during macroinvertebrate sampling for the CCMR EIS are very likely to be similar to those intersected by the Project. It is likely, given the diversities observed during the surveys, the diversity of macroinvertebrates in waterways within or near the Project area will be relatively low and similar to those found in the Carmichael River. Exceptions may be where sites offer a diverse range of micro habitats including stags, woody debris and macrophytes.

5.4.4 Mammals

There are two aquatic mammal species whose distribution occurs in the Burdekin Catchment: the platypus (*Ornithorhynchus anatinus*) and water rat (*Hydromys chrysogester*) (Van Dyck, 2008; DES 2019). Platypus is listed as 'special least concern' wildlife under the NC Act. Platypus inhabits freshwater environments, with a preference for areas that have steep, well vegetated banks. The species requires permanently inundated waterbodies that support resources necessary for burrowing (i.e. earthen banks consolidated by the roots of riparian vegetation, overhanging vegetation, undercut banks (Grant and Temple-Smith, 1998). Streams in the Project area are unlikely to provide suitable habitat characteristics for platypus. In the Burdekin Basin the species is only known to occur in the upper reaches of the Bowen River sub-catchment.

It is not considered likely the species occurs in the region or that suitable habitat exists at the extraction point to support platypus. Water rat is a versatile species that can be found in a variety of fresh and brackish water environments including rivers / creeks, lakes, swamps and dams. The species spends much of its time in burrows located in banks lining the waterbody. It forages on a variety of aquatic prey preferring crustaceans and mussels. The species has been observed in the wider area surrounding the Project during surveys for infrastructure for the CCMR EIS (CDM Smith 2014).

5.4.5 Vegetation

5.4.5.1 Macrophytes and Other Aquatic-dependent Flora

Aquatic-dependent flora includes both riparian and macrophyte species and are defined as: 'Those species that are adapted to and dependant on living and wet conditions for at least part of their lifecycle and found either within or immediately adjoining a non-riverine or riverine wetland' (Rollason and Howell 2012).

The Great Barrier Reef Catchment's Aquatic Conservation Assessments (ACA) (November 2011) for both riverine and non-riverine wetlands identify aquatic-dependent flora within the Burdekin catchment as follows:

- Burdekin Basin:
 - Riverine wetlands: 54 native species, 17 exotic species; and
 - Non-riverine wetlands: 128 native species, 16 exotic species (with some overlap of species between riverine and non-riverine wetlands).

Wildlife Online database searches, carried out as part of previous investigations for the CCMR, and an updated search completed on 21 February 2020, found that 42 aquatic flora species had been previously recorded in the wider area. The majority of these species (37) are listed as least concern under the NC Act (37) with none of the 42 species listed under the EPBC Act. Several macrophyte species have been identified during field investigations for the CCMR and the CRN projects. The following are the species identified during field investigations:

- White smartweed (Persicaria attenuate);
- Swamp lily (Ottelia ovalifolia);
- Dirty dora (Cyperus difformis);
- Monochoria (Monochoria cyanea);
- Typha sp;
- Juncus sp:
- Lomandra sp;
- Water hyacinth (Eichhornia crassipes);
- Yellow flatsedge (Cyperus flavidus);
- Small flower umbrella sedge (Cyperus difformis); and
- Tall flatsedge (*Cyperus exaltatus*).

5.4.5.2 Riparian Vegetation

Riparian vegetation and in-stream habitats are important as they provide protection from predators as well as foraging and nesting resources for aquatic fauna, including fish, reptiles, and macroinvertebrates. The broad vegetation community associated with fringing riparian vegetation is woodland/open forest fringing watercourses with a grassy understorey. Field surveys for the NGBR EIS found that, in general, riparian areas throughout the landscape appeared to be particularly susceptible to weed invasion, with a number of weed infestations noted. Introduced fauna or evidence of introduced fauna was common, particularly in riparian areas. The riparian zones of the waterway crossings in the Project area are dominated by coolabah (*Eucalyptus coolabah*) and river red gum (*E. camaldulensis*) (RE11.3.25 and RE11.3.37).

5.4.6 Potential Impacts

The existing pump equipment in the offtake channel may directly result in the entrapment and subsequent injury or death of aquatic species; however, given the presence of aquatic flora and fauna would be infrequent (occurring only as part of system floods that overtop the weir) this impact is likely to be uncommon. Opportunistic aquatic flora and fauna are tolerant of significant disturbance events and can recolonise and regenerate when conditions are right and thus operational noise and vibrations caused by the existing pump station is likely to have a minimal effect on the aquatic environment especially considering the distance of the infrastructure from the main channel. Furthermore, the Disney property extraction weir and the high velocity flows both create an obstacle to the entrance of fish species into the diversion channel.

It is expected that the extraction of water from Mistake Creek will not significantly impact the fish species that currently inhabit the waterway and should not cause any impact to species listed under the EPBC Act or the Queensland NC Act.

Activities related to the placement of the temporary intake pumps and intake pipelines will occur on an existing irrigation channel and will not require clearing of riparian vegetation along the western banks of the Mistake Creek. The vehicle movements in the general storage area and placement of the pipelines may result in minor erosion and an increase in sediment loads within the watercourse immediately surrounding the site. However, a range of erosion and sediment control measures will be implemented during construction to manage this potential impact.

Chemical spills or low-level exposure of the aquatic environment to chemicals (e.g. run-off from machinery) would most likely involve hydrocarbon products such as fuels and lubricants. Fuels and chemicals will be stored, transported, handled and used in accordance with relevant legislation, regulations, standards and guidelines. As such, the risk of spillage would be low.

The potential impact of extracting the proposed quantity of water has been addressed in the IQQM assessment and shown to comply with the Burdekin WRP and ROP EFO and WASO targets.

CRN will be utilising an existing pump and containment system on Mistake Creek and will only be implementing minor pumping equipment on an irrigation channel attached to the dam. This minor equipment will be located approximately 2 km from the main channel and 1.2 km from the high flow channel. Thus, CRN will not be placing additional infrastructure within Mistake Creek, nor undertaking any extraction related activities (i.e. vehicle movements) in the riparian area. While this approach will eliminate most risks from the extraction, CRN proposes to implement a range of standard management measures (identified in Table 5-6 extraction) to reduce residual risks as far as practicable.

5.5 Potential Environmental Impacts and Management Measures

The potential environmental impacts for the proposed water extraction and the corresponding management measures are identified in Table 5-6 below.

Potential Impacts	Management Measures			
Potential weed invasion from plant movement in sensitive areas, particularly along watercourses.	A biosecurity management plan has been developed for the CRN Project and the management measures within that plan will be adhered to for the activities related to transporting water from the site. Measures include weed wash downs for all mobile plant.			
Riparian zone clearing - may lead to a loss of habitat connectivity across the study area, and habitat fragmentation.	No clearing is required for the proposed works. Therefore, no specific management measures are necessary.			
Disturbance of watercourse resulting in increased erosion and sediment transport to downstream areas impacting water quality.	No additional infrastructure is proposed to be constructed or placed in Mistake Creek. CRN will minimise any runoff and sedimentation from the extraction location on the Disney property. All pipes and storage devices will be checked regularly for leaks that may cause scouring and erosion.			
Noise, vibration and dust (associated with operation equipment) – may mean some species avoid areas they currently utilise	Where necessary, CRN will utilise water spray truck for dust suppression on the transport route from the extraction point on Disney Property (point in the irrigation canal). New pumps will be located away from sensitive receptors where possible.			
	The existing weir on Mistake Creek prevents the take of any water until a flow rate or 430 ML/d is reached. There will be no change to this existing arrangement. The existing flow meters will be utilised to record all water take.			
Impacts on environmental flows during extraction.	CRN equipment on the Disney Property that contain chemicals and low quantities of fuel (e.g. drums) will be appropriately bunded. Clean up spills immediately and dispose of contaminated soil and clean-up materials off site at an appropriate facility.			
Impacts on downstream water users (stock, domestic, irrigation) during	Impacts on downstream users will not occur as a result of the quantity of water extracted (based on IQQM). Thus, management measures to address this potential impact are focused on preventing contamination of the water (e.g. from sediment or chemicals).			
extraction.	Erosion and sediment controls will be put in place during construction and operation. Clean water will be diverted around any cleared and exposed site for the water extraction plant.			
	Standard erosion and sediment controls will be implemented at CRN's extraction point on the Disney Property (at the irrigation canal).			
Impacts to downstream riparian	All pipes and storage devices will be checked regularly for leaks that may cause scouring and erosion.			
	Refuelling and servicing of vehicles and plant will not be permitted near Mistake Creek. CRN equipment on the Disney Property that contain chemicals and low quantities of fuel (e.g. drums) will be appropriately bunded. Spills will be cleaned up immediately and contaminated soil disposed of offsite at an appropriate facility.			

Table 5-6 Potential Environmental Impacts and Management Measures

Potential Impacts	Management Measures
Impacts to cultural heritage	As per the cultural heritage management plan, if further ground disturbance is required, a cultural heritage survey may be carried out prior to site access, and if required a mitigation plan for any artefacts will be developed and implemented. Potential impacts upon cultural and spiritual values of the watercourse and downstream areas will be managed by limiting the take of water to that assessed in the IQQM and implementing the abovementioned measures to prevent contaminants entering the watercourse (e.g. sediment or chemicals). These measures should adequately protect cultural values listed in the <i>Water Act 2000</i> , including aesthetic, historical, scientific, social and other aspects of significance to past, present or future generations.
	The take of water will be measured through a flow meter and no exceedance of the threshold values included in the water permit will be allowed.

Publichedon Actions

Section 6 Native Title

The extraction site is located within the area covered by the Jangga ILUA area. The ILUA includes provisions for the Jangaa people to agree and consent to 'Project activities'.

Project activities are broadly defined in the ILUA to include the construction and maintenance of roads, water pipelines, or any other structure necessary for the Project, and grants of approvals.

CRN notes that the Jangga will have to consent to the necessary approvals regarding water for construction and operation of the Project.

CRN has an agreed in accordance with the cultural heritage management plan, cultural heritage survey will be carried out prior to new site access, and if required a mitigation plan for any artefacts will be developed and implemented.

Section 7 Summary and Conclusions

This document has outlined the potential effects of taking water on the natural ecosystems along with the effects on the physical integrity of the Mistake Creek.

The aquatic ecosystem values of parts of the Belyando/Suttor Rivers sub-catchments are considered to be Slightly to Moderately Disturbed as a result of cattle grazing. The vegetation assessment shows that approximately 50% of the entire Belyando River/Suttor River catchment areas had less than 50% ground cover.

The proposed water extraction has been assessed against the Burdekin ROP IQQM. The IQQM outputs are assessed in this report against the Burdekin WRP and EFO and WASO for compliance. The assessment found that taking water from Mistake Creek for a foreseeable duration would not adversely impact on existing water allocations and environmental flow objectives required to maintain existing ecosystems as measured against the Burdekin ROP and WRP targets and objectives. This is qualified by IQQM results that show consistency with the Burdekin ROP and WRP objectives and targets, and negligible change in EFO results between the base case and simulated proposed case.

A summary of the information required to support this water permit application is provided in Table 7-1.

Number of Extraction Locations	One (refer to Figure 1-4 for proposed surface	water extraction location)								
Purpose	Construction and operation of the Project inf general civil works)	frastructure (rail, roads, quarries, worker and								
Dates of commencement and conclusion of water extraction activities	31 May 2020 – 31 May 2021	<u>S</u>								
Watercourse Source	Mistake Creek									
Location (GDA94 – MGA55)	Easting 487775.08	Northing 7588794.21								
Adjacent Properties (refer to Figure 1-3)	Lot 4 SP116046									
Maximum Rate of Extraction	6,500 L/s(1) (561.6 ML/d)									
Required Water Quality	The majority of water will be used during cor dust suppression. Any water used for other p standards before use.	nstruction for earthworks conditioning and ourposes will be treated to the appropriate								
Volume Required/Year (Total)	1,800 ML + 30% contingency (Total maximun	n volume of 2,340 ML)								
Permit Timeframe	12 months									

Table 7-1 Summary

(1) Based on existing pump capacity

Section 8 References

Amec 2013, Byerwen Coal Mine Environmental Impact Statement, Report for Aquatic Ecology, Prepared for QCoal Group.

CDM Smith 2014, Moray Power Project – Environmental Assessment Report, Appendix A – Moray Power Applications. Prepared for Adani Mining Pty Ltd (November 2014).

Cullen, P, Marchant, R, Mein, R 2003, Review of Science Underpinning the Assessment of the Ecological Condition of the Lower Balonne System, *Report to the Queensland Government Independent Scientific Review Panel*, ISBN 0 7345 2448 XQNRM03025

DES 2019, Species profile search, Department of Environment and Science, 2019, Queensland Government. Accessed on: https://apps.des.qld.gov.au/species-search/.

GHD 2012, Carmichael Coal Mine and Rail Project Environmental Impact Statement, Rail, Volume 3, Chapter 6 – Water Resources.

GHD 2012a, Carmichael Coal Mine and Rail Project Environmental Impact Statement, Appendix AB, Rail Hydrology Report (technical report).

GHD 2013a, Carmichael Coal Mine and Rail Project, Supplementary Environmental Impact Statement Appendix C3i, SP1 Construction Water Application.

GHD, 2013b, Carmichael Coal Mine and Rail Project, Supplementary Environmental Impact Statement Appendix C4e, Surface Water Licence Application for River Flood Harvesting.

GHD 2013c, Carmichael Coal Mine and Rail Project, Supplementary Environmental Impact Statement Appendix C3h, Watercourse Determination for Project (Rail).

GHD 2013d, Carmichael Coal Mine and Rail Project, Supplementary Environmental Impact Statement Appendix S1a, Rail Hydrology Report.

Grant, T.R. and Temple-Smith P.D, 1998, Field biology of the platypus (ornithorhynchus anatinus): historical and current perspectives, Philosophical Transactions of the Royal Society, Biological Sciences Vol. 353, pp. 1081-1091.

Parsons Brinckerhoff 2009, Water for Bowen EIS, Report prepared for SunWater.

Queensland Government 2018, Queensland Water Modelling Network Catalogue: A catalogue of water model used by the Queensland Government, Prepared Dr Chris Carroll Professor Bofu Yu Australian Rivers Institute, Griffith University for the Department of Environment and Science.

Rollason, S.N and Howell, S, 2012, Aquatic Conservation Assessments (ACA), using AquaBAMM, for the nonriverine wetlands of the Great Barrier Reef catchment, Version 1.3. Published by the Department of Environment and Resource Management, Brisbane.

Van Dyck, S, 2008, The Mammals of Australia, Third Edition, Published by Reed New Holland, Australia.

Appendix A – Mistake Creek IQQM EFO and WASO Results



WATER ALLOCATION SECURITY OBJECTIVES

WASO statistics are calculated for the water year (Jul-Jun) and for the period 1890 - 2004.

			Р	ART 1 - SUI	PPLEMENT	ED WATER	2	SUF
			OBJECTIVE 1	OBJECTIVE 2	OBJECTIVE 3	OBJECTIVE 4	OBJECTIVE 5	OBJECTIVE
OBJECTIVE (PART)	ANNUAL AND MONTHLY SUPPLEMENTED WATER SHARING INDEX		HIGH PRIORITY GROUP IN THE BHWSS	MEDIUM PRIORITY GROUP IN THE BHWSS	HIGH A1 (BOWEN RIVER WEIR) PRIORITY GROUP IN THE BBWSS	HIGH A2 (EUNGELLA DAM) PRIORITY GROUP IN THE BBWSS	MEDIUM PRIORITY GROUP IN THE BBWSS	HIGH PRIORITY GROUP II THE BHWS
	WEIGHTED MEAN ANNUAL	BH020R ROP Updated BASE CASE	100	90	96	91	68	100
(A)	RELIABILITY (% of YEARS)	<u>BH020R</u> Proposed Mistake Creek Case	100	90	96	91	68	100
	WEIGHTED MEAN	BH020R ROP Updated BASE CASE	100	96	99	98	88	100
(B)	of MONTHS)	BH020R Proposed Mistake Creek Case	100	96	99	98	88	100

Note:

BHWSS - Burdekin Haughton Water Supply Scheme BBWSS - Bowen Broken Water Supply Scheme

Must Be Within Range



SUPPLI	EMENTED WSI	MUST BE AT LE	EAST WRP Targ	jet (%)
OBJECTIVE 1	OBJECTIVE 2	OBJECTIVE 3	OBJECTIVE 4	OBJECTIVE 5
HIGH PRIORITY GROUP IN THE BHWSS	MEDIUM PRIORITY GROUP IN THE BHWSS	HIGH A1 (BOWEN RIVER WEIR) PRIORITY GROUP IN THE BBWSS	HIGH A2 (EUNGELLA DAM) PRIORITY GROUP IN THE BBWSS	MEDIUM PRIORITY GROUP IN THE BBWSS
100	90	95	90	65
100	95	98	98	85

WATER ALLOCATION SECURITY OBJECTIVES

WASO statistics are calculated for the water year (Jul-Jun) and for the period 1890 – 2004.

				PART 2 -	UNSUPPL	EMENTED) WATER	UNSUPPLEM	ENTED WSI MUST	BE AT LEAST W	RP Target (%)
WRP WAG	WATER ALLOCATION GROUP	I QQM NODE NO.		- OBJECTIVE 6 - COLUMN 2	- OBJECTIVE 6 - COLUMN 3	- OBJECTIVE 6 - COLUMN 3	- OBJECTIVE 7 - COLUMN 2	- OBJECTIVE 6 - COLUMN 2	- OBJECTIVE 6 - COLUMN 3	- OBJECTIVE 6 - COLUMN 3	- OBJECTIVE 7 - COLUMN 2
				30% WATER SHARING INDEX (%)	50% WATER SHARING INDEX (%)	70% WATER SHARING INDEX (%)	ANNUAL VOLUME PROBABILITY (%)	30% WATER SHARING INDEX (%)	50% WATER SHARING INDEX (%)	70% WATER SHARING INDEX (%)	ANNUAL VOLUME PROBABILITY (%)
۸1		465, 483, 500, 501, 502,	BHO2OR ROP Updated BASE CASE	107	107	107	89	107	107	107	95
AT	LOWER BURDENIN	651, 656, 657, 542	<u>BH020R</u> Proposed Mistake Creek Case	107	107	107	89	107	107	107	00
D1			BHO2OR ROP Updated BASE CASE	107	107	107	91	107	107	107	OF
ВТ	HAUGHTON	578, 007, 013	<u>BH020R</u> Proposed Mistake Creek Case	107	107	107	91	107	107	107	65
	DOWEN	100, 151	<u>BHO2OR</u> ROP Updated BASE CASE	111	111	110	79		110		
CT	BOMEN	430, 451	<u>BH020R</u> Proposed Mistake Creek Case	111	C 1U	110	79	110	110	110	/5

Note:

Must Be Within Range

Pulpiistisclo Act

ENVIRONMENTAL FLOW OBJECTIVES

EFO statistics are calculated for the water year (Jul-Jun) and for the period 1890 - 2004.

				PART 1 - LOW FLOW OBJECTIVES											PART 2 – MEDIUM TO HIGH FLOW OBJECTIVES								
				- TABLE 1 - COLUMN 2	- TABLE 1 - COLUMN 3	- TABLE 1 - COLUMN 4	- TABLE 2 - COLUMN 2	- TABLE 2 - COLUMN 3	- TABLE 2 - COLUMN 4	- TABLE 2 - COLUMN 5	-	- TABLE 3 - COLUMN 2	- TABLE 3 - COLUMN 3	- TABLE 3 - COLUMN 2	- TABLE 3 - COLUMN 3	- TABLE 3 - COLUMN 4	- TABLE 3 - COLUMN 5	- TABLE 3 - COLUMN 6	- TABLE 4 - COLUMN 2				
NODE NO.	LOCATION	NODE NO.		PD 50%ILE DAILY NON- ZERO FLOW (%)	PD 80%ILE DAILY NON-ZERO FLOW (%)	PERCENT OF TIME DAILY ZERO FLOW (%)	SEASON 1 (Jan-Mar): 80th %ILE NON-ZERO FLOW (%)	SEASON 2 (Apr-Jun): 80th %ILE NON-ZERO FLOW (%)	SEASON 3 (Jul-Sep): 80th %ILE NON-ZERO FLOW (%)	SEASON 4 (Oct-Dec): 80th %ILE NON-ZERO FLOW (%)	NUMBER OF 30 DAY (1 MONTH) ZERO FLOW SPELLS	NUMBER OF 30-182 DAY (1-6 MONTH) ZERO FLOW SPELLS	NUMBER OF 182 DAY (6 MONTHS) ZERO FLOW SPELLS	MEAN ANNUAL FLOW (% OF PD CASE)	MEDIAN ANNUAL FLOW (% OF PD CASE)	1.5 YEAR DFV (% OF PD CASE)	5 YEAR DFV (% OF PD CASE)	20 YEAR DFV (% OF PD CASE)	APFD				
				1,558	342	N/a	342	342	342	342	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a				
1	Burdekin River at river mouth (AMTD 0.0 km)	540	BH020R ROP Updated BASE CASE	27	67	4	93	85	45	45	4	4	0	79	65	55	80	87	2.6				
			BH020R Proposed Mistake Creek Case	27	67	4	93	85	45	45	4	4	0	79	65	55	80	87	2.6				
				203	39	N/a	39	39	39	39	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a				
2	Haughton River at river mouth (AMTD 0.0 km)	621	BH020R ROP Updated BASE CASE	17	35	56	76	41	10	16	184	144	40	93	89	96	99	100	1.6				
	· · ·		BH020R Proposed Mistake Creek Case	17	35	56	76	41	10	16	184	144	40	93	89	96	99	100	1.6				
	Burdekin River at			873	171	N/a	171	171	171	171	NYa	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a				
8	the upstream limit of the impounded area of the	196	BH020R ROP Updated BASE CASE	44	70	14	97	87	49	46	58	57	1	98	97	99	100	100	0.5				
	Burdekin Falls Dam		BH020R Proposed Mistake Creek Case	44	70	14	97	87	49	46	58	57	1	98	97	99	100	100	0.5				
				275	52	N/a	52	52	52	52	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a				
10	Cape River at the Suttor River confluence (AMTD	308	BH020R ROP Updated BASE CASE	27	43	47	77	39	21	34	168	165	3	99	98	98	100	100	0.2				
	0.0 km)		BH020R Proposed Mistake Creek Case	27	43	47	77	39	21	34	168	165	3	99	98	98	100	100	0.2				
	Suttor River at the			661	100	N/a	100	100	100	100	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a				
11	upstream limit of the impounded area of the	347	BH020R ROP Updated BASE CASE	32	53	33	86	50	30	46	119	118	1	92	88	95	97	98	1.0				
	Burdekin Falls Dam		BH020R Proposed Mistake Creek Case	32	53	33	86	50	30	46	119	118	1	92	88	95	97	98	1.0				
	Bowen River at			344	80	N/a	80	80	80	80	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a				
12	the upstream limit of the impounded area of the Blue	453	BH020R ROP Updated BASE CASE	41	64	10	86	82	49	37	33	33	0	96	95	98	100	99	0.4				
	Valley Weir		BH020R Proposed Mistake Creek Case	41	64	10	86	82	49	37	33	33	0	96	95	98	100	99	0.4				

	EQUALLED C WRP Ta	DR EXCEEDED rget (%)	NOT MORE THAN WRP Target	M	JST BE AT LEAS	ST WRP Target (S	%)	NOT MORE Tar	THAN WRP get	Ν	/UST BE AT	LEAST WR	P Target (%	5)	NOT MORE THAN WRP Target
WRP No.	PD 50%ILE DAILY NON- ZERO FLOW (%)	PD 80%ILE DAILY NON- ZERO FLOW (%)	PERCENT OF TIME DAILY ZERO FLOW (%)	SEASON 1 (Jan-Mar): 80th %ILE NON-ZERO FLOW (%)	SEASON 2 (Apr-Jun): 80th %ILE NON-ZERO FLOW (%)	SEASON 3 (Jul-Sep): 80th %ILE NON- ZERO FLOW (%)	SEASON 4 (Oct-Dec): 80th %ILE NON-ZERO FLOW (%)	NUMBER OF 30-182 DAY (1-6 MONTH) ZERO FLOW SPELLS	NUMBER OF 182 DAY (6 MONTHS) ZERO FLOW SPELLS	MEAN ANNUAL FLOW (% OF PD CASE)	MEDIAN ANNUAL FLOW (% OF PD CASE)	1.5 YEAR DFV (% OF PD CASE)	5 YEAR DFV (% OF PD CASE)	20 YEAR DFV (% OF PD CASE)	APFD
01	24	65	5	92	84	45	44	11	0	75	59	50	79	86	2.9
02	15	26	66	64	29	4	9	144		92	88	95	99	99	1.8
08	44	69	15	-	-	ish		57		97	96	99	99	99	0.6
10	25	41	49	-	2		R	165	3	98	97	98	99	99	0.2
11	32	52	35	-	-	-	-	118	1	92	88	94	96	98	1.0
12	32	62	15	85	81	46	35	54	2	82	80	92	86	86	1.2

Appendix B – Water Strategy Supply Sources, Quantities Sought and Associated Risks

sublished on the 2009

Water Source	Quantity	Risk	Notes
Mistake Creek WL 618979	1,500 ML	 Agreement expires 15 October 2020 for remaining water extracted under WL 618979. Extension of agreement is actively being progressed but not yet confirmed at time of this application. 	 Adani is currently working to extend the arrangement with Landholder who is storing remainder of 1,500 ML. This current volume of water will be exhausted whether utilised or not by 15 October 202 unless effective arrangements can be made to extend the sunset date of the agreement which Adani is actively pursuing with the landholder but not finalised at the time of the application.
Sunwater	1,270 ML	 Agreement with provider expires in August 2020. Provider has advised post 2020 water will go to market as competitive tender and as such is not a guaranteed supply 	 Adani proposes to participate in the competitive tender but confirms this source and quantity cannot be relied upon and as such is a further reason to support the new water extraction licence for Mistake Creek. This is a take or pay arrangement and as such the allocation will be exhausted in 31 August 2020 whether fully utilised or not.
Belyando River Flood Harvesting WL 621750	250 ML	 Highly dependent on flows and rail activities are not included in the permit 	Adani has not yet been able to utilise this source as yet, noting it is for flood harvesting and weather dependent.
North Galilee Water Scheme (Suttor River) WL 617268	12.GL	 Source highly dependent on current legal challenges in regards to the EPBC Act legal challenges The EPBC Act legal processes are unlikely to be resolved until Q1/2 2021 and construction timing and subsequent extraction would not align with the program for the bulk use of the water for the rail project 	 The licence has been granted to Adani Infrastructure Pty Ltd to harvest up to 12.5 GL (10,800 ML mean annual volume) a year from the Suttor River, until 2077. The purpose of the licence is to extract water for operation of the Carmichael Coal Mine and Rail Project (the meaning of which includes on lease mine activities, off lease mine activities and Rail SP1 and SP2). The licence takes effect when the balance of the licence fee is paid, this is scheduled for 1 July 2021. Water cannot be taken until that fee is paid in full. The payment date was extended from 2019 to 2021 for the following reasons: In 2018 Adani Infrastructure Pty Ltd was seeking EPBC Act approval for the construction of the dam and the pipeline associated with this water harvest. In 2019 that EPBC Act approval process was challenged in court and the subsequent legal delay

			 and uncertainty led to Adani Infrastructure Pty Ltd seeking an extension to the Water Licence payment. This was required as the taking of the water may constitute an offence under the EPBC Act whilst the project is under assessment. The EPBC Act approval was recommended in late 2019 and another legal challenge has commenced against the process. The EPBC Act legal process are unlikely to be resolved until Q1/2 2021.
Recycled Water	~150 KL / day	Usage is expected to be ad-hoc depending on treated water availability from the Sewage Treatment Plant Process Cycling – remainder to go to irrigation under ERA 63 Approval	This assumes a daily recycling rate of 50% of the total treated effluent water used at full Camp Capacity as follows: Camp 6 – 500 pax x 250l/p/d @50% - ~62kl/d Camp 5 – 500 pax x 250l/p/d @50% - ~62kl/d Camp 4 - 400 pax x 250l/p/d @50% - ~50kl/d Provide approximately 170kl/d for re-use on the project vs an average daily demand of ~4 ML a day
Captured Stormwater	N/A	Ad-hoc usage of captured stormwater from the sediment basins – not considered in the overall water usage calculations	This source is considered ad-hoc and will depend on rainfall patterns, noting that basins will be designed and constructed in-line with the IECA Guidelines including strict dewatering timeframe requirements.
This Water Extraction Application – Mistake Ck	2,340ML	Permit not granted or insufficient flows for any granted permit to extract water	 Contingency: If the permit was to not be granted or there are insufficient flows for extraction, Adani would need to investigate other water source solutions and would include: Investigate and cart water from sources where commercial arrangements can be made Participate in Sunwater competitive tender as noted above It should be noted that initial long range forecasts for the Northern Goldfields and Central High-lands for the 20-21 wet season indicates a favour toward near normal and above average rainfall.

Appendix C – Water Demand & Source Breakdown

And the provide the provide the providence of th

adani

Carmichael Rail Network (CRN) - Water Usage & Demand Chart - ML/Month

| | | Mar-20 | Apr-20 | May-20 | Jun-20
 | Jul-20 | Aug-20 | Sep-20
 | Oct-20 | Nov-20
 | Dec-20 | Jan-21 | Feb-21 | Mar-21
 | Apr-21 | May-21 | Jun-21 | Jul-21 | Aug-21 | Sep-21 | Oct-21 | Nov-21
 | Dec-21 | Total |
|---|---|--|---|--
--
--|---|---|---
--|--
---|---|---|--
---|---|--|---|--|---|--
--|--|--|
| | | | | |
 | | |
 | |
 | | | | | | | |
 | | | | | | | |
 | | |
| Comp Infractructure Comp 6 | | | | |
 | | |
 | |
 | | | | | | | |
 | | | | | | | |
 | | |
| Camp Intrastructure - Camp 6 | Roda 20 | | 0.16 | |
 | | |
 | |
 | | | | | | | |
 | | | | | 0.16 | | |
 | | 0.2 |
| Camp 6 - Fl) | Beds 150 | 1 | 0.10 | 1 1 3 |
 | | |
 | |
 | | | | | | | |
 | 1 | 1 1 3 | 1 13 | 1 1 3 | 0.10 | | 1 |
 | | 4.5 |
| Camp 6 - Stage 7 | Beds 350 | | | 1.10 | 2.63
 | 2.63 | |
 | |
 | | | | 2.63
 | 2.63 | 1.10 | 1.10 | 1.10 | | | |
 | | 10.5 |
| Camp 6 - Stage 3 | Beds 400 | | | | 2.00
 | 2.00 | 3.00 | 3.00
 | 3.00 |
 | | | 3.00 | 2.00
 | 2.00 | | | | | | |
 | | 12.0 |
| Camp 6 - Stage 4 | Beds 500 | | | |
 | | |
 | | 3.75
 | 3.75 | 3.75 | | | | | |
 | | | | | | | |
 | | 11.3 |
| Camp 6 water recovery from recycled processes | 50% 0.5 | | | -0.56 | -1.31
 | -1.31 | -1.50 | -1.50
 | -1.50 | -1.88
 | -1.88 | -1.88 | -1.50 | -1.31
 | -1.31 | -0.56 | -0.56 | -0.56 | -0.08 | | |
 | | -19.2 |
| | | | | |
 | | |
 | |
 | | | | | | | |
 | | | | | | | |
 | | |
| Concrete Batch Plant - Camp 6 Laydown Area | ML/day 0.10 | 1 | | |
 | 3.00 | 3.00 | 3.00
 | 3.00 | 3.00
 | 3.00 | 3.00 | 3.00 | 3.00
 | 3.00 | 3.00 | | | | | |
 | | 33.0 |
| | | | | |
 | | |
 | |
 | | | | | | | |
 | | | | | | | |
 | | |
| Camp Infrastructure - Camp 5 | | | | |
 | | |
 | |
 | | | | | | | |
 | | | | | | | |
 | | |
| Camp 5 Fly | Beds 20 | | | 0.16 | 0.16
 | | |
 | |
 | | | | | | | |
 | | | | | | | |
 | 0.16 | 0.5 |
| Camp 5 - Stage 1 | Beds 150 | | | |
 | 1.13 | |
 | |
 | | | |
 | | | | 1.13 | 1.13 | 1.13 | 1.13 | 1.13
 | | 6.8 |
| Camp 5 - Stage 2 | Beds 350 | _ | | |
 | | 2.63 | 2.63
 | |
 | | | | -
 | | 2.63 | 2.63 | | | | |
 | | 10.5 |
| Camp 5 - Stage 3 | Beds 400 | _ | | |
 | | |
 | 3.00 | 3.00
 | 0.75 | 0.75 | | 3.00
 | 3.00 | | | | | | |
 | | 12.0 |
| Camp 5 - Stage 4 | Beds 500 | | | |
 | 0.50 | 4.04 | 4.04
 | 4.50 | 4.50
 | 3.75 | 3.75 | 3.75 | 4.50
 | 4.50 | 4.04 | 4.04 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50
 | 0.00 | 11.3 |
| Camp 5 water recovery from recycled processes | 50% 0.5 | - | | |
 | -0.56 | -1.31 | -1.31
 | -1.50 | -1.50
 | -1.88 | -1.88 | -1.88 | -1.50
 | -1.50 | -1.31 | -1.31 | -0.56 | -0.56 | -0.56 | -0.56 | -0.56
 | -0.08 | -20.3 |
| Concerts Dateb Plant, Comp 5 Laudaum Area | ML/day 0.15 | | | | 4.50
 | 4.50 | 4.50 | 4.50
 | 4.50 | 4.50
 | 4.50 | 4.50 | 4.50 | 4 50
 | 4.50 | | | | | | |
 | | 0.0 |
| Concrete Batch Plant - Camp 5 Laydown Area | INIL/day 0.15 | , | | | 4.50
 | 4.50 | 4.50 | 4.50
 | 4.50 | 4.50
 | 4.50 | 4.50 | 4.50 | 4.50
 | 4.50 | | | | | | |
 | | 49.5 |
| Farthworks/ Pail Formation & Track | | | | |
 | | |
 | |
 | | | | | | | |
 | | | | | | | |
 | | 0.0 |
| Earthworks & Rail Formation | ML/Mtb | - | | 47 675 | 76 939
 | 104 414 | 136 429 | 143 234
 | 140 828 | 139 486
 | 131 72 | 71.521 | 108 953 | 91 956
 | 56 558 | 25 865 | 14 483 | 2 121 | | | |
 | | 1 202 2 |
| Track Work | ML/Mth 0.30 | | | | 10.000
 | 101111 | 100.120 | 110.201
 | 9.00 | 9.00
 | 9.00 | 9.00 | 9.00 | 9.00
 | 9.00 | 9.00 | 9.00 | 2.121 | | | |
 | | 81.0 |
| Post Construction Rehabilitation | ML/Mth | | | |
 | | |
 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00 | | 4.00 | 4.00 | 4.00 | 4.00
 | 2.00 | 01.0 | | | |
| | | | | |
 | | |
 | |
 | | | |
 | | | | | 1.00 | 1.00 | 1.00 | 1.00
 | 2.00 | | | | |
| Clear & Grub Water Usage to Date | ML/Mth | 18.00 | | |
 | | |
 | |
 | | | | | | | |
 | | | | | | | |
 | | |
| | | | | |
 | | |
 | |
 | | | | | | | |
 | | | | | | | |
 | | 0.0 |
| Offsite CRN Infrastructure | | | | |
 | | |
 | |
 | | | | | | | |
 | | | | | | | |
 | | |
| Quarries / Roadway Maintenance & Dust Suppression | ML/Mth | 4.00 | 4.00 | 4.00 | 4.50
 | 5.00 | 5.00 | 5.00
 | 5.00 | 5.00
 | 5.00 | 2.00 | 2.00 | 2.00
 | 1.00 | 1.00 | 1.00 | 1.00 | | | |
 | | 56.5 |
| | | | | |
 | | |
 | |
 | | | | | | | |
 | | | | | | | |
 | | |
| Subtotal inc allownce | ML/Mth | 24.20 | 4.57 | 57.63 | 96.15
 | 130.67 | 166.92 | 174.40
 | 181.86 | 180.80
 | 172.67 | 103.15 | 143.91 | 124.60
 | 84.56 | 44.81 | 28.99 | 4.67 | 5.10 | 5.02 | 5.02 | 5.02
 | 2.29 | 1747 |
| Cumulative Subtotal | ML/Mth | 24.20 | 28.77 | 86.40 | 182.55
 | 313.22 | 480.13 | 654.53
 | 836.39 | 1017.19
 | 1189.86 | 1293.01 | 1436.92 | 1561.51
 | 1646.07 | 1690.88 | 1719.88 | 1724.55 | 1729.65 | 1734.67 | 1739.69 | 1744.71
 | 1746.99 | |
| Daily Subtotal | MI (day | 0.04 | 0.15 | 4 0 0 | 2 20
 | 4 26 | EEC | E 04
 | 6.06 | 6.02
 | E 70 | 0.44 | 4.00 | 445
 | 2 02 | 1 40 | 0.07 | 0.16 | 0 17 | 0.17 | 0.17 | 0 17
 | 0.08 | 58 |
| | IVIL/Uay | 0.01 | 0.15 | 1.92 | 3.20
 | 4.30 | 5.50 | 5.01
 | 0.00 | 0.03
 | 5./6 | 3.44 | 4.00 | 4.15
 | 2.02 | 1.43 | 0.97 | 0.10 | 0.17 | 0.17 | 0.17 | 0.17
 | 0.00 | 00 |
| Monthly Demand After Lease End - Disney | ML/Mth | 0.81 | 0.15 | 1.92 | 3.20
 | 4.30 | 5.56 | 5.01
 | 29.43 | 180.80
 | 5.76
172.67 | 3.44
103.15 | 4.60 | 4.15
 | 84.56 | 44.81 | 28.99 | 4.67 | 5.10 | 5.02 | 5.02 | 5.02
 | 2.29 | 940 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney | ML/Mth
ML/Mth | 0.81 | 0.15 | 1.92 | 5.20
 | 4.30 | 5.56 | 5.61
 | 29.43
29.43 | 180.80
210.23
 | 5.76
172.67
382.89 | 3.44
103.15
486.04 | 4.80
143.91
629.95 | 4.15
124.60
754.55
 | 84.56
839.11 | 44.81
883.92 | 28.99
912.91 | 4.67
917.58 | 5.10
922.69 | 5.02
927.71 | 5.02
932.73 | 5.02
937.74
 | 2.29
940.03 | 940 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney | ML/Mth
ML/Mth | Disney | Disney | Disney | Disney
 | Disney | Disney | Disney
 | 29.43
29.43
Disney | 8.03
180.80
210.23
 | 5.76
172.67
382.89 | 3.44
103.15
486.04 | 4.80
143.91
629.95 | 4.15
124.60
754.55
 | 84.56
839.11 | 44.81
883.92
9 | 28.99
912.91
40 | 4.67
917.58 | 5.10
922.69 | 5.02
927.71 | 5.02
932.73 | 5.02
937.74
 | 2.29
940.03 | 940
ML |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumlative Available | ML/Mth
ML/Mth | Disney
123.00 | Disney
246.00 | Disney
369.00 | Disney 492.00
 | 4.30
Disney
615.00 | Disney
738.00 | Disney
861.00
 | 29.43
29.43
Disney
922.50 | 8.03
180.80
210.23
 | 5.76
172.67
382.89 | 3.44
103.15
486.04 | 4.80
143.91
629.95 | 4.15
124.60
754.55
 | 84.56
839.11 | 1.49
44.81
883.92
9 | 0.97
28.99
912.91
40 | 4.67
917.58 | 5.10
922.69 | 5.02
927.71 | 5.02
932.73 | 5.02
937.74
 | 2.29
940.03 | 940
ML |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Available
Total ML/month (AVAILABLE | ML/Mth
ML/Mth | Disney
123.00 | Disney
246.00
123.00 | 1.92
Disney
369.00
123.00 | Disney
492.00
123.00
 | 4.30
Disney
615.00
123.00 | Disney
738.00
123.00 | Disney
861.00
123.00
 | 29.43
29.43
Disney
922.50
61.50 | 8.03
180.80
210.23
 | 5.76
172.67
382.89 | 3.44
103.15
486.04 | 4.80
143.91
629.95 | 4.15
124.60
754.55
 | 84.56
839.11 | 1.49
44.81
883.92
9 | 0.97
28.99
912.91
40 | 4.67
917.58 | 5.10
922.69 | 5.02
927.71 | 5.02
932.73 | 5.02
937.74
 | 2.29
940.03 | 940
ML |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumlative Available
Total ML/month (AVAILABLE)
Total ML/day (AVAILABLE) - Disney | ML/day
ML/Mth
ML/Mth | Disney
123.00
4.10 | Disney
246.00
123.00
4.10 | Disney
369.00
123.00
4.10 | Disney
492.00
123.00
4.10
 | 4.30
Disney
615.00
123.00
4.10 | Disney
738.00
123.00
4.10 | Disney
861.00
123.00
4.10
 | 29.43
29.43
Disney
922.50
61.50
4.10 | 8.03
180.80
210.23
 | 5.76
172.67
382.89 | 3.44
103.15
486.04 | 4.80
143.91
629.95 | 4.15
124.60
754.55
 | 84.56
839.11 | 1.49
44.81
883.92
9 | 0.97
28.99
912.91
40 | 4.67
917.58 | 5.10
922.69 | 5.02
927.71 | 5.02
932.73 | 5.02
937.74
 | 2.29
940.03 | 940
ML |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumlative Available
Total ML/month (AVAILABLE)
Total ML/day (AVAILABLE) - Disney | ML/Mth
ML/Mth | Disney
123.00
123.00
4.10 | Disney
246.00
123.00
4.10 | 1.92
Disney
369.00
123.00
4.10 | Disney
492.00
123.00
4.10
 | 4.36
Disney
615.00
123.00
4.10 | Disney
738.00
123.00
4.10 | Disney
861.00
123.00
4.10
 | 29.43
29.43
Disney
922.50
61.50
4.10 | 6.03
180.80
210.23
 | 5.76
172.67
382.89 | 3.44
103.15
486.04 | 4.80
143.91
629.95 | 4.15
124.60
754.55
 | 2.02
84.56
839.11 | 1.49
44.81
883.92
9 | 0.97
28.99
912.91
40 | 4.67
917.58 | 5.10
922.69 | 5.02
927.71 | 5.02
932.73 | 5.02
937.74
 | 2.29
940.03 | 940
ML |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumiative Available
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to | ML/Mth
ML/Mth
CH266) | Disney
123.00
123.00
4.10 | Disney
246.00
123.00
4.10 | Disney
369.00
123.00
4.10 | Disney
492.00
123.00
4.10
 | Disney
615.00
123.00
4.10 | Disney
738.00
123.00
4.10 | Disney
861.00
123.00
4.10
 | 0.06 29.43 29.43 Disney 922.50 61.50 4.10 | 8.03
180.80
210.23
 | 5.76
172.67
382.89 | 3.44
103.15
486.04 | 4.80
143.91
629.95 | 4.15
124.60
754.55
 | 84.56
839.11 | 1.49
44.81
883.92
9 | 0.97
28.99
912.91
40 | 4.67 917.58 | 5.10
922.69 | 927.71 | 5.02
932.73 | 5.02
937.74
 | 2.29 940.03 | 940
ML |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumilative Available
Total ML/month (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4 | ML/Mth
ML/Mth
CH266) | Disney
123.00
123.00
4.10 | 0.13
Disney
246.00
123.00
4.10 | 1.92
Disney
369.00
123.00
4.10 | Disney
492.00
123.00
4.10
 | 4.30
Disney
615.00
123.00
4.10 | Disney
738.00
123.00
4.10 | Disney
861.00
123.00
4.10
 | 0.06 29.43 29.43 Disney 922.50 61.50 4.10 | 8.03
180.80
210.23
 | 5.76
172.67
382.89 | 3.44
103.15
486.04 | 4.80
143.91
629.95 | 4.15
124.60
754.55
 | 84.56
839.11 | 44.81
883.92
9 | 28.99
912.91
40 | 4.67 917.58 | 5.10
922.69 | 927.71 | 5.02 932.73 | 5.02
937.74
 | 2.29
940.03 | 940
ML |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/month (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Fly | ML/Mth
ML/Mth
CH266)
Beds 20 | Disney
123.00
123.00
4.10 | Disney
246.00
123.00
4.10 | Disney
369.00
123.00
4.10 | Disney
492.00
123.00
4.10
 | 4.30
Disney
615.00
123.00
4.10 | Disney
738.00
123.00
4.10 | Disney
861.00
123.00
4.10
 | 29.43
29.43
Disney
922.50
61.50
4.10 | 8.03
180.80
210.23
 | 5.76
172.67
382.89 | 3.44
103.15
486.04 | 4.80
143.91
629.95 | 4.15
124.60
754.55
 | 84.56 839.11 | 44.81
883.92
9 | 28.99
912.91
40 | 4.67 917.58 | 5.10
922.69 | 927.71 | 5.02 932.73 |
0.17
5.02
937.74 | 2.29
940.03 | 940
ML
0.5 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumiative Available
Total ML/donth (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1 | ML/Mth
ML/Mth
CH266)
Beds 20
Beds 150 | Disney
123.00
123.00
4.10 | Disney
246.00
123.00
4.10 | 1.92
Disney
369.00
123.00
4.10 | Disney
492.00
123.00
4.10
0.15
 | 4.30
Disney
615.00
123.00
4.10
0.15 | Disney
738.00
123.00
4.10 | Disney
861.00
123.00
4.10
 | 29.43
29.43
Disney
922.50
61.50
4.10 | 8.03
180.80
210.23
 | 5.76
172.67
382.89 | 3.44
103.15
486.04 | 4.80
143.91
629.95 | 4.15
124.60
754.55
 | 84.56 839.11 | 44.81
883.92
9 | 28.99
912.91
40 | 4.67
917.58 | 5.10
922.69 | 0.17
5.02
927.71 | 5.02
932.73 |
0.17
5.02
937.74 | 2.29
940.03 | 940
ML
0.5
6.8 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1
Camp 4 - Stage 2 | CH266)
Beds 20
Beds 150
Beds 400 | Disney
123.00
123.00
4.10 | 0.13
Disney
246.00
123.00
4.10 | 1.92
Disney
369.00
123.00
4.10 | Disney
492.00
123.00
4.10
0.15
 | 4.30
Disney
615.00
123.00
4.10
0.15 | Disney
738.00
123.00
4.10 | Disney
861.00
123.00
4.10
 | 0.06 29.43 29.43 Disney 922.50 61.50 4.10 3.00 | 8.03
180.80
210.23
 | 3.76
172.67
382.89 | 3.44
103.15
486.04
3.00 | 4.80
143.91
629.95 | 4.15
124.60
754.55
 | 2.02
84.56
839.11 | 1.49
44.81
883.92
9
3.00 | 1.13 | 4.67
917.58 | 1.13 | 1.13 | 5.02
932.73 |
0.17
5.02
937.74 | 2.29
940.03 | 0.5
6.8
27.0 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Fly
Camp 4 - Stage 2
Camp 4 - Stage 2 | ML/Mth ML/Mth CH266) Beds Beds Beds 150 Beds 50% | Disney
123.00
123.00
4.10 | 0.13
Disney
246.00
123.00
4.10 | Disney
369.00
123.00
4.10 | Disney
492.00
123.00
4.10
0.15
 | Disney
615.00
123.00
4.10
0.15 | Disney
738.00
123.00
4.10 | Disney
861.00
123.00
4.10
3.00
-1.50
 | 29.43
29.43
Disney
922.50
61.50
4.10
3.00
-1.50 | 8.03
180.80
210.23
3.00
-1.50
 | 3.76
172.67
382.89
382.89 | 3.44
103.15
486.04
3.00
-1.50 | 4.30
143.91
629.95
3.00
-1.50 | 4.15
124.60
754.55
3.00
-1.50
 | 2.02
84.56
839.11 | 44.81
883.92
9
3.00
-1.50 | 28.99
912.91
40
1.13
-0.56 | 4.67
917.58 | 1.13
-0.56 | 0.17
5.02
927.71 | 5.02
932.73 |
0.17
5.02
937.74
0.15
-0.08 | 940.03 | 0.5
6.8
27.0
-17.1 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/month (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1
Camp 4 - Stage 1
Camp 4 - Stage 5
Camp 4 water recovery from recycled processes | CH266)
Beds 20
Beds 150
Beds 400
50% 0.5 | Disney
123.00
123.00
4.10 | 0.13
Disney
246.00
123.00
4.10 | Disney
369.00
123.00
4.10 | Disney
492.00
123.00
4.10
0.15
-0.08
 | Disney
615.00
123.00
4.10
0.15 | Disney
738.00
123.00
4.10
1.13
-0.56 | Disney
861.00
123.00
4.10
3.00
-1.50
 | 29.43
29.43
Disney
922.50
61.50
4.10
3.00
-1.50 | 8.03
180.80
210.23
3.00
-1.50
 | 3.00
172.67
382.89 | 3.44
103.15
486.04
3.00
-1.50 | 4.00
143.91
629.95
3.00
-1.50 | 4.15
124.60
754.55
3.00
-1.50
 | 2.02
84.56
839.11
3.00
-1.50 | 44.81
883.92
9
3.00
-1.50 | 1.13
-0.56 | 1.13
1.13
-0.56 | 1.13
-0.56 | 1.13
-0.56 | 1.13
-0.56 |
0.117
5.02
937.74
0.15
-0.08 | 940.03 | 0.5
6.8
27.0
-17.1
0.0 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Area | CH266)
Beds 20
Beds 150
Beds 4000
50% 0.5
ML/day 0.10 | Disney
123.00
4.10 | Disney
246.00
123.00
4.10 | Disney
369.00
123.00
4.10 | Disney
492.00
123.00
4.10
0.15
-0.08
3.00
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
3.00 | Disney
738.00
123.00
4.10
1.13
-0.56
3.00 | Disney 861.00 123.00 4.10 3.00 -1.50 3.00
 | 29.43
29.43
Disney
922.50
61.50
4.10
3.00
-1.50 | 8.03
180.80
210.23
3.00
-1.50
 | 3.00
172.67
382.89
3.00
-1.50
3.00 | 3.44
103.15
486.04
3.00
-1.50
3.00 | 4.00
143.91
629.95
3.00
-1.50
3.00 | 4.15
124.60
754.55
3.00
-1.50
3.00
 | 84.56
839.11
3.00
-1.50
3.00 | 1.43
44.81
883.92
9
3.00
-1.50 | 28.99
912.91
40
1.13
-0.56 | 4.67
917.58
1.13
-0.56 | 1.13
-0.56 | 0.17
5.02
927.71 | 5.02
932.73
1.13
-0.56 |
0.15
0.15
0.08 | 940.03 | 940
940
ML
0.5
6.8
27.0
-17.1
0.0
33.0 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 2
Camp 4 | CH266)
Beds 20
Beds 150
Beds 400
50% 0.5
ML/day 0.10 | 0.81
Disney
123.00
123.00
4.10 | Disney
246.00
123.00
4.10 | Disney
369.00
123.00
4.10 | 0.15
0.08
0.00
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
3.00 | Disney
738.00
123.00
4.10
1.13
-0.56
3.00 | Disney 861.00 123.00 4.10 3.00 -1.50 3.00
 | c.06 29.43 Disney 92.50 61.50 4.10 3.00 -1.50 3.00 -1.50 | 8.03
210.23
3.00
-1.50
3.00 | 3.00
-1.50
3.00
 | 3.44
103.15
486.04
3.00
-1.50
3.00 | 4.80
143.91
629.95
3.00
-1.50
3.00 | 4.15
124.60
754.55
3.00
-1.50
3.00 | 3.00
-1.50
3.00
 | 1.43
44.81
883.92
9
9
3.00
-1.50 | 28.99
912.91
40
1.13
-0.56 | 1.13
-0.56 | 1.13
-0.56 | 1.13
-0.56 | 1.13
-0.56 | 0.15
-0.08
 | 2.29 940.03 | 0.5
6.8
27.0
-17.1
0.0
33.0 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/month (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1
Camp 4 - Stage 1
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Area
Earthworks/ Rail Formation & Track | ML/Mth ML/Mth ML/Mth Beds Beds Beds State ML/Mth | Disney
123.00
4.10 | Disney
246.00
123.00
4.10 | 1.92
Disney
369.00
123.00
4.10 | Jisney 492.00 123.00 4.10 0.15 -0.08 3.00
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
3.00 | Disney
738.00
123.00
4.10
1.13
-0.56
3.00 | 3.81
Disney
861.00
123.00
4.10
3.00
-1.50
3.00
 | c.06 29.43 29.43 Disney 922.50 61.50 4.10 3.00 -1.50 3.00 | 6.03
180.80
210.23
3.00
-1.50
3.00
 | 3.00
172.67
382.89
3.00
-1.50
3.00 | 3.44
103.15
486.04
3.00
-1.50
3.00 | 4.00
143.95
629.95
3.00
-1.50
3.00 | 4.15
124.60
754.55
3.00
-1.50
3.00
 | 3.00
3.00
57.00 | 44.81
883.92
9
3.00
-1.50 | 28.99
912.91
40
1.13
-0.56 | 1.13
-0.56 | 1.13
-0.56 | 1.13
-0.56 | 1.13
-0.56 | 0.15
-0.08
 | 2.29 940.03 | 0.5
6.8
27.0
-17.1
0.0
33.0 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4 - Fij
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Area
Earthworks/ Rail Formation & Track | CH265)
CH265)
Beds 20
Beds 150
Beds 400
50% 0.5
ML/day 0.10
ML/Mth
ML/Mth | Disney
123.00
4.10 | Disney
246.00
123.00
4.10 | Disney
369.00
123.00
4.10 | Jisney 492.00 123.00 4.10 0.15 -0.08 3.00 20.00
 | 4.30
Disney
615.00
123.00
4.10
-0.15
-0.08
-0.08
-70.00 | Disney
738.00
123.00
4.10
1.13
-0.56
3.00
70.00 | Disney 861.00 123.00 4.10 3.00 -1.50 3.00 61.00
 | c.06 29.43 29.43 29.43 Disney 922.50 61.50 4.10 3.00 -1.50 3.00 -1.50 61.50 62.00 62.00 62.00 63.00 -1.50 - | 8.03
180.80
210.23
3.00
-1.50
3.00
-1.50
3.00
 | 3.00
172.67
382.89
3.00
-1.50
3.00
-1.50
3.00 | 3.44
103.15
486.04
3.00
-1.50
3.00
58.00
9.00 | 4.00
143.91
629.95
3.00
-1.50
3.00
52.00
9.00 | 4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
3.00
 | 3.00
-1.50
3.00
-1.50
 | 1.43
44.81
883.92
9
3.00
-1.50
48.00
9.00 | 28.99
912.91
40
1.13
-0.56
39.00 | 1.13
-0.56
39.00 | 1.13
-0.56
39.00 | 0.17
5.02
927.71
1.13
-0.56
38.00 | 1.13
-0.56
5.00 |
0.15
0.15
0.15 | 2.29 940.03 | 940
940
ML
0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Area
Earthworks / Rail Formation & Track
Earthworks & Rail Formation
Track Work | ML/Mth ML/Mth ML/Mth Beds Beds Beds So% 0.5 ML/day 0.10 ML/Mth ML/Mth | Disney
123.00
123.00
4.10 | Disney 246.00
123.00
4.10 | 1.92
Disney
369.00
123.00
4.10 | Jisney 492.00 123.00 4.10 0.15 -0.08 3.00 20.00
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
3.00
70.00 | J.36 Disney 738.00 123.00 4.10 1.13 -0.56 3.00 70.00 | Disney 861.00 123.00 4.10 3.00 -1.50 3.00 61.00
 | c.08 29.43 29.43 29.43 29.43 29.64 20.65 61.50 4.10 3.00 4.10 3.00 4.10 3.00 4.150 3.00 62.00 </td <td>6.03
180.80
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.</td> <td>3.00
-1.50
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50</td> <td>3.44
103.15
486.04
3.00
-1.50
3.00
58.00
9.00</td> <td>4.00
143.91
629.95
3.00
-1.50
3.00
52.00
9.00</td> <td>4.15
124.60
754.55
3.00
-1.50
3.00
59.00
9.00</td> <td>3.00
3.00
-1.50
3.00
-57.00
9.00</td> <td>1.43
44.81
883.92
9
3.00
-1.50
48.00
9.00</td> <td>1.13
-0.56
39.00
9.00</td> <td>1.13
-0.56
39.00</td> <td>1.13
-0.56
39.00</td> <td>1.13
-0.56
38.00</td> <td>1.13
5.00
932.73</td> <td>5.02
937.74
0.15
-0.08</td> <td>2.29 940.03</td> <td>0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0</td> |
6.03
180.80
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210.23
210. | 3.00
-1.50
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50 | 3.44
103.15
486.04
3.00
-1.50
3.00
58.00
9.00 | 4.00
143.91
629.95
3.00
-1.50
3.00
52.00
9.00 | 4.15
124.60
754.55
3.00
-1.50
3.00
59.00
9.00
 | 3.00
3.00
-1.50
3.00
-57.00
9.00 | 1.43
44.81
883.92
9
3.00
-1.50
48.00
9.00 | 1.13
-0.56
39.00
9.00 | 1.13
-0.56
39.00 | 1.13
-0.56
39.00 | 1.13
-0.56
38.00
 | 1.13
5.00
932.73 | 5.02
937.74
0.15
-0.08 | 2.29 940.03 | 0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/month (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Slage 1
Camp 4 - Slage 1
Camp 4 - Slage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Area
Earthworks / Rail Formation & Track
Earthworks & Rail Formation
Track Work
Post Construction Rehabilitation | ML/Mth ML/Mth ML/Mth CH266) Beds Beds Beds S0% 0.50% 0.10 ML/Mth ML/Mth ML/Mth ML/Mth ML/Mth | Disney 123.00 123.00 4.10 | Disney 246.00
123.00
4.10 | 1.92
Disney
369.00
123.00
4.10 | Jisney 492.00 123.00 4.10 0.15 -0.08 3.00 20.00
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
3.00
70.00 | Disney
738.00
123.00
4.10
1.13
0.56
3.00
70.00 | 3.81
Disney
861.00
123.00
4.10
3.00
-1.50
3.00
61.00
 | c.08 29.43 Disney 922.50 61.50 4.10 3.00 -1.50 3.00 62.00 | 8.03
180.80
210.23
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
 | 3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00 | 3.44
103.15
486.04
3.00
-1.50
3.00
-1.50
3.00
9.00 | 4.00
143.91
629.95
3.00
-1.50
3.00
52.00
9.00 | 4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
3.00
9.00
 | 3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00 | 1.43
44.81
883.92
9
3.00
-1.50
48.00
9.00 | 28.99
912.91
40
1.13
-0.56
39.00
9.00 | 4.67
917.58
1.13
-0.56
39.00 | 1.13
-0.56
39.00 | 0.17
5.02
927.71
1.13
-0.56
38.00 | 5.02
932.73
1.13
-0.56
5.00 |
0.15
0.15
0.15
-0.08
5.00 | 2.29 940.03 | 0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (Available
Total ML/day (Available) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4 - Fij
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Area
Earthworks/ Rail Formation & Track
Earthworks & Rail Formation
Track Work
Post Construction Rehabilitation | ML/Mth
ML/Mth
ML/Mth
CH266)
Beds 20
Beds 150
Beds 400
50% 0.5
ML/Mth
ML/Mth
ML/Mth
ML/Mth | Disney
123.00
123.00
4.10 | 0.13
Disney
246.00
123.00
4.10 | 1.92
Disney
369.00
123.00
4.10
20.00 | Jisney J92.00 123.00 4.10 0.15 -0.08 3.00 20.00 20.00
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
3.00
70.00
80.38 | 5.36
Disney
738.00
123.00
4.10
1.13
-0.56
3.00
70.00 | Jisney Disney 861.00 123.00 4.10 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50
 | 0.08 29.43 29.43 Disney 922.50 61.50 4.10 3.00 -1.50 3.00 -1.50 3.00 -1.50 7.3.15 | 8.03
180.80
210.23
3.00
1.50
3.00
56.00
9.00
76 45
 | 3.00
-1.50
3.00
-1.50
58.00
9.00
78.65 | 3.44
103.15
486.04
3.00
-1.50
3.00
58.00
9.00
78.65 | 4.00
143.91
629.95
3.00
-1.50
3.00
52.00
9.00
72.05 | 4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
3.00
9.00
9.00
9.00
 | 3.00
-1.50
3.00
-1.50
57.00
9.00 | 1.43
44.81
883.92
9
9
3.00
-1.50
48.00
9.00
64.35 | 28.99
912.91
40
1.13
-0.56
39.00
9.00 | 4.67
917.58
1.13
-0.56
39.00 | 1.13
-0.56
39.00
43.52 | 0.17
5.02
927.71
1.13
-0.56
38.00 | 5.02
932.73
1.13
-0.56
5.00
5.00 |
0.15
0.15
0.15
-0.08
5.00 | 0.00 | 0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/month (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Area
Earthworks/ Rail Formation & Track
Earthworks & Rail Formation
Track Work
Post Construction Rehabilitation
Subtotal inc allowance
Cumulative Subtotal inc allowance | ML/Mth ML/Mth ML/Mth ML/Mth Beds Beds Sold Beds ML/Mth ML/Mth ML/Mth ML/Mth ML/Mth ML/Mth ML/Mth ML/Mth ML/Mth | Disney
123.00
4.10 | 0.13
Disney 246.00
123.00
4.10 | 1.92
Disney
369.00
123.00
4.10
20.00
20.00
22.00 | Jisney 492.00 123.00 4.10 0.15 -0.08 3.00 20.00
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
3.00
70.00
80.38
127 77 | 3.30
Disney
738.00
123.00
4.10
4.10
4.10
70.00
70.00
70.00
80.92
208.68 | 3.81
Disney
861.00
123.00
4.10
3.00
-1.50
3.00
61.00
61.00
 | 0.06 29.43 29.43 Disney 922.50 61.50 4.10 4.10 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 | 8.03
180.80
210.23
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
 | 3.76
172.67
382.89
382.89
3.00
-1.50
3.00
-1.50
3.00
-1.50
58.00
9.00 | 3.44
103.15
486.04
486.04
3.00
-1.50
3.00
-1.50
3.00
58.00
9.00
9.00
78.65
587.63 | 4.00
143.81
629.95
3.00
-1.50
3.00
52.00
9.00
72.05
659.68 | 4.13
124.60
754.55
3.00
-1.50
3.00
59.00
9.00
79.75
739.43
 | 3.00
-1.50
3.00
-1.50
3.00
-77.55
816.98 | 1.43
44.81
883.92
9
9
3.00
-1.50
48.00
9.00
64.35
881 33 | 28.99
912.91
40
1.13
-0.56
39.00
9.00
9.00
53.42
934 75 | 4.67
917.58
1.13
-0.56
39.00
43.52
978.97 | 1.13
-0.56
39.00
43.52 | 1.13
-0.56
38.00
42.42 | 5.02
932.73
1.13
-0.56
5.00
5.00
11.62
1075 83 |
0.15
0.15
0.15
0.15
-0.08
5.00
5.58
1081 41 | 0.00
940.03 | 940
940
ML
0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0
1081 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/month (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Slage 1
Camp 4 - Slage 1
Camp 4 - Slage 1
Camp 4 - Slage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Area
Earthworks / Rail Formation & Track
Earthworks / Rail Formation Track Work
Post Construction Rehabilitation
Subtotal inc allowance
Cumulative Subtotal
Daily Subtotal | ML/Mth ML/Mth ML/Mth CH266) Beds Beds Beds S0% 0.50% 0.50% ML/Mth ML/Mth ML/Mth ML/Mth ML/Mth ML/Mth ML/Mth ML/Mth | Disney 123.00 123.00 4.10 | 0.13
Disney
246.00
123.00
4.10 | 1.92
Disney
369.00
123.00
4.10
20.00
22.00
22.00
22.00
0.73 | 3.20
Disney
492.00
123.00
4.10
0.15
-0.08
3.00
20.00
20.00
25.38
47.38
0.85
 | 4.30
Disney 615.00
123.00
4.10
0.15
-0.08
3.00
70.00
-70.00
 | 3.30
Disney
738.00
123.00
4.10
1.13
-0.56
3.00
70.00
70.00
80.92
208.68
2.70 | 3.81
Disney
861.00
123.00
4.10
3.00
-1.50
3.00
61.00
61.00
72.05
280.73
2.40
 | 29.43
29.43
Disney
922.50
61.50
4.10
3.00
-1.50
3.00
62.00
62.00
73.15
353.88
2.44 | 8.03
180.80
210.23
3.00
-1.50
56.00
9.00
76.45
430.33
2.55
 | 3.00
1172.67
382.89
3.00
-1.50
58.00
9.00
78.65
508.98
2.62 | 3.44
103.15
486.04
3.00
-1.50
3.00
-1.50
58.00
9.00
78.65
587.65
587.65 | 4.00
143.91
629.95
3.00
-1.50
52.00
9.00
72.05
659.68
2.40 | 4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
59.00
9.00
9.00
799.75
739.43
2.66
 | 2.52
84.56
839.11
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
- | 1.45
44.81
883.92
9
3.00
-1.50
48.00
9.00
48.00
9.00
64.35
881.33
2.15 | 28.99
912.91
40
1.13
-0.56
39.00
9.00
53.42
934.75
1.78 | 4.67
917.58
1.13
-0.56
39.00
43.52
978.27
1.45 | 1.13
-0.56
39.00
43.52
1021.79
145 | 1.13
-0.56
38.00
42.42
1064.21
1.41 | 5.02
932.73
1.13
-0.56
5.00
5.00
5.00
11.62
1075.83
0.39 |
0.15
0.15
0.15
-0.08
5.00
5.58
1081.41
0.19 | 0.00
940.03
940.03 | 0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0
1081
36 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Area
Earthworks/ Rail Formation & Track
Dest Construction Rehabilitation
Post Construction Rehabilitation
Subtotal inc allowance
Cumulative Subtotal
Daily Subtotal | ML/Mth ML/Mth ML/Mth ML/Mth Beds 20 Beds Beds 50% 0.5 ML/Mth | 0.81
Disney 123.00
123.00
4.10 | Disney 246.00 123.00 4.10 | 1.92
Disney
369.00
123.00
4.10
20.00
22.00
22.00
0.73 | 3.20 Disney 492.00 123.00 4.10 0.15 -0.08 3.00 20.00 25.38 47.38 0.85
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
3.00
70.00
70.00
80.38
127.77
2.68 | 3.30
Disney
738.00
123.00
4.10
1.13
0.56
3.00
70.00
70.00
80.92
208.68
2.70 | 3.01
Disney 861.00
123.00
4.10
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-2.05
280.73
2.40
72.05
 | 0.08 29.43 29.43 Disney 9922.50 61.50 4.10 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 | 0.03 180.80 210.23 210.23 3.00 1.50 3.00 1.50 3.00 1.50 76.45 430.33 2.55 76.45
 | 3.00
-1.50
3.00
-1.50
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-2.62
78.65
508.98
2.62
78.65 | 3.44
103.15
486.04
486.04
3.00
-1.50
3.00
-1.50
58.00
9.00
58.00
9.00
78.65
587.63
2.62
78.65 | 4.00
143.91
629.95
629.95
3.00
-1.50
3.00
52.00
9.00
72.05
659.68
2.40
72.05 | 4.13
124.60
754.55
3.00
-1.50
3.00
9.00
9.00
79.75
739.43
2.66
79.75
 | 3.00
-1.50
3.00
-1.50
3.00
-77.55
816.98
2.59
77.55 | 1.43
44.81
883.92
9
3.00
-1.50
48.00
9.00
-48.00
9.00
-48.00
9.00
-1.50
 | 28.99
912.91
40
1.13
-0.56
39.00
9.00
53.42
934.75
1.78
53.42 | 4.67
917.58
1.13
-0.56
39.00
43.52
978.27
1.45
43.52 | 43.52
1.45
1.45
1.45 | 0.17
5.02
927.71
1.13
-0.56
38.00
42.42
1064.21
1.41
42.42 | 5.02
932.73
1.13
-0.56
5.00
5.00
11.62
1075.83
0.39 |
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0 | 0.00
940.03
940.03
0.00
1081.41
0.00
0.00 | 0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0
1081
336
873 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/month (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Area
Earthworks / Rail Formation & Track
Earthworks & Rail Formation
Track Work
Post Construction Rehabilitation
Subtotal inc allowance
Cumulative Subtotal
Monthly Demand After Lease End - Sunwater | ML/Mth ML/Mth ML/Mth ML/Mth Beds Beds So% 0.50% ML/Mth | Disney
123.00
4.10 | 0.13
Disney 246.00
123.00
4.10 | 1.92
Disney
369.00
123.00
4.10
20.00
20.00
22.00
0.73 | 3.20
Disney
492.00
123.00
4.10
0.15
-0.08
3.00
20.00
20.00
25.38
47.38
0.85
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
3.00
70.00
70.00
80.38
127.77
2.68 | 3.30
Disney
738.00
123.00
4.10
4.10
4.10
73.00
4.10
70.00
70.00
70.00
80.92
208.68
2.70 | 3.81
Disney 861.00
123.00
4.10
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.20
5.280.73
2.40
72.05
72.05
 | 0.06 29.43 29.43 Disney 922.50 61.50 4.10 4.10 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 |
6.03
180.80
210.23
210.23
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50 | 3.76
172.67
382.89
382.89
3.00
-1.50
3.00
-1.50
3.00
-1.50
58.00
9.00
9.00
78.65
508.98
2.62
78.65
300.39 | 3.44
103.15
486.04
3.00
-1.50
3.00
-1.50
3.00
9.00
78.65
587.63
2.62
78.65
587.63
2.62
78.65 | 3.00
-1.50
3.00
-1.50
3.00
-2.05
659.68
659.68
2.40
72.05
451.00 | 4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
3.00
9.00
9.00
9.00
9.00
9.00
9.00
9.0
 | 2.02
84.56
83.9.11
3.00
-1.50
3.00
-1.50
3.00
-77.55
816.98
2.59
77.55
816.98
2.59 | 1.45
44.81
883.92
9
3.00
-1.50
48.00
9.00
48.00
9.00
64.35
881.33
2.15
64.35
672.65 | 28.99
912.91
40
1.13
-0.56
39.00
9.00
9.00
9.00
9.33.42
726.07
726.07 | 4.67
917.58
1.13
-0.56
39.00
978.27
1.45
43.52
769.59 | 1.13
1.13
-0.56
39.00
43.52
1021.79
1.45
43.52 | 1.13
-0.56

 | 5.02
932.73
932.73
1.13
-0.56
5.00
5.00
1075.83
0.39
11.62
867.14 | 0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.5
0.5
0.5
0.5
0.5
0.5
0.5
0 | 0.00
940.03
940.03 | 940
940
ML
0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0
10.0
1081
36
873 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/month (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Fly
Camp 4 - Stage 1
Camp 4 - Stage 1
Camp 4 - Stage 1
Camp 4 - Stage 1
Camp 4 - Stage 2
Concrete Batch Plant - Camp 4 Laydown Area
Earthworks / Rail Formation & Track
Earthworks / Rail Formation & Track
Dest Construction Rehabilitation
Subtotal inc allowance
Cumulative Subtotal
Monthly Demand After Lease End - Sunwater
Cumulative Demand After Lease - Sunwater | ML/Mth ML/Mth ML/Mth ML/Mth Beds Beds S0% 0.50% 0.50% ML/Mth | Disney 123.00 123.00 4.10 | Disney
246.00
123.00
4.10 | 1.92
Disney
369.00
123.00
4.10
20.00
22.00
22.00
22.00
0.73
Peabody | Jisney Jisney 492.00 123.00 4.10 0.15 -0.08 3.00 20.00 20.00 25.38 47.38 0.85
 | 4.30
Disney 615.00
123.00
4.10
0.15
-0.08
3.00
70.00
-70.00
 | 3.30 Disney 738.00 123.00 4.10 1.13 -0.56 3.00 70.00 80.92 208.68 2.70 Peabody |
3.81
Disney
861.00
123.00
4.10
3.00
-1.50
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
- | 0.08 29.43 29.43 Disney 9925.50 922.50 61.50 4.10 3.00 -1.50 - 3.00 -1.50 - 73.15 353.88 2.44 73.15 145.20 | 0.03 180.80 210.23 210.23 3.00 -1.50 3.00 -1.50 56.00 9.00 76.45 430.33 2.55 76.45 221.65
 | 3.00
172.67
382.89
382.89
3.00
-1.50
3.00
-1.50
58.00
9.00
78.65
508.98
2.62
78.65
300.30 | 3.44
103.15
486.04
3.00
-1.50
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
- | 4.00
143.91
629.95
629.95
3.00
-1.50
52.00
9.00
72.05
659.68
2.40
72.05
451.00 | 4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
59.00
9.00
9.00
79.75
739.43
2.66
79.75
530.75
 | 2.52
84.56
839.11
3.00
-1.50
3.00
-1.50
 | 44.81
44.81
883.92
9
3.00
-1.50
48.00
9.00
48.00
9.00
64.35
881.33
2.15
64.35
64.35
64.35 | 28.99
912.91
40
1.13
-0.56
39.00
9.00
9.00
9.3.42
934.75
1.78
53.42
726.07 | 4.67
917.58
1.13
-0.56
39.00
43.52
978.27
1.45
43.52
769.59 | 1.13
-0.56
39.00
43.52
1021.79
1.45
813.11 |
1.13
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
-0.56
- | 5.02
932.73
1.13
-0.56
5.00
5.00
5.00
11.62
1075.83
0.39
11.62
867.14 | 0.15
0.15
-0.08
5.00
5.58
1081.41
0.19
5.58
872.73 | 0.00
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03 | 0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0
1081
1081
36
873
ML |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Area
Earthworks/ Rail Formation & Track
Dest Construction Rehabilitation
Post Construction Rehabilitation
Subtotal inc allowance
Cumulative Subtotal
Monthly Demand After Lease End - Sunwater
Cumulative Demand After Lease - Sunwater | ML/Mth ML/Mth ML/Mth ML/Mth Beds Beds So% 0.5 ML/Mth | Disney 123.00
123.00
4.10 | Disney
246.00
123.00
4.10
Peabody
126.00 | 1.92
Disney
369.00
123.00
4.10
20.00
22.00
22.00
22.00
0.73
Peabody
130.20 | 3.20
Disney
492.00
123.00
4.10
0.15
-0.08
3.00
-0.08
3.00
-0.08
-0.08
-0.08
-0.08
-0.08
-0.08
-0.08
-0.08
-0.08
-0.08
-0.08
-0.08
-0.08
-0.08
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.00
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0.09
-0
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
3.00
70.00
70.00
70.00
Peabody
138.60 | 3.30
Disney
738.00
123.00
4.10
1.13
-0.56
3.00
70.00
 | 3.01
Disney
861.00
123.00
4.10
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.20
5.00
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1.20
-1. | 8.06 29.43 29.43 Disney 922.50 61.50 4.10 | 6.03 180.80 210.23 3.00 3.00 1.50 3.00 56.00 9.00 76.45 430.33 221.65
 | 3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-2.50
-2.62
78.65
508.98
2.62
78.65
300.30 | 3.44
103.15
486.04
3.00
-1.50
3.00
-1.50
3.00
-58.00
9.00
-58.00
9.00
-78.65
587.63
2.62
78.65
587.63
378.95 | 4.00
143.91
629.95
3.00
-1.50
3.00
-1.50
3.00
-2.05
659.68
2.40
72.05
451.00 |
4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
- | 3.00
-1.50
3.00
-1.50
3.00
-71.50
3.00
-77.55
816.98
2.59
77.55
816.98
2.59
77.55
816.98
2.59
77.55 | 3.00
-1.50
-1.50
-48.00
9.00
-1.50
-48.00
9.00
-2.15
64.35
64.35
64.35
672.65
73 | 28.99
912.91
40
1.13
-0.56
39.00
9.00
9.00
53.42
934.75
1.78
53.42
726.07 | 4.67
917.58
1.13
-0.56
39.00
43.52
978.27
1.45
43.52
769.59 | 1.13
-0.56
39.00
43.52
1021.79
1.45
43.52
813.11 | 0.17
5.02
927.71
1.13
-0.56
38.00
42.42
1064.21
1.41
42.42
855.53
 | 5.02
932.73
1.13
-0.56
5.00
5.00
11.62
1075.83
0.39
11.62
867.14 | 5.02
937.74
0.15
-0.08
5.00
5.58
1081.41
0.19
5.58
872.73 | 0.00
940.03
940.03
0.00
1081.41
0.00
872.73 | 940
940
ML
0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0
1081
36
873
36
873
ML |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/month (AVAILABLE)
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Aree
Earthworks/ Rail Formation & Track
Earthworks / Rail Formation & Track
Dest Construction Rehabilitation
Subtotal inc allowance
Cumulative Subtotal
Monthly Demand After Lease End - Sunwater
Cumulative Demand After Lease - Sunwater
Cumulative Demand After Lease - Sunwater
Cumulative Available | ML/Mth ML/Mth ML/Mth ML/Mth Beds Beds Beds Beds ML/Mth | Disney
123.00
4.10 | Peabody
126.00
4.10
Peabody
126.00
126.00 | 1.92
Disney
369.00
123.00
4.10
20.00
20.00
22.00
22.00
22.00
0.73
Peabody
130.20
126.00 | 3.20
Disney
492.00
123.00
4.10
0.15
-0.08
3.00
20.00
20.00
25.38
47.38
0.85
Peabody
134.40
126.00
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
-0.08
-0.08
-0.08
-0.08
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00 | 3.30
Disney
738.00
123.00
4.10
4.10
4.10
73.00
4.10
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70 | 3.81
Disney 861.00
123.00
4.10
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
61.00
61.00
72.05
72.05
72.05
 | 0.06 29.43 29.43 29.43 Disney 922.50 61.50 4.10 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 | 0.03 180.80 210.23 210.23 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 56.00 9.00 76.45 255 76.45 221.65
 | 3.76
172.67
382.89
382.89
3.00
-1.50
3.00
-1.50
58.00
9.00
58.00
9.00
78.65
508.98
2.62
78.65
300.30 | 3.44
103.15
486.04
3.00
-1.50
3.00
-1.50
3.00
9.00
78.65
587.63
2.62
78.65
378.95 | 3.00
-1.50
3.00
-1.50
3.00
-2.05
659.68
2.40
72.05
451.00 | 4.15
124.60
754.55
3.00
-1.50
3.00
-1.50
3.00
9.00
9.00
9.00
9.00
9.00
9.00
9.0
 | 2.02
84.56
839.11
3.00
-1.50
3.00
-1.50
3.00
-77.55
816.98
2.59
77.55
608.30
8 | 1.45
44.81
883.92
9
3.00
-1.50
48.00
9.00
48.00
9.00
64.35
881.33
2.15
64.35
672.65
73 | 28.99
912.91
40
1.13
-0.56
39.00
9.00
9.00
9.00
9.3.42
726.07 | 1.13
1.13
-0.56
39.00
43.52
769.59 | 1.13
1.13
-0.56
39.00
43.52
1021.79
1.45
43.52
813.11 | 0.17
5.02
927.71
1.13
-0.56
38.00
38.00
1064.21
1.41
42.42
855.53 | 5.02
932.73
932.73
1.13
-0.56
5.00
5.00
11.62
1075.83
0.39
11.62
867.14 |
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0 | 0.00
940.03
940.03
0.00
1081.41
0.00
0.00
872.73 | 940
940
ML
0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0
10.0
10.0
10.0
10.0
10.0
10.0
1 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Fly
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 Laydown Area
Earthworks/ Rail Formation & Track
Earthworks & Rail Formation
Track Work
Post Construction Rehabilitation
Subtotal inc allowance
Cumulative Subtotal
Daily Subtotal
Monthly Demand After Lease End - Sunwater
Cumulative Demand After Lease - Sunwater
Cumulative Available
Total ML/day (AVAILABLE 1 - Deabody | ML/Mth ML/Mth ML/Mth CH266) Beds Beds Beds S0% 0.10 Beds ML/Mth | 0.01 Disney 123.00 123.00 4.10 | Peabody
126.00
4.10
Peabody
126.00
4.20
Peabody
126.00
4.20
4.20 | 1.92 Disney 369.00 123.00 4.10 20.00 22.00 22.00 0.73 Peabody 130.20 123.00 4.10 | 3.20 Disney 492.00 123.00 4.10 0.15 -0.08 3.00 20.00 <td>4.30
Disney 615.00
123.00
4.10
0.15
-0.08
3.00
70.00
70.00
80.38
127.77
2.68
Peabody
138.60
126.00
4.20</td> <td>3.30 Disney 738.00 123.00 4.10 1.13 -0.56 3.00 70.00 70.00 80.92 208.68 2.70 Peabody 142.80 126.00 4.20</td> <td>3.81
Disney
861.00
123.00
4.10
3.00
-1.50
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-</td> <td>0.08 29.43 29.43 Disney 922.50 61.50 4.10 4.10 3.00 4.10 3.00 4.10 73.15 353.88 2.44 73.15 145.20 145.20</td> <td>0.03 180.80 210.23 210.23 3.00 - 3.00 - 56.00 9.00 76.45 221.65 76.45 221.65</td> <td>3.00
172.67
382.89
382.89
3.00
-1.50
3.00
-1.50
58.00
9.00
58.00
9.00
78.65
508.98
2.62
78.65
300.30</td> <td>3.44
103.15
486.04
3.00
-1.50
3.00
-1.50
3.00
58.00
9.00
78.65
587.63
2.62
78.65
378.95</td> <td>4.00
143.91
629.95
629.95
3.00
-1.50
3.00
-1.50
52.00
9.00
72.05
659.68
2.40
72.05
451.00</td> <td>4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
3.00
9.00
9.00
9.00
9.00
9.00
9.00
9.0</td>
<td>2.52
84.56
839.11
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-</td> <td>44.81
44.81
883.92
9
3.00
-1.50
48.00
9.00
48.00
9.00
64.35
881.33
21.5
64.35
64.35
672.65
73</td> <td>28.99
912.91
40
1.13
-0.56
39.00
9.00
9.00
9.33.42
726.07</td> <td>4.67
917.58
1.13
-0.56
39.00
43.52
978.27
1.45
43.52
769.59</td> <td>1.13
-0.56
39.00
43.52
1021.79
1.43
43.52
813.11</td> <td>1.13
-0.56
38.00
42.42
1064.21
1.41
42.42
855.53</td> <td>5.02
932.73
1.13
-0.56
5.00
5.00
5.00
11.62
1075.83
0.39
11.62
867.14</td> <td>0.15
0.15
0.15
-0.08
5.00
5.58
1081.41
0.19
5.58
872.73</td> <td>0.00
940.03
940.03
0.00
1081.41
0.00
0.00
872.73</td> <td>0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0
1081
36
873
ML</td> | 4.30
Disney 615.00
123.00
4.10
0.15
-0.08
3.00
70.00
70.00
80.38
127.77
2.68
Peabody
138.60
126.00
4.20 | 3.30 Disney 738.00 123.00 4.10 1.13 -0.56 3.00 70.00 70.00 80.92 208.68 2.70 Peabody 142.80 126.00 4.20
 | 3.81
Disney
861.00
123.00
4.10
3.00
-1.50
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
- | 0.08 29.43 29.43 Disney 922.50 61.50 4.10 4.10 3.00 4.10 3.00 4.10 73.15 353.88 2.44 73.15 145.20 145.20 | 0.03 180.80 210.23 210.23 3.00 - 3.00 - 56.00 9.00 76.45 221.65 76.45 221.65
 | 3.00
172.67
382.89
382.89
3.00
-1.50
3.00
-1.50
58.00
9.00
58.00
9.00
78.65
508.98
2.62
78.65
300.30 | 3.44
103.15
486.04
3.00
-1.50
3.00
-1.50
3.00
58.00
9.00
78.65
587.63
2.62
78.65
378.95 | 4.00
143.91
629.95
629.95
3.00
-1.50
3.00
-1.50
52.00
9.00
72.05
659.68
2.40
72.05
451.00 | 4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
3.00
9.00
9.00
9.00
9.00
9.00
9.00
9.0
 | 2.52
84.56
839.11
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
-1.55
- | 44.81
44.81
883.92
9
3.00
-1.50
48.00
9.00
48.00
9.00
64.35
881.33
21.5
64.35
64.35
672.65
73 | 28.99
912.91
40
1.13
-0.56
39.00
9.00
9.00
9.33.42
726.07 | 4.67
917.58
1.13
-0.56
39.00
43.52
978.27
1.45
43.52
769.59 | 1.13
-0.56
39.00
43.52
1021.79
1.43
43.52
813.11 | 1.13
-0.56
38.00
42.42
1064.21
1.41
42.42
855.53
 | 5.02
932.73
1.13
-0.56
5.00
5.00
5.00
11.62
1075.83
0.39
11.62
867.14 | 0.15
0.15
0.15
-0.08
5.00
5.58
1081.41
0.19
5.58
872.73 | 0.00
940.03
940.03
0.00
1081.41
0.00
0.00
872.73 | 0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0
1081
36
873
ML |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 | ML/Mth ML/Mth ML/Mth ML/Mth Beds Beds Beds So% 0.5 ML/Mth | 0.81
Disney
123.00
4.10
4.10
4.10 | Peabody
126.00
4.10
Peabody
126.00
4.20 | 1.92
Disney
369.00
123.00
4.10
20.00
22.00
22.00
0.73
Peabody
130.20
126.00
4.20 | 3.20
Disney
492.00
123.00
4.10
0.15
-0.08
3.00
20.00
20.00
25.38
47.38
0.85
Peabody
134.40
126.00
4.20
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
3.00
70.00
70.00
80.38
127.77
2.68
Peabody
138.60
128.00
4.20 | 3.30
Disney
738.00
123.00
4.10
4.10
-0.56
3.00
70.00
 | 3.81
Disney 861.00
123.00
4.10
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
 | 0.06 29.43 29.43 Disney 922.50 61.50 4.10 4.10 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 | 6.03 180.80 210.23 3.00 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 |
3.00
172.67
382.89
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.5 | 3.44
103.15
486.04
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-78.65
587.63
2.62
78.65
378.95 | 4.00
143.91
629.95
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
9.00
72.05
659.68
2.40
72.05
451.00 | 4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
3.00
9.00
9.00
9.00
79.75
739.43
2.66
79.75
530.75 | 3.00
-1.50
3.00
-1.50
3.00
-77.55
816.98
2.59
77.55
608.30
8
 | 1.43
44.81
883.92
9
3.00
-1.50
48.00
9.00
48.00
9.00
64.35
881.33
2.15
64.35
672.65
73 | 28.99
912.91
40
1.13
-0.56
39.00
9.00
9.00
9.00
9.3.42
934.75
1.78
53.42
726.07 | 4.67
917.58
917.58
1.13
-0.56
39.00
43.52
978.27
1.45
43.52
769.59 | 1.13
-0.56
39.00
43.52
1021.79
1.45
43.52
813.11 | 0.17
5.02
927.71
1.13
-0.56
38.00
42.42
1064.21
1.41
42.42
855.53 | 5.02
932.73
1.13
-0.56
5.00
5.00
11.62
1075.83
0.39
11.62
867.14 | 0.15
0.15
0.15
-0.08
5.00
5.58
1081.41
0.19
5.58
872.73
 | 0.00
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03 | 0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0
10.0
10.81
36
873
ML |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 2
Camp 4 - Stage 4
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 - Stage 2
Camp 4 - Stage 2
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 | ML/Mth ML/Mth ML/Mth ML/Mth ML/Mth Beds Beds S0% 0.50% 0.50% ML/Mth | 0.81
Disney
123.00
4.10
4.10
4.10
4.10 | Peabody
126.00
4.10
Peabody
126.00
126.00
126.00 | 1.92 Disney 369.00 123.00 4.10 20.00 20.00 22.00 22.00 22.00 130.20 130.20 126.00 | 3.20 Disney 492.00 123.00 4.10 0.15 -0.08 3.00 20.00 25.38 47.38 0.85 Peabody 134.40 126.00
 | 4.30
Disney 615.00
123.00
4.10
0.15
-0.08
-0.08
-0.08
-0.08
-0.08
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00
-0.00 | 3.30
Disney
738.00
123.00
4.10
4.10
4.10
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
70.00
7 | 3.81
Disney
861.00
123.00
4.10
3.00
-1.50
3.00
-1.50
3.00
61.00
61.00
72.05
72.05
72.05
 | 0.06 29.43 29.43 29.43 Disney 922.50 61.50 4.10 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 | 0.03 180.80 210.23 210.23 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 3.00 -1.50 56.00 9.00 76.45 221.65 | 3.00
172.67
382.89
382.89
382.89
382.89
382.89
382.89
300
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
58.00
9.00
9.00
9.00
9.00
 | 3.44
103.15
486.04
3.00
-1.50
3.00
-1.50
3.00
9.00
78.65
587.63
2.62
78.65
378.95 | 3.00
-1.50
3.00
-1.50
3.00
-2.05
659.63
659.63
659.63
451.00 | 4.15
124.60
754.55
3.00
-1.50
3.00
9.00
9.00
9.00
79.75
530.75
530.75 | 2.02
84.56
839.11
3.00
-1.50
3.00
-1.50
57.00
9.00
57.00
9.00
77.55
816.98
2.59
77.55
608.30
8
 | 1.43
44.81
883.92
9
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50 | 28.99
912.91
40
1.13
-0.56
39.00
9.00
9.00
9.00
9.3.42
726.07 | 1.13
1.13
1.13
-0.56
39.00
39.00
43.52
769.59 | 1.13
1.13
-0.56
39.00
43.52
1021.79
1.45
43.52
813.11 | 0.17
5.02
927.71
1.13
-0.56
38.00
42.42
1064.21
1.41
42.42
855.53 | 5.02
932.73
932.73
1.13
-0.56
5.00
5.00
11.62
867.14 | 0.15
0.15
0.15
0.15
-0.08
-0.08
5.00
5.58
1081.41
0.19
5.58
872.73
 | 0.00
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03 | 0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0
10.0
10.0
10.0
10.0
10.0
10.0
1 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4 - Fij
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 water recovery from recycled processes
Concrete Batch Plant - Camp 4 - Laydown Area
Earthworks/ Rail Formation & Track
Earthworks/ Rail Formation & Track
Earthworks & Rail Formation
Track Work
Post Construction Rehabilitation
Subtotal inc allowance
Cumulative Subtotal
Monthly Demand After Lease - Sunwater
Cumulative Demand After Lease - Sunwater
Cumulative Demand After Lease - Sunwater
Total ML/day (AVAILABLE) - Peabody
PROJECT DEMAND (MINE SIDE & PORT SID
Privice Monthly Demand | ML/Mth ML/Mth ML/Mth CH266) Beds Beds Beds S0% 0.50% 0.50% ML/Mth | 0.01
Disney
123.00
123.00
4.10
4.10
4.20
4.20 | Peabody
126.00
4.10
Peabody
126.00
4.20
4.57 | 1.92 Disney 369.00 123.00 4.10 20.00 20.00 22.00 22.00 22.00 130.20 130.20 126.00 4.20 | 3.20 Disney 492.00 123.00 4.10 0.15 -0.08 3.00 20.00 <td>4.30
Disney 615.00
123.00
4.10
0.15
-0.08
3.00
70.00
70.00
70.00
80.38
127.77
2.68
Peabody
138.60
126.00
4.20</td> <td>3.30 Disney 738.00 123.00 4.10 1.13 -0.56 3.00 70.00 70.00 80.92 208.68 2.70 Peabody 142.80 126.00 4.20</td> <td>3.81
Disney
861.00
123.00
4.10
3.00
-1.50
3.00
61.00
61.00
72.05
280.73
246.45</td> <td>29.43
29.43
Disney
922.50
61.50
4.10
3.00
-1.50
3.00
62.00
62.00
73.15
353.88
2.44
73.15
145.20</td> <td>0.03 180.80 210.23 210.23 3.00 - 3.00 - 56.00 9.00 76.45 221.65 221.65 221.65</td> <td>3.00
1172.67
382.89
382.89
3.00
-1.50
3.00
-1.50
58.00
9.00
9.00
9.00
78.65
508.98
2.62
78.65
300.30</td> <td>3.44
103.15
486.04
3.00
-1.50
3.00
58.00
9.00
9.00
9.00
9.00
9.00
9.00
9.00</td> <td>4.00
143.91
629.95
629.95
3.00
-1.50
3.00
-1.50
52.00
9.00
72.05
659.68
2.40
72.05
451.00</td> <td>4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
3.00
9.00
9.00
9.00
9.00
9.00
9.00
9.0</td> <td>2.52
84.56
839.11
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-77.55
816.98
2.59
77.55
608.30
8
8</td> <td>1.43
44.81
883.92
9
3
3.00
-1.50
-1.50
48.00
9.00
48.00
9.00
64.35
881.33
2.15
64.35
672.65
73</td> <td>28.99
912.91
40
1.13
-0.56
39.00
9.00
9.00
53.42
726.07
83.42
726.07</td> <td>4.67
917.58
1.13
-0.56
39.00
43.52
978.27
1.45
43.52
769.59</td> <td>1.13
-0.56
39.00
43.52
1021.79
1.43
52
813.11
48.62</td> <td>1.13
-0.56
38.00
42.42
1064.21
1.41
42.42
855.53</td> <td>1.13
-0.56
5.00
5.00
5.00
5.00
11.62
1075.83
0.39
11.62
867.14</td> <td>0.15
0.15
0.15
-0.08
5.00
5.58
1081.41
0.19
5.58
872.73
10.60</td> <td>0.00
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03</td> <td>0.5
6.8
27.0
.17.1
0.0
33.0
851.0
72.0
10.0
1081
1081
36
873
ML
2828.40</td>
 | 4.30
Disney 615.00
123.00
4.10
0.15
-0.08
3.00
70.00
70.00
70.00
80.38
127.77
2.68
Peabody
138.60
126.00
4.20 | 3.30 Disney 738.00 123.00 4.10 1.13 -0.56 3.00 70.00 70.00 80.92 208.68 2.70 Peabody 142.80 126.00 4.20 | 3.81
Disney
861.00
123.00
4.10
3.00
-1.50
3.00
61.00
61.00
72.05
280.73
246.45
 | 29.43
29.43
Disney
922.50
61.50
4.10
3.00
-1.50
3.00
62.00
62.00
73.15
353.88
2.44
73.15
145.20 | 0.03 180.80 210.23 210.23 3.00 - 3.00 - 56.00 9.00 76.45 221.65 221.65 221.65
 | 3.00
1172.67
382.89
382.89
3.00
-1.50
3.00
-1.50
58.00
9.00
9.00
9.00
78.65
508.98
2.62
78.65
300.30 | 3.44
103.15
486.04
3.00
-1.50
3.00
58.00
9.00
9.00
9.00
9.00
9.00
9.00
9.00 | 4.00
143.91
629.95
629.95
3.00
-1.50
3.00
-1.50
52.00
9.00
72.05
659.68
2.40
72.05
451.00 | 4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
3.00
9.00
9.00
9.00
9.00
9.00
9.00
9.0
 | 2.52
84.56
839.11
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-77.55
816.98
2.59
77.55
608.30
8
8 | 1.43
44.81
883.92
9
3
3.00
-1.50
-1.50
48.00
9.00
48.00
9.00
64.35
881.33
2.15
64.35
672.65
73 | 28.99
912.91
40
1.13
-0.56
39.00
9.00
9.00
53.42
726.07
83.42
726.07 | 4.67
917.58
1.13
-0.56
39.00
43.52
978.27
1.45
43.52
769.59 | 1.13
-0.56
39.00
43.52
1021.79
1.43
52
813.11
48.62 | 1.13
-0.56
38.00
42.42
1064.21
1.41
42.42
855.53 | 1.13
-0.56
5.00
5.00
5.00
5.00
11.62
1075.83
0.39
11.62
867.14 | 0.15
0.15
0.15
-0.08
5.00
5.58
1081.41
0.19
5.58
872.73
10.60
 | 0.00
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03 | 0.5
6.8
27.0
.17.1
0.0
33.0
851.0
72.0
10.0
1081
1081
36
873
ML
2828.40 |
| Monthly Demand After Lease End - Disney
Cumulative Demand After Lease - Disney
Cumulative Demand After Lease - Disney
Total ML/day (AVAILABLE) - Disney
USAGE PORT SIDE (Sunwater Connection to
Camp Infrastructure - Camp 4
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 - Stage 2
Camp 4 - Stage 2
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 - Stage 2
Camp 4 - Stage 2
Camp 4 - Stage 1
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 - Stage 1
Camp 4 - Stage 2
Camp 4 | ML/Mth ML/Mth ML/Mth ML/Mth Beds Beds Beds So% 0.5 ML/Mth ML/Mth | 0.81
Disney
123.00
4.10
4.10
4.20
4.20
0.81 | Peabody
126.00
4.10
Peabody
126.00
4.20
Peabody
126.00
4.20 | 1.92
Disney
369.00
123.00
4.10
20.00
22.00
22.00
22.00
0.73
Peabody
130.20
126.00
4.20
79.63
2.65 | 3.20
Disney
492.00
123.00
4.10
0.15
-0.08
3.00
20.00
20.00
25.38
47.38
0.85
Peabody
134.40
126.00
4.20
4.20
 | 4.30
Disney
615.00
123.00
4.10
0.15
-0.08
3.00
70.00
70.00
80.38
127.77
2.68
Peabody
138.60
128.60
128.00
4.20
211.05
7.04 | 3.30
Disney
738.00
123.00
4.10
4.10
4.10
-0.56
3.00
70.00
70.00
70.00
70.00
Peabody
142.80
126.00
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20
4.20 | 3.81
Disney
861.00
123.00
4.10
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
- | 29.43
29.43
Disney
922.50
61.50
4.10
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-2.55.01
145.20 | 0.03 180.80 210.23 210.23 3.00 - -1.50 3.00 -56.00 9.00 56.00 9.00 -76.45 430.33 2.55 766.45 221.65 221.65
 | 3.00
172.67
382.89
382.89
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
-2.62
78.65
300.30 | 3.44
103.15
486.04
3.00
-1.50
3.00
-1.50
58.00
9.00
78.65
587.63
2.62
78.65
378.95 | 4.00
143.91
629.95
629.95
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
9.00
72.05
659.68
2.40
72.05
451.00 | 4.13
124.60
754.55
3.00
-1.50
3.00
-1.50
3.00
-1.50
3.00
9.00
9.00
9.00
9.00
9.00
9.00
9.0
 | 2.52
84.56
83.9.11
3.00
-1.50
3.00
-1.50
3.00
-77.55
816.98
2.59
77.55
816.98
2.59
77.55
816.98
2.59
77.55
816.98
2.59
77.55
816.98
2.59
77.55
816.98
2.59
77.55
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.54
81.55
81.54
81.55
81.55
81.54
81.55
81.55
81.54
81.55
81.55
81.54
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
81.55
8 | 1.43
44.81
883.92
9
3.00
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50
-1.50 | 28.99
912.91
40
1.13
-0.56
39.00
9.00
9.00
9.00
9.00
9.3.42
726.07 | 4.67
917.58
917.58
1.13
-0.56
39.00
43.52
769.59
78.27
1.45
43.52
769.59 | 1.13
1.13
-0.56
39.00
43.52
1021.79
1.45
43.52
813.11
48.62
1.62 | 0.17
5.02
927.71
1.13
-0.56
38.00
42.42
1064.21
1.41
42.42
855.53
 | 5.02
932.73
932.73
1.13
-0.56
5.00
5.00
11.62
867.14
16.64
0.55 | 0.15
0.15
0.15
-0.08
5.00
5.58
1081.41
0.19
5.58
872.73
10.60
0.35 | 0.00
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
940.03
9400 | 940
940
ML
0.5
6.8
27.0
-17.1
0.0
33.0
851.0
72.0
10.0
10.0
10.0
10.81
36
873
ML
2828.40 |

Monthly Demand After Lease End - Disney ML/Mth					29.43	180.80	172.67	103.15	143.91	124.60	84.56	44.81	28.99	4.67	5.10	5.02	5.02	5.02	2.29	940
Monthly Demand After Lease End - Sunwater ML/Mth				72.05	73.15	76.45	78.65	78.65	72.05	79.75	77.55	64.35	53.42	43.52	43.52	42.42	11.62	5.58	0.00	873
roject Monthly Demand After Both Leases End ML/Mth				72.05	102.58	257.25	251.32	181.80	215.96	204.35	162.11	109.16	82.41	48.19	48.62	47.44	16.64	10.60	2.29	1813
Cumulative Demand After Both Leases End ML/Mth				72.05	174.63	431.88	683.19	864.99	1080.95	1285.30	1447.41	1556.57	1638.98	1687.17	1735.79	1783.23	1799.87	1810.47	1812.76	
Allowances 10% (washdown, wastage, other) 1.1																				

Published on prephilips Published on prephilips Rth Act 2009

Appendix D – **Disclaimer and Limitations**

This report has been prepared by CDM Smith Australia Pty Ltd (CDM Smith) for the sole benefit of Adani Infrastructure Pty Ltd for the sole purpose of providing a supporting document to a water permit application for the taking of water.

This report should not be used or relied upon for any other purpose without CDM Smith's prior written consent. Neither CDM Smith, nor any officer or employee of CDM Smith, accepts responsibility or liability in any way whatsoever for the use of or reliance on this report for any purpose other than that for which it has been prepared.

Except with CDM Smith's prior written consent, this report may not be:

- d. Released to any other party, whether in whole or in part (other than to officers, employees and advisers of Adani Infrastructure Pty Ltd);
- e. Used or relied upon by any other party; or
- f. Filed with any Governmental agency or other person or quoted or referred to in any public document.

Neither CDM Smith, nor any officer or employee of CDM Smith, accepts responsibility or liability for or in respect of any use or reliance upon this report by any third party.

The information on which this report is based has been provided by Adani Infrastructure Pty Ltd and third parties. CDM Smith (including its officers and employees):

- a. Has relied upon and presumed the accuracy of this information;
- b. Has not verified the accuracy or reliability of this information (other than as expressly stated in this report);
- c. Has not made any independent investigations or enquiries in respect of those matters of which it has no actual knowledge at the time of giving this report to Adani Infrastructure Pty Ltd; and
- d. Makes no warranty or guarantee, expressed or implied, as to the accuracy or reliability of this information.

In recognition of the limited use to be made by Adani Infrastructure Pty Ltd of this report, Adani Infrastructure Pty Ltd agrees that, to the maximum extent permitted by law, CDM Smith (including its officers and employees) shall not be liable for any losses, claims, costs, expenses, damages (whether in statute, in contract or tort for negligence or otherwise) suffered or incurred by Adani Infrastructure Pty Ltd or any third party as a result of or in connection with the information, findings, opinions, estimates, recommendations and conclusions provided in the course of this report.

If further information becomes available, or additional assumptions need to be made, CDM Smith reserves its right to amend this report.

Publichedon Actions