

INDEX TO EXHIBITS

JAW-1	Resume of Julius A. Wright, Ph.D.
JAW-2	Deep Point Ferry Terminal and Surrounding Areas
JAW-3	Parking Operations
JAW-4	Screenshots from Bald Head Island Ferry Website
JAW-5	Screenshot from MLS Listing
JAW-6	Bald Head Island Limited, LLC Project Pelican Confidential Memorandum, Draft – August 17, 2021
JAW-7	SharpVue Project Pelican Investment Opportunity January 2022
JAW-8	SharpVue Pelican Initial Valuation, December 8, 2021
JAW-9	Bond Feasibility Study for the Bald Head Island Transportation Authority, Mercator International, LLC Draft 4, Dec 2020
JAW-10	Responses to Village First Data Requests to Limited and BHIT, Request No. 2-10
JAW-11	Responses to Village Second Data Requests to Limited and BHIT
JAW-12	Barge Inventory
JAW-13	BHIT Quarterly Financial Report of Monthly Information, Docket No. A-41, Sub 7A (Feb. 17, 2022)
JAW-14	Deep Point Parking Facility (Parking Lot Space Allocation)
JAW-15	VBHI Complaint Data Response – Parking
JAW-16	Parkers by Month
JAW-17	MLS Listing

Exhibit JAW-1

Resume of Julius A. Wright, Ph.D.

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

Julius A. "Chip" Wright is the President of
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Experience Overview

Prior to starting his firm, Dr. Wright was a Client Partner for AT&T Solutions Utilities and Energy Practice and before that a Principal in EDS' Management Consulting Services. Dr. Wright has been consulting electric gas, and telephone utilities on regulation, economics, rates, production modeling and strategic planning for the past three years. Prior to this Dr. Wright served an eight-year term as a Utility Commissioner for the state of North Carolina. Prior to that he served three terms in the North Carolina State Senate while he was a senior project engineer for Corning Glass Works on their optical wave guide project in Wilmington, North Carolina. He has a total of 14 years' government-related experience, 12 years' chemical plant-related engineering experience, and he has established two companies.

Dr. Wright, beginning in 2020, is also an Adjunct Professor at Emory University in Atlanta GA. providing lectures and graduate level student assistance related to economic and public policy issues. In addition, (2011) he was a Visiting Professor at the University of the Virgin Islands teaching sophomore courses in both Macro and Micro Economics.

While serving on the North Carolina Utility Commission, he served four years on the National Association of Regulatory Utility Commissioners (NARUC) Electricity Committee. He has served in various other advisory capacities, including the Keystone

Committee on Externalities; the North Carolina Radiation Protection Committee, and on an Oversight Committee for a joint North Carolina/New York/ Department of Energy (DOE) project.

Dr. Wright has also served on the Southern States Energy Board Task Force on Restructuring the Electric Utility Industry.

Regulatory Policy Issues, Prudence Reviews and Regulatory Studies

- Presented testimony to the South Carolina Utility Commission in support of Duke Energy Carolina's and Duke Energy Progress' filings related to the appropriate tariff design and economic issues related to solar and net metering tariffs, November 2020, Docket No. 2019-182-E.
- Regulatory Policy: Presented testimony to the South Carolina Utility Commission in support of Duke Energy Progress' efforts to recovery coal ash remediation costs the Company incurred in response to new coal ash disposal costs, Docket No. 2018-318-E.
- Presented testimony and rebuttal testimony to the North Carolina Utility

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

Commission in support of Duke Energy Carolinas' efforts to recovery coal ash remediation costs the Company incurred in response to new coal ash disposal costs, Feb., 2017, Docket No. E-7, Sub 1146.

- Presented testimony and rebuttal testimony to the North Carolina Utility Commission in support of Duke Energy Progress' efforts to recovery coal ash remediation costs the Company incurred in response to new coal ash disposal costs, June and November, 2017, Docket No. E-2, Sub 1146.
- Provided testimony and rebuttal testimony on behalf of Duke Energy Carolinas in North Carolina related to the appropriate regulatory policy with respect to the recovery of coal ash remediation costs. Docket No. E-7, Sub 1146, August 25, 2017.
- Provided testimony and rebuttal testimony on behalf of Duke Energy Progress in North Carolina related to the appropriate regulatory policy with respect to the recovery of coal ash remediation costs. Docket No. E-2, Sub 1142, June 1, 2017.
- Provided Testimony on behalf of Dominion Energy North Carolina related to the appropriate regulatory policy related to the Commission's rule regarding the

use of the Company's nuclear capacity factor compared to national averages as a way to determine the prudence of nuclear operations in a fuel cost recovery proceeding, Docket No. E-22, Sub 546, October 2017.

- Prudence review: report for Georgia Power Company regarding the prudence of Plant Vogtle new nuclear construction costs, *"The South Carolina Public Service Commission's Prudence Reviews of Summer Units 2 and 3 as Persuasive Precedent for the Georgia Public Service Commission's Regulatory Treatment of Vogtle Units 3 and 4,"* April 5, 2016, Georgia Public Service Commission, Docket No 29849.
- Regulatory study: *"The Economic and Rate Implications from an Electric Utility's Loss of Large Load Customers,"* presented in rebuttal testimony for Progress Energy Carolinas, North Carolina Utility Commission Docket No. E-2, Sub 1023, March 4, 2013.
- Regulatory study: Dr. Wright routinely provides testimony support and witness training to several Fortune 500 investor-owned utilities in the Southeast, most recently involving two rate cases (2011, 2012) and three rate related cases dealing with an ongoing

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

nuclear construction project (2008, 2010, 2012).

- Prudence review: related to a review of affiliate cost structure relative to compliance with FERC Order 707, conducted for a major SE utility, 4th quarter, 2008.
- Prudence review: related to a review of Affiliate Cost for Service Company Charges to a Regulated Utility, study conducted for SCANA Corporation, May, 2008.
- Regulatory study: review of Electric Utility Formula Rate Plans and specific Entergy formula rate plans, conducted for Entergy Mississippi, Jan-May, 2008.
- Prudence review: June 2005, provided a financial analysis related to the options for collecting and saving nuclear plant decommissioning costs for Duke Energy and this study along with a presentation was provided to the North Carolina Public Utility Commission and Staff.
- Regulatory study: provided analysis for Entergy Mississippi that was presented to the Mississippi Public Service Commission related to the valuation of services that Company provided to an unregulated affiliate, November 2002.
- Prudence review: *"Energy Deregulation,"* March 2001, report of the California State Auditor on the causes of the problems related to high

electric prices and blackouts (from May, 2000 through June 2001, and ongoing) in California's restructured electric marketplace. Dr. Wright was one of three consultants who essentially researched and prepared the State Auditor's report.

- Prudence review: Principal author with Dr. Al Danielsen of *"Reliability of Electric Supply In Georgia,"* published by The Bonbright Utilities Center, University of Georgia, June, 2001.
- Regulatory Policy & Study: Presented testimony before the North Carolina Public Utilities Commission on behalf of SCANA Corporation regarding issues related to market power in its merger with Public Service Company of North Carolina, Docket No. G-5, Sub 400; G-3, Sub 0, 2000.
- Prudence review: was the principal author of a report and investigation titled *"An Analysis of Commonwealth Edison's Planning Process For Achieving Reliability of Supply,"* which was an investigation of the Company's planning process to meet its statutory obligation for supplying electricity as Illinois transitions to a competitive retail electric market, Illinois Commerce Commission Docket No. 98-0514.
- Regulatory study: co-authored a national study that used computer modeling techniques to quantify the impact of electric competition on the

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

aggregate economy in each of the 48 continental United States.

- Regulatory Policy: presented testimony to Louisiana Legislative Committee on behalf of Entergy Corporation regarding the various regulatory and technical issues that need to be addressed in the transition to competition.
- Regulatory Policy: presented testimony For Virginia Power with regard to its transition to competition plan.
- Regulatory Policy: testified before the Mississippi Public Service Commission on issues related to the establishment of retail electric competition, including ISO establishment, regional power exchanges, legislation, taxes and regulatory policies.
- Regulatory Policy: presented testimony for Entergy Corp. in both Louisiana and Arkansas in support of its transition to competition filing.
- Regulatory study: worked with three major southeastern utilities on developing business and regulatory strategy as they prepare for competition.
- Regulatory Policy & Study: filed a report with the South Carolina Legislature that studied the impact of electric competition on the state of South Carolina.
- Was a panelist on a Southern Gas Association national televised forum on performance based regulation for the natural gas industry.
- Regulatory Policy & Study: Was the lead policy witness for South Carolina Electric and Gas on obtaining regulatory approval to transfer depreciation reserve from a nuclear plant to T&D depreciation reserve. This is a critical issue in preparing for competition and limiting stranded investment.
- Developed regulatory and marketing strategy for Entergy with regard to its telecommunications initiatives. In these efforts he worked with the EDS Telecommunications Consulting Group.
- Prudence review: was the lead analysis of the prudence of Central Vermont Public Service Company's power and resource acquisitions over a five year period. The prudence of this utility's power supply strategy was under investigation in a rate case proceeding. Dr. Wright's team filed testimony supporting the Company and their efforts were instrumental in undermining the charges of imprudence brought by the Company's opposition.
- Regulatory Policy & Study: developed an EDS intra-company task force to address the issues related to FERC's Transmission NOPR. This task

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

force subsequently filed three responses to FERC's Open Access NOPR which provide a basis for EDS to maintain a leadership position as the electric utility industry undergoes restructuring to a competitive market.

- Regulatory study: helped develop a regulatory strategy and presented testimony on behalf of South Carolina Pipeline. In this case, an economic analysis prepared by Dr. Wright and Dr. Frank Cronin (from EDS Economic Planning and Analysis Consulting Group) was presented along with recommendations. The analysis and recommendations were generally accepted by the Commission staff.
- Prudence reviews: as a North Carolina Utility Commissioner Dr. Wright was involved in the prudence reviews of the costs related to the construction of three nuclear plants, Catawba 1 & 2 and Shearon Harris. In addition, he was involved in several other prudence reviews of various utilities.

Resource Planning & Economic Analysis

As a Commissioner he has been involved in a variety of resource planning issues including chairing the last North Carolina Resource Planning hearing that involved Duke Power Company, Carolina Power and Light, Virginia Power Company and the North Carolina Electric Membership Corporation.

He was also selected by the states of North Carolina and New York and the Department of Energy to be one of five representatives on a

peer review panel overseeing a Resource Planning project being conducted by the Oak Ridge National Laboratories. In addition to these initiatives Dr. Wright has:

- Presented testimony to the South Carolina Utility Commission in support of Duke Energy Carolina's and Duke Energy Progress' filings related to the appropriate tariff design and related economic issues related to solar and net metering tariffs, November 2020, Docket No. 2019-182-E.
- *"The Economic and Rate Implications from an Electric Utility's Loss of Large Load Customers,"* presented in rebuttal testimony for Progress Energy Carolinas, North Carolina Utility Commission Docket No. E-2, Sub 1023, March 4, 2013.
- Provided an analysis of electric vehicle economics and the legislative, engineering, and regulatory issues that regulated electric utilities should address in both residential and commercial installments of electric vehicle charging stations. Studied performed for Fortune 500 Southeastern investor-owned utilities, 2011-2012.
- Provided a study to a Fortune 500 large Southeastern investor-owned utility related to the use of regulated electric rates designed to help retain current large industrial customers, 2012.

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

- Provided a Fortune 500 large Southeastern based investor-owned electric utility an economic, engineering, and environmental evaluation of a proposed renewable fuel alternative including the provision of an assessment and the design for a large-scale pilot test in one of that utility's fossil-fired facilities, 2012.
- Regulatory Policy, Rates & Testimony: Provided testimony in North Carolina for Bald Head Association and the Village of Bald Head Island related to the rates and services for ferry transportation to the island from the mainland. Docket No. A-41, Sub 7, Sept. 30, 2010.
- Regulatory Policy & Testimony: Provided testimony for Entergy Mississippi related to whether the Mississippi Public Service Commission should adopt some proposed Federal standards related to integrated resource planning and energy efficiency, Docket No. 2008-AD-477, February 2009.
- Provided a report to Entergy Mississippi on fuel cost recovery mechanisms that included a nationwide survey of fuel adjustment and any related performance based regulatory mechanisms, 2008.
- Regulatory Policy & Testimony: Provided testimony in North Carolina for Duke Energy related to whether the North Carolina Public Utility Commission should approve the recovery of nuclear generation project development costs, Docket No. E-7-Sub 819, April 2008.
- Provided a review for Duke Energy of the cost assumptions and regulatory initiatives related to new nuclear plant construction nationwide, April 2008.
- Provided analysis for Entergy Mississippi related to new nuclear plant applications and any new regulatory mechanisms adopted by various states related to the approval or cost recovery associated with these new nuclear plants, April 2008.
- Presented testimony on behalf of Entergy Mississippi on its IRP or electric resource plan and demand side initiatives, June, 2008, Docket No. 2008-AD-158.
- Provided testimony in Georgia for Georgia Power Company supporting that Company's Integrated Resource Planning (IRP) process, the appropriate methods for evaluating demand side energy options, and supporting that Company's planned demand side programs, Docket No. 24505-U, June 2007.
- Regulatory Policy & Testimony: Provided testimony in North Carolina for Duke Energy and Progress Energy related to the regulatory and economic rationale and appropriateness for using the "peaker" methodology and other methodologies for the

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

establishment of avoided cost rates,
Docket No. E-100-Sub 106, June 2007.

was under a contract from Oak Ridge
National Laboratories.

- Regulatory Policy & Testimony: Provided analysis for Entergy Mississippi that was presented to the Mississippi Public Service Commission related to the valuation of services that Company provided to an unregulated affiliate, November 2002.
- Regulatory Policy & Testimony: Was the lead policy witness for South Carolina Electric and Gas on obtaining regulatory approval to transfer depreciation reserve from a nuclear plant to T&D depreciation reserve. This is a critical issue in preparing for competition and limiting stranded investment.
- Was instrumental in acquiring a large engagement for a major southeastern utility examining their competitive position as it relates to a competitive electric market. During the engagement he provided input and guidance on regulatory issues related to the deregulation of the electric industry.
- Assisted Carolina Power and Light Company in their integrated resource planning process by advising and facilitating a Commission directed public policy panel.
- Developed an overview of Niagara Mohawk Gas' integrated resource planning efforts. This engagement

Renewable Fuels, Demand Side, Energy Efficiency

- Regulatory Policy & Testimony: Presented testimony to the South Carolina Utility Commission in support of Duke Energy Carolina's and Duke Energy Progress' filings related to the appropriate tariff design and economic issues related to solar and net metering tariffs, November 2020, Docket No. 2019-182-E.
- Regulatory Policy & Study: Provided an analysis of electric vehicle economics and the legislative, engineering, and regulatory issues that regulated electric utilities should address in both residential and commercial installments of electric vehicle charging stations. Studied performed for Fortune 500 Southeastern investor-owned utilities, 2011-2012.
- Provided a Fortune 500 large Southeastern based investor-owned electric utility an economic, engineering, and environmental evaluation of a proposed renewable fuel alternative including the provision of an assessment and the design for a large-scale pilot test in one of that utility's fossil-fired facilities, 2012.
- Provided testimony for Entergy Mississippi related to that Company's

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

proposed new demand side initiatives
Docket No. EC-123-0082-00, February
2009.

- Regulatory Policy & Testimony:
Provided testimony for Entergy
Mississippi related to whether the
Mississippi Public Service Commission
should adopt some proposed Federal
standards related to integrated
resource planning and energy
efficiency, Docket No. 2008-AD-477,
February 2009.
- Presented testimony on behalf of
Public Service of North Carolina
supporting that Company's proposed
demand side initiatives as well as the
cost recovery of those initiatives,
Docket No. G-5, Sub 495, March 2008.
- Regulatory Policy & Testimony:
Provided testimony in South Carolina
for Duke Energy, South Carolina
Electric and Gas, and Progress Energy
related to whether the South Carolina
Public Service Commission should
adopt some proposed Federal
standards related to smart metering
and energy efficiency rate setting
procedures, Docket No. 2005-386-E,
April, 2007.
- Provided testimony in South Carolina
for South Carolina Electric and Gas
related to Integrated Resource
Planning and that Company's demand
side initiatives, June 2007.
- Provided testimony in Georgia for
Georgia Power Company supporting

that Company's Integrated Resource
Planning process, the appropriate
methods for evaluating demand side
energy options, and supporting that
Company's planned demand side
programs, Docket No. 24505-U, June
2007.

- Regulatory Policy & Testimony:
Provided testimony in North Carolina
for Duke Energy and Progress Energy
related to whether the North Carolina
Public Utility Commission should
adopt some proposed Federal
standards related to smart metering,
energy efficiency, and electric resource
planning, Docket No. E-100-Sub 108,
November 2006.

Nuclear Issues

- Regulatory Policy & Testimony:
Provided Testimony on behalf of
Dominion Energy North Carolina
related to the appropriate regulatory
policy related to the Commission's rule
regarding the use of the Company's
nuclear capacity factor compared to
national averages as a way to
determine the prudence of nuclear
operations in a fuel cost recovery
proceeding, Docket No. E-22, Sub 546,
October 2017.
- Prudence review: report for Georgia
Power Company regarding the
prudence of Plant Vogtle new nuclear
construction costs, "*The South Carolina
Public Service Commission's Prudence*

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

Reviews of Summer Units 2 and 3 as Persuasive Precedent for the Georgia Public Service Commission's Regulatory Treatment of Vogtle Units 3 and 4," April 5, 2016, Georgia Public Service Commission, Docket No 29849.

- Dr. Wright provided testimony support and witness training involving three rate related cases dealing with an ongoing nuclear construction project (2008, 2010, 2012).
- Regulatory Policy & Testimony: Provided testimony in North Carolina for Duke Energy related to whether the North Carolina Public Utility Commission should approve the recovery of nuclear generation project development costs, Docket No. E-7-Sub 819, April 2008.
- August 2008 provided a study to Duke Energy Carolinas examining the issue of cost justification for new nuclear power facilities.
- June, 2005, provided a financial analysis related to the options for collecting and saving nuclear plant decommissioning costs for Duke Energy and this study along with a presentation was provided to the North Carolina Public Utility Commission and Staff.

Cost of Service, Rate Design, Performance Based Regulation, Forecasting

While serving more than eight years on the North Carolina Commission, Dr. Wright was involved in several cost of service and rate design analyses, testimonies, and orders. This included work in electric, telephone, gas, and water utilities. Additionally, he has presented testimony on performance based ratemaking, and for over two decades has worked extensively with Entergy Mississippi and the Mississippi Public Service Commission on that utility's performance based regulatory mechanism (which is thought to be the oldest continuously operating major electric utility PBR mechanism in the nation). He has also been involved in analyzing electric utility forecasting models, including end-use models, regression analysis (both linear and nonlinear) and customer discrete choice modeling forecasts. Furthermore, Dr. Wright's Ph.D. is in environmental and regulatory economics with special research into nonlinear minimal cost optimization procedures for electric utility production models. This work included optimizing investments, optimal regulatory regimes, pricing, cost recovery, and rate of return issues.

In addition, he has:

- Regulatory Policy & Testimony: Presented testimony to the South Carolina Utility Commission in support of Duke Energy Carolina's and Duke Energy Progress' filings related to the appropriate tariff design and economic issues related to solar and net metering tariffs, November 2020, Docket No. 2019-182-E.
- Presented testimony to the South Carolina Utility Commission in support

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

of Duke Energy Progress' efforts to recovery coal ash remediation costs the Company incurred in response to new coal ash disposal costs, Docket No. 2018-318-E.

- Regulatory Policy, Study & Testimony: *"The Economic and Rate Implications from An Electric Utility's Loss of Large Load Customers,"* presented in rebuttal testimony for Progress Energy Carolinas, North Carolina Utility Commission Docket No. E-2, Sub 1023, March 4, 2013.
- Provided a study to a Fortune 500 large Southeastern investor-owned utility related to the use of regulated electric rates designed to help retain current large industrial customers, 2012.
- Regulatory Policy & Testimony: Presented testimony on behalf of Public Service of North Carolina related to the establishment of a formulary performance type rate setting mechanism for this natural gas LDC, August 2008, Docket No. G-5, Sub 495.
- Regulatory Policy & Testimony: Provided testimony in Georgia for Georgia Power Company supporting that Company's methodology for pricing fuel and its use of marginal replacement fuel cost procedures in its intra-company resource sharing arrangement with the Southern company, Docket No. 191142-U, April 2005.
- Regulatory Policy & Testimony: Provided an economic analysis of the proper regulatory regime for South Carolina Pipeline Company. In this analysis he presented testimony supporting performance based ratemaking and his recommendations were generally accepted by the Commission staff.
- Developed forecasted rates for two New York state utilities. These rates were developed to support a bond filing by a co-generator.
- Provided a forecast of power payments from New York State Electric and Gas (NYSEG) to two independent power producers (IPPs). This forecast was used to estimate the level of overpayments by NYSEG to these IPPs, under PURPA regulations, which he used in a filing before FERC supporting the company's claim of unlawful overpayments.

Telecommunications

As a Commissioner he has regulated all types of telecommunications providers for eight years. In addition, he has worked with two electric utilities in strategy formulation in regard to their entering the telecommunications business. Furthermore, he has eight years experience as a fiber optic engineer.

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

Other Areas of Expertise

Prior to joining EDS, he worked for eight years as a senior process engineer for Corning Glass in the design and production of optical waveguides (or fiber optics). Prior to that he worked for four years in the chemical industry as a process chemist and later as a senior project engineer. He has done work in environmental monitoring, process and product improvement, plant utilization, as well as starting and selling two successful companies – one in the financial leasing business and the other in the entertainment industry.

Presentations and Publications

Report for Georgia Power Company regarding the prudence of Plant Vogtle new nuclear construction costs, *"The South Carolina Public Service Commission's Prudence Reviews of Summer Units 2 and 3 as Persuasive Precedent for the Georgia Public Service Commission's Regulatory Treatment of Vogtle Units 3 and 4,"* April 5, 2016, Georgia Public Service Commission, Docket No 29849.

"The Economic and Rate Implications from An Electric Utility's Loss of Large Load Customers," presented in rebuttal testimony for Progress Energy Carolinas, North Carolina Utility Commission Docket No. E-2, Sub 1023, March 4, 2013.

"Energy Deregulation," March 2001, report of the California State Auditor on the causes of the problems related to high electric prices and blackouts (from May, 2000 through June 2001,

and ongoing) in California's restructured electric marketplace. Dr. Wright was one of three consultants who essentially researched and prepared the State Auditor's report.

"Low Cost States and Electric Restructuring - The Issue is the Price!" presented to the 1999 Miller Forum on Government, Business and the Economy, University of Southern California, April 19, 1999.

An Analysis of Commonwealth Edison's Planning Process For Achieving Reliability of Supply, Illinois Commerce Commission Docket No. 98-0514.

The Impact of Competition on the Price of Electricity, author, published by L. A. Wright and Associates, November, 1998.

"Retail Competition in the Electric Industry: The Impact on Prices," presented at the 18th Annual Bonbright Center Energy Conference, Atlanta, Georgia, Sept. 10, 1998.

Potential Economic Impacts of Restructuring the Electric Utility Industry, co-author, published by the Small Business Survival Committee, Washington, DC, November, 1997.

"How Deregulation Will Affect Power Quality and Energy Management," presented at the Power Quality and Energy Management Conference co-sponsored by Entergy and EPRI, New Orleans, LA, Nov. 14, 1997.

"Deregulation of the Electric Industry," Proceedings: National Business Energy Forum, New Orleans, LA, June 26, 1997.

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

"A Different View of the Market," presented at the Southeastern Electric Exchange Conference, Charlotte, N.C., June 25, 1997.

"Restructuring The Electric Utility Industry: Theory vs. Reality," presented at the American Bar Association Restructuring Conference, Raleigh, NC, Dec. 5, 1996.

"Restructuring: The Best Approach for Virginia," presented at the Virginia State Corporation Commission Electricity Restructuring Forum, Charlottesville, VA, Nov. 15, 1996.

"Alternative Rate Making for the Natural Gas Industry: State Issues," presented at the Tenth Annual NARUC Biennial Regulatory Information Conference, Columbus, Ohio, Sept. 12, 1996.

"RetailCo: To Regulate or Not?" presented at the 9th Annual Automatic Meter Reading Symposium, New Orleans, La., Sept. 10, 1996.

"Convergence: The Competitive Revolution Comes To Electric Power," presented to the Southeastern Association of Regulatory Commissioners Annual Convention, Point clear, Alabama, June 4, 1996.

"Stranded Assets Recovery Issues," presented at the Western Electric Power Institute: Financial Forum, Tucson, Arizona, March 8, 1996.

"The Deregulation of the Electric Utility Industry : Current Status," presented at the North Carolina Economic Developers Association Midwinter Conference, Pinehurst, N.C., February 23, 1996.

"Performance Based Regulation for The Natural Gas Industry," panelist on Southern Gas Association's Televised Regulatory Forum, Dallas, Texas, Jan. 18, 1996.

"Industry Structure Should Meet Stakeholder Objectives," Electric Light and Power, Jan., 1996.

"Quantifying the Value of Stranded Investment: A Dynamic Modeling Approach," Proceedings: Implementing Transmission Access and Power Transactions Conference, Denver, Colorado, Dec. 14, 1995.

"Quantifying the Value of Stranded Investment: A Dynamic Modeling Approach," at the 15th Annual Bonbright Center Electric and Natural Gas Conference, October 9-11, 1995, Atlanta, Georgia.

Comments to FERC in the matter of Notice of Proposed Rulemaking on Open Access, Docket No. 95-9-000, 1995.

"The Road to Competition for Re-Regulated Industries," presented at the 1995 National PROMOD users Forum, St. Petersburg, Florida, May 1, 1995.

"Comparing New York State Electric and Gas Corporation's Non-Utility Generator Payments to Current Avoided Cost Rates," report submitted in support of affidavit filed before FERC in Docket No. EL 95-28-000.

"A Solution To The Transmission Pricing and Stranded Investment Problems" Public Utilities Fortnightly, January 1995.

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

"Electric Utility Competition: The Winning Focus," presented at 1994 Southeastern Electric and Natural Gas Conference, Atlanta, Georgia, October 1994.

"Gas Integrated Resource Planning: The Niagara Mohawk Experience," for Martin Marietta Energy Systems, Inc., under contract to the United States Department of Energy, ORNL/SUB/93-03369.

"Future Regulation In the Water Industry - Can We Solve the Problems Before They Happen?" Water, Vol. 29, No. 2, pp. 14-17, Summer 1988.

"The Regulatory Process - Historical and Today," presented at Carolina Power and Light Company's IRP Public Participation Committee Seminar, June 1994.

"The Regulatory Role In DSM: Who Pays?" presented at Carolina Power and Light Company's IRP Public Participation Committee Seminar, June 1994.

"The Regulatory Process In North Carolina," North Carolina Telephone Association, June 1991.

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

Testimony

- Provided testimony and rebuttal testimony on behalf of Duke Energy Carolinas and Duke Energy Progress in South Carolina related to the appropriate regulatory policy and economic valuation of solar related net energy metering. Docket No. 2019-182-E, October 2020.
- Provided testimony and rebuttal testimony on behalf of Duke Energy Carolinas in North Carolina related to the appropriate regulatory policy with respect to the recovery of coal ash remediation costs. Docket No. E-7, Sub 1146, August 25, 2017.
- Provided testimony and rebuttal testimony on behalf of Duke Energy Progress in North Carolina related to the appropriate regulatory policy with respect to the recovery of coal ash remediation costs. Docket No. E-2, Sub 1142, June 1, 2017.
- Provided Testimony on behalf of Dominion Energy North Carolina related to the appropriate regulatory policy related to the Commission's rule regarding the use of the Company's nuclear capacity factor compared to national averages as a way to determine the prudence of nuclear operations in a fuel cost recovery proceeding, Docket No. E-22, Sub 546, October 2017.
- Presented testimony before the Mississippi Public Service Commission on behalf of Entergy Mississippi, Inc., in support of that company's revisions to its Formula Ratemaking procedures, Docket No. 2014-UN-132, June 2014.
- Rebuttal testimony for Progress Energy Carolinas, related to the economic and rate implications from an electric utility's loss of large load customers, North Carolina Utility Commission Docket No. E-2, Sub 1023, March 4, 2013.
- Provided a study to a Fortune 500 large Southeastern investor-owned utility related to the use of regulated electric rates designed to help retain current large industrial customers, and developed proposed testimony in support of this issue, 2012.
- Provided an affidavit in support of Progress Energy Carolinas to the North Carolina Utility Commission in a proceeding considering the appropriate avoided cost rates that should be paid to an independent power producer, Docket No. E-2, Sub 966, Sept. 2010.
- Presented testimony on behalf of Entergy Mississippi in an investigation of the Commissions procedures concerning confidentiality, Docket No. 2010-AD-259, August, 2010.
- Presented testimony before the Mississippi Public Service Commission on behalf of Entergy Mississippi, Inc.,

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

in support of the formula rate plan annual evaluation, Docket No. 2002-UN-526, March, 2009.

- Presented testimony before the Mississippi Public Service Commission on behalf of Entergy Mississippi, Inc., in support of an energy efficiency pilot program and cost recovery mechanism, Docket No. 2009-UN-064, February, 2009.
- Presented testimony before the Mississippi Public Service Commission on behalf of Entergy Mississippi, Inc., in a proceeding to review statewide energy generation needs, Docket 2008-AD-270, August 2008.
- Presented testimony on behalf of Public Service of North Carolina related to the establishment of a formulary type rate setting mechanism for this natural gas LDC, August, 2008, Docket No. G-5, Sub 495.
- Presented testimony on behalf of Entergy Mississippi in an investigation of that utility's fuel charges and its fuel cost recovery, July, 2008, Docket No. 2008-AD-270.
- Presented testimony on behalf of Entergy Mississippi on its IRP or electric resource plan and demand side initiatives, June, 2008, Docket No. 2008-AD-158.
- Presented testimony for Duke Energy in North Carolina related to the approval to incur pre-construction

costs for the proposed Lee Nuclear Station, Docket No. E-7, Sub 819, May, 2008.

- Presented testimony for Duke Energy in South Carolina related to the approval to incur pre-construction costs for the proposed Lee Nuclear Station, Docket No. 2007 -440-E, June, 2008.
- Presented rebuttal testimony for Duke Energy in North Carolina related to the recovery of costs incurred by Duke related to GridSouth and why these expenses should be fully recoverable at this time, Docket No. E-7, Sub 828, October, 2007.
- Provided testimony for Georgia Power in its 2007 Integrated Resource Plan reviewing the plan filed by the Company and discussing how its demand-side proposals were reasonable, compared the Company's demand-side proposals to those found in neighboring states, and discussed the application of the various tests used to evaluate demand-side programs (TRC, RIM, PTC), Docket number 24505-U, May, 2007.
- Presented two testimonies before the South Carolina Public Service Commission on behalf of South Carolina Electric and Gas, Duke Energy and Progress Energy Carolinas in the investigation of adoption of energy efficiency and generation standards related to the Energy Policy

Dr. Julius A. "Chip" Wright

J. A. Wright & Associates, LLC

Act of 2005, Dockets No. 2005-385-E and No. 2005-386-E, April, 2007.

- Presented testimony before the North Carolina Public Utilities Commission on behalf of Duke Energy and Progress Energy Carolinas in the investigation of adoption of energy efficiency and generation standards related to the Energy Policy Act of 2005, Docket No. E-100, Sub 108 November 2006.
- Presented testimony before the North Carolina Public Utilities Commission on behalf of Duke Energy in the investigation of Duke Energy's 2006 Integrated Resource Plan, Docket No. E-100, Sub 103, June, 2006.
- Provided testimony for Georgia Power in its 2005 Fuel Adjustment Hearing on the issue of the appropriate pricing methodology for the dispatch and sale of electricity in the Southern Company system, Docket number 19142-U, April, 2005.
- Presented testimony on behalf of South Carolina Electric and Gas Company before the South Carolina Public Utility Commission for South Carolina Pipeline Company related to the inclusion of a generating plant in rate base and to the recovery of RTO (Gridsouth) related costs, Docket No. 2004-178-E, October, 2004.
- Presented testimony on behalf of Entergy Mississippi before the Mississippi civil court dealing with

maintaining the confidentiality of special use contracts, August, 2004.

- Presented rebuttal testimony before the South Carolina Public Utility Commission for South Carolina Pipeline Company related to the reasons for continuing a program that allows flexible, competitive based pricing for large, interruptible customers that have alternative fuels, Docket No. 2004-6-G, May 29, 2004.
- Presented testimony before the Georgia Public Service Commission on the appropriate range for a return on equity earnings band (a form of performance based regulation) to set in a Savannah Electric & Power Company rate case, Docket No. 14618-U, April, 2002.
- Presented testimony before the Georgia Public Service Commission on behalf of Scana Energy Marketing related to affiliate relationships and the appropriate affiliate rules between Atlanta Gas Light Company's regulated and unregulated affiliates. Docket No. 146060-U, August 24, 2001.
- Presented testimony before the Georgia Public Service Commission on the appropriate range for a return on equity earnings band (a form of performance based regulation) to set in a Georgia Power Company rate case, Docket No. 14000-U, November 19, 2001.

Dr. Julius A. "Chip" Wright

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- Presented testimony before the North Carolina Public Utilities Commission on behalf of SCANA Corporation regarding issues related to market power the appropriate affiliate relationship protections necessary in its merger with Public Service Company of North Carolina, Docket No. G-5, Sub 400; G-3, Sub 0.
- Presented testimony before the South Carolina Public Service Commission on behalf of South Carolina Pipeline Corporation regarding issues related to its annual review of gas costs as reflected in its purchase gas adjustment charge, Docket No. 1999-007-G, September, 1999.
- Presented testimony before the Arkansas Public Service Commission on behalf of Entergy Arkansas, Inc. regarding regulatory policies related to the definition of public utilities as it impacts citing requirements of non-utility owned generating facilities, Dockets No. 98-337-U, March 9, 1999.
- Presented Rebuttal and Surrebuttal testimony before the Louisiana Public Service Commission on behalf of Entergy Louisiana, Inc. and Entergy Gulf States regarding regulatory policies related to stranded cost recovery and on the issue of whether investors have been compensated for the risk of not recovering stranded costs, Dockets Nos. U-22092SC and U-20925, September, 1998.
- Presented testimony to the South Carolina Public Utility Commission for South Carolina Pipeline Corp. related to acquisition adjustments and regulatory policies related to performance based regulation, Docket No. 90-588-G, June, 1998.
- Testified before the Mississippi Public Service Commission on issues related to the establishment of retail electric competition, including ISO establishment, regional power exchanges, legislation, taxes and regulatory polices, April 16, 17, 1997.
- Support of Transition Proposals filed by Virginia Power Corporation, March, 1997.
- Entergy Arkansas testimony in support of Transition to Competition Filing, 1997.
- Entergy Louisiana testimony in support of Transition to Competition Filing, 1997.
- Support of Performance Based Regulation for GTE South Inc., Docket No. P-19, Sub 277, before the North Carolina Utility Commission, filed Nov. 22, 1995.
- Stranded Cost Regulatory Policy and Recovery Testimony before the South Carolina Public Service Commission, the Commission approved the request Dr. Wright was advocating, Docket No. 95-1000-E, October 27, 1995.

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J. A. Wright & Associates, LLC

- Performance based rate making mechanism and rate levels, testimony on behalf of South Carolina Pipeline Corporation, Docket No. 90-588-G, filed August 3, 1995.
- Prudence Review of Power Resource Planning for Central Vermont Public Service Company, Docket No. 5724, September 7, 1994.
- Rebuttal testimony on behalf of Central Vermont Public Service Company, Docket 5724, September 7, 1994.
- Surrebuttal testimony on behalf of Central Vermont Public Service Company, Docket No. 5724, September 9, 1994.

In addition, he has completed the Michigan State University Regulatory Course, several other NARUC courses on regulation, been an instructor on regulatory issues at several NARUC courses, completed management courses at Corning Glass and financial seminars at Bank Boston and Merrill Lynch dealing with regulation.

Dr. Wright (in 2011) has also been a Visiting Professor at the University of the Virgin Islands teaching sophomore courses in both Macro and Micro Economics.

Education

Dr. Wright received a Ph.D. in Economics from North Carolina State University, focusing on regulatory and environmental economics, and is a member of the honor society.

He received an MBA in finance from Georgia State University in 1978, graduating with honors.

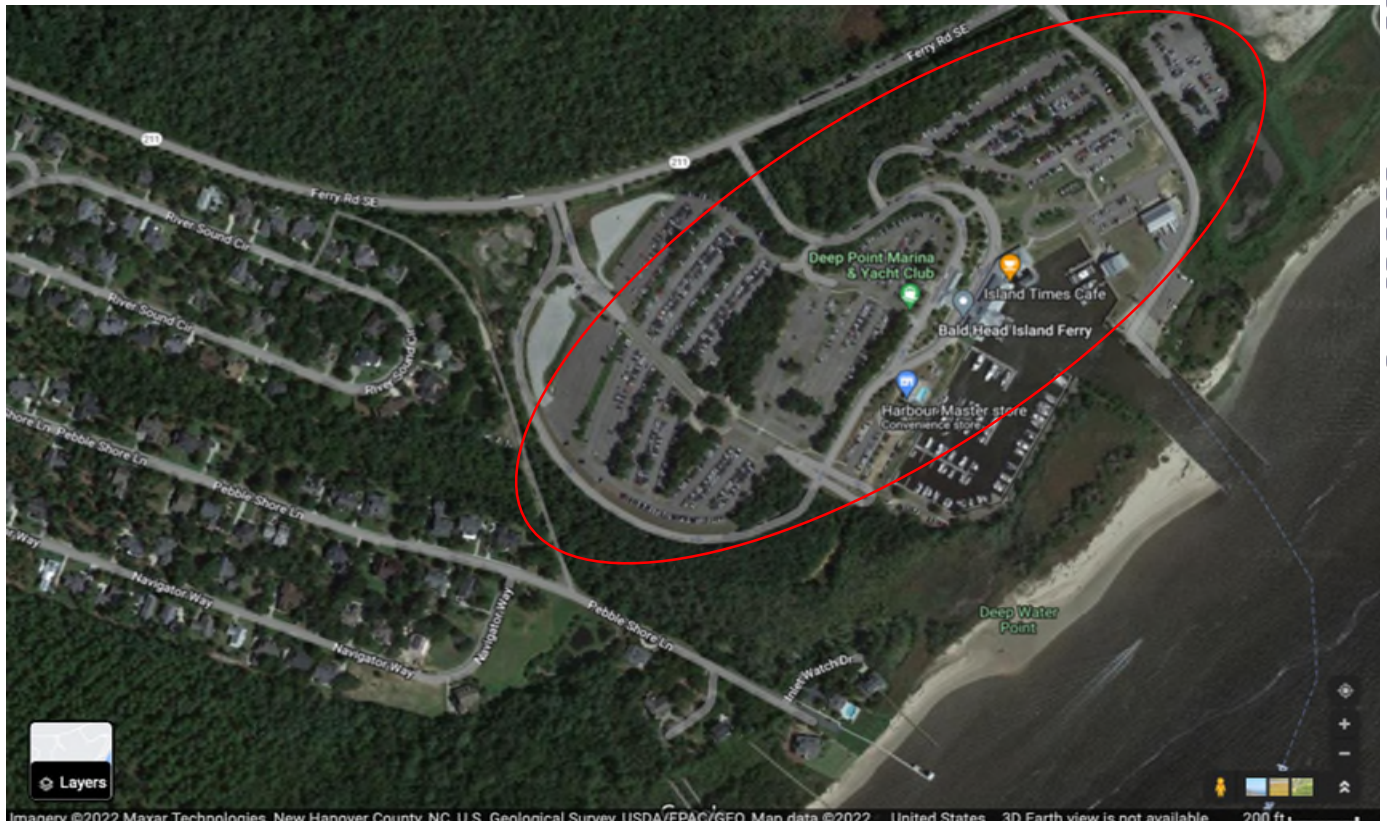
He received a Master of Economics from North Carolina State University in 1991 and was a member of the honor society.

He received a B.S. in Chemistry from Valdosta State College in Valdosta, Georgia, graduating Magna Cum Laud.

Exhibit JAW-2

Deep Point Ferry Terminal and Surrounding Areas

EXHIBIT JAW-2
Deep Point Ferry Terminal, The Terminal Parking Facilities (outlined in red), and
Surrounding Areas



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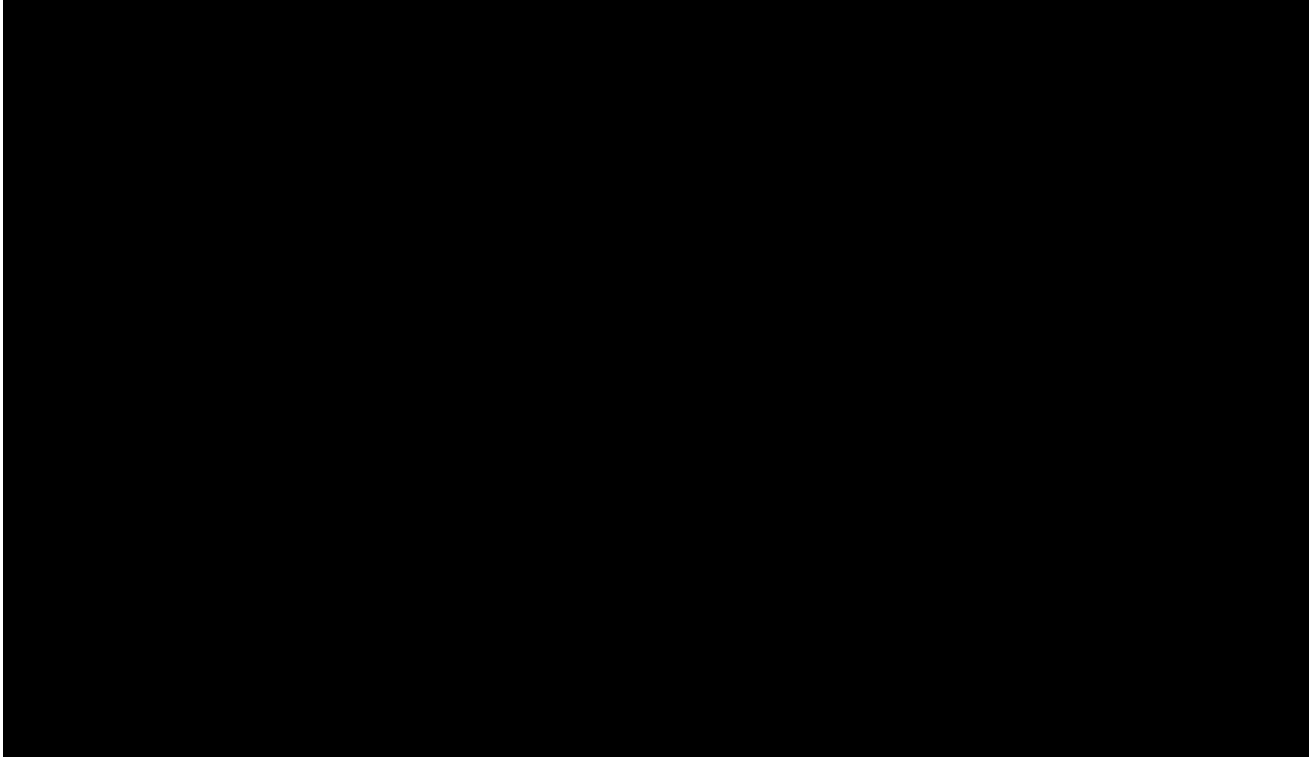
Exhibit JAW-3

Parking Operations

EXHIBIT JAW-3

Parking Operations

[BEGIN CONFIDENTIAL]



[END CONFIDENTIAL]

Source: Bald Head Island Limited, LLC, VBHI Complaint Data Response – Parking, at 2
[BHIL/BHIT 000974]

Exhibit JAW-4

Screenshots from Bald Head Island Ferry Website

EXHIBIT JAW-4

**FIGURE 1: OPENING PAGE OF BALD HEAD ISLAND INFORMATION WEBSITE
UNDER “GENERAL INFORMATION TAB DEEP POINT AERIAL/360 TOUR”**

see: <https://baldheadislandferry.com/faq>



**FIGURE 2: OPENING PAGE OF BALD HEAD ISLAND INFORMATION WEBSITE
UNDER “GENERAL INFORMATION TAB DEEP POINT AERIAL/360 TOUR –
QUICK ARRIVING GUIDE”**

see: <https://baldheadislandferry.com/faq>



FIGURE 3: OPENING PAGE OF BALD HEAD ISLAND INFORMATION WEBSITE UNDER “GENERAL INFORMATION TAB DEEP POINT AERIAL/360 TOUR – QUICK DEPARTING GUIDE”

see: <https://baldheadislandferry.com/faq>



Exhibit JAW-5

Screenshot from MLS Listing

EXHIBIT JAW-5

MLS Listing



Source: MLS listing (available at <https://www.remax.com/nc/southport/home-details/00-ferry-road-southport-nc-28461/2215788053244912011/M00000722/100007914>)

Exhibit JAW-6 Intentionally Omitted

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Exhibit JAW-7 Intentionally Omitted

CONFIDENTIAL MATERIALS

Exhibit JAW-8 Intentionally Omitted

CONFIDENTIAL MATERIALS

Exhibit JAW-9

**Bond Feasibility Study for the Bald Head Island
Transportation Authority, Mercator International, LLC
Draft 4, Dec 2020**

Bond Feasibility Study

for the Bald Head Island Transportation Authority



December 2020 -- **DRAFT4**



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Bald Head Island Transportation Authority
Bond Feasibility Study



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Contents

Figures	iv
Tables	v
1. Background	1
1.1 Objective	1
1.2 Structure of the report	1
2. Core passenger business: ferry and on-island tram	3
2.1 Ferry service	3
2.1.1 Description of ferry business	3
2.1.2 Ferry operations overview	4
2.1.3 Ferry system capacity and peak demand profiles	4
2.1.4 Evaluation of marine assets	8
2.1.5 Evaluation of marine maintenance operations	10
2.1.6 Evaluation of landside ferry assets at Deep Point Marina	12
2.1.7 Evaluation of shore side ferry assets at Bald Head Island	16
2.1.8 Dredging Requirements	20
2.2 On-Island Tram and passenger service	20
2.2.1 Description of passenger and baggage tram service	20
2.2.2 Tram and passenger trailer operations overview	21
2.2.4 Evaluation of tram truck and passenger trailer assets	22
2.2.3 Tram truck and passenger trailer capacity and peak demand profiles	22
2.2.5 M&R quality and historic and future M&R costs	24
2.2.6 Useful life and replacement costs	25
3. Parking and tug and freight barge operations	26
3.1 Parking operations	26
3.1.1 Description of parking business and services	26
3.1.2 Parking operations and assessment of capacity	26
3.1.3 Evaluation of parking assets	29
3.2 Tug and freight barge operation	31
3.2.1 Description of freight barge business and the services provided	31
3.2.2 Overview of operations and assessment of capacity	31
3.2.3 Evaluation of tug and freight barge assets	32
3.3 Freight handling facility	33
3.3.1 Description of business and service	33

Bald Head Island Transportation Authority
Bond Feasibility Study

3.2.2 Overview of operations and facility	33
3.2.3 Evaluation of assets - Condition assessment	34
3.2.5 Useful life and replacement costs.....	35
4. Demand analysis	36
4.1 Analysis of historical data	36
4.2 BHI ferry ticket, freight barge ticket, and parking volume modeling	40
4.3 BHI ferry ticket, freight barge ticket, and parking volume forecast	42
4.3 BHI ferry, freight barge, and parking forecasts under high, low and “stress” cases	45
5. Financial analysis and cash flow forecasts	47
5.1. Methodology.....	47
5.2 Capital Expenditure Forecast	47
5.2 Passenger ferry and on-island tram services	48
5.3 Parking services.....	50
5.4 Tug and freight barge services	51
5.5 Aggregation of BHITA activities.....	52
5.5 Alternate growth scenarios and housing construction stress cases.....	53
6. Conclusions	54
Appendix A	56
Climate change, sea-level rise and severe weather.....	56

Figures

Figure 1: Location and route of the ferry and freight barge services across the Cape Fear River	3
Figure 2: Percent of annual riders by month, 1997-2019.....	5
Figure 3: Distribution of passenger departures from Deep Point by day of week and type: contractor, employee, residents/guests, and overall totals.....	6
Figure 4: Incremental annual voyages to support increased traffic levels	8
Figure 5: The Marine Maintenance Facility at Deep Point	11
Figure 6: Deep Point Marine Terminal—subdivision site map	13
Figure 7: Bald Head Island Terminal—proposed subdivision of ferry landing and freight barge landing areas.....	18
Figure 8: BHI tram truck and passenger trailer	21
Figure 9: Deep Point Ferry landing terminal layout with developed parking lots	26
Figure 10: Deep Point Terminal expansion areas and number of stalls (area - # new stalls).....	27
Figure 11: The Freight handling facility at Deep Point.....	34
Figure 12: Residential units built per year and accumulated housing stock, 2000 to 2019	36
Figure 13: BHI ferry ticket sales by major category, 2000 to 2019.....	37
Figure 14: BHI freight barge ticket sales and employee and contractor ferry ticket sales, 2000 to 2019	37
Figure 15: Inflation-adjusted average annual income of the lowest wage earners in the upper 5 percent income bracket, 1990 to 2018 (recessions highlighted in magenta) Source: US Census	40
Figure 16: Observed and predicted BHI ferry and barge ticket volumes, 1997 to 2019	41
Figure 17: Scatterplot of observed and predicted ferry ticket sales, 1997 to 2018	42
Figure 18: Case-Shiller Home Price Index, all cities, January 2000 to April 2020	42
Figure 19: Growth rate of BHI housing stock, 2011 to 2019.....	43
Figure 20 - 2020 Ferry and Barge Traffic as compared to Recent 3-year averages.....	44
Figure 21: Ferry and barge ticket forecast, 2020E to 2050.....	45
Figure 22 - Ferry and barge traffic forecasts under each scenario	46
Figure 23 - Recap and comparison of EBITDA forecasts under each growth scenario	53
Figure 24: BHI Ferry Ridership and Hurricanes, 1997-2019.....	57

Tables

Table 1: Peak ferry capacity and frequency requirements at increasing levels of passenger traffic	6
Table 2: Key facts of BHI Transportation fleet	9
Table 3: Overhaul and re-power schedule for ferries.....	12
Table 4: Summary of infrastructure condition assessment and required repair work at Deep Point Marina as determined by Moffatt & Nichol in 2019	16
Table 5: Summary of infrastructure condition assessment and required repair work at BHI as determined by Moffatt & Nichol in 2019	20
Table 6: Baggage Dolly, Tram Truck and Passenger Trailer asset list and condition assessment	22
Table 7: Analysis of tram truck capacity required to support peak day two-ferry operations.....	23
Table 8: Analysis of tram truck capacity required to support peak day three-ferry operations	24
Table 9: Existing parking facilities at Deep Point Marina (number of paved / striped stalls).....	27
Table 10: Additional parking developments and supportable ferry capacity - with no additional land areas.....	28
Table 11: Potential additional areas for parking – land that could be acquired if needed	29
Table 12: Characteristics of the <i>Captain Cooper</i> pusher tug	32
Table 13: Four major periods impacting real estate development in the US, 2000 to 2019	39
Table 14: Capital Expenditure Forecast for BHITA.....	48
Table 15: Financial summary for ferry / on-island tram business	50
Table 16: Financial summary for parking business	51
Table 17: Financial summary for tug and freight barge business	52
Table 18: Financial summary on a consolidated basis – Median Growth Case	53
Table 19: Three Projections of Sea Level Rise (source: North Carolina Sea Level Rise Assessment Report)	57

1. Background

The community of Bald Head Island (BHI or the Island) is located on the southernmost of North Carolina's Barrier Islands, approximately 30 miles south of Wilmington, North Carolina. The Island is not connected to the mainland by bridge or tunnel. Bald Head Island Limited LLC (BHI Limited or BHIL) is the parent company that owns and operates three separate lines of business: (i) Bald Head Island Transportation Inc. (BHI Transportation), (ii) parking operations at the Deep Point terminal, and (iii) the tug and freight barge service.

BHI Transportation owns and operates the ferry services to and from the Island as well as the on-island tram service. The mainland facilities and Island side facilities used for the ferry operations are owned by BHI Limited and leased to BHI Transportation. Parking operations are owned by BHI Limited and include more than 35 acres of parking lots that are used by the passengers of the ferry system. The tug and freight barge service is also owned by BHI Limited and it operates the roll-on roll-off (RoRo) tug and freight barge services that transport all cargo and vehicles moving to and from BHI.¹

In 2017, the Bald Head Island Transportation Authority (BHITA, or the Authority) was created by the North Carolina legislature with the mandate to purchase the transportation, parking, and tug and freight barge operations, as well as the mainland and island transportation and terminal infrastructure assets, from BHI Limited and BHI Transportation. Employing the existing management and staff to ensure continuity, the Authority intends to operate these assets and provide reliable transportation services to visitors and residents of BHI.

As part of this process, the Authority is now seeking to secure financing to complete the purchase of these assets through a public bond offering. It is the intention of the Authority that this document along with the other bond offering documents will provide the necessary information that potential investors need concerning the issuer and the bond. This document addresses the general outlook for the businesses currently owned and operated by BHI Limited, the condition of the critical transportation infrastructure, the performance of the operations, the expected demand for the services to be provided by BHITA, and the expected earnings and cash flows for the Authority.

1.1 Objective

The objective of this study is to review the main operations that are to be acquired by the Authority; to develop volume, revenue, cost, earnings and capital expense forecasts for those activities; and to thereby assess the ability of the Authority to repay the bonds which it would issue to complete the purchase of the assets and operations of BHI Limited.

1.2 Structure of the report

Section 2 presents the assessment of the BHI Transportation activities, which include the passenger ferry and on-island tram services. *Section 3* describes the parking activities and tug and freight barge activities. For each activity area, we review the operations and capacity and provide an evaluation of associated assets. *Section 4* analyzes the market demand, economic drivers, historical statistics, and long-term

¹ In a Roll-on / Roll-off shipping system, the seagoing vessel is docked and joined to land by a ramp. Cargo carried with such a system (whether it be autos, trucks, or rolling machinery) is driven on and off the vessel using the ramp.

forecasts for the ferry and tram, parking, and tug and freight barge activities. *Section 5* presents the financial analysis including cash flow forecasts for the ferry and tram, parking, and tug and freight barge operations. *Section 6* presents the conclusions from our analysis.

2. Core passenger business: ferry and on-island tram

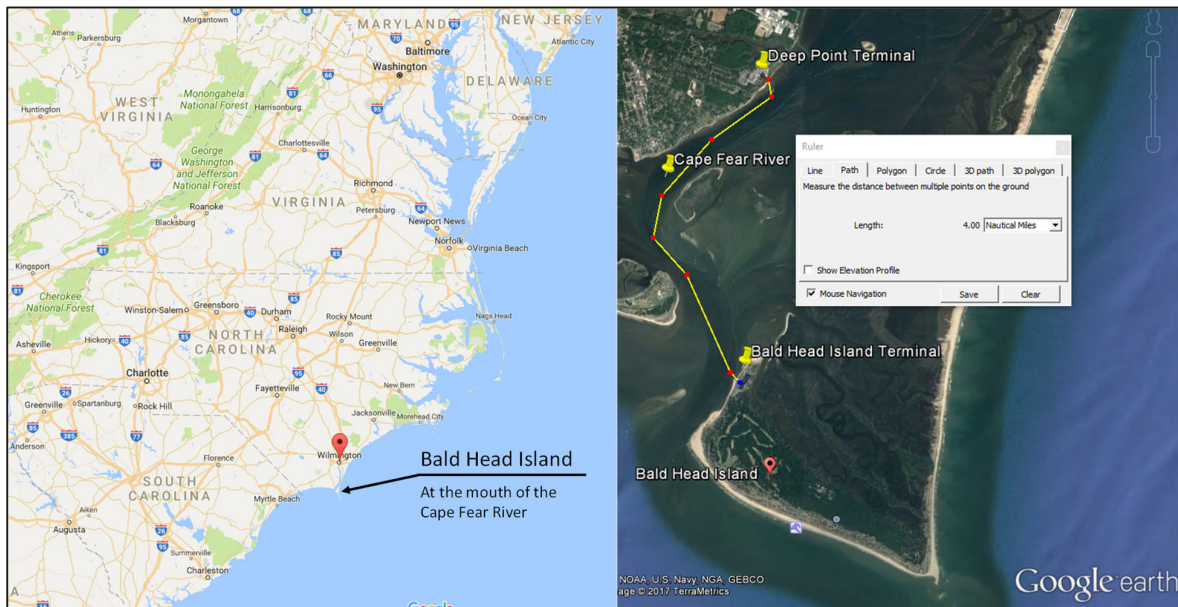
This section presents the analysis for BHI Transportation. Specifically, it discusses the analysis and findings for the passenger ferry and on-island tram business. First, a description and assessment of the ferry business is provided, followed by an assessment of the on-island tram operations. This section concludes with a summary of key takeaways.

2.1 Ferry service

2.1.1 Description of ferry business

BHI Transportation is the sole provider of passenger transportation service across the Cape Fear River to and from BHI, and as such provides an essential link between BHI and the main North Carolina landmass.² The one-way trip of approximately four nautical miles requires about 30 minutes, including loading and discharge time, allowing a ferry vessel to complete a round-trip voyage every hour. The location of Bald Head Island and the route of the ferry and the freight barge service across the Cape Fear River are illustrated in Figure 1.

Figure 1: Location and route of the ferry and freight barge services across the Cape Fear River



BHI is a community of about 1,300 residential housing units, along with a number of commercial and retail buildings, restaurants, clubs and a golf course that serve the residents and guests of the Island. Now a thriving residential and vacation destination, the Island was first occupied by non-native settlers in the late 1700s, but until about 1970, there was little developed infrastructure. The modern developments date from the 1980s when the pace of construction sharply increased. Regular ferry service using ferry terminals commenced in 1982. The ferry and on-island tram service became regulated by the North

² Other than using the BHI Transportation ferries, the only other way to access the Island is via private non-commercial boats.

Carolina Utilities Commission (NCUC) in 1993. Since that time, there has been only one rate increase which was implemented in 2011.

2.1.2 Ferry operations overview

BHI Transportation operates its ferry transportation service from the Deep Point Terminal in Southport, North Carolina to BHI across the Cape Fear River, also located in North Carolina. This ferry service provides the only commercial means of access to BHI.³ Therefore, it carries all regular passenger traffic to and from the Island, including permanent residents, visitors/guests, and the workforce that is responsible for developing, maintaining, and operating all activities on the Island. Schedule frequency and service levels are vital to the total guest experience and the operation of the Island and are maintained and managed very efficiently by the current operating staff.

In 2019, BHI Transportation performed 8,127 round-trip (R-T) ferry sailings and carried about 357,000 passengers to (and from) the Island. Ferry service is provided every day, year-round, with two different schedules: (i) *Summer*, from April to October, and (ii) *Winter*, from November to March. During holiday peak periods the ferry provides additional sailings to meet demand. The high frequency ferry service makes a minimum of 24 round trip sailings per day during the summer season and a minimum of 16 round trip sailings per day during the winter season. Each crossing requires about 30 minutes, allowing a single ferry boat to provide crossings every hour from either side.

Ferry operations are conducted using four passenger ferries, each licensed by the US Coast Guard (USCG) to carry 150 passengers.⁴ The normal summer schedule, with departures every hour throughout the day, and with additional departures on the half hour during periods of higher demand (such as weekday mornings and afternoons when the Island workforce arrives and departs, and on weekends) can be maintained with just two ferries operating on any given day. This allows time to cycle ferries in and out of service and provide the required off-duty time for routine maintenance and vessel repairs. The four-ferry fleet also allows the addition of a third ferry to meet peak demand during high volume periods such as holidays and peak-season weekends.

The ferry vessels have been maintained in good condition with regular service provided at designated intervals and repairs addressed as needed. This has ensured schedule integrity and long-term service life of the vessels. *Section 2.1.5* of this report provides further insight into the marine maintenance functions. The BHI Transportation ferry operation is well-managed and carefully run, resulting in a high level of schedule integrity and vessel safety.

2.1.3 Ferry system capacity and peak demand profiles

The average capacity utilization level of the ferry voyages completed during the 12 months of 2019 was about 29 percent—an increase of 4 percentage points from the 25 percent observed in 2016. Utilization during the three-month peak summer season increased from about 34 percent to 38 percent over the same period. However, because the overall demand is uneven across the seasons and the week, with varying levels of demand and a directional bias based on the time of day and day of the week, and because

³ The only other way to reach Bald Head Island is via private boat.

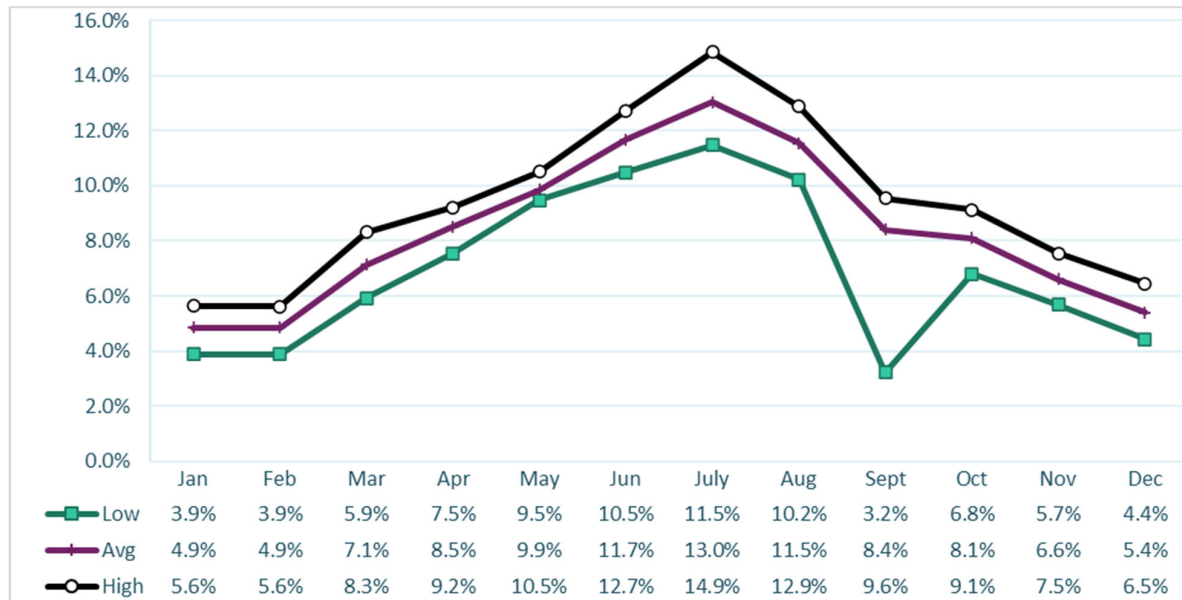
⁴ During the current COVID-19 pandemic (as of July 2020), authorities have limited capacity per ferry to 75, or 50% of normal.

the operator has the flexibility to add capacity when needed, the average utilization does not give a complete picture of system capacity.

The annual capacity of the ferry system was estimated on the basis of satisfying the natural patterns of demand, including the seasonal, weekend, and holiday peaks, considering the ability of the system to increase the frequency of service to meet those peak demands.

Analysis of monthly ridership statistics from 1997 to 2019 showed a consistent pattern in which the peak month of ridership (July) accounted for between 11.5 and 14.9 percent of annual volumes, with an average of 13 percent of the total annual traffic. In low season months, ridership had a range from 3.9 to 7.5 percent with an average of about 6 percent of total annual traffic. The results of the ridership seasonality analysis are presented in Figure 2.

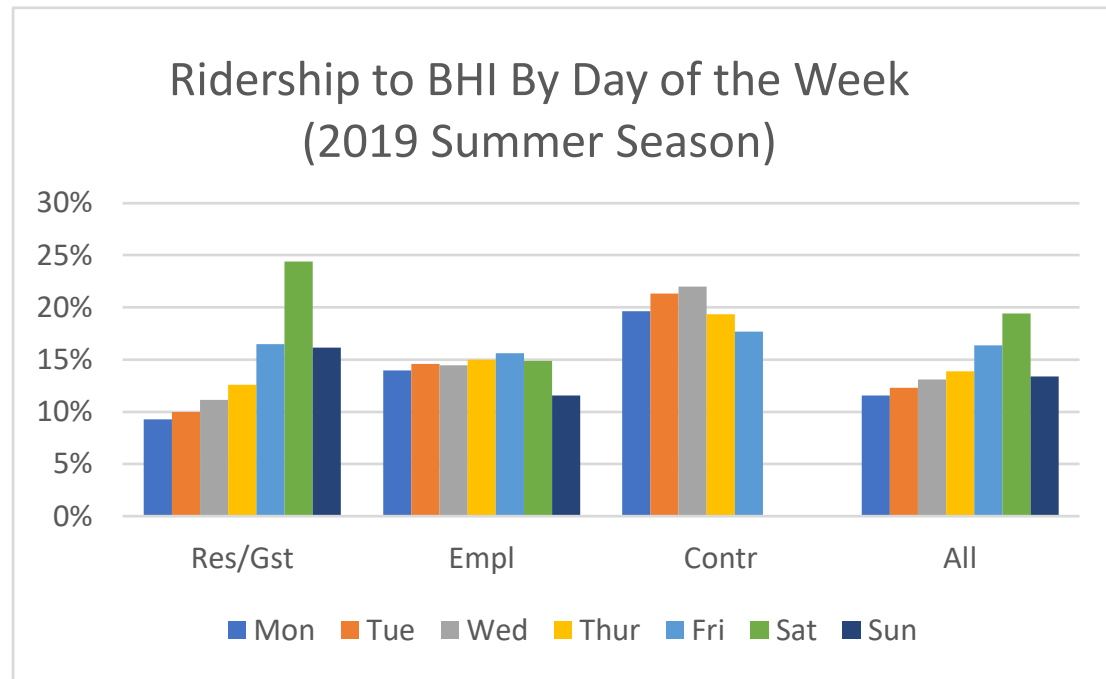
Figure 2: Percent of annual riders by month, 1997-2019



* There was an abnormal drop in volume in September 2018 due to Hurricane Florence, which accounts for the anomaly in the chart

The capacity of the system to support increased overall ridership is dependent on the ability to continue handling peak demands, which vary both by season and by day of the week. Peak demand within a week was assessed based on the ridership distribution by day-of-week, as illustrated in Figure 3. Employee and contractor traffic is more evenly distributed across the week, while property owner and guest traffic is concentrated at the end of the week and during the weekend. This produces a traffic pattern with a peak in which just less than 20 percent of the weekly total traffic is moved on a single day (i.e. Saturdays).

Figure 3: Distribution of passenger departures from Deep Point by day of week and type: contractor, employee, residents/guests, and overall totals



Existing volume levels are satisfied with one sailing per hour throughout the day, with a second sailing operated as needed during high-traffic morning or evening periods when most workers arrive or depart the Island. The number of sailings per day is typically between 16 and 25, with the total number of 2019 sailings adding up to 8,127.

As traffic volumes rise and utilization increases, it will be necessary to extend the periods of twice-per-hour sailings, and eventually offer three sailings per hour on a routine basis during high demand periods.

The peak day passenger traffic was estimated for different levels of annual traffic. For this peak requirement analysis, it was estimated conservatively that traffic in the peak month is 15 percent of the annual traffic, and that 25 percent of the weekly traffic is carried on the peak day. In Table 1, peak day traffic and required number of voyages are computed for different levels of annual demand, assuming that the average utilization on peak days would be 60 percent, which is consistent with 2019 activity.

Table 1: Peak ferry capacity and frequency requirements at increasing levels of passenger traffic

Annual Traffic	300,000	350,000	400,000	450,000	500,000	550,000	600,000
% of Year in Peak Month	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Weeks Per Month	4	4	4	4	4	4	4
Traffic in Peak Week	11,300	13,100	15,000	16,900	18,800	20,600	22,500
Peak Day As % of the Peak Week	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
Peak Day Traffic	2,825	3,275	3,750	4,225	4,700	5,150	5,625
Utilization on Peak Days	60%	60%	60%	60%	60%	60%	60%
Peak Day Sailings	31	36	42	47	52	57	63

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Operating three ferry vessels, to provide three departures every hour between 5:30 am to 1:00 am (utilizing the two berths at each terminal), the peak day schedule could include up to about 55 sailings, which, on the basis of our conservative assumptions, would meet the estimated peak capacity requirement for a year in which the system carried 530,000 total ferry passengers to the Island.

This estimate that the system capacity could support a traffic level of 530,000 passengers per year is confirmed by the following straightforward assessment. Analysis of 2019 voyage records revealed that the 2019 volume was accommodated on nearly all days using at most two ferries with maximum sailing frequency of two per hour. We know, however, that the system can operate three sailings per hour, or even four if needed. We can be confident, therefore, that by increasing sailing frequencies as needed (from one to two or from two to three) the system can deliver a 50 percent increase in capacity. A 50 percent increase over 2019 traffic would be about 535,000 passengers, which corroborates the estimate described above.

Based on this peak capacity analysis, the approximate **annual capacity of the system**, using the two berths at each of the terminals and a four-boat ferry fleet with the current 150 passenger capacity, is estimated to be **535,000 passengers per year**.⁵

BHI Transportation operates three passenger ferries on a limited number of peak days, primarily on summer holiday periods. The analysis of peak day requirements suggests that three catamaran ferries will be increasingly required for peak periods once the annual traffic exceeds about 450,000 passengers, but this requirement will not come into play until well after one of the monohull ferries has been replaced with a catamaran ferry.⁶

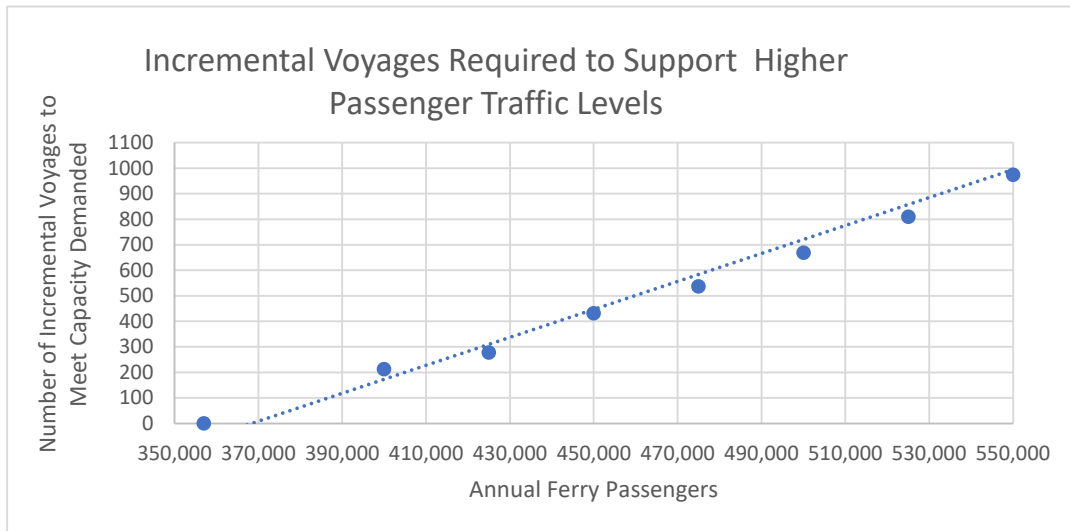
The required number of sailings in each year will depend on overall traffic levels and the distribution of traffic across the year. For much of the year and for certain times of the day, a 50 percent or even 100 percent increase in traffic could be accommodated without additional sailings, while additional sailings would be required far sooner during other parts of the calendar if traffic increased by 50 percent. Mercator examined traffic and utilization patterns to determine the number of additional sailings that would be required, at increased levels of annual traffic, to keep utilization levels during peak demand periods below 100 percent, assuming a distribution of passenger demand that is similar to the current distribution.⁷ The results of this analysis are depicted in Figure 4.

⁵ As a consequence of the COVID-19 pandemic, the maximum number of passengers carried per sailing was reduced in March 2020 from 150 to just 25, but has been increased in steps back up to 100, but still short of the standard 150 passenger level. This has increased passenger waiting times because of the reduction of available capacity on each sailing. Because the system operates at a low level of average utilization (29% overall during 2019, and 38% during the summer season), the reduced capacity per sailing principally only impacts waiting times during the high demand periods.

⁶ The system generally operates with two ferry departures per hour across the two berths during “normal” high demand periods, and three departures per hour during certain holidays or other periods of exceptionally high demand. The “exceptional peak” level of operations could be increased to four sailings per hour if that was required. It is also noted that the peak periods are of limited duration, and that with the use of reservations or other load management techniques, the traffic could be more evenly distributed across a given day or week, thereby raising average utilization and raising annual capacity.

⁷ Said another way, the objective of this analysis was to assess how many additional voyages would be required to avoid having passengers that could not board the next available ferry due to capacity limits.

Figure 4: Incremental annual voyages to support increased traffic levels



This result was used to determine the number of voyages that would need to be added to the schedule to meet the capacity requirement from Deep Point to BHI as traffic increased: an increase from about 357,000 to 530,000 passengers would require about 900 additional voyages – on average one voyage for each 190 additional passengers. However, because of the asymmetry of timing of traffic to and from the Island, a roughly equivalent number of additional voyages would need to be operated to provide the additional return capacity, such that in total, the system would need to operate one additional voyage for each 95 passenger increase in traffic.

In practice, the additional voyages cannot simply be added one-by-one, so to provide a conservative estimate of costs for added voyages and allow for the practical issues of scheduling, we assume the BHITA will be adding one additional voyage for each increase of 75 R-T passengers.

2.1.4 Evaluation of marine assets

The BHI Transportation ferry fleet is composed of four ferries: (i) *Adventure*, (ii) *Sans Souci* (iii) *Patriot*, and (iv) *Ranger*, which are listed in Table 2 along with selected key facts. Each of the four vessels was individually inspected by a Mercator specialist in June 2017, which included entering and visually inspecting key areas such as: engine rooms, steering gear compartments, passenger areas, wheelhouses, open decks, etc. Mercator specialists also reviewed key documents such as past vessel surveys, U.S. Coast Guard (USCG) Certificates of Inspection (COI) and Stability Letters. To complement the physical inspections, Mercator reviewed additional documentation, such as the 2012 *Survey Reports by The Marine Surveyor Group* out of Fort Lauderdale, Florida and the 2018-19 surveys by KOPCO Marine Services, Inc. In-person and detailed discussions with the management of BHI Transportation were held to gather information and understand its operations.

Table 2: Key facts of BHI Transportation fleet⁸

Vessel name	<i>Adventure</i>	<i>Sans Souci</i>	<i>Patriot</i>	<i>Ranger</i>
Year built	1987	1976	2003	2006
Builder	Breaux Brothers Enterprises, Inc.	Lapco Industries, Lafayette, LA	Island Boat, Jeanerette, LA	Island Boat, Jeanerette, LA
Length	65 ft.	72 ft	82 ft	82 ft
Beam	22 ft.	22.4 ft	28 ft	28 ft
Draft	3.75 ft fwd 4.25 ft aft	5 ft aft	3.5 ft fwd 5.25 ft aft	6 ft aft
USCG – COI	Subchapter T	Subchapter T	Subchapter T	Subchapter T
Hull	Monohull	Monohull	Catamaran	Catamaran
Horsepower (hp)	640 hp (each)	640 hp (each)	640 hp (each)	640 hp (each)
Main engine	Cummins KTA-19 M3	Cummins KTA-19 M3	Cummins KTA-19 M3	Cummins KTA-19 M4
Engine hours since new	41,025 hrs	22,257 hrs	53,358 hrs	49,832 hrs
Engine hours since last overhaul	2,563 hrs	3,026 hrs	13,314 hrs	7,884 hrs
COI expiration date	Apr 27, 2021	Apr 25, 2022	Sep 11, 2023	Mar 24, 2021
Dry docking due date	Jan 31, 2022	Jan 17, 2022	Jan 31, 2021	Mar 31, 2022

- **Adventure.** A monohull aluminum ferry certified for 150 passengers plus 13 baggage dollies built in 1987. The vessel was repowered to twin Cummins KTA19–M3 (640 hp) main engines in 2003. The *Adventure* was found to be in good seaworthy condition and well maintained. Monthly and weekly marine maintenance activity records show no outstanding compliance items. All equipment was reported to be running well. The vessel appeared structurally sound and vital equipment such as main engines were overhauled in 2018 and are well within their maximum operating hours limit. Main and auxiliary engines are run on Ultra-Low Sulphur Diesel (ULSD).
- **Sans Souci.** A monohull aluminum ferry certified for 150 passengers plus 11 baggage dollies built in 1976. The vessel, the oldest vessel of the fleet, was repowered to twin *Cummins KTA19–M3* (640 hp) in 2002. The *Sans Souci* was found to be in good seaworthy condition and well maintained. Monthly and weekly marine maintenance activity records show no outstanding compliance items. All equipment was reported to be running well. The vessel appeared to be structurally sound, and vital equipment such as main engines are well within maximum operating hours limit. Main and auxiliary engines are run on ULSD. The main engines were last overhauled in 2018 (replaced with factory re-conditioned units), and BHI Transportation operating personnel find the vessel to be a very good performer. During her 2014 drydocking, some hull plating was replaced to correct the effects of localized corrosion. This is typical for aluminum hulls that start

⁸ All of the BHI ferries and freight operation vessels have also been recently inspected (during 2018 - 2019) by KOPCO Marine Services, Inc., which found them to be in satisfactory condition. Engine hours and inspection status as of June 2020.

to show localized corrosion. Despite her good performance and the possibility that she could effectively continue in service beyond 2024, Mercator has assumed she will be replaced by 2024, with the cost for the replacement reflected in Mercator's Capex forecast for FY 2023 and 2024.

- ***Patriot***. A catamaran aluminum ferry certified for 150 passengers plus 22 baggage dollies built in 2003. This vessel is powered with twin *Cummins KTA19-M3 (640 hp)* main engines. The *Patriot* was found to be in good seaworthy condition and well maintained. Monthly and weekly marine maintenance activity records show no outstanding compliance items. All equipment was reported to be running well. The vessel looked to be structurally sound and all vital equipment, such as main engines which were overhauled in 2016, are well within maximum operating hours limit. Main and auxiliary engines are run on ULSD.
- ***Ranger***. A catamaran aluminum ferry certified for 150 passengers plus 22 baggage dollies built in 2006. This vessel is powered with twin *Cummins KTA19-M4 (640hp)* main engines. The *Ranger* was found to be in good seaworthy condition and well maintained. Monthly and weekly marine maintenance activity records show no outstanding compliance items. All equipment was reported to be running well. The *Ranger* looked structurally sound and vital equipment, such as main engines which were overhauled in 2017/2019, are well within maximum operating hours limit. Main and auxiliary engines are run on ULSD.

Ferry vessel replacement

- ***Sans Souci*** is the oldest vessel in the fleet and continues to perform well, with an estimated three to five years or more of remaining service life. Due to the light duty and good maintenance, and despite her age, maintenance costs for the ferry have not shown an upward trend, and so prompt replacement may not be required. For the purpose of the bond feasibility analysis, however, it is assumed that *San Souci* will be replaced in 2023 (FY 2024) with a catamaran ferry similar to *Patriot* and *Ranger* (at a current 2020 cost of about \$4.5 million). The current market value of *San Souci* was estimated by KOPCO to be about \$410,000.
- ***Adventure*** is in very good condition and likely has another 13 to 17 years of remaining service life. After surveying the vessel in 2018, KOPCO estimated her fair market value at about \$590,000. For the purpose of the bond feasibility analysis, it is assumed that *Adventure* will be replaced in 2033 with a catamaran ferry similar to *Patriot* and *Ranger*.
- ***Patriot* and *Ranger*** are fairly new vessels (17 yrs and 14 years old, respectively) and their remaining service life is estimated to be **at least 30 years**. Estimated new ferry vessel replacement cost in the current market is about \$4-4.5 million.

2.1.5 Evaluation of marine maintenance operations

The marine maintenance and repair (M&R) department of BHI Transportation supports both the passenger ferry operation and the tug and freight barge operation. This department operates out of a dedicated maintenance facility located immediately adjacent to the Deep Point Marina terminal, where the ferries and the tug and freight barge are kept when not actively in service, enabling easy and direct access to undertake repair and maintenance activities. A photo of the Marine Maintenance Facility is provided in Figure 5. The marine M&R operations were evaluated based on discussions with the Marine

Manager and a physical inspection of the marine M&R dedicated facility, a review of M&R records as well as a review of the *BHI Transportation Marine Operations Manual*.

Figure 5: The Marine Maintenance Facility at Deep Point



BHI Transportation management has made operational reliability and safety paramount priorities in order to deliver a high-quality experience to the property owners, guests and workers that it transports to the Island, and to ensure the reliable delivery of critical freight to the Island. A well-staffed and equipped maintenance department exists to achieve this objective. The maintenance facilities themselves were found to be in excellent condition and well suited to the requirements of the operation.

The four ferries are dry-docked every two years, normally in a nearby shipyard. These are regulatory dry-dockings as required by the USCG. Apart from dry-docking, there is a very diligent M&R program carried out by BHI Transportation's competent staff in the marine M&R department for completing routine maintenance and promptly addressing the vessel repair requests (VRR) filled out by vessel captains. Each Captain has a hand-held device on which to record a problem or an issue, which transmits the problem report to the marine M&R team.

Depending on the severity of the issue, the vessel may be taken off-line if needed, replaced by a different vessel, or more commonly, the VRR will be logged and the problem will be evaluated and solved during the next scheduled off-service time of the vessel. Every vessel has off-service time during each day and a full day off-service on alternate days. In general, two out of the four vessels are in service during peak periods and only one during off-peak periods of the day.

The marine M&R department takes care of all main engine overhauls and rebuilds them in-house. BHI Transportation follows the overhaul and re-power schedule for the ferries shown in Table 3 with some



adjustments made if indicated by changes in fuel consumption. The marine M&R department of BHI Transportation is a well-managed and competent group that has demonstrated its ability to efficiently take care of the current M&R activity required to run the ferries safely and on schedule.

Table 3: Overhaul and re-power schedule for ferries

Scheduled time	Type of M&R service	Total engine-life hours	Overhaul, rebuild, or repower
2 nd year	6,000 hrs service	6,000 hrs	maintenance service
4 th year	6,000 hrs service	12,000 hrs	maintenance service
6 th year	18,000 hrs service	18,000 hrs	overhaul
8 th year	6,000 hrs service	24,000 hrs	maintenance service
10 th year	6,000 hrs service	30,000 hrs	maintenance service
12 th year	18,000 hrs service	36,000 hrs	overhaul or rebuild
14 th year	6,000 hrs service	42,000 hrs	maintenance service
16 th year	6,000 hrs service	48,000 hrs	maintenance service
18 th year	18,000 hrs service	54,000 hrs	rebuild or repower

Over the last six years, the average annual M&R cost per vessel has been approximately \$82,000 per year, which includes both the periodic major repair and overhaul costs that are capitalized, as well as the ongoing routine M&R costs that are expensed, but excludes the salary and other costs of the full-time maintenance department. Future M&R costs are projected on the basis of this historical spending and expected overhaul schedules.

2.1.6 Evaluation of landside ferry assets at Deep Point Marina

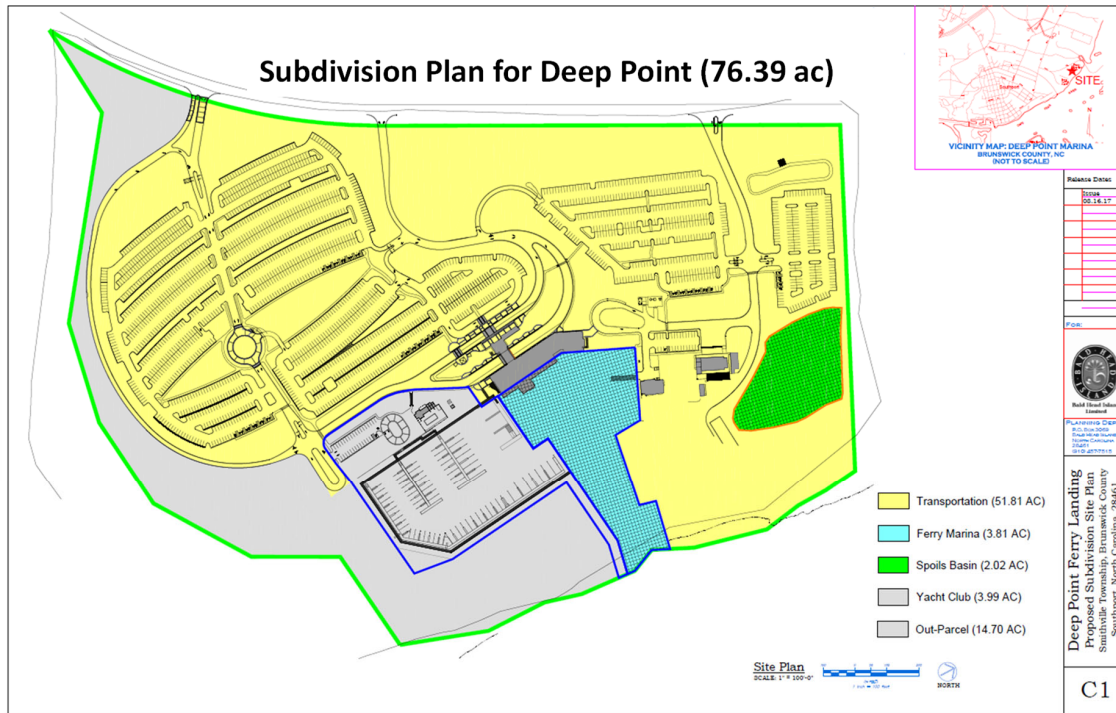
Passenger ferry operations at the Deep Point Marina campus began in June 2009.⁹ The campus has a total area of approximately 76 acres. The transportation and parking portion of the property cover about 51.8 acres, which includes the ferry facility and administrative offices, parking lots, the marine M&R facility, and tug and freight barge areas, as shown in Figure 6.

The ferry terminal is built partially on land and over water. The landside structure is a two-story building which supports the administration offices, passenger drop off and pick up areas, the ferry ticket office, and other small support offices and areas. The waterside structure, built on twenty-inch by twenty-inch (20" x 20") concrete piles, supports both the passenger waiting area and the ferry vessel passenger and cargo loading and discharge areas.

An all concrete sheet pile bulkhead is approximately 2,800 ft in length. This bulkhead forms the boundary around the small boat marina, the main passenger ferry terminal, the contractor terminal, the vessel maintenance piers, and the freight barge loading area. Two jetties, also constructed with concrete sheet pile bulkheads, extend approximately 600 ft into the Cape Fear River and form the protected entrance way into the ferry terminal and marina basin.

⁹ Deep Point terminal construction started in 2007 and the facility opened in June 2009. However, the contractor ferry began using the site prior to construction of the main passenger terminal.

Figure 6: Deep Point Marine Terminal—subdivision site map



General condition assessment

In 2017, as part of a previous engagement with BHI Limited, Mercator conducted a condition assessment inspection of the bulkhead in the area of the ferry terminal, the vessel maintenance area, the freight barge area, and the two jetties that form the entrance.¹⁰ As part of the 2017 condition assessment inspection, Mercator provided a series of observation highlights and recommendations. Following the 2017 condition assessment inspection, BHI undertook a number of repairs to the facility, and then commissioned further assessments to confirm the adequacy of the repairs. The first follow-up assessment was done in June 2018, led by the engineering firm Ausenco. Subsequently, a third condition assessment was commissioned by the BHITA in March 2019, which was led by the engineering firm Moffatt & Nichol.

Mercator relied upon the engineering reports prepared by Ausenco and by Moffatt & Nichol for the expected future costs for maintenance and repair of landside facilities to be acquired and operated by the Authority.

Mercator's 2017 Condition Assessment Report for Deep Point Marina

Based on our 2017 condition assessment inspection, Mercator concluded that the *main passenger terminal and office building, sidewalks and flatwork*, and the *concrete bulkhead* were well maintained as part of routine maintenance, in good condition, with no significant issues noted. Although generally not used for regular operations, the Siemens airport-style baggage conveyor system is maintained and periodically operated to confirm functionality.

¹⁰ That inspection considered about 2050 ft of bulkhead; the bulkhead surrounding the small boat marina was not inspected and was not within the scope of 2017 report.

The *concrete bulkhead pile caps* were showing signs of movement at a number of expansion joints, most significantly near the freight barge docking berth. The inspection team identified two main reasons: (i) the pressure exerted by the freight barge during docking and (ii) an incident in which a construction crane barge hit the wall in 2014. Furthermore, the 2017 inspection team identified 15 concrete bulkhead panels out of 341 showing signs of cracking, spalling, and deterioration. The concrete pile cap expansion joints showed signs of movement with some separation between the concrete piles in the Northern Jetty. Excessive marine growth was visible on the concrete piles at Deep Point Marine Terminal.

2017 Recommendations addressed

- Maintenance should continue to monitor expansion joint movement and, if required, make necessary repairs to prevent further deterioration or wash out of the land area behind the bulkhead.
- Repair of the damaged concrete bulkhead and pile cap at the freight barge jetty was recommended to BHIL after inspections were made in July 2017. BHIL made repairs to address these issues with the jetty bulkhead.
- Concrete bulkhead panels and bulkhead concrete cap expansion joints should be monitored to determine the rate of deterioration and expansion. Make necessary repairs to prevent further deterioration or potential failure of the structure along its length.

The 2017 recommendations became the basis for repair work undertaken by BHI Limited in 2018.

Ausenco 2018 Condition Assessment Report for Deep Point Marina

Ausenco's 2018 Condition Assessment consisted of an above and below water inspection of the piles and underside of the superstructure to identify any defects. This included a detailed assessment of the BHI's Deep Point Passenger Dock, Contractor Dock, Layby Pier, and Layby Dock. Ausenco's *2018 Condition Assessment Report* stated that the Deep Point Marina marine structures were found to be in a serviceable condition. The report recommended several repairs with an estimated total cost of about \$110,000:

- **Passenger Dock.** The recommended repairs for the passenger dock included implementing pile wrap repairs on concrete Pile No. 10B east. The useful life estimate for the concrete piles was 10 to 15 years and 10 years for the dolphins, which could be extended further with ongoing repairs.
- **Contractor Dock.** The recommended repairs for the contractor dock include replacing four safety chains for the pedestrian gangway, replacing three piles, and implementing open bolt hole patch / dowel repairs, among the main ones. The assessment reported an estimated useful life estimate of eight to ten years, which could be extended further with ongoing repairs.
- **Vessel Layby Pier.** The recommended repairs include implementing open bolt hole patch / dowel repairs for the piles. The assessment reported an estimated useful life estimate of eight to ten years, which could be extended further with ongoing repairs.
- **Vessel Layby Dock.** The recommended repairs include replacing one pile. The assessment reported an estimated useful life estimate of eight to ten years, which could be extended further with ongoing repairs.

Mercator understands from Management that the 2018 Ausenco repair recommendations for Deep Point facilities were completed in 2018.

Moffatt & Nichol 2019 Condition Assessment Report for Deep Point Marina

The Moffatt & Nichol inspection team conducted an above and below water assessment of each structure using diving equipment. The report presented the findings of the inspection for each structure, including overall condition, repair priorities, and recommendations. The short-term priority (low-medium-high) is based on severity and urgency of the repairs needed. The long-term recommendations are based on the overall lifecycle of each structure.

A total of 11 structures were inspected at the Deep Point Marina and BHI including sections of the bulkhead wall at Deep Point Marina. The scope of work included above and below water inspection of support piles, below deck substructure framing and deck undersides, and freight barge ramp concrete substructure and steel structural elements. No critical structural issues necessitating a high repair priority were found in any of the 11 facilities inspected. The following three waterfront ferry terminal facilities at Deep Point Marina were determined to have a medium repair priority:

- **B-Gate Contractor Landing.** The structure was found to be in satisfactory overall condition with minor decay in the timber piles and framing—typical for timber structures of this age. There are split and broken timber joists in two locations and steel tie straps between the under-deck joists and the timber stringers below are severely corroded throughout the structure and should be replaced. Repairs were estimated at \$11,000 according to the Moffatt & Nichol as shown in the table below.
- **Concrete Bulkhead Wall.** The bulkhead is in overall good condition with isolated spalls and cracks. The bulkhead, including an area that had been previously repaired was inspected above and below water and found to be in satisfactory condition (with the exception of the section adjacent to the freight barge ramp). The sheets were found to be intact with no voids or signs of recent movement.
- **Freight Barge Ramp.** Above and below water inspection found the structure to be in satisfactory condition with a crack in the concrete substructure wall corresponding to the adjacent bulkhead repair area as well as minor to moderate corrosion affecting the ramp steel framing, cylinder bases, and other weldments.¹¹

The remaining waterfront ferry terminal facilities assessed were in good to satisfactory condition with minimal recommended repair costs.

As part of the recommended routine inspections and maintenance for all of the structural components of the waterfront facilities, routine inspections should be conducted once every five years. The estimated cost to complete each routine inspection is \$65,000, equivalent to \$130,000 total over a ten-year program. The total estimated cost of recommended replacements and repairs over the next ten years, based on the observations made during this investigation, is \$1,353,000, of which \$313,000 relates to the eight facilities located at the Deep Point Marina (see Table 4) and the balance to the three facilities in BHI

¹¹The scope of the Moffatt & Nichol assessment included only the structural components of the ramp and not any hydraulic systems required for operation. Total cost is estimated at \$150,000 for the ramp considers demolition / removal, a steel ramp, mob/contingency, and concrete spall repairs.

(described in the next section). Additional structural component maintenance repairs discovered during these inspections can typically be expected on the order of \$100,000 - \$150,000 over the next 10 years.

Table 4: Summary of infrastructure condition assessment and required repair work at Deep Point Marina as determined by Moffatt & Nichol in 2019

Facility	ASCE Condition Rating	Due Diligence Rating	Repair Priority Ranking	Recommended Repair Cost Estimate
A-Gate Passenger Landing	Good	Good	Low	\$0
B-Gate Contractor Landing	Satisfactory	Good	Medium	\$11,000
Maintenance Fixed Pier	Good	Good	Low	\$1,000
Maintenance Finger Dock	Satisfactory	Good	Low	\$10,000
"G" Berthing Platform	Good	Good	Low	\$0
"H" Berthing Platform	Good	Good	Low	\$0
Bulkhead Wall	Satisfactory	Good	Medium	\$137,000
DPM Freight Barge Ramp	Satisfactory	Good	Medium	\$154,000
Subtotal Deep Point Marina				\$313,000

Source: Moffatt & Nichol 2019.

2.1.7 Evaluation of shore side ferry assets at Bald Head Island

Within the Bald Head Island Marina basin is the island terminal for passenger and contractor ferry service. Initially constructed in 1982 and expanded thereafter, the BHI facility has a total land area of approximately 2.25 acres, which supports the passenger terminal, the passenger drop-off and pick-up area, a parking lot for equipment, the freight barge landing, and access roadways serving the ferry and freight barge landing areas, as illustrated in Figure 7. In addition to all the area that is developed and used for ferry and tram operations, the area to be acquired by the Authority includes additional land between the ferry terminal and the river, as shown on this drawing.

General condition assessment

The BHI Passenger and Contractor Ferry Docks are constructed of timber, consisting of handrails, guardrails, decking, stringers, pile caps, piles and pile bracing. There is a covered open-air waiting structure at each of the docks and two aluminum gangways per dock (four in total) provide access from the vessels to the docks.

The passenger terminal is built partially on land and over water. The landside structure supports the passenger drop-off, pick-up, and the security check-in areas. The waterside structure, built on timber piles with wooden plank decking and wooden superstructure, supports both the passenger waiting area and the passenger and cargo loading and discharge ramps.

An aluminum bulkhead was installed during a three-year program ending in July 2005 as replacement for the original bulkhead, which was initially built in 1982 and expanded as the marina expanded to its present size. The bulkhead is approximately 2,000 ft in length and has a height above mean low water (MLW) of +/- 7.88 ft. The new aluminum sheets were driven down to an elevation of -13.12 ft below MLW, to suit a water depth of approximately -8.00 ft at MLW. The new bulkhead is tied back through the original wall with threaded tie back rods to Manta Ray anchors.

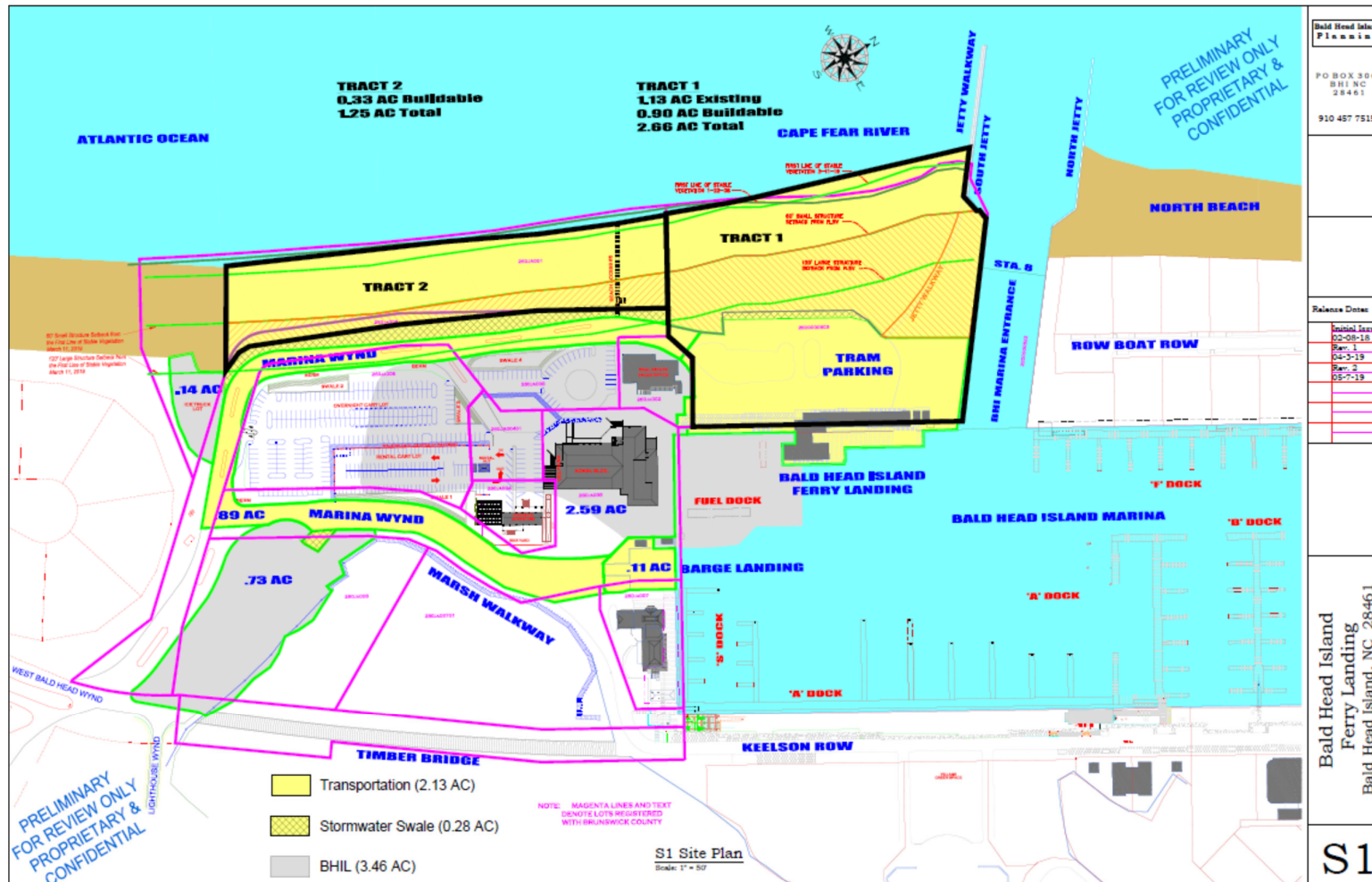
Mercator's 2017 Condition Assessment Report for Bald Head Island

The on-island parking lot area is used primarily to park the BHI Transportation tram trucks, which are used to transport passengers and their baggage between the ferry landing and points throughout the Island. The pavement was observed to be in good condition. No significant signs of damage or deterioration were observed or reported in 2017. Observation highlights from the 2017 condition assessment relating to specific areas are as follows:

- **Land area and facility superstructure.** Good to very good. The property area and superstructure looked well maintained as part of routine maintenance program.
- **Wood timber piles and substructure.** When first inspected in mid-2017, condition was Poor to Fair, with signs of heavy marine growth and infestation. A total of 15 out of 59 piles were no longer providing structural support to the deck. The piles in unsatisfactory condition were replaced by BHIL as of end December, 2017.
- **Aluminum sheet pile bulkhead.** Heavy marine growth was noted in 2017. In 2003, a portion of the bulkhead to the south in the area of yacht club marina started to collapse causing the embankment behind it to slip into the water. To repair and also secure the remaining portion of the bulkhead, BHI installed a new aluminum sheet pile bulkhead in 2005, outboard of the original bulkhead. This bulkhead provides good corrosion resistance and has an expected useful life of approximately 30 years.

Bald Head Island Limited
Due Diligence

Figure 7: Bald Head Island Terminal—proposed subdivision of ferry landing and freight barge landing areas



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18

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2017 Recommendations Addressed and Completed

- A recommendation to encapsulate or replace damaged timber piles was provided to BHIL at the time of the July 2017 inspection. Subsequent to that inspection, BHIL completed the recommended replacement and repair work.
- Aluminum sheet pile bulkhead was cleaned of growth and sections at the waterline cleaned to prevent deterioration and pitting.

Ausenco 2018 Condition Assessment Report for Bald Head Island

On completion of Ausenco's 2018 Condition Assessment, BHI marine structures were found to be in a serviceable condition. This report recommended a couple of additional repairs with a total cost of \$73,000¹² as outlined below:

- **Contractor Dock.** The recommended repairs for the contractor dock include replacing one pile, implementing an open bolt hole patch / dowel repairs, and replacing one brace. The useful life estimate for the concrete pile and the bracing was of four to eight years, extendable with normal maintenance and repair.
- **Passenger Dock.** The recommended repairs for the passenger dock include replacing one pile, reinstating upper bolted connections along Row B, implementing open bolt hole patch / dowel repairs, and replacing two braces. The useful life estimate for the concrete pile, the bracing, and the dolphins was four to eight years, extendable with normal maintenance and repair.

Mercator understands that the 2018 Ausenco repair recommendations were completed in 2018.

Moffatt & Nichol 2019 Condition Assessment Report for Bald Head Island

The estimated cost of recommended replacements and repairs over the next ten years, based on the observations made during the 2019 investigation for BHI was \$1,040,000, as described in Table 5. Two waterfront ferry terminal facilities at BHI were determined to have a medium repair priority, as noted below:

- **Freight Barge Ramp.** The steel barge ramps at BHI are in satisfactory condition, however, they may require refurbishment or replacement within the 10-year planning horizon due to corrosion. BHIL has periodically done such work on the barge ramps, most recently in 2016. Capital for replacement on a 10-year schedule has been included in the plan.¹²
- **Passenger Landing.** The BHI Passenger Landing was found to be in fair overall condition and replacement within the 10-year planning horizon was recommended. Noting that repair work was recently done to in 2018 to address all of the structural issues observed at that time, and that Moffatt and Nichol did not assign a high priority to this work, we assume the replacement will be undertaken at the end of the 10 year period suggested, starting in 2027. The Moffatt and Nichol budget, which Mercator has adopted, was based on full removal and replacement, although a lower cost repair approach as taken by Ausenco may turn out to be possible.¹³

¹²Total cost of \$130,000 for the ramp considers demolition / removal, a steel ramp, and mob/contingency.

¹³ Total cost of \$900,000 for the passenger landing considers demolition / removal, covered timber dock, and mob/contingency.

Table 5: Summary of infrastructure condition assessment and required repair work at BHI as determined by Moffatt & Nichol in 2019

Facility	ASCE Condition Rating	Due Diligence Rating	Repair Priority Ranking	Recommended Repair Cost Estimate
BHI Freight Barge Ramp	Satisfactory	Good	Medium	\$130,000
BHI Contractor Landing	Good	Good	Low	\$10,000
BHI Passenger Landing	Fair	Good	Medium	\$900,000
Subtotal Bald Head Island				\$1,040,000

Source: Moffatt & Nichol 2019.

2.1.8 Dredging Requirements

The Bald Head Island ferry and barge operations share the use of mainland and island marina facilities and, therefore, share in the cost of dredging at each location. By agreement, BHI Transportation is responsible for 33% of the cost of dredging the Deep Point Marina and channel, and 23% of the cost of dredging within the Bald Head Island marina, with no responsibility for the Bald Head Island Channel.¹⁴

Dredging requirements at Deep Point fall into two categories – the removal of about 3000 cubic yards (CY) of sand on a roughly 1-3 year cycle (with a cost of about \$50,000 each time), and more substantial dredging and sand relocation work that is undertaken every 8-10 years, at a cost that could be as much as \$600,000 per occurrence. This cost includes both the dredging and an allowance for moving sand from the spoils basin to adjacent land, as was just done in 2020. The Authority is responsible for 33% of the Deep Point dredging, and so to reflect this we have included in our analysis model a) operating expense of \$15k per year (which is conservative given that the work is not actually done every year) and b) a large capital expenditure every 9 years, with the next outlay (\$246k) coming in FY 2027.

Marina dredging at BHI was last undertaken in 2015, when about 9,000 CY was removed from the marina and placed in the re-established spoils island, at a total cost of \$302,850. It is expected the marina will next need to be dredged in the 2025-2027 timeframe. We have assumed conservatively that the Authority will incur a BHI marina capital dredging expenditure in FY 2025, and every nine years thereafter, equal to 23% of the inflated 2015 cost. The cost of re-establishing the spoils island is included in these historic and forecast capex amounts.

2.2 On-Island Tram and passenger service

2.2.1 Description of passenger and baggage tram service

BHI is almost entirely automobile-free. Residents and guests rely upon plug-in electric “golf cart” style vehicles which are kept at each residence or which can be rented once on the Island. BHIT provides a tram service to carry property owners and guests between the ferry landing and their on-island

¹⁴ Responsibility for dredging the Bald Head Island entrance channel is shared by the State of NC and the Village of Bald Head Island.

destination, and a shuttle is provided for employees and contractors to / and from the contractor / employee center.

Tram service is included with all standard resident and guest tickets, although on average no more than about 55 percent of property owner and guest passengers use the tram service, which reduces the tram service capacity that is required. Trams operate on a one-hour cycle, which allows time to pick up incoming passengers at the ferry landing, deliver them to their respective destinations, and pick up outgoing passengers and deliver them to the ferry landing. The number of tram and trailer units operated at any point in time is adjusted based on demand.

2.2.2 Tram and passenger trailer operations overview

BHI Transportation provides transportation services to ferry passengers to homes throughout the Island on a pre-reserved basis, which enables efficient planning and routing of the trams. Upon arrival, passengers check in with the transportation coordinator to receive their tram truck number. Passengers then proceed to their respective tram truck with their bags. Bags are loaded in the back of the tram truck, as illustrated in Figure 8, while passengers get aboard the passenger trailer directly behind the tram truck. Each passenger trailer holds 12 passengers. Tram truck / trailer units make one round trip in under an hour dropping and picking up passengers along the way. Departing passengers are picked up on the round trip and taken to the ferry drop off zone, where baggage is delivered and tagged. Passengers then proceed to the passenger waiting area where they wait for the next ferry to depart. Passengers present their tickets at the ticket scanning area at which time they are allowed to embark the ferry. Passenger baggage is loaded into baggage dollies, and then loaded on the aft deck of the ferry for transportation to the mainland.

Figure 8: BHI tram truck and passenger trailer



2.2.4 Evaluation of tram truck and passenger trailer assets

The passenger trailer and tram truck fleet and related equipment is composed of the following asset types: (i) tram trucks, (ii) passenger trailers, and (iii) luggage dollies, which are listed in Table 6 along with selected key facts. Mercator specialists and subcontractors conducted visual inspections on samples of each of the asset types and asked related questions to management and the actual equipment operators in the field. These inspections and interviews were conducted during Mercator's field trip in June 2017. Mercator also reviewed additional documentation provided by management including M&R records and expenses.

Table 6: Baggage Dolly, Tram Truck and Passenger Trailer asset list and condition assessment

Asset	Quantity	Condition assessment
■ Tram trucks	24	Good
■ Passenger trailers	20	Fair to good
■ Baggage dollies	82	Good

General condition assessment

The BHI tram fleet consists of 24 tram trucks and 20 passenger trailers. In addition, the ferry operation is supported by a fleet of 82 baggage dollies that are rolled on and off the ferries with passenger luggage.

- **Tram trucks.** Good.
- **Passenger trailers.** Fair to good. The passenger trailer fleet is showing signs of wear and tear. Passenger seat cushions are showing normal signs of wear which is addressed through routine M&R programs.
- **Baggage dollies.** Good.

Observation highlights

- **Tram trucks.** No significant issues noted or reported. Some damage to fenders and rust were noted, but this does not impact the safety or reliability of the equipment.
- **Passenger trailers.** No significant issues noted or reported. Some damage to fenders and rust were noted, but this does not impact the safety or reliability of the equipment.

Baggage dollies. None.

Conclusions

- No physical deficiencies / deferred maintenance or immediate / short-term needs were noted.

2.2.3 Tram truck and passenger trailer capacity and peak demand profiles

For the capacity analysis, two scenarios were analyzed. The first scenario assumes tram truck and passenger trailer services to support peak day operations with two ferries. The second scenario assumes tram services support peak day operations with three ferries.

Tram truck capacity analysis to support peak day operations with two ferries

BHI Transportation currently has a fleet of 24 tram truck units. Because of maintenance and repair requirements and normal operational breakdowns, tram truck availability for operations is normally about 85 percent of the fleet, or 20 units. Historically, about 55 percent of all property owners and guests arriving to the Island require tram transportation.

- The following assumptions were developed for the capacity analysis, which were then summarized in

Table 7:

- Both vessels are assumed to sail at maximum capacity: 300 passengers would be arriving at the Island every hour (2 x 150).
- All 300 passengers are assumed to be entitled to a tram ride included with their full fare ferry ticket: 55 percent of these passengers choose to use the tram transportation, equivalent to 165 passengers.
- Tram passenger utilization is typically 90 percent, equivalent to 11 passengers/tram: a total of 15 tram truck and trailer units would thus be required for the 165 passengers.
- Based on an availability of 85 percent for tram trucks, the total fleet size required would be 18 units. BHI Transportation has 24 tram truck units, so there is now enough equipment to meet the requirements of peak day two-ferry operations.¹⁵

Table 7: Analysis of tram truck capacity required to support peak day two-ferry operations

Capacity analysis assumption or fact	Value and units
▪ Peak hourly ferry traffic (2 sailings x 150 each)	300 pax
▪ Percent of riders that are entitled to a tram ride	100 percent
▪ Percent of riders using tram	55 percent
▪ Required tram capacity per hour	165 pax
▪ Maximum passengers per tram	12 pax
▪ Average percent utilization of tram	90 percent
▪ Average passengers per tram trip	11 pax
▪ Round trip time per tram (in hrs)	1.0 hrs
▪ Average passengers per hour per tram	11 pax/hrs
▪ Required tram truck and trailer units operating	15 trams
▪ Tram truck availability at peak demand	85 percent
	18 tram trucks
▪ Required tram truck fleet	15 tram trailers

¹⁵ The focus is on the powered tram truck units because they require maintenance and may be out of service. The non-powered passenger trailers are simple and rarely out of service, and so extra units are not required.

Tram truck capacity analysis to support peak day operations with three ferries

For peak day three-ferry operation under the same analysis criteria, a total of 24 tram truck and trailer units would be operated. Assuming 85 percent availability of the fleet, BHI Transportation would need to maintain a fleet of 28 tram trucks to meet a peak day three-ferry operation, as shown in Table 8.

Table 8: Analysis of tram truck capacity required to support peak day three-ferry operations

Capacity analysis assumption or fact	Value and units
▪ Peak hourly ferry traffic (3 x 150)	450 pax
▪ Percent of riders assumed entitled to a tram ride	100 percent
▪ Percent of riders using tram	55 percent
▪ Required tram capacity per hour	250 pax
▪ Maximum passengers per tram	12 pax
▪ Average percent utilization of tram	90 percent
▪ Average passengers per tram trip	11 pax
▪ Round trip time per tram (in hrs)	1.0 hrs
▪ Average passengers per hour per tram	11 pax/hrs
▪ Required tram truck and trailer units operating	23 trams
▪ Tram truck availability at peak demand	85 percent
	28 tram trucks
▪ Required tram truck fleet	24 passenger trailers

Conclusions on tram system capacity and required equipment

- Tram capacity will not be a limiting factor when evaluating system-wide capacity, provided sufficient equipment is available.
- BHI Transportation would need to increase the fleet to 28 tram trucks and 24 passenger trailer units to have the required units available to meet peak day three-ferry operations. This will require the purchase of four additional tram trucks and four additional passenger trailers.
- To support a 50 percent increase in system capacity with regular operation of three ferries, BHITA will also require an additional 35-40 baggage dollies, at about **\$2,500 each**.

2.2.5 M&R quality and historic and future M&R costs

BHI Transportation has a good M&R process in place. Pre-operational equipment inspections are performed. Safety and mechanical issues are recorded and passed on to the maintenance provider. Equipment is repaired in a timely manner through an agreement with a 3rd party vendor located on the Island. Maintenance quality is good. Safety issues are addressed immediately with longer term maintenance issues scheduled based on availability. There is no need for changes to the tram truck system maintenance program that would increase costs beyond the historical trend.

2.2.6 Useful life and replacement costs

Tram trucks have an expected useful life of seven to ten years. The most recently purchased units had a cost of \$26,000 in 2020. We included costs for continued replacement in the eighth year of service.

Passenger trailers have an expected useful life of about 25 years. We assume that fleet replacement will start in 2025, and be completed over a six year period.

3. Parking and tug and freight barge operations

This section presents Mercator's analysis of the Deep Point parking operation, the tug and freight barge operation, and the real property and terminals infrastructure assets. The parking operations and parking capacity, including an evaluation of the assets that comprise the parking operations, are addressed first. Next, a similar analysis and evaluation is presented for the tug and freight barge operation, followed by an analysis and evaluation of the freight handling facility. Each asset evaluation provides a general condition assessment, observation highlights, as well as conclusions or recommendations where applicable.

3.1 Parking operations

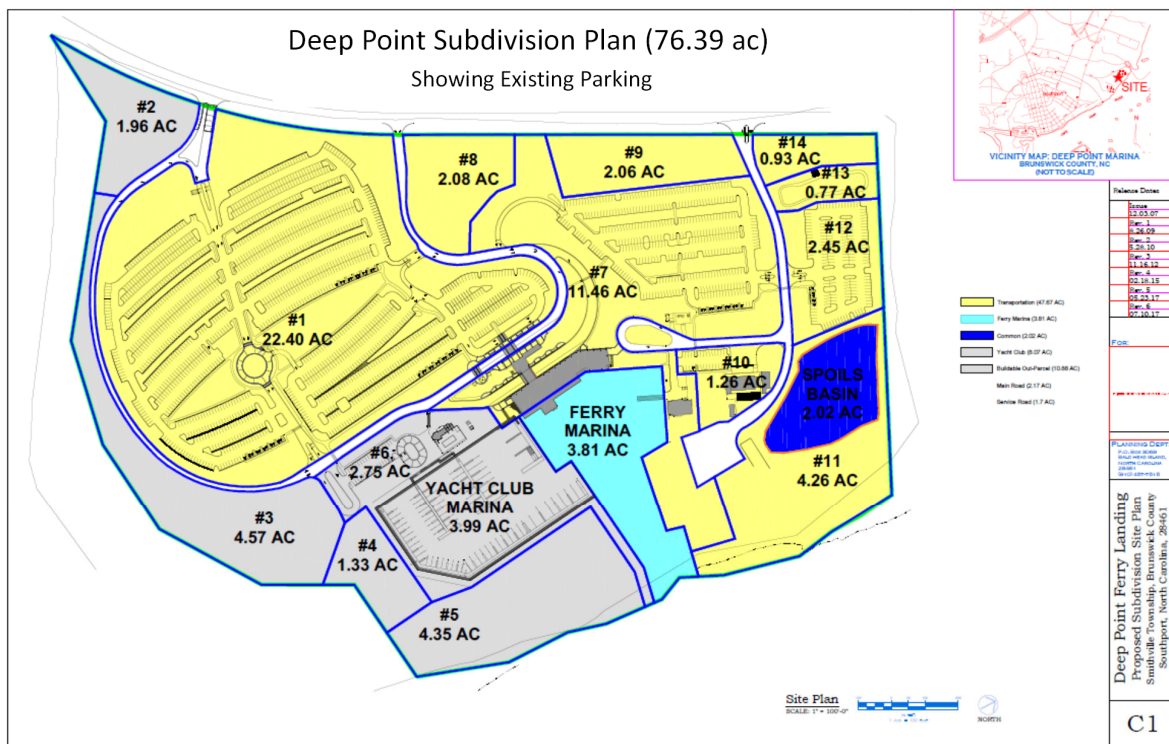
3.1.1 Description of parking business and services

Nearly all ferry passengers travel to and from the Deep Point Terminal (at Southport, on the North Carolina Mainland) by personal vehicle and park their vehicles in the BHI Limited parking facility. Therefore, the parking operation is tied to the ferry operation, with demand for parking very closely related to overall ferry traffic.

3.1.2 Parking operations and assessment of capacity

Approximately 36.3 acres of developed parking lots serve the customers of the ferry as of 2020. The layout of the parking lots is shown in the plan in Figure 9.

Figure 9: Deep Point Ferry landing terminal layout with developed parking lots



Parking is segregated into several lots for different groups of users and with different rate structures as summarized in Table 9.

Table 9: Existing parking facilities at Deep Point Marina (number of paved / striped stalls)

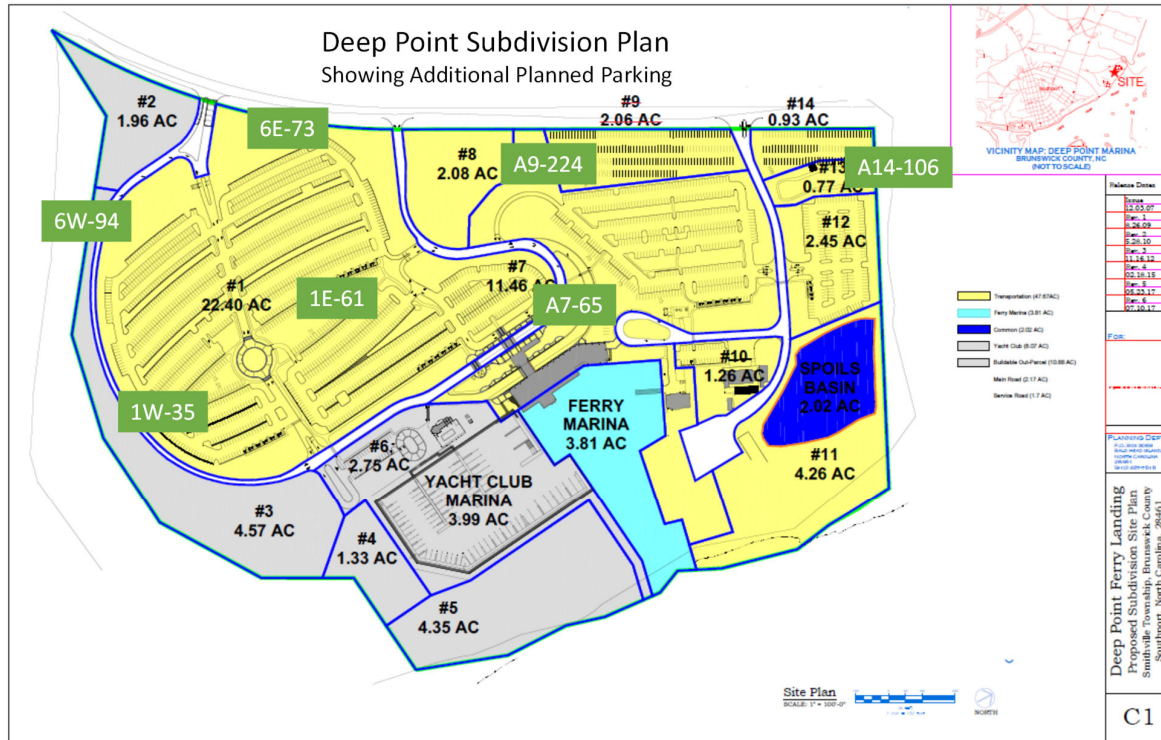
General Lot	1,021
Premium Lot	396
Contractor Lot	366
Employee Lot	172
Total Stalls	1,955

Utilization rates are generally less than 50 percent throughout most of the year, but are significantly higher during the peak summer season, when utilization is at or above 100 percent.

The system's peak historical ridership was achieved in 2019, which resulted in parking lot utilization of about 61 percent across the year, and approximately 96 percent during the Jun-Jul-Aug peak period (104 percent during July). During certain peak periods, some cars are parked in un-striped or un-paved spaces, which allows reported utilization to exceed 100 percent.

If we assume the current system has latent capacity of just 5 percent, then parking lot capacity will have to be expanded in order to handle the annual ridership increases that are expected. Areas where additional parking is designed and approved are shown in Figure 10.

Figure 10: Deep Point Terminal expansion areas and number of stalls (area - # new stalls)



Assuming that the maximum effective annual capacity is just 5 percent more than the parking vehicle-days already achieved in 2019, the current parking lot capacity is about 460,000 vehicle days per year.¹⁶ Considering the phased completion of the currently defined parking lot expansions that are illustrated in Figure 10, we can calculate the future parking capacity at the Deep Point Terminal after each succession parking lot expansion. Finally, assuming no significant change in the ratio of parking days to ferry traffic, then we can establish an effective capacity limit for the overall system, as outlined below in Table 10.

Table 10: Additional parking developments and supportable ferry capacity - with no additional land areas

	Additional Stalls Added	Total Number of Stalls	Max Vehicle- Days	Max Ferry Passengers Supported
2019 Actual		1,955	437,772	357,000
Max Current Capacity	5%	1,955	460,000	375,000
Area "6W" and "6E"	167	2,122	499,000	407,000
Area #1W	35	2,157	507,000	414,000
Area #1E	71	2,228	524,000	428,000
Area #7	65	2,293	539,000	440,000
Area #9	224	2,517	592,000	483,000
Area #14	108	2,625	617,000	503,000
Total	670			

If all land areas that are to be included in the transaction are developed, the number of parking stalls would be increased from the current total of 1,955 to a new figure of 2,625, an increase of 34 percent from current paved parking stall count. Assuming a similar seasonal demand pattern as in 2019, and a 2019 latent capacity of 5 percent, the annual vehicle-day capacity, when fully developed would reach 617,000. This level of parking capacity would support annual ferry traffic of about 500,000 passengers per year. At a cost of \$2,000-2,500 per stall for developing paved / lighted parking areas¹⁷, the addition of 670 stalls would cost \$1.425 million. According to BHIL, the anticipated parking additions have been designed so as to stay within the permitted capacity of the existing stormwater systems.

To move beyond a traffic level of 500,000 passengers per year, BHITA would likely need some additional land for further parking lot development, or a change in passenger's inland traveling modes that reduced the number of cars parked at the Deep Point Terminal, or make a change to how the parking lots are operated. There is additional land totaling about 6.5 acres along the southern boundary of the site that could possibly be developed, labeled as areas #2 and #3 in Figure 9. This land would need to be acquired by the Authority when and if needed. The Authority will acquire as part of the transaction a 30-year option to purchase Area 2 at specified prices. It is estimated that if acquired and developed, this land could add another 400+ stalls, increasing stall count from about 2,625 to more than 3,000, as illustrated in Table 11.

¹⁶ Annual vehicle-day capacity depends on the distribution of activity across the year – the more evenly spread, the greater the utilization in off-peak periods and the greater the number of annual vehicle days that can be accommodated.

¹⁷ BHIL historic costs for developing parking spaces have been in the range of \$1,500-\$2,000 per stall. We assume \$2,000/stall for projects of more than 100 stalls and \$2,500/stall for smaller scale projects.

Table 11: Potential additional areas for parking – land that could be acquired if needed

		Additional Stalls Added	Total Number of Stalls	Max Vehicle- Days	Max Ferry Passengers Supported
Fully Built BHITA Land			2,625	617,000	503,000
Area #2	2.2	125	2,750	646,000	527,000
Area #3	4.4	300	3,050	716,000	584,000
Total		425			

With this additional land and parking development, there would be sufficient parking to support over 700,000 vehicle parking days per year, which provides parking capacity to support ferry passenger traffic up to about 570,000 passengers per year, which will allow parking to keep pace with the growth in ferry traffic for the 30 year analysis period.

To provide further capacity or as an alternative to acquiring additional land, changes could be made to the parking operation to increase peak parking density. For example, by offering a valet parking service, one or more lots could be converted from random-access self-parking to high-density block-stow parking, similar to the operations seen at large valet-served lots at airports. With a valet-parking arrangement, the capacity of selected lots could be approximately doubled. The extra cost of valet parking, which would only be required during the peak periods, could likely be recovered by charging higher prices for this premium, high convenience service. The business plan for such an operational model has not been defined, however, and would not need to be implemented for many years, and so it is not considered in this feasibility analysis.

3.1.3 Evaluation of parking assets

Topography assessment

The property is generally flat, with a gentle slope to the east, up from the level of the Cape Fear River. No unusual or problematic features were noted or reported when Mercator visited the site in 2017.

- **Property drainage.** The runoff from the parking lots flows to catch basins, raceways, and drainage culverts which discharge to two detention ponds on the facility.
- **Surface water bodies.** There are several areas on the site that have been designated as coastal wetlands. In addition, there are several stormwater basins that will also limit the extent of future development. These limitations have been accounted for in BHIL's estimates of developable parking spots within each area of the property.
- **Flood plain designation.** The subject property is situated within Zone X which is defined as areas determined to be outside of the 0.2 percent annual chance floodplain.
- **Seismic zone.** The property is located in Zone 1. Properties located in Seismic Zones 3 or 4 are considered potentially vulnerable to significant impacts from earthquake activity. The subject property is not located in one of these zones. The facility was built to a seismic design category D, which corresponds to buildings and structures in areas expected to experience severe and destructive ground shaking but not located close to a major fault.

- **General condition.** Very Good. The topography and drainage at the property are maintained as part of routine maintenance.

Parking areas assessment

The parking areas are designed using asphalt laid over a stabilized base.

- **Curbs / swales / other.** Poured concrete curbs are present on the approach to the main building and passenger drop off area, along the sidewalks and around the landscape medians.
- **Ingress / egress.** Primary ingress and egress for the subject property is provided via one main entrance roadway, off Ferry Road. Access to the parking areas and to the main passenger facility to the east is provided within the property boundaries. There is also a separate access from Ferry Road that serves the employee parking lot and the freight barge ramp / marine maintenance area.
- **Lighting.** BHIL recently completed the replacement of conventional parking lot lights with LED lights, and achieved an immediate reduction in electricity costs for lighting.
- **General Condition.** Good. Limited pavement repairs, sealing, and striping appear to have been conducted recently. No significant pavement issues were noted or reported.

Concrete and flatwork assessment

- **Sidewalks.** The sidewalks, located along the marina front and in front of the ferry terminal building, and over to the maintenance shop, consist of standard poured concrete slabs. One heavy duty concrete loading area is present in front of the maintenance shop and another immediately behind the freight barge loading ramp.
- **Other.** Concrete pads support the electrical transformers and switchboxes. Concrete raceways are present at pavement edges, which help to facilitate drainage to the detention / retention ponds. Concrete is also present at water meters / drainage lines located throughout the property.
- **General condition.** Good. Minor to moderate cracking was observed in flatwork throughout the property.

Conclusions

- No physical deficiencies / deferred maintenance or immediate / short-term needs were noted. The areas of minor erosion and movement of the curb and sidewalk can be addressed as part of routine maintenance.
- Asphalt parking areas were installed in 2009 and have an EUL of 25 years. With proper maintenance, the parking lots could exceed the 25-year period up to an additional 10 years with routine maintenance.
- Concrete flatwork, installed in 2009 and 2010, has a EUL of 25 years. It would be reasonable to anticipate extending the useful life of concrete flatwork an additional 10 years, assuming proper maintenance continues to be performed as required.

3.2 Tug and freight barge operation

3.2.1 Description of freight barge business and the services provided

BHI Limited operates a tug and freight barge service five days per week, year-round, on a regular schedule between the Deep Point Terminal and the BHI Marina. The roll-on/roll-off (RoRo) freight barge carries vehicles of all kinds and sizes, up to and including large highway trucks and construction vehicles. With the exception of passenger baggage moving on the ferries, the freight barge service provides the only means to transport supplies and equipment to and from the Island. Nearly all cargo is transported in a customer's vehicle, although loose "deck cargo" is occasionally accommodated.

3.2.2 Overview of operations and assessment of capacity

The freight barge service utilizes a single tug of 850 (2 x 425) horsepower¹⁸ and a single 100 ft x 32 ft barge. Round trip voyages require about two hours. Demand is presently met by up to 20 sailings per week (four sailings per day, five days per week). While operations are conducted only during daylight hours, there is ample daylight during the peak season to expand the schedule to include up to six sailings per day.

In 2019, BHI Limited operated 1,021 freight barge round-trip voyages (a 24.1 percent increase from 2016), and sold 28,744 "freight barge tickets." One freight barge ticket is required for each six-lane-ft of cargo, meaning that the freight barge transported about 172,464 lane-ft of RoRo cargo. Each voyage can accommodate about 270 lane-ft of cargo (45 tickets), giving a calculated average utilization for 2019 of about 57 percent (7 percentage points more than in 2016). Effective July 22, 2019, freight barge ticket rates were increased for the first time since 2006, increasing by \$5.00 from \$50.00 to \$55.00. The exceptionally high volume of 2019 freight barge traffic is attributed to the substantial amount of repair and rebuilding required after Hurricane Florence hit in September 2018.

There is significant capacity available to satisfy growth in freight traffic, which could be accomplished in at least three ways:

- Increasing tug and freight barge weekday sailing frequency would be the simplest approach. Sailings could be increased from the current level of 20 per week (four per day x five days) to 30 per week (six per day x five days), at least during the peak summer months when daylight hours allow up to two additional voyages each day, an increase of 50 percent.¹⁹ A six sailing per day schedule was in place during 2006-2007 when construction activity was very high.
- Additional weekend sailings could also be added under special circumstances. Although the Village of Bald Head Island strongly prefers to avoid freight barge sailings and the associated traffic on the weekend, it seems logical that if critical freight demand required it, an accommodation could be reached.
- Capacity management / reservation protocols could allow utilization to be increased substantially beyond the historic 50 percent level to a year-round average of perhaps 60 to

¹⁸ The tug *Captain Alex*, with twin 385 hp engines, was recently replaced by a new tug, the *Captain Cooper*, which entered service in Q3 2017. The *Captain Cooper* has about 10 percent more power (2x425 hp) and is slightly faster, but voyage round-trip time will be largely unchanged.

¹⁹ While increasing the number of voyages may require a change to the scheduling of preventive maintenance activities, such a change should be feasible by, for example, doing maintenance on the overnight shift.

70 percent. At a utilization level of 65 percent, the tug and freight barge operation would be carrying 30 percent more cargo traffic.

Additional voyages could raise capacity to a level about 35 percent greater than the 2019 level (the freight barge completed over 1,300 round trips in 2006 and 2007). Increased utilization could further increase capacity if required, supporting annual freight ticket sales of at least 40,000 per year. Fuel consumption per voyage declined about 10 percent with the new tug in 2018 and this level of consumption per voyage is carried forward. As voyages are added, fuel and labor costs will increase in proportion to the increased number of voyages. For the sake of the feasibility analysis we assume (conservatively) that capacity is added through additional voyages, so these cost impacts have been reflected in the cash flow model.

3.2.3 Evaluation of tug and freight barge assets

Captain Cooper pusher tug

The *Captain Cooper* was delivered (new) to BHI Limited during the late summer of 2017. This new purpose-built tug should fully meet the service requirements of the tug and freight barge operation. It has a minimum service life of 40 years. The characteristics of the *Captain Cooper* are illustrated in Table 12. Based on reported pricing for a similar tug²⁰ and the valuation survey of KOPCO, the market value and replacement value of the newly delivered Captain Cooper is estimated to be about \$2.1 million.

Table 12: Characteristics of the *Captain Cooper* pusher tug

Vessel characteristic	<i>Captain Cooper</i>
Year Built	2017
Length overall (LOA)	50 ft
Beam	24 ft
Draft	5.5 ft
Horsepower	2 x 425 = 850
Service speed	8 knots
Fuel consumption	Abt 27.5 gallons/voy

Barge Brandon Randall

The *Brandon Randall* is a 100 ft x 32 ft steel deck barge, built in 1999 in accordance with 46 CFR Subchapter I (Cargo) vessel for Lakes, Bays, and Sounds. The Barge has a draft of 1.5 ft and can carry 200 Tons of cargo. The vessel is dry-docked twice every five years as per Subchapter I requirements. The *Brandon Randall* was found to be in seaworthy condition; however, it is showing normal wear and deterioration consistent with her age. Her next dry-docking due date is **Oct 18, 2022**. The 2019 M&R cost of the *Brandon Randall* was \$10,000, an allowance that is carried forward in the model. Additionally, every two to three years the Barge is drydocked and painted, and required structural repairs are made. The last two barge dry-dockings averaged about \$41,000 each, so an average cost of \$20,500 per year is included in the Capex outlook.

²⁰ Great Lakes Tugs recently delivered a 45-ft, 940 hp tug at a cost **\$2.5 million**. The 2017 acquisition cost of the *Captain Cooper*, with lower installed power, was on the order of **\$1.7 million**.

Conclusions

- The barge *Brandon Randall* is seaworthy and has 10 or more years of service life remaining.
- Because, in general, steel vessels are hard to maintain once corrosion becomes extensive, the maintenance routine has included periodic grit-blasting and epoxy coating of internal spaces, which in her present service are kept dry.
- Given her age and condition, it should be expected that the M&R and dry-docking budget for this vessel will have to be steadily increased.
- The current **market value** of the Barge is estimated to be **\$100,000** and the **replacement** cost for a similar US-built barge is estimated to be **\$225-250,000, with \$250,000 included in the CapEx forecast.**

3.3 Freight handling facility

3.3.1 Description of business and service

The transportation system serving BHI includes a small freight handling operation where small parcels of cargo are combined, palletized and loaded aboard trucks for transport to the Island. The freight handling operation has historically been undertaken by a department of BHI Limited, but with all revenue and costs of the cross-docking kept separate from the tug and freight barge operation. It is assumed that in the future, after BHITA owns the Deep Point campus, the cross-docking activity will be managed by a third-party contractor or a cooperative that leases space for the activity. In this analysis, it is assumed the cross-dock facility will generate a market-based lease revenue for the BHITA.

3.2.2 Overview of operations and facility

The Deep Point Shipping & Receiving and cross-dock facility was opened to operations in the fall of 2009. The 5,880 square foot facility has doors on both the western (x4) and eastern (x3) sides of the facility. The facility includes two 140 square foot cold storage areas, one for chilled cargo and the other for frozen cargo. A backup power generator is provided. Cargo is handled directly from inbound trucks, moved across the dock, and immediately loaded onto waiting outbound BHI trucks headed for the Island. A photo of the freight handling facility is provided in Figure 11.

Figure 11: The Freight handling facility at Deep Point



3.2.3 Evaluation of assets - Condition assessment

- **Cargo bay doors.** No issues noted or reported. Bay doors were open and operational at the time of the assessment.
- **Concrete cargo bay area.** No significant defects in the concrete bay area were noted or reported. Cargo bay area is a 7-inch thick, 4,000 lb per square inch concrete slab.
- **Drainage.** No drainage issues were identified or reported.
- **Roof.** No roof leaks were observed or reported. The roof system is designed for wind speeds of up to 140 MPH.
- **Parking area.** No damage or deterioration noted in the parking area.
- **Discharge and loading bays.** No significant damage or deterioration to the truck discharge and loading ramp areas were observed or reported.
- **Cold and frozen storage.** Units were in full operation at the time of observation. No issues were noted or reported.
- **General condition.** Good. Warehouse is well maintained, kept clean, and is organized. Routine maintenance is performed and repairs made in a timely manner.

Conclusions

- No physical deficiencies / deferred maintenance or immediate / short-term needs of the freight handling facility exterior, roof, or interior were noted.
- All electrical and mechanical systems were observed to be in good working condition.

3.2.5 Useful life and replacement costs

The cross-dock freight handling facility is a relatively new structure, with an expected useful life of over 40 years. There are no major issues or significant expenditures foreseen in the next 10 to 15 years with this structure.

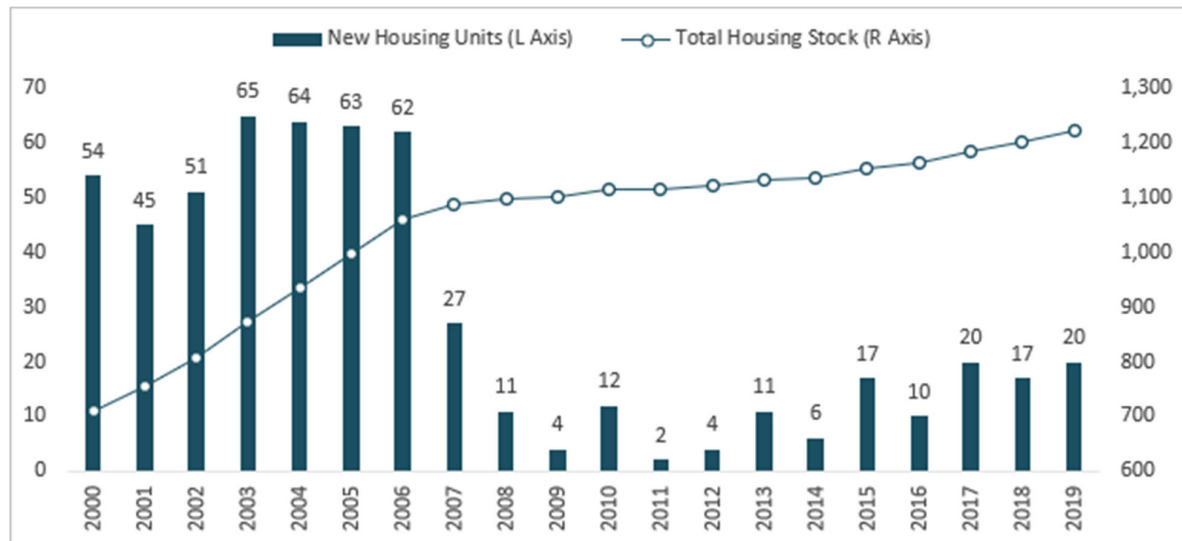
4. Demand analysis

4.1 Analysis of historical data

From 2000 to 2019, an average of approximately 150,000 people visited BHI per year, with around 60 percent of the visits taking place between May and September. Two thousand of the island's 12,000 acres are available for development, while the remaining 10,000 acres will remain undeveloped. BHI has approximately 1,300 private residential units and is home to approximately 250 year-round residents. The remainder are second residences / vacation homes.

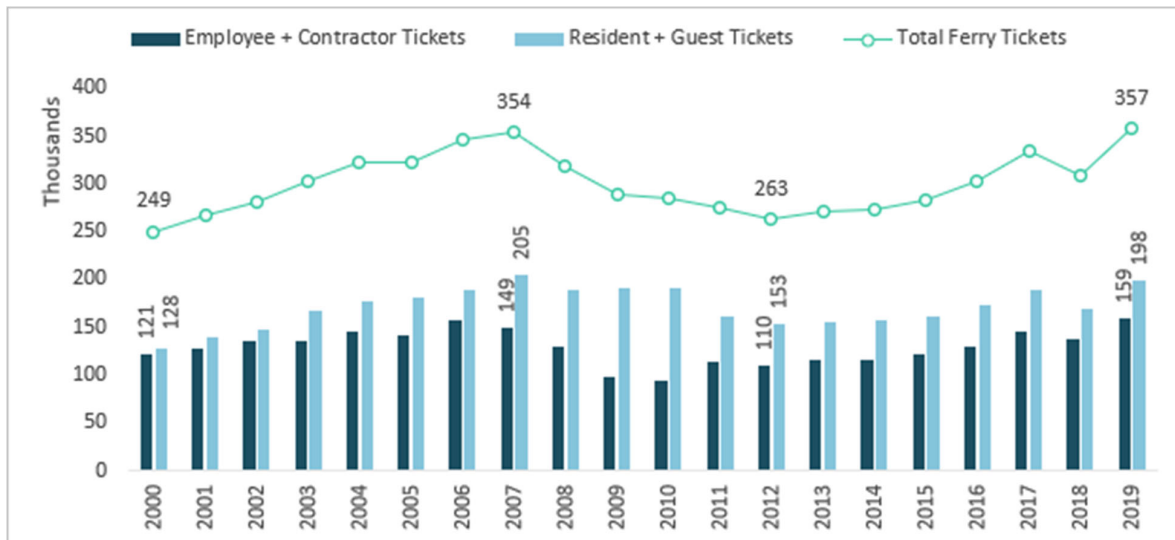
As can be seen from Figure 12, which was derived by Mercator from property tax records, the number of residential units on the island grew quickly during the 2000 to 2006 period, but new home construction did not begin to rebound from the 2009 housing crash and global financial crisis until 2013. With building sites available for another 800 to 1,000 units, there is substantial room for additional housing growth at the recent rate of around 20 houses per year.

Figure 12: Residential units built per year and accumulated housing stock, 2000 to 2019



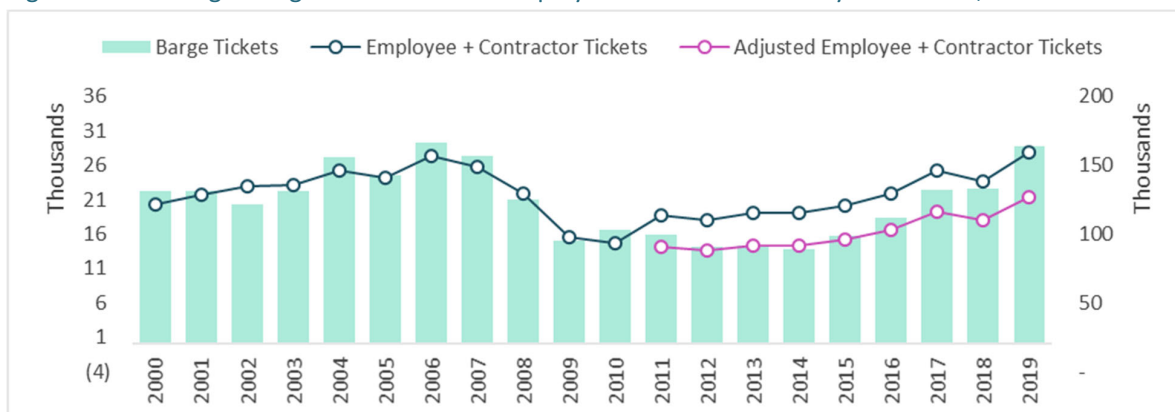
Ridership grew at a compound rate of 5.1 percent per year over the 2000 to 2006 period, and after contracting from 354,000 in 2007 to 263,000 in 2012, total ridership resumed growing at a rate of 4.5 percent on a compound annual basis over the 2012 to 2019 period (see Figure 13). The decline in total ridership from the 2007 peak to 2010 was driven by a massive decline in employee and contractor ticket sales that was precipitated by the collapse of new home construction. The continued decline in total ferry ridership from 2010 to 2012 was driven by a decline in resident and guest ticket sales, which appears to have been influenced by a 53 percent increase in resident and guest ticket price and a 40 percent increase in the less expensive employee and contractor ticket price in 2011. The jump in employee and contractor ridership in 2011 coincides with the dip in resident and guest ticket sales, thus suggesting that the increase in ticket prices caused some contractors who were paying for the convenience and additional service level associated with the resident and guest tickets prior to the price increase were not willing to do so after the price increase in 2011.

Figure 13: BHI ferry ticket sales by major category, 2000 to 2019



In addition to operating the passenger ferry, a freight barge service is also operated by Bald Head Island Limited and is intended to become part of the BHITA operation. The freight barge delivers all the materials associated with residential and non-residential construction, and as such, the freight barge tickets should be highly correlated with contractor and employee ticket sales. In Figure 14, we see that there is indeed a strong correlation between these ticket categories through 2010, when the employee and contractor ticket sales jumped despite residential construction hitting a 20-year low, and despite a slight decline in freight barge ticket sales. When we adjust for the 2011 ticket price increase – induced shift from resident and guest ticket sales to employee and contractor ticket sales, we see that the correlation between freight barge tickets and employee and contractor tickets remains tight until 2017. The data suggests that the approximate doubling of home construction in 2017 caused some of the contractors to shift back to buying the higher priced resident and guest tickets in recent years.

Figure 14: BHI freight barge ticket sales and employee and contractor ferry ticket sales, 2000 to 2019



The rise, fall, and rebound in ferry and freight barge ticket sales reflects shifts in home construction, and home construction, in turn, is influenced by the relative attractiveness of real estate as an investment class. The purchase of second residences / vacation homes should be compared against alternative investments in the stock market. As can be seen in Table 13, which compares the relative performance of real estate (as measured by the national Case Shiller Home Price Index) to the Nasdaq composite index and the Dow Jones industrial average, there are four distinct periods. These are described in the bullets below:

- **Period 1: Housing Bubble (January 2000 to March 2007)** – Over this period, home prices increased at a compound rate of growth of just over 10 percent per year while both stock price barometers declined. New home construction averaged 58 new units per year, and ferry tickets grew at a compound annual rate of 5.6 percent, while freight barge ticket sales grew at a compound rate of 4.4 percent per year.
- **Period 2: The Great Contraction (March 2007 to May 2009)** – Over this period, declines were significant across all investment classes.
- **Period 3: Early Recovery (May 2009 to May 2012)** – Over this period, home prices remained flat, while the Nasdaq composite index increased at a compound annual rate of just under 20 percent (nearly doubling in five years), and the DJI increased at a compound rate of over 10 percent per year. Over period 2 and period 3, new home construction on BHI averaged just over six units per year, and in 2012, passenger ferry ticket sales were around 25 percent lower than in 2007, and freight barge ticket sales had fallen by half.
- **Period 4: Late Recovery (May 2012 to December 2019)** – Over this period, all asset categories produced attractive annual returns, and we see that new home construction grew from just four units in 2012 to 20 units in 2019. In turn, ferry ticket sales grew at a compound rate of 4.5 percent per year over this period and freight barge tickets doubled.²¹

²¹ It should be noted that freight barge traffic in 2019 was unusually high due to recovery efforts following Hurricane Florence. Between 2012 and 2018, freight barge ticket sales grew at a compound rate of 9.5 percent per year.

Table 13: Four major periods impacting real estate development in the US, 2000 to 2019

	Case Shiller Home Prices		Nasdaq Composite		Dow Jones Industrial Av.	
	Index	Measure	Index	Measure	Index	Measure
Period 1: Housing Bubble						
Jan-00	100	100.0	100	4,131.2	100	16,618.7
Mar-07	204	204.0	59	2,448.9	93	15,430.6
CAGR	10.3%		-7.0%		-1.0%	
Period 2: Great Contraction						
Mar-07	100	204.0	100	2,448.9	100	15,430.6
May-09	69	140.8	69	1,689.2	66	10,191.9
CAGR	-15.7%		-15.8%		-17.4%	
Period 3: Early Recovery						
May-09	100	140.8	100	1,689.2	100	10,191.9
May-12	99	139.5	172	2,902.6	136	13,831.1
CAGR	-0.3%		19.8%		10.7%	
Period 4: Late Recovery						
May-12	100	139.5	100	2,902.6	100	13,831.1
Dec-19	158	220.2	310	9,006.6	206	28,481.4
CAGR	6.2%		16.1%		10.0%	

Homes that are being built on BHI are primarily second residences, and more specifically, they are vacation homes. Nationally, it is estimated by the National Association of Home Builders that the total count of second homes was 7.4 million (2016) which equates to approximately 5.6 percent of the total housing stock. A significant, but unknown portion of this volume are comprised of what Mercator refers to as “cash flow real estate investments” – residential homes and condos that are purchased with the intent of renting units through long-term or short-term leases. Vacation homes, by contrast, typically remain vacant for most of the year, though it should be noted that vacation homes are now more frequently being rented out to vacationers on a daily or weekly basis as a consequence of the increased ease of doing so made possible through apps such as Airbnb. Mercator understands that 435 of BHI residential units fall into the category of vacation home rentals, generating about \$18 million a year in rental revenue.

Vacation homes that do not generate cash flows are an asset class that is only accessible to the upper echelon of income earners. While Mercator does not believe that the COVID-19 pandemic will have any direct long-term impacts, the indirect impact on the economy could influence the outlook for new home construction on the Island. The trend shown in Figure 15 below, however, indicates that inflation-adjusted incomes of the top 5 percent of income earners have been quite resistant to recessionary pressures. Thus, it appears unlikely that the pandemic-caused recession will have an immediate or long-term impact on new home construction on BHI.

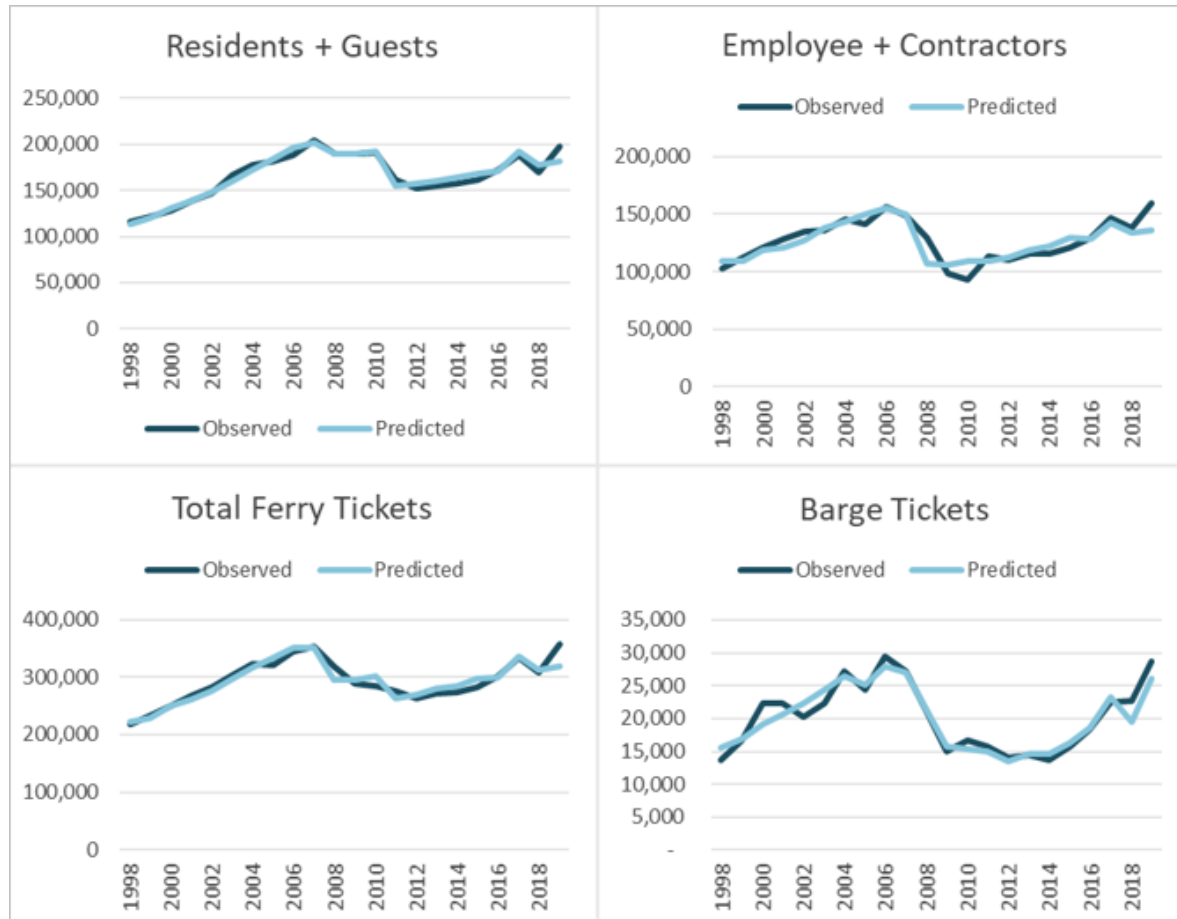
Figure 15: Inflation-adjusted average annual income of the lowest wage earners in the upper 5 percent income bracket, 1990 to 2018 (recessions highlighted in magenta) Source: US Census



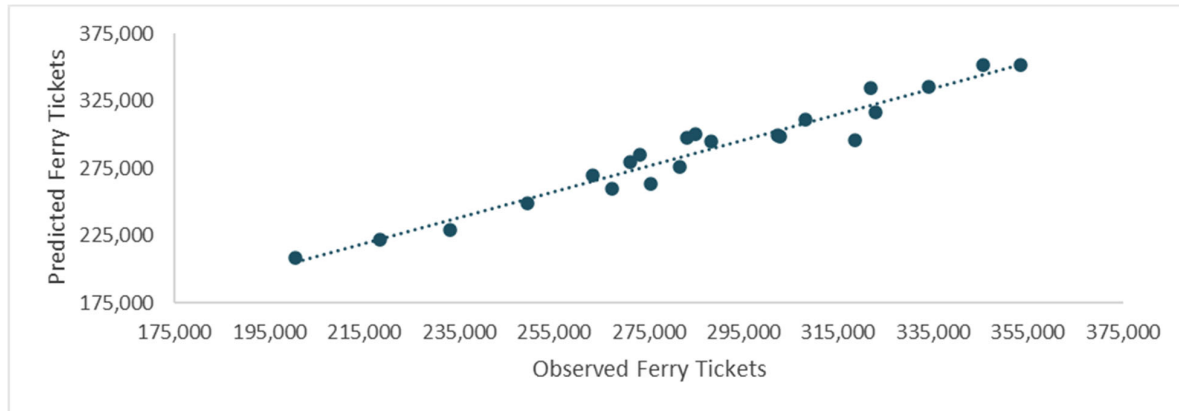
4.2 BHI ferry ticket, freight barge ticket, and parking volume modeling

Through a stepwise multivariate regression analysis, Mercator derived an econometric model that accurately predicts historical barge and ferry ticket sales by major ticket class (guest / resident versus contractor / employee). Ferry and barge traffic to and from BHI are driven by total housing stock and the number of new houses built per year, though there are additional variables in the model to aid calibration. Ferry and barge traffic, in turn, drive demand for parking and other services. The historical accuracy of the model could be further improved by using dummy variables to account for one-off events such as hurricanes, but hurricanes are not accounted for in the model. It should be noted that in terms of ferry and barge traffic, the model will underpredict volumes associated with hurricane recovery efforts. This explains the underprediction in 2019, as the Island's residents and businesses recovered from Hurricane Florence, which touched down in late September 2018.

Figure 16: Observed and predicted BHI ferry and barge ticket volumes, 1997 to 2019



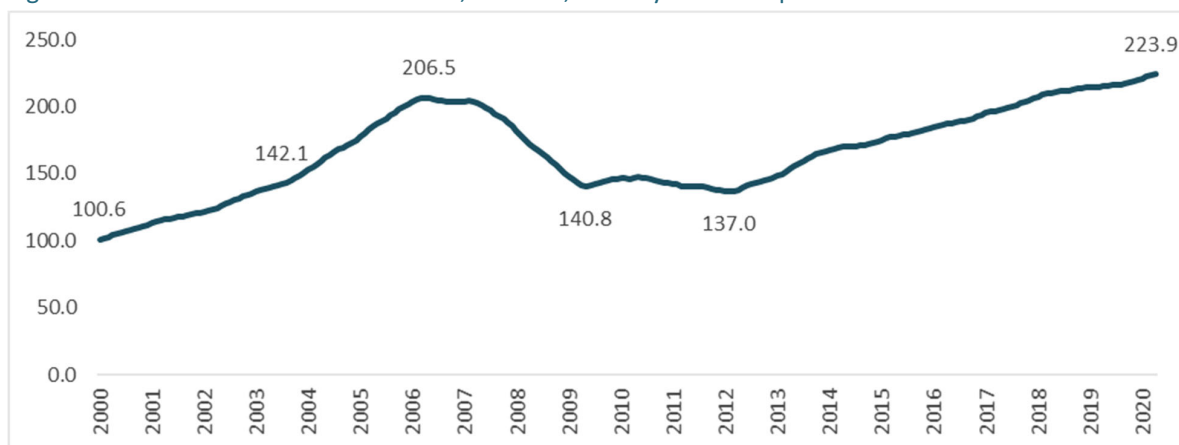
In the scatterplot below, we show that over the 1997 to 2018 period, variation in the independent variables driving the model are able to explain / predict just under 95 percent of the variation observed in total ferry ticket sales. Given the volatility in the BHI housing market, this is an acceptable level of model determination.

Figure 17: Scatterplot of observed and predicted ferry ticket sales, 1997 to 2018²²

4.3 BHI ferry ticket, freight barge ticket, and parking volume forecast

Growth of BHI ticket sales and parking revenues are dependent on new home construction. As demonstrated in the overview section, new home construction has been extremely variable, with the rate of growth in residential housing stock ranging from as low as 0.2 percent (2011) to as high as 8.2 percent (2000). As a baseline assumption, Mercator assumes that the current recession is qualitatively different than the Great Recession of 2008 / 2009 in at least one critically important aspect – the Great Recession and global financial crisis were precipitated by a housing bubble that culminated with a mortgage crisis. Thus, those historically low new home construction rates should not be expected to return.

Figure 18: Case-Shiller Home Price Index, all cities, January 2000 to April 2020



²² 2019 was excluded because it is an outlier year due to the effects of Hurricane Florence.

While growth rates in BHI home construction will likely fall far short of the levels reached during ‘bubble years’, it is reasonable to expect the rate of housing stock additions to continue to increase or at least remain steady when the following are considered:

- To date, the great majority of businesses that have been hit by the pandemic-inspired economic lockdowns are restaurants, retail, and travel, but these businesses are not in industries that are responsible for employing any significant amount of top-five percent income earners.
- Incomes of earners in the top-5 percent have been increasing steadily in real terms, and they are now well above the static income level that this population segment experienced during the housing bubble.
- International travel will continue to be viewed as risky for years, and some portion of the population of upper income earners who may have previously been interested in purchasing a vacation home offshore will view the relative safety of a domestic vacation home in a more favorable light. This will likely be especially true for those over 60 who are more susceptible to severe health implications from contracting the COVID-19 coronavirus.
- Moreover, interest rates are likely to remain at historic lows, which will make real estate even more attractive. Unlike stocks, real estate can be a leveraged investment.
- In uncertain times, owning property in a safe and readily-accessible place like BHI, located outside yet near major population centers, would likely be attractive to many people.
- Finally, the ability to work remotely could add some gravitational pull to the Island.

It is difficult to attach a growth rate multiplier to any of the bullet points above, and as can be seen in Figure 19, there has been a strong upward trend in the growth rate of housing stock on BHI. That said, in order to be conservative, Mercator has opted to pin the average BHI housing stock growth rate at 1.7 percent per year. There will be periods where growth will be higher, and years when new home construction falls short of this figure, but over the long run, 1.7 percent annual growth appears to be reasonable.²³

Figure 19: Growth rate of BHI housing stock, 2011 to 2019



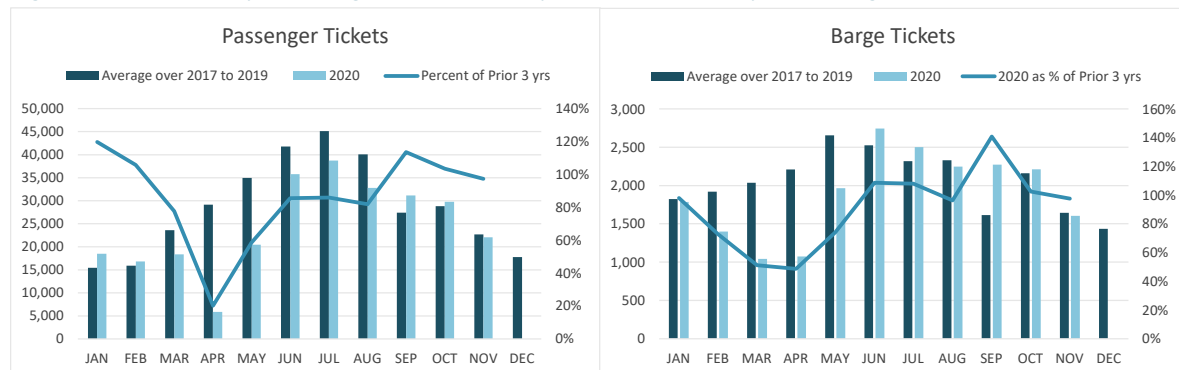
²³ The 1.7% p.a. rate of housing unit additions equates to 21 new units in 2022, and 25 units per year in 2030.

Year-to-date (through November) volumes by ticket class were used to estimate calendar year 2020 volumes. The COVID-19 crisis is expected to have knocked ferry ticket volumes down from 357,000 to about 290,000 and caused barge volumes to fall from around 29,000 barge tickets to about 23,000 barge tickets. It is worth noting, however, that even in the absence of the pandemic, modest volume declines would have been expected because 2019 was an outlier year in the sense that there was a significant bump in traffic associated with recovering from Hurricane Florence, which had caused many millions of dollars of property damage on BHI.

2020 Ferry and barge traffic as reported through November 2020 are plotted in Figure 20. Passenger traffic in the first two months of the year exceeded the prior 3 year average, but fell below the prior years' average in March, and reached a low point, both comparatively and absolutely in April, before making a strong recovery. Understanding the barge traffic behavior early in 2020 is a little more complicated due to the extraordinary volume carried in 2019, but a sharp decline in March was followed by a very strong recovery – to well above the 3 year average.

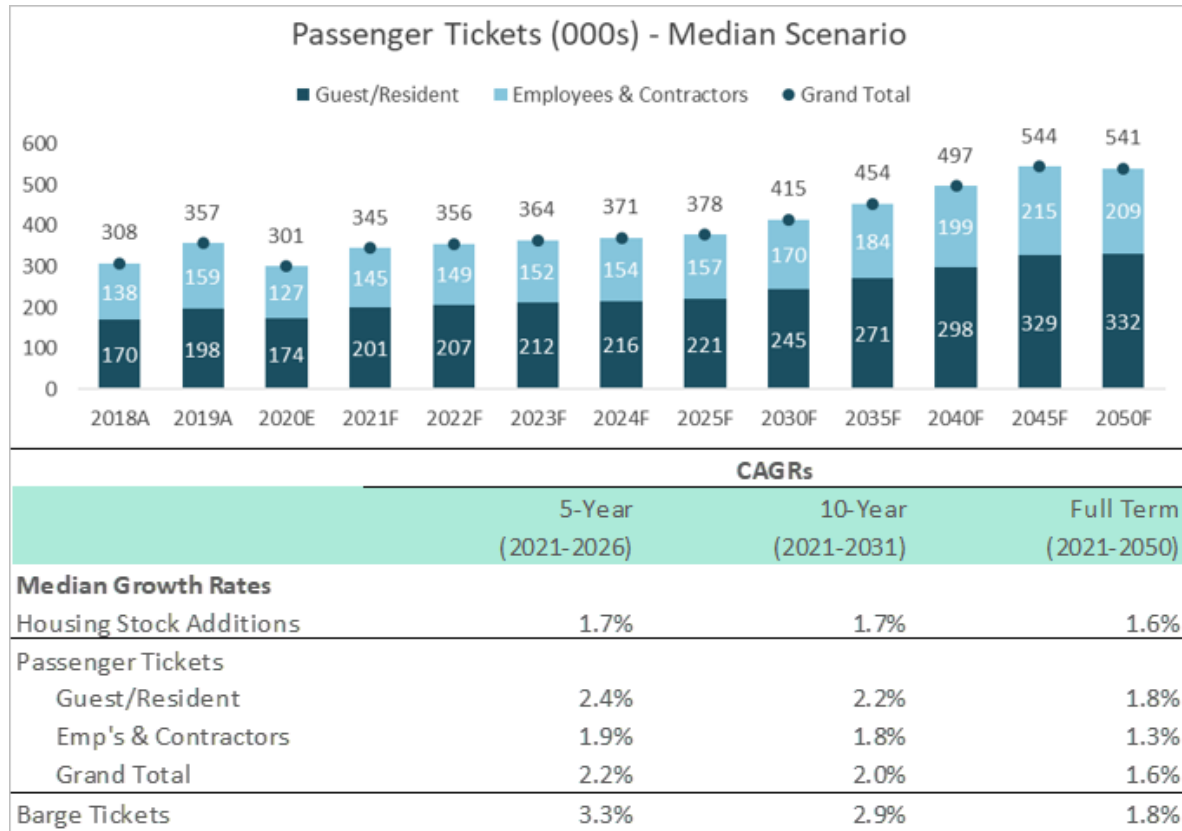
The following charts in Figure 20 show that barge traffic fully recovered before mid-year and has remained strong, and that ferry traffic recovered by September, despite the continuing restrictions on the capacity of each ferry sailing.

Figure 20 - 2020 Ferry and Barge Traffic as compared to Recent 3-year averages



Volumes in 2021 are expected to rebound to 345,000 ferry tickets and 23,000 barge tickets, and as can be seen in the graphic below, an annual growth in new home construction of 1.7 percent (21 units added in 2022, rising to 25 by 2030) should be expected to cause resident and guest ferry ticket sales to grow at a compound annual rate of 2.4 percent over the five-year period from 2021 to 2026, while contractor and employee tickets grow at a compound annual rate of 1.9 percent and barge tickets grow at compound rate of 3.3 percent per year. Over the ten-year period from 2021 to 2030, growth rates relax some, as total ferry ticket sales grow at a compound annual rate of 2.0 percent while barge tickets grow at a compound rate of 2.9 percent per year. Parking volumes are expected to grow at least in line with the ferry passenger ticket levels.²⁴

²⁴ There has been a modest upward trend in the number of parking vehicle-days (from 1.01 vehicle days in 2011 to an average of 1.26 vehicle days over the last four years), but in keeping with our conservative approach, we have not increased the assumed number of vehicle parking days and associated parking revenue per ferry passenger.

Figure 21: Ferry and barge ticket forecast, 2020E to 2050²⁵

4.3 BHI ferry, freight barge, and parking forecasts under high, low and “stress” cases

In addition to modelling the expected development of demand for ferry, barge and parking services, Mercator developed alternate scenarios in order to examine how the financial performance of the Authority would be affected by changes in the underlying circumstances that drive demand for the authorities services.

The alternate scenarios were defined as follows:

High Case: new construction grows the housing stock at a rate of 2.25% per year, adding 28 units in 2022 and 34 units per year in 2030 - which is only slightly more than half the average annual additions over the 2001 to 2006 housing boom - and eventually reaching the total island build out limit in 2043.

Low Case: new construction grows the housing stock at a rate of only 0.75% per year, which results in only 9 additional units per year in 2022, increasing to 10 units per year by 2030. Over the 2021 to 2050 period (29 years), the total number of new units added would total to only 305, which is equal to the number that were built over the five years ending in 2006.

²⁵ Volume forecasts were prepared (and are shown here) on a calendar year basis in line with reporting from BHIL. Calendar year forecasts were converted to fiscal years ending in June for the financial modeling.

Moderate Case with Housing Recession: housing construction falls to 10 units in 2022, and then only 8 additional units are built during 2023-2025 (i.e. fewer than three per year), before annual housing growth returns to the base case rate. Whereas in the base case scenario, 88 units are built between now and 2025, under the moderate case with a housing recession scenario, the total falls to just 18.

Low Case with Housing Recession: housing construction over the 2022 to 2025 period amounts to just 17 new units, and after this period, new unit construction returns to the low case scenario. Hence, under this scenario, a slightly higher number of new units are constructed over the remaining 29 years of the forecast than were constructed between 2003 and 2006.

Figure 22 - Ferry and barge traffic forecasts under each scenario

Expected (Median Housing Growth) Scenario												Compound Annual Growth		
Passenger Tickets (000s) -	14mo 2020	Mar-Jun '21	FY '22	FY '23	FY '24	FY '25	FY '30	FY '35	FY '40	FY '45	FY '50	2022-2025	2025-2030	2030-2050
Guest/Resident	181	74	203	208	214	219	243	268	296	326	344	2.6%	2.1%	1.8%
Employees & Contractors	143	54	145	148	152	156	169	183	198	214	220	2.5%	1.6%	1.3%
Grand Total Ferry Tickets	323	128	348	356	366	375	412	451	494	540	565	2.5%	1.9%	1.6%
Barge Tickets (000s)	25.2	8.1	23.8	25.3	26.1	27.1	30.3	34.2	38.2	42.7	39.3	4.4%	2.3%	1.3%

High Housing Growth Scenario												Compound Annual Growth		
Passenger Tickets (000s) -	14mo 2020	Mar-Jun '21	FY '22	FY '23	FY '24	FY '25	FY '30	FY '35	FY '40	FY '45	FY '50	2022-2025	2025-2030	2030-2050
Guest/Resident	181	74	206	215	222	228	260	296	335	333	333	3.5%	2.7%	1.2%
Employees & Contractors	143	54	147	153	158	163	180	200	222	210	210	3.4%	2.1%	0.8%
Grand Total	323	128	353	367	380	391	440	496	556	542	542	3.5%	2.4%	1.0%
Barge Tickets (000s)	25.2	8.1	25.4	27.0	28.2	29.1	33.7	39.3	45.1	39.3	39.3	4.7%	3.0%	0.8%

Low Housing Growth Scenario												Compound Annual Growth		
Passenger Tickets (000s) -	14mo 2020	Mar-Jun '21	FY '22	FY '23	FY '24	FY '25	FY '30	FY '35	FY '40	FY '45	FY '50	2022-2025	2025-2030	2030-2050
Guest/Resident	181	74	195	191	194	196	206	216	227	237	249	0.2%	1.0%	1.0%
Employees & Contractors	143	54	139	135	139	141	146	151	157	163	169	0.4%	0.7%	0.7%
Grand Total	323	128	335	326	333	337	352	367	384	400	419	0.3%	0.9%	0.9%
Barge Tickets (000s)	25.2	8.1	19.7	20.8	21.4	21.8	22.8	24.4	26.1	27.5	29.4	3.4%	0.9%	1.3%

Median Housing Growth Scenario - with a Housing Recession												Compound Annual Growth		
Passenger Tickets (000s) -	14mo 2020	Mar-Jun '21	FY '22	FY '23	FY '24	FY '25	FY '30	FY '35	FY '40	FY '45	FY '50	2022-2025	2025-2030	2030-2050
Guest/Resident	181	74	196	190	190	191	227	252	278	306	337	-0.7%	3.5%	2.0%
Employees & Contractors	143	54	140	134	135	136	161	174	188	203	220	-0.8%	3.3%	1.6%
Grand Total	323	128	335	324	325	328	388	426	466	510	557	-0.8%	3.4%	1.8%
Barge Tickets (000s)	25.2	8.1	20.0	19.8	20.0	20.5	27.9	31.7	35.7	39.8	44.4	0.8%	6.4%	2.3%

Low Housing Growth Scenario - with a Housing Recession												Compound Annual Growth		
Passenger Tickets (000s) -	14mo 2020	Mar-Jun '21	FY '22	FY '23	FY '24	FY '25	FY '30	FY '35	FY '40	FY '45	FY '50	2022-2025	2025-2030	2030-2050
Guest/Resident	181	74	195	189	190	191	202	211	222	233	243	-0.7%	1.1%	0.9%
Employees & Contractors	143	54	139	134	135	136	144	149	155	160	166	-0.8%	1.1%	0.7%
Grand Total	323	128	335	323	325	327	346	360	377	393	409	-0.7%	1.1%	0.8%
Barge Tickets (000s)	25.2	8.1	19.7	19.8	20.0	20.4	22.3	23.8	25.5	26.9	28.3	1.2%	1.7%	1.2%

5. Financial analysis and cash flow forecasts

The section presents the financial analysis of the component activities of the BHITA, and forecasts the cash flows to be generated by each activity to be undertaken by the BHITA and by the Authority in aggregate.

5.1. Methodology

Using historical traffic and financial data provided by BHI Limited and the audited financial statements, Mercator has developed a forecast of volume, rates, operating expenses, and capital expenditures by line of business: (i) passenger ferry and on-island tram, (ii) parking, and (iii) tug and freight barge. Where appropriate, growth rates by line of business, and therefore revenue, were broken down and forecast by specific sub-categories. Operating expenses were forecast based on historic actual costs, carried forward to include and reflect a) the specific operating circumstances of the BHITA and the terms of the transaction, b) adjustments for inflation and c) increases to costs related to increased volumes and additional sailings that result from increasing volumes.

Capital expenditures were forecast considering a) the requirements to expand capacity to handle growing volumes with a level of service comparable to historical service levels, b) the need to replace existing assets at the end of their assumed useful life, c) on-going “sustaining” or “maintenance” capital expenditures in line with historical spending, and d) required additional maintenance and life-extension work identified by inspections carried out by engineers retained by BHIL and BHITA. Given that the BHITA will not be an income tax-paying entity, no consideration is given to income tax or depreciation of assets.

The three lines of business have limited working capital requirements. Much of the revenue is paid with credit cards, which do not take significant time to clear. Expenses are primarily wages and salaries and fuel, which are due and payable promptly. Mercator expects the working capital to consist of approximately one-month of total operating expenses.

As an escalator for operating costs, capital expenditures and ticket revenue, Mercator has assumed an inflation rate of 2 percent per year.

5.2 Capital Expenditure Forecast

Capital expenditures (CapEx) comprise an important use of operating cash flows and have been evaluated and forecast for each of the three BHITA lines of business.

The largest capital expenditures will be for replacement of each of the four ferry vessels when each vessel reaches the end of its expected useful life. Mercator has assumed replacement of ferries with catamaran type ferries (similar to the *Ranger* and *Patriot*) at defined intervals based on an approximate useful life of 45 years, with a current (2020) cost of approximately \$4.5 million per unit, escalated by inflation.²⁶

Routine day-to-day vessel M&R spending is included as a normal operating expense, while the capital forecast includes the costs for major programmed spending such as engine overhauls for the ferries and the tug.

²⁶ Existing monohull ferries (*Sans Souci* and *Adventure*) are 42 and 31 years old, respectively, and in good condition. *Sans Souci* could be operable for another three to five years and *Adventure* for another 13-17 years, so a 45-year life for aluminum ferries is a reasonable assumption.

Other programmable CapEx includes the replacement of tram trucks at defined intervals under an assumed useful life of about seven years, which is consistent with the historical trend, and replacement of the un-powered passenger trailers after 20+ years. A new ferry ticket system is also included.

As parking demand rises, new parking capacity will need to be added at Deep Point. We have modelled the timing of parking lot development, linking it to growth in ferry traffic, at a cost of \$2,500/stall for small scale projects and \$2,000/stall for larger projects (over 100 stalls). Included in the parking development plan is the addition of 167 stalls at the northwest corner of the campus that will be done no later than 2024, followed by additional stalls as demand dictates. Paid parking-days per stall number about 245 per year, allowing a fast recovery of parking investments and positive cash flow in roughly two years should demand grow faster than expected.

As discussed in Section 3, we have included capital for all of the repair and replacement work identified by Moffat & Nichol as being required within the next 10 years. This includes bulkhead and dock repairs, a ferry landing replacement, periodic barge ramp replacements, and recommended inspections.

In addition to programmable spending, we include additional “sustaining” CapEx amounts that are consistent with the average historical CapEx incurred over recent years, and increased going forward for inflation. CapEx requirements by year and category are summarized in Table 14. Estimated capital spending through FY 2030, excluding ferry vessel replacement, comes to \$9.5 million.

Table 14: Capital Expenditure Forecast for BHITA

Capital Spending Forecast												Five Year Totals			
		FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	2031-'35	2036-'40	2041-'45	2045-'50
Ferry and Tram System															
Docks/Piers/Bulkheads	\$000s	0	107	74	155	0	0	527	538	188	0	0	0	0	0
Capital Dredging	\$000s	0	0	0	0	93	0	246	0	0	0	112	295	486	0
Ferry Vessel Overhaul	\$000s	80	80	0	166	0	172	0	183	187	187	404	651	966	805
Ferry Vessel Replacement (net)	\$000s	0	0	2,435	2,153	0	0	0	0	0	0	5,484	0	0	7,166
Vehicles (Trucks and Trams)	\$000s	27	55	56	86	236	152	246	220	412	164	792	454	706	649
Equipment - Luggage Dollies	\$000s	0	0	0	0	0	0	0	0	122	0	0	0	0	0
IT - Ticketing System	\$000s	0	250	0	0	0	0	0	0	0	0	0	0	0	0
Other / Sustaining	\$000s	25	77	79	81	82	84	86	87	89	91	482	532	587	648
Subtotal Ferry and Tram	\$000s	132	569	2,645	2,640	412	407	1,105	1,028	998	441	7,273	1,932	2,745	9,268
Freight Barge System															
Docks/Piers/Barge Ramps	\$000s	0	0	0	0	0	320	0	0	0	0	0	390	0	475
Barge / Towboat Replacement	\$000s	0	0	0	0	0	0	0	0	179	305	0	0	0	0
Other / Sustaining	\$000s	9	27	27	28	28	29	29	30	30	31	165	182	201	222
Subtotal Freight Barge	\$000s	9	27	27	28	28	349	29	30	210	336	165	572	201	697
Parking Operations															
Parking Lots: Land Acquisition	\$000s	0	0	0	0	0	0	0	0	0	0	0	1,231	0	0
Parking Lots: Development	\$000s	0	347	0	0	0	200	0	0	194	546	291	1,242	0	0
Other / Sustaining - Parking	\$000s	4	12	12	12	12	13	13	13	13	14	73	80	88	98
Other / Sustaining - Landlord	\$000s	43	133	135	138	141	144	146	149	152	155	825	911	1,006	1,110
Subtotal Parking	\$000s	47	492	147	150	153	356	159	163	360	715	1,188	3,464	1,094	1,208
Grand Total Capital Spending															
Vessel Replacement Capex (net)		188	1,088	2,819	2,818	593	1,112	1,294	1,220	1,568	1,492	8,626	5,968	4,040	11,173
Other than Vessel Replacement Capex		-	-	2,435	2,153	-	-	-	-	-	-	5,484	-	-	7,166
		188	1,088	384	665	593	1,112	1,294	1,220	1,568	1,492	3,142	5,968	4,040	4,008

5.2 Passenger ferry and on-island tram services

Mercator forecasts aggregate passenger ferry volume in the median or expected case to grow from about 357,000 passengers in 2019, to about 480,000 in 2040, reflecting a CAGR of about 1.42 percent from the 2019 peak. In low case, traffic would reach 412,000 in 2040 (CAGR of 0.7 percent) and in the high case, 515,000 (a CAGR of 1.76 percent).

As discussed previously in this report, the system has an existing capacity for at least 535,000 passengers per year, based on being able to accommodate peak season demand at 2019 service levels. This capacity limit is a service-level driven limit, rather than a limit related to gross passenger carrying capacity constraints. If lower service levels, and correspondingly extended passenger waiting times, were deemed acceptable, or if passengers accepted the use of a reservation system to spread out demand during peak periods, then the system could deliver additional capacity without significant additional service delivery expenses or capital expenditures.

Ferry ticket prices and schedules for the ferry system have been regulated by the NCUC since 1993. The only increase in ferry ticket prices was implemented in January 2011, leaving significant “room” in the price structure for increases just to “catch up” with a decade of inflation. Mercator has assumed that standard ferry ticket prices (category I) would be increased by \$4 per round-trip (from \$23 to \$27, about a 17 percent increase) in July 2021 (the start of FY 2022), approximately offsetting the prior 10 years that had passed without an increase. An increase of \$2 in the category I ticket (to \$29, or 7%) is assumed 5 years later for FY 2027, and then subsequently increased in line with inflation every 3 years. Other ferry ticket categories would also be increased in each instance by the same percentage. We assume that prices would be rounded-down to the nearest \$0.50. Between 2019 and 2030, we assume the average annual increase (CAGR for ferry ticket prices) would be 2.6%.

It is important to note that the BHITA will not be regulated by the NCUC or any other entity, and will be free to set its prices without regulatory oversight. This flexibility will allow the BHITA to adjust prices if needed to recover unexpected cost increases or to respond to other financial events.

Costs are broken down into three subcategories as reported by BHIL: *Cost of Sales*, *Salaries & Wages*, and *Operating Expenses*. The *Cost of Sales* category is assumed to be volume variable. *Salaries and Wages* are a combination of fixed costs and volume variable costs. *Operating Expenses* which depend on the number of voyages or passengers, including fuel and M&R, are increased with volume, while other operating and management costs are assumed to be fixed.

Volume *Variable Costs* are assumed to grow at the volume growth rate plus the rate of inflation. Fixed costs are assumed to grow at inflation. On this basis, Mercator forecasts costs to grow from about \$6.0 million in 2019, to about \$9.1 million by 2040, a CAGR of 3.9 percent.

The regulated ferry company (BHI Transportation) has historically paid the parent company (BHI Limited) for the lease of certain facilities required for the operation of the ferry business (the lease rate, as dictated by the 2010 North Carolina Utilities Commission rate case is \$1,252,708 per year). Given that the ownership of this land will be transferred to the BHITA, this lease payment will disappear, decreasing overall costs and increasing earnings as compared to previous operations. In addition, about \$95k per year of revenue for certain property at Deep Point that is leased to others and has historically paid to BHIL (and not reflected in the ferry operations results) will be received by BHITA.

There are four staff positions within BHI Limited (on the BHI Limited payroll, not the ferry transportation payroll) that support ferry operations. The costs for these personnel, who will move from BHI Limited to the BHITA, have been accounted for in the analysis, as well as the cost to add a new senior manager in FY 2023 as planned by the BHITA.

Ferry and tram EBITDA is expected to be about \$1.6 million in FY2022, growing to 1.9 million in FY 2025 and \$2.4 million in FY 2030. The reversal of the negative ferry EBITDA in FY 2021 is due primarily to the elimination of the Deep Point lease costs as mentioned above.

Table 15 summarizes Mercator's forecast of earnings and cash flows for the passenger ferry / on-island tram line of business (after 2025, figures are presented in five-year intervals).

Table 15: Financial summary for ferry / on-island tram business

Passenger Ferry/On-Island	UOM	Median	14mo (Feb)	4mo (Jun)											
			CY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2035	FY 2040
Capacity	Passengers		625,000	180,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000
Volume (Total Tickets)	Pass Tickets		323,400	128,300	347,800	356,700	366,500	375,400	383,600	389,100	395,600	404,700	412,200	451,300	494,100
% of Max Capacity	%			71%	65%	67%	69%	70%	72%	73%	74%	76%	77%	84%	92%
Revenue	USD (000s)		5,713	2,383	7,281	7,450	7,644	7,823	7,994	8,663	8,811	9,014	9,692	11,265	13,760
Costs	USD (000s)		6,562	2,312	5,507	5,816	5,988	6,159	6,331	6,493	6,664	6,855	7,041	8,028	9,170
EBITDA	USD (000s)		-849	71	1,774	1,633	1,656	1,664	1,662	2,171	2,147	2,159	2,651	3,237	4,591
EBITDA Margin	% of Rev		-14.9%	3.0%	24.4%	21.9%	21.7%	21.3%	20.8%	25.1%	24.4%	24.0%	27.4%	28.7%	33.4%
Unit Rev	USD/Tkt		17.67	18.57	20.94	20.89	20.86	20.84	20.84	22.27	22.27	22.27	23.51	24.96	27.85
Unit Costs	USD/Tkt		20.29	18.02	15.83	16.31	16.34	16.41	16.50	16.69	16.85	16.94	17.08	17.79	18.56
Unit EBITDA	USD/Tkt		-2.62	0.56	5.10	4.58	4.52	4.43	4.33	5.58	5.43	5.34	6.43	7.17	9.29
YoY Growth Rates															
Volume	%					2.6%	2.7%	2.4%	2.2%	1.4%	1.7%	2.3%	1.9%	1.9%	1.9%
Revenue	%					2.3%	2.6%	2.4%	2.2%	8.4%	1.7%	2.3%	7.5%	1.9%	7.7%
Costs	%					5.6%	2.9%	2.9%	2.8%	2.6%	2.6%	2.9%	2.7%	2.7%	2.5%
EBITDA	%					-7.9%	1.4%	0.5%	-0.1%	30.6%	-1.1%	0.6%	22.8%	-0.1%	0.3%

5.3 Parking services

Vehicle parking demand is derivative of passenger ferry traffic; thus, Mercator's growth rates for the passenger ferry business are utilized to grow vehicle parking days. Although paid vehicle parking days per ferry has been rising over the last decade, we conservatively assume a steady 1.26 parking days per ferry ticket based on the average of the four years through 2019.²⁷

To accommodate future parking demand, additional capacity will be required. Mercator has assumed parking development within Areas 1, 7, 9 and 14, which are located on land to be sold to the new transportation entity. Mercator has further assumed the acquisition when needed of Areas 2 and 3 and their development (as needed) into parking lots. A 30-year purchase option has been negotiated between the Authority and BHIL for 2.2 acres (Area 2) with predetermined cost escalations that are below our expectations for inflation. This land purchase cost has been included in the capital expenditure model. Development of Area 3 is not expected to be required until near the end of the 30 year forecast period, and cost for this is based on the Area 2 cost, but with full inflation assumed.

Parking rates have seen limited increases since 2006 – a \$1/day increase in 2011 and another \$1/day increase in mid-2019, each applicable to the daily lots, which comprise about 70 percent of parking revenue. Mercator has assumed a 21% increase of parking rates at the start of FY 2022, and has assumed ticket prices would subsequently stay flat until 2027, and then grow at the rate of inflation thereafter. The assumed growth in parking rates between 2019 and 2030 (the CAGR in parking rates) is 2.3%. The combination of volume growth and price increases results in parking revenue growth from about \$2.76 million in 2019 to about \$3.8 million in 2025 and \$4.4million in 2030.

As with the other lines of business, costs are modeled in three subcategories, *Cost of Sales*, *Salaries & Wages*, and *Operating Expenses*. *Cost of Sales* is treated as volume variable. In the case of parking, *Salaries and Wages* are assumed to be largely fixed (unless capacity utilization were to reach a point

²⁷ Parking demand during 2020 increased, but this increase in demand was not carried forward in our modelling of future years.

requiring additional variable costs such as valet services), and are quite limited in any case. *Operating Expenses* are also assumed to be fixed as well. Variable costs are assumed to grow at the volume growth rate plus 2 percent for assumed cost inflation. Fixed costs are assumed to grow at 2 percent for assumed cost inflation. On this basis, Mercator forecasts costs to grow from about \$600,000 in 2019, to about \$800,000 by 2030, a CAGR of about 2.6 percent.

Combining the revenue and cost forecasts, parking EBITDA is expected to grow from \$2.16 million in 2019 to approximately \$3.1 million in 2025 and \$3.6 million by 2030, a CAGR of 4.8 percent.

Mercator has assumed considerable CapEx for the addition of parking capacity, first to complete a previously planned project by 2022 and subsequently as required based on demand. The first 670 new slots will be developed on land being transferred to the BHITA, with a further 425 slots eventually to be developed on adjacent land that would have to be purchased (the associated land acquisition cost is included where relevant). New parking capacity and CapEx spending is “triggered” in the model when parking volume hits 90 percent of then-current capacity. Other CapEx is forecast based on the average maintenance CapEx per annum based on historical data provided by BHI Limited. Table 16 summarizes Mercator’s forecast of cash flows for the parking line of business (after 2025, figures are presented at five-year intervals).

Table 16: Financial summary for parking business

Parking	UOM	CY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2035	FY 2040	FY 2045	FY 2050
	Median	14mo (Feb)	4mo (Jun)													
Capacity	Vehicle Days	459,000	153,000	499,000	499,000	499,000	499,000	524,000	524,000	524,000	539,000	591,000	617,000	717,000	717,000	717,000
Parking Volume	Vehicle Days	406,557	161,290	437,231	448,420	460,740	471,928	482,237	489,151	497,322	508,762	518,191	567,345	621,150	676,087	676,087
Utilization	%	89%	105%	88%	90%	92%	95%	92%	93%	95%	94%	88%	92%	87%	94%	94%
Revenue	USD (000s)	2,686	1,066	3,498	3,587	3,686	3,775	3,858	4,158	4,227	4,324	4,405	5,390	6,522	7,775	8,451
Costs	USD (000s)	701	210	637	651	666	681	696	711	727	743	759	847	945	1,056	1,165
EBITDA	USD (000s)	1,985	855	2,861	2,936	3,020	3,094	3,162	3,447	3,501	3,582	3,645	4,543	5,577	6,719	7,286
EBITDA Margin	% of Rev	73.9%	80.3%	81.8%	81.8%	81.9%	82.0%	82.0%	82.9%	82.8%	82.8%	82.8%	84.3%	85.5%	86.4%	86.2%
Unit Rev	USD/Veh-Day	6.61	6.61	8.00	8.00	8.00	8.00	8.00	8.50	8.50	8.50	8.50	9.50	10.50	11.50	12.50
Unit Costs	USD/Veh-Day	1.72	1.30	1.46	1.45	1.45	1.44	1.44	1.45	1.46	1.46	1.47	1.49	1.52	1.56	1.72
Unit EBITDA	USD/Veh-Day	4.88	5.30	6.54	6.55	6.55	6.56	6.56	7.05	7.04	7.04	7.03	8.01	8.98	9.94	10.78
YoY Growth Rates																
Parking Volume	%				2.6%	2.7%	2.4%	2.2%	1.4%	1.7%	2.3%	1.9%	1.9%	1.9%	1.2%	0.0%
Revenue	%				2.6%	2.7%	2.4%	2.2%	7.8%	1.7%	2.3%	1.9%	1.9%	1.9%	1.2%	0.0%
Costs	%				2.2%	2.3%	2.2%	2.2%	2.1%	2.2%	2.2%	2.2%	2.2%	2.2%	2.2%	2.0%
EBITDA	%				2.6%	2.9%	2.5%	2.2%	9.0%	1.6%	2.3%	1.8%	1.8%	1.8%	1.1%	-0.3%

5.4 Tug and freight barge services

As discussed above, Mercator forecasts aggregate freight barge volume to decline from the exceptionally high 2019 level of 28,700 tickets²⁸ sold to about 24,300 tickets in FY2022, and then to increase to about 27,100 in FY 2025, 30,600 in FY 2030 and 38,200 tickets in FY 2040, representing a CAGR of 2.5 percent between 2021 and 2040.

Freight barge prices were last increased in mid-2019 (from \$50 to \$55/ticket), and before that had not been increased since 2006. Mercator has assumed freight barge ticket prices would be increased by \$5 (about 9 percent) percent at the start of FY 2022, and then grow at the rate of inflation, with the adjustments implemented every three years. The assumed increases in barge ticket prices from the start of 2019 (prior to the last increase) through 2030 average 2.0%. This results in FY 2022 revenue of \$1.44

²⁸ A “freight barge ticket” is required for each 6 lane-feet of barge space occupied. 2019 freight barge traffic was exceptionally high due to the rebuilding related to recovery from Hurricane Florence.

million (just below the high mark set in 2019), which grows to about \$1.64 million in 2025, \$1.90 million in FY 2030.

As with the other lines of business, costs are broken down and modeled using three subcategories: *Cost of Sales*, *Salaries & Wages*, and *Operating Expenses*. Again, *Cost of Sales* is treated as volume variable (ticket sales). As with ferry business, *Salaries and Wages* are assumed to be variable based on the number of voyages completed. In the later years of the forecast period with higher volume demand, additional voyages will be required, thus driving increases in *Salaries & Wages*. *Operating Expenses*, other than for the variable (voyage-driven) fuel and R&M costs, are generally assumed to be fixed (but growing with inflation).

Variable costs are assumed to grow at the volume (voyage count) growth rate plus 2 percent for assumed cost inflation. Fixed costs are assumed to grow at 2 percent for assumed cost inflation. With fewer voyages than in 2019, Mercator forecasts freight barge costs to first decline from the CY 2019 level of \$455,000 to \$435,000 in FY 2022, and then to increase to about \$600,000 in FY 2030 and \$890,000 in FY 2040, a CAGR of about 4.1 percent. Combining the revenue and cost forecasts, EBITDA is expected to grow from about \$1.0 million in FY 2022, to about \$1.3 million in 2030 and approximately \$2.1 million by 2040.

Future CapEx requirements for the freight barge service are modest, given that the tug was just replaced in 2017, with a service life on the order of 40 years. Mercator has, therefore, assumed that no replacement of the freight barge service tug would be required during the period of the analysis. The existing freight barge (now about 20 years old) is assumed to be replaced in 2030, with a current replacement cost of \$250,000, and the freight barge ramps are assumed to be replaced every 10 years as recommended by Moffat & Nichol. Other barge-related CapEx is based on the average historical CapEx requirements. Table 17 summarizes Mercator's forecast of cash flows for the freight barge operation.

Table 17: Financial summary for tug and freight barge business

Tug&Freight Barge	UOM	CY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2035	FY 2040	FY 2045	FY 2050
		Median	14mo (Feb)	4mo (Jun)												
Voyages Made	R-T Voyages	1,050	300	900	925	955	990	1,015	1,020	1,060	1,095	1,105	1,250	1,395	1,560	1,435
Barge Capacity	Tickets Available	35,910	10,260	30,780	31,635	32,661	33,858	34,713	34,884	36,252	37,449	37,791	42,750	47,709	53,352	49,077
Barge Volume	Tickets Sold	25,200	8,100	23,800	25,300	26,100	27,100	27,800	27,900	29,000	29,900	30,300	34,200	38,200	42,700	39,300
Utilization	%	70%	79%	77%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%
Revenue	USD (000s)	1,395	448	1,437	1,527	1,576	1,636	1,678	1,754	1,823	1,880	1,905	2,408	2,978	3,650	3,755
Costs	USD (000s)	486	142	435	454	475	499	519	531	559	585	601	735	889	1,079	1,110
EBITDA	USD (000s)	909	306	1,001	1,073	1,100	1,137	1,159	1,223	1,264	1,294	1,303	1,673	2,089	2,571	2,645
EBITDA Margin	% of Rev	65%	68%	70%	70%	70%	70%	69%	70%	69%	69%	68%	69%	70%	70%	70%
Unit Rev/Ticket	USD / ticket	55	55	60	60	60	60	60	63	63	63	63	70	78	85	96
Unit Cost/Ticket	USD / ticket	19	18	18	18	18	18	19	19	19	20	20	21	23	25	28
Unit EBITDA/Ticket	USD / ticket	36	38	42	42	42	42	42	44	44	43	43	49	55	60	67
YoY Growth Rates																
Volume	%				6.3%	3.2%	3.8%	2.6%	0.4%	3.9%	3.1%	1.3%	2.4%	1.9%	2.2%	-15.1%
Revenue	%				6.3%	3.2%	3.8%	2.6%	4.5%	3.9%	3.1%	1.3%	2.4%	1.9%	2.2%	-15.1%
Costs	%				4.4%	4.6%	4.9%	4.0%	2.4%	5.2%	4.7%	2.8%	4.1%	3.6%	3.7%	-11.3%
EBITDA	%				7.1%	2.6%	3.3%	1.9%	5.5%	3.4%	2.4%	0.7%	1.7%	1.2%	1.5%	-16.6%

5.5 Aggregation of BHITA activities

On an aggregated basis, Mercator expects Authority revenue to grow to about \$13.2 million by 2025, \$16.0 million in 2030 and \$23.1 million by 2040. Simultaneously, Mercator forecasts costs to grow from about \$6.6 million in 2022, to about \$10.75 million by 2040. Combining the revenue and cost forecasts, EBITDA is expected to grow from \$5.6 million in 2022 to about \$7.0 million in 2030 approximately \$12.3 million by 2040, a CAGR of about 4.5 percent. Table 18 summarizes Mercator's cash flow forecast for the consolidated BHITA activities (as above, after 2030, the annual figures are presented at five-year intervals).

Bald Head Island Transportation Authority
Bond Feasibility Study

Table 18: Financial summary on a consolidated basis – Median Growth Case

		14 mo to Jan CY 2020	4 mo to Jun CY 2021	Fiscal Years Ending June 30:												
Consolidated BHITA		UOM		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2035	FY 2040	FY 2045	FY 2050
Ferry Tickets	Passengers	323,400	128,300	347,800	356,700	366,500	375,400	383,600	389,100	395,600	404,700	412,200	451,300	494,100	537,800	537,800
Barge Traffic	Barge Tickets	25,200	8,100	23,800	25,300	26,100	27,100	27,800	27,900	29,000	29,900	30,300	34,200	38,200	42,700	39,300
Parking Volume	Vehicle Days	406,557	161,290	437,231	448,420	460,740	471,928	482,237	489,151	497,322	508,762	518,191	567,345	621,150	676,087	676,087
Ferry Capacity	R-T Passengers	625,000	180,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000
Revenue- Ferry, Barge, Pa	USD (000s)	9,795	3,897	12,216	12,564	12,905	13,235	13,530	14,575	14,861	15,218	16,002	19,063	23,260	28,326	30,192
Costs	USD (000s)	7,749	2,664	6,579	6,922	7,129	7,339	7,546	7,735	7,950	8,183	8,402	9,609	11,004	12,604	13,832
EBITDA - BHITA	USD (000s)	2,046	1,233	5,637	5,642	5,776	5,895	5,983	6,840	6,912	7,035	7,600	9,453	12,256	15,722	16,360
EBITDA Margin	% of Rev	20.9%	31.6%	46.1%	44.9%	44.8%	44.5%	44.2%	46.9%	46.5%	46.2%	47.5%	49.6%	52.7%	55.5%	54.2%
Unit Rev	USD/Ferry Tkt	30.29	30.38	35.12	35.22	35.21	35.25	35.27	37.46	37.57	37.60	38.82	42.24	47.07	52.67	56.14
Unit Costs	USD/Ferry Tkt	23.96	20.77	18.92	19.41	19.45	19.55	19.67	19.88	20.10	20.22	20.38	21.29	22.27	23.44	25.72
Unit EBITDA	USD/Ferry Tkt	6.33	9.61	16.21	15.82	15.76	15.70	15.60	17.58	17.47	17.38	18.44	20.95	24.80	29.23	30.42
YoY Growth Rates																
BHITA Revenue	%				2.9%	2.7%	2.6%	2.2%	7.7%	2.0%	2.4%	5.1%	1.9%	1.9%	5.1%	-2.1%
BHITA Costs	%				5.2%	3.0%	2.9%	2.8%	2.5%	2.8%	2.9%	2.7%	2.7%	2.8%	2.6%	0.8%
BHITA EBITDA	%				0.1%	2.4%	2.1%	1.5%	14.3%	1.1%	1.8%	8.0%	1.1%	1.1%	7.3%	-4.4%
Cash Flow Summary - BHITA Overall																
EBITDA (Cash Flow from C	USD (000s)	2,046	1,233	5,637	5,642	5,776	5,895	5,983	6,840	6,912	7,035	7,600	9,453	12,256	15,722	16,360
Less CapEx - for Vsl Replc	USD (000s)	-	-	-	(2,435)	(2,153)	-	-	-	-	-	-	-	-	-	-
Less CapEx - other than Vsl Replcmnt		(188)	(1,088)	(384)	(665)	(593)	(1,112)	(1,294)	(1,220)	(1,568)	(1,492)	(790)	(2,280)	(1,038)	(806)	
Cash Flow - Net of CapEx	USD (000s)		1,045	4,549	2,823	2,958	5,302	4,871	5,546	5,691	5,468	6,107	8,663	9,976	14,684	15,554
Capex By Line of Business																
Ferry&Tram			132	569	2,645	2,640	412	407	1,105	1,028	998	441	7,273	1,932	2,745	9,268
Parking			47	492	147	150	153	356	159	163	360	715	1,188	3,464	1,094	1,208
Tug&Freight Barge			9	27	27	28	28	349	29	30	210	336	165	572	201	697
Total CapEx			188	1,088	2,819	2,818	593	1,112	1,294	1,220	1,568	1,492	8,626	5,968	4,040	11,173

5.5 Alternate growth scenarios and housing construction stress cases

Model outputs for each of the 5 scenarios analyzed are provided in the appendix. The table below provides a summary of the BHITA EBITDA that is forecast for each scenario.

Figure 23 - Recap and comparison of EBITDA forecasts under each growth scenario

EBITDA Forecasts - Recap and Comparison of Scenarios	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2035	FY 2040	FY 2045	FY 2050
	4mo to Jun													
Median Scenario	1,233	5,637	5,642	5,776	5,895	5,983	6,840	6,912	7,035	7,600	9,453	12,256	15,722	16,360
Low Scenario	1,233	4,993	4,510	4,560	4,553	4,524	5,164	5,099	5,086	5,421	6,257	7,712	9,399	10,680
High Scenario	1,233	5,881	6,019	6,242	6,400	6,567	7,579	7,704	7,905	8,579	11,096	14,159	15,601	16,425
Median with Housing Recession	1,233	5,032	4,397	4,283	4,224	4,839	6,013	6,048	6,167	6,675	8,401	11,007	14,288	16,492
Low with Housing Recession	1,233	4,993	4,365	4,270	4,202	4,258	4,938	4,869	4,866	5,196	6,007	7,429	9,082	10,179
EBITDA CHANGE vs Median Scenario														
Low Scenario	0	-643	-1,132	-1,216	-1,343	-1,459	-1,676	-1,813	-1,950	-2,179	-3,196	-4,544	-6,323	-5,679
High Scenario	0	244	377	467	505	584	739	792	870	979	1,642	1,904	-122	65
Median with Housing Recession	0	-604	-1,245	-1,492	-1,671	-1,145	-827	-863	-868	-924	-1,053	-1,249	-1,434	132
Low with Housing Recession	0	-643	-1,277	-1,505	-1,694	-1,725	-1,901	-2,042	-2,170	-2,404	-3,447	-4,827	-6,640	-6,181

A few comments on these results:

The “Median Growth” scenario produces a little more than \$5 million EBITDA per year, starting in FY 2022, and reaching more than \$7 million by 2030.

The “High Growth” scenario produces about \$300-500k of additional EBITDA (compared to the Median scenario) during each of the first five years, with the gap increasing to more than \$1 million per year of additional EBITDA after 2030.

The “Low Growth” scenario EBITDA shortfall versus the Median case increases from about \$550k in FY 2022 to about \$2 million per year by 2030, but Low Growth EBITDA is in each year at least \$4.5 million.

The “Median with Housing Recession” scenario initially produces somewhat lower EBITDA than the “Low Growth” scenario, but then moves higher due to a return to normal housing construction .

The “Low Growth with a Housing Recession” scenario is not significantly lower than the low growth case without a recession, given that the low growth case itself already includes very modest rates of new home construction.

6. Conclusions

Between 2021 and 2025, and with the exception of the year in which a new ferry is being purchased, the BHITA operation is expected to have cash flows available for debt service that exceed \$5 million, increasing due to volume growth and rate adjustments to exceed \$7 million by 2030.

In the Mercator low growth scenario, EBITDA grows more slowly, and by 2025 is about \$1.3 million less than in the Median scenario, but in each full year would exceed \$4.5 million. In each of the “housing recession” scenarios, slower development reduces near-term EBITDA to about \$4.2 million at the low point in 2024. With Median growth after the downturn, EBITDA rises to \$6 million by 2028, while in the low growth scenario, the \$6 million EBITDA level is reached in 2033.

The system as conceived, equipped and operated should have adequate capacity to meet the traffic demand for approximately the next 25 years, at which point in time the cash flows would exceed \$15 million per year.

Our inspections in 2017, and more recent inspections by Ausenco, Moffat & Nichol and KOPCO indicate that the ferry, freight barge and parking assets are in good condition, reflective of good maintenance and operating practices.

The Marine Maintenance department is competent and efficiently carries out the M&R to run the ferry, tug and freight barge operations safely and on schedule. *Adventure* is in good condition and likely has another 13 to 17 years of remaining service life. Both *Patriot* and *Ranger* are fairly new with very long remaining service lives that extend to the very end of or beyond our 30 year analysis period. Although *Sans Souci*, the oldest vessel in the fleet, is showing signs of age, the vessel remains a favorite of the fleet operators and with continued proper M&R and dry-docking cycles has an estimated three to five years, or more, of remaining life. Although we have assumed capital costs will be incurred for replacement in 2023, it is possible that the planned replacement in 2023 could in fact be postponed.

Parking at Deep Point Marina Terminal need not be a constraint for growth of the system. The Utilization rates are generally less than 40 percent throughout the year, except for the General parking lot during the peak of the season. The current 1,955 parking stalls and additional “informal” spots provide enough capacity to support annual parking volume of about 460,000 vehicle-days. If all land areas that are to be included in the transaction are developed, the number of parking stalls could be increased from 1,955 to 2,625, a 32 percent increase in stall count and capacity from current levels. Moreover, additional land could be acquired along the south/west boundary of the site, providing a further 16 percent increase in

parking, for a total of 3,050 stalls, which would meet the capacity requirement that is foreseen through the end of our 30-year analysis period.

The assessment of the tug and freight barge operation revealed no major physical deficiencies, deferred M&R, or immediate short-term needs for repair or upgrade. The *Brandon Randall* freight barge has 10 or more years of service life remaining. The cross-dock facility (which will be leased to a 3rd party operator or cooperative) is in good condition with remaining service life in excess of 30 years. There is substantial capacity available to satisfy growth in freight traffic. Increasing tug and freight barge sailing frequency during peak season can provide at least 10 additional sailings per week, a 50 percent increase in peak capacity. Subject to agreement with the Village of Bald Head Island, sailings could also be added on Saturdays if needed.

Overall, the ferry and on-island tram, parking, and tug and freight barge assets to be acquired by BHITA are in good condition, and with continued good management, maintenance and capital additions as outlined in this report, can be expected to satisfy the expected demand growth over the 30 year analysis period.

It is reasonable to expect that Bald Head Island will continue to be attractive to residents, day visitors and vacationers, which will continue to spur economic activity and property development. The demonstrated attractiveness of the island and the renewed focus on vacations spent close to home should ensure the continued growth in demand for the ferry and freight barge transportation and related parking services that are to be provided by the BHITA.

Appendix A

Climate change, sea-level rise and severe weather

Impacts on BHI development and the future operation of BHITA

Being a coastal community, some thought and analysis should be given to potential impacts on new home construction and development on Bald Head Island of climate change on rising sea levels and hurricane frequency and intensity. The North Carolina Coastal Resources Commission Science Panel prepared a report in 2015 that assesses and projects the local sea level impacts of increases in the global sea level under three scenarios. First, they evaluate the historical trend in sea level increases at five stations along the North Carolina coast, and extrapolate forward to create a projection that basically assumes that the historical trend simply carries forward through the 30-year forecast period. The second and third scenarios are built on the climate modeling work of the Intergovernmental Panel on Climate Change (IPCC), which projects the extent that global sea level will rise under a variety of carbon emissions scenarios.

For a variety of geological and hydrological reasons, relative sea level increases are expected to vary across the North Carolina coast, and these local characteristics are used to adjust each of the three sea level scenarios described above. In all cases, the lowest sea level increases are expected to be experienced in the geologic region called the Carolina Platform, because unlike other regions to the North that are experiencing subsidence, the Carolina Platform is experiencing some geographic uplift that will partially counteract the rising sea levels. Both the Wilmington weather station and the Southport weather station, which is located about one mile southwest from the Deep Point Marina, are part of the Carolina Platform, and these two stations are forecasted to experience the lowest rates of sea level rise under all three scenarios.

As can be seen in the graphic below, which was taken from the *North Carolina Sea Level Rise Assessment Report (2015)*, the mean projected relative sea level rise between 2015 and 2045 would be just 2.4 inches at the stations closest to Bald Head Island if historic trends persist into the future. Under the IPCC's low carbon emissions scenario (RCP 2.6) the expected rise would be 5.9 inches, and under the IPCC's high carbon emissions scenario, the expected rise in the relative sea level would be 6.9 inches. Increases of this magnitude alone are not sufficient to cause any flooding, but it is theoretically possible that a hurricane-induced tidal surge could be magnified enough by higher sea levels to cause additional damage.

Table 19: Three Projections of Sea Level Rise (source: North Carolina Sea Level Rise Assessment Report)

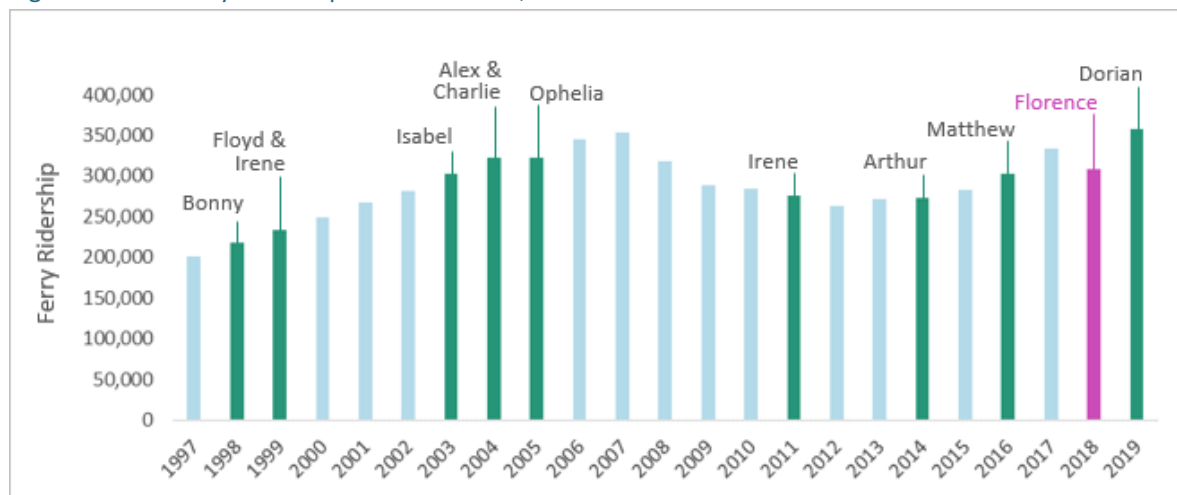
Table ES1. Three relative sea level rise (RSLR) scenarios by 2045 using published tide gauge rates (NOAA 2014a), and IPCC scenario projections RCP 2.6 and RCP 8.5 (Church et al. 2013) representing the lowest and highest greenhouse gas emission scenarios, combined with local vertical land movement (VLM) at each tide gauge.*

Station	Tide Gauge Projections		IPCC RCP 2.6 + VLM		IPCC RCP 8.5 + VLM	
	RSLR in 30 years (inches)		RSLR in 30 years (inches)		RSLR in 30 years (inches)	
	Mean	Range	Mean	Range	Mean	Range
Duck	5.4	4.4-6.4	7.1	4.8-9.4	8.1	5.5-10.6
Oregon Inlet	4.3	2.7-5.9	6.3	3.9-8.7	7.3	4.7-9.9
Beaufort	3.2	2.8-3.6	6.5	4.2-8.7	7.5	5.0-10.0
Wilmington	2.4	2.0-2.8	5.8	3.5-8.0	6.8	4.3-9.3
Southport	2.4	1.9-2.8	5.9	3.7-8.2	6.9	4.4-9.4

*Note: Projections were rounded to the nearest tenth of an inch.

Since 1997, a dozen hurricanes have landed on the North Carolina coast. The chart below demonstrates that with the clear exception of Hurricane Florence (2018) and the possible exception of Hurricane Ophelia (2005) which dumped 17.5 inches of rain on neighboring Oak Island, hurricanes have not had an impact on long-term trends in ferry ridership. Hurricane Florence caused the Cape Fear River to crest at 61.4 feet (35 feet above flood stage) in Fayetteville, NC (100 miles inland) and caused a storm surge that flooded much of Bald Head Island and caused significant beach erosion, which has subsequently been replenished using FEMA and state funds. Even with the extensive impacts from Hurricane Florence, ferry traffic quickly rebounded and there was no concomitant dip in new building permits in the following year (2019).

Figure 24: BHI Ferry Ridership and Hurricanes, 1997-2019



There is, of course, a possibility that another hurricane of a greater magnitude than Hurricane Florence could have a more lasting impact on ferry traffic, and potentially bring down the long-term growth in home construction, but a sea level rise measured in inches will not have much impact on storm surges and river flooding that is measured in dozens of feet.

Regarding the frequency and intensity of Atlantic hurricanes, the National Oceanic and Atmospheric Administration's (NOAA) research concludes that "the historical Atlantic hurricane frequency record does not provide compelling evidence for a substantial greenhouse warming-induced long-term increase [in Atlantic hurricane frequency]," and they also project "that the lifetime maximum intensity of Atlantic hurricanes will increase by about 5% during the 21st century."²⁹

Mercator understands that the BHIL facility at Deep Point is used by government agencies such as the USCG as a secure command and control center during severe weather emergencies on the Cape Fear River due to its ability to continue operating under severe conditions. This reliance upon the facility during severe weather suggests that the infrastructure is well positioned to withstand changes in the environment described above.

Mercator concludes that the historical data show ferry ridership and new home construction demonstrate a great resilience to hurricanes. NOAA's research indicates that it is unlikely that climate change will cause the frequency of hurricanes to increase, and the intensity is expected to increase only slightly. For these reasons, climate change and rising sea levels are not expected to have a meaningful impact on long-term growth rates in new home construction, nor will they have a lasting impact on ferry ridership and barge demand, or the operation of the ferry and barge systems of BHITA,

²⁹ Source: <https://www.gfdl.noaa.gov/global-warming-and-hurricanes/> (extracted on 7/24/2020)



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Exhibit JAW-10

Responses to Village First Data Requests to Limited and BHIT

**STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH**

Docket No. A-41, Sub 21

VILLAGE OF BALD HEAD ISLAND,)	
Complainant,)	
)	
v.)	RESPONSES TO
)	COMPLAINANT'S FIRST
BALD HEAD ISLAND)	DATA REQUESTS
TRANSPORTATION, INC. and BALD)	
HEAD ISLAND LIMITED, LLC,)	
Respondents.)	

Bald Head Island Transportation, Inc. (“BHIT”) and Bald Head Island Limited, LLC (“BHIL”) (collectively, “Respondents”), by and through legal counsel, hereby respond to Complainant’s First Data Requests as follows:

General Statement

In responding to these requests, Respondents have made reasonable efforts to research documents and data regarding the subject matter of the proceeding. These responses are based upon information presently available to Respondents and their attorneys, and specifically known to the individuals who are preparing these responses. It is possible that future discovery and independent investigation may supply additional facts or information, add meaning to known facts, and may establish entirely new factual conclusions and contentions, all of which may lead to substantial additions to, changes in, and variations from the responses set forth herein.

These responses are made without prejudice to Respondents’ rights to provide additional evidence at the time of any proceeding before the Commission. Respondents

reserve the right to supplement or correct these responses. Respondents also reserve the right to object to future discovery on the same or related matters and do not waive any objection by providing the information in these responses. Finally, Respondents reserve the right to object to the admissibility of any of these responses, in whole or in part, at any further proceeding of this matter, on any grounds, including but not limited to timeliness, materiality, relevance, and privilege.

Objections

1. Respondents object to the Data Requests to the extent they are vague, ambiguous, and/or incapable of reasonable ascertainment.
2. Respondents object to the Data Requests to the extent they seek information, documents and/or things protected from disclosure by the attorney-client privilege, the work-product doctrine, consulting expert privilege, and/or the common-interest privilege. Inadvertent disclosure of any such information, documents and/or things shall not operate as a waiver of any applicable privilege or immunity.
3. Respondents object to the Data Requests to the extent they seek discovery of documents available by means that are less burdensome, less expensive, or more appropriate.

DATA REQUESTS**General Requests**

1. **Provide copies of all data requests served on BHIT and Limited by any party or intervenor in Docket No. A-41, Sub 21, including, but not limited to, any requests served by the Public Staff – North Carolina Utilities Commission, together with all responses to the same.**

RESPONSE: Without waiving any of their objections, Respondents state that they have received no data requests in this action other than those served by Complainant.

5. **Provide any financial analyses or presentations you possess—whether generated by Limited, SharpVue Capital, LLC, the Bald Head Island Transportation Authority (“BHITA”), or any other entity—concerning the anticipated value of or future cash flow from the Deep Point parking lot or the barge.**

RESPONSE: Respondents object to this request as not reasonably calculated to lead to the discovery of admissible evidence in this docket. The proceeding as framed by Complainant’s Complaint asks for the Commission’s focus on “the regulatory nature of the parking and barge assets” and whether the barge operations should be regulated as a “common carrier.” The forward-looking financial analyses requested do not bear on the Commission’s consideration of the issues raised in the docket. Respondents further object that the capacity of these non-regulated activities to generate future revenue is not related to whether the Commission should expand its jurisdiction to regulate their operations.

Without waiving any of their objections, Respondents state that information responsive to this request is contained in (i) the reports prepared by Mercator International LLC, an international transportation consultant retained by BHIL, and separately by BHITA, in support of due diligence efforts, (ii) ratings information

developed by Standard & Poors that was included in the BHITA's financial projections, (iii) Bald Head Island Transportation Authority ("BHITA") Credit Presentation and Public Hearing materials, (iv) an initial valuation and investment analysis prepared by SharpVue Capital, LLC, and (v) solicitation materials related to BHIL's potential sale of assets. The Mercator reports are produced contemporaneously to these responses and bear Bates Nos. BHIL/IT 000390 – BHIL/IT 000531. Within that range, the document identified by Bates Nos. BHIL/IT 000390 - BHIL/IT 000466 is designated as CONFIDENTIAL under the parties' Confidentiality Agreement. The S&P's ratings summaries are produced contemporaneously to these responses and bear Bates Nos. BHIL/IT 000532 – BHIL/IT 000543. The BHITA credit presentation and hearing materials are produced contemporaneously to these responses and bear Bates Nos. BHIL/IT 000544 – BHIL/IT 000641. The SharpVue valuation and analysis materials are produced contemporaneously to these responses, bear Bates Nos. BHIL/IT 000799 – BHIL/IT 000836, and are designated as CONFIDENTIAL-ATTORNEYS' EYES ONLY under the parties' Confidentiality Agreement. The solicitation materials are produced contemporaneously to these responses, bear Bates Nos. BHIL/IT 000723 – BHIL/IT 000798, and are designated as CONFIDENTIAL-ATTORNEYS' EYES ONLY under the parties' Confidentiality Agreement.

6. **Provide any agreements between Limited and BHIT related to the Deep Point parking lot or the barge, including any management agreements or employee lease agreements.**

RESPONSE: Without waiving any of their objections, Respondents state that there are no such agreements.

7. **Provide monthly ferry ridership totals from 2012 to present.**

RESPONSE: Respondents object to this request as not reasonably calculated to lead to the discovery of admissible evidence in this docket. The proceeding as framed by Complainant's Complaint asks for the Commission's focus on "the regulatory nature of the parking and barge assets" and whether the barge operations should be regulated as a "common carrier." The statistical information requested regarding ferry operations does not bear on the Commission's consideration of the issues raised in the docket. Without waiving any of their objections, Respondents state that information responsive to this request is prepared and made public in the regular course of BHIT's conduct of its regulated activities. Pursuant to Commission order, BHIT files quarterly financial reports that contain extensive financial data that includes ridership information. Those public filings are maintained on the Commission's website, have previously been produced to Complainant, and bear the Bates Nos. BHIL/IT 000001 – BHIL/IT 000321.

8. As of today, how may lots on Bald Head Island remained undeveloped?

RESPONSE: Without waiving any of their objections, Respondents state upon information and belief that there are approximately 450 undeveloped residential lots on the island. Moreover, there are approximately 10,000 acres of beaches, salt marsh, and maritime forest on the island that will remain undeveloped in perpetuity.

9. Provide a forecast of future passenger growth for the ferry. Include a description/analysis of the anticipated causes for the future passenger growth.

RESPONSE: Respondents object to this request as not reasonably calculated to lead to the discovery of admissible evidence in this docket. The proceeding as framed by Complainant's Complaint asks for the Commission's focus on "the regulatory nature of the parking and barge assets" and whether the barge operations should be regulated as a

“common carrier.” The statistical information requested regarding ferry operations does not bear on the Commission’s consideration of the issues raised in the docket. Without waiving any of their objections, Respondents state that information responsive to this request is contained in (i) the reports prepared by Mercator International LLC, an international transportation consultant retained by BHIL, and separately by BHITA, in support of due diligence efforts, (ii) ratings information developed by Standard & Poors that was included in the BHITA’s financial projections, (iii) BHITA Credit Presentation and Public Hearing materials, (iv) an initial valuation and investment analysis prepared by SharpVue Capital, LLC, and (v) solicitation materials related to BHIL’s potential sale of assets. The Mercator reports are produced contemporaneously to these responses and bear Bates Nos. BHIL/IT 000390 – BHIL/IT 000531. Within that range, the document identified by Bates Nos. BHIL/IT 000390 - BHIL/IT 000466 is designated as CONFIDENTIAL under the parties’ Confidentiality Agreement. The S&P’s ratings summaries are produced contemporaneously to these responses and bear Bates Nos. BHIL/IT 000532 – BHIL/IT 000543. The BHITA credit presentation and hearing materials are produced contemporaneously to these responses and bear Bates Nos. BHIL/IT 000544 – BHIL/IT 000641. The SharpVue valuation and analysis materials are produced contemporaneously to these responses, bear Bates Nos. BHIL/IT 000799 – BHIL/IT 000836, and are designated as CONFIDENTIAL-ATTORNEYS’ EYES ONLY under the parties’ Confidentiality Agreement. The solicitation materials are produced contemporaneously to these responses, bear Bates Nos. BHIL/IT 000723 – BHIL/IT 000798, and are designated as CONFIDENTIAL-ATTORNEYS’ EYES ONLY under the parties’ Confidentiality Agreement.

- 10. Provide any complaints received in the last five years by ferry passengers or the public regarding the rates charged or service provided by Limited for the Deep Point parking lot or the barge.**

RESPONSE: Without waiving any of their objections, Respondents state that they are conducting a full search of relevant files to identify complaints lodged by ferry passengers or members of the public regarding the rates charged or service provided by the Deep Point parking facility or the barge. Such complaints, if any, are addressed individually but not stored in a single location; thus, departmental searches within BHIT and BHIL are necessary to identify responsive information or documents. Respondents hope to conclude that investigation by July 14 and will promptly produce relevant documents identified.

Requests Related to the Deep Point Parking Lot

- 11. Provide any financial statements regarding the Deep Point parking lot from 2012 to present.**

RESPONSE: Respondents object to the request as overly broad and not reasonably calculated to lead to the discovery of admissible evidence because the historical, financial performance of BHIL's mainland parking facility in Southport, North Carolina is unrelated to whether or not the Commission should extend its regulatory jurisdiction to regulate this business activity. Without waiver of any of their objections, Respondents previously have produced the year-end, audited Statements of Revenues and Direct Expenses for BHIL's Parking Department for the years 2014 to 2021. Those documents bear the Bates Nos. BHIL/IT 000322 - 000356 and are designated as CONFIDENTIAL under the parties' Confidentiality Agreement. Moreover, concurrently with these written responses, Respondents are producing additional income statements related to the Parking Department for the years 2013 through 2021. Those documents bear the Bates

Nos. BHIL/IT 000642 – BHIL/IT 000675 and are designated as CONFIDENTIAL under the parties' Confidentiality Agreement.

12. Regarding the Deep Point parking lot, please provide:

- a. The number of parking spaces in the lot, along with any descriptions of different classes of spaces (and the associated number of spaces per classification).**
- b. The pricing structure for the various parking space classifications from 2012 to present, including any discounts provided to any customers.**
- c. Annual parking revenues by classification and operating expense by department from 2012 to present.**
- d. Detailed information as to the cost basis in land used for the Deep Point parking lot, including original purchase cost information, subsequent sale transactions and net unrecovered cost basis in the said land.**
- e. A detailed list of improvements to the land used for the Deep Point parking lot, including description of asset, depreciable life, method of depreciation, most recent book asset value (net of depreciation).**
- f. Anticipated future capital expenditures (e.g., upgrades or expansions) planned for the parking lot.**
- g. The number of parking spaces that Limited can add to the parking lot based on the current real estate owned by Limited.**
- h. Any form agreements/contracts with customers for use or reservation of the parking spaces at the Deep Point parking lot.**

RESPONSE: Respondents object to the request as overly broad and not reasonably calculated to lead to the discovery of admissible evidence because the historical, financial performance of BHIL's mainland parking facility in Southport, North Carolina is unrelated to whether or not the Commission should extend its regulatory jurisdiction to regulate this business activity. Without waiving any of their objections, Respondents respond as follows:

a. Respondents state that information responsive to this request is contained in concurrently produced documents bearing Bates Nos. BHIL/IT 000720 and designated as CONFIDENTIAL under the parties' Confidentiality Agreement.

b. Respondents state that information responsive to this request is contained in concurrently produced documents bearing Bates Nos. BHIL/IT 000676 and BHIL/IT 000719, each designated as CONFIDENTIAL under the parties' Confidentiality Agreement.

c. Respondents state that information responsive to this request is contained in concurrently produced documents bearing Bates Nos. BHIL/IT 000642 – BHIL/IT 000675 and designated as CONFIDENTIAL under the parties' Confidentiality Agreement.

d. Respondents state that information responsive to this request is contained in concurrently produced documents bearing Bates Nos. BHIL/IT 000684 and designated as CONFIDENTIAL under the parties' Confidentiality Agreement.

e. Respondents state that information responsive to this request is contained in concurrently produced documents bearing Bates Nos. BHIL/IT 000682 – BHIL/IT 000683 and designated as CONFIDENTIAL under the parties' Confidentiality Agreement.

f. Without waiving any of their objections, Respondents state that information responsive to this request is contained in the reports prepared by Mercator International LLC, an international transportation consultant retained by BHIL, and separately by BHITA, in support of due diligence efforts. The Mercator reports are produced contemporaneously to these responses and bear Bates Nos. BHIL/IT 000390 – BHIL/IT 000531. Within that range, the document identified by Bates Nos. BHIL/IT 000390 - BHIL/IT 000466 is designated as CONFIDENTIAL under the parties' Confidentiality Agreement.

g. Without waiving any of their objections, Respondents state that information responsive to this request is contained in the reports prepared by Mercator International LLC, an international transportation consultant retained by BHIL, and separately by BHITA, in support of due diligence efforts. The Mercator reports are produced contemporaneously to these responses and bear Bates Nos. BHIL/IT 000390 – BHIL/IT 000531. Within that range, the document identified by Bates Nos. BHIL/IT 000390 - BHIL/IT 000466 is designated as CONFIDENTIAL under the parties' Confidentiality Agreement.

h. Respondents state that information responsive to this request is contained in concurrently produced documents bearing Bates Nos. BHIL/IT 000676 and BHIL/IT 000721 – BHIL/IT 000722.

13. **Identify the employees at Limited and BHIT who are responsible for managing the parking operations at the Deep Point parking lot and provide (a) a description of the employee's responsibilities related to the parking lot and (b) whether the employee is employed by Limited or BHIT.**

RESPONSE: Without waiving any of their objections, Respondents state that the following BHIL officers and employees have management responsibility over the Deep Point parking lot: Chad Paul, chief executive officer; Diane Raker, parking supervisor; Cheryl Napier, support services supervisor; and Dann DeVries, data base administrator. Respondents further state that Bion Stewart, BHIT's chief operating officer, and Charlie Wilson, BHIT's assistant transportation manager, have management responsibilities related to the intersection of BHIT's regulated transportation assets with Deep Point parking to ensure they function cooperatively to provide seamless experiences for users.

14. Identify any nearby property that Limited has identified as being suitable for expanding the existing Deep Point parking lot or building an alternative parking lot. Provide any communications or analysis related to the assessment of such property.

RESPONSE: Without waiving any of their objections, Respondents state that BHIL has not engaged in an analysis to identify parcels suitable for expansion of the existing Deep Point parking facility in Southport or that might be used by another party to construct and operate "an alternative parking lot." Respondents further state that Exhibit 1 to Complainants' Complaint, labeled "Deep Point Ferry Terminal & Parking Lot Satellite Images," provides information about nearby properties that a competing parking operator might well investigate as potential parking facility sites. Moreover, as in the manner of parking operations that exist around airports across the country and run shuttle services that compete with parking lots on or adjacent to airport properties, similar steps could be taken in Southport to establish parking operations to compete with BHIL's Deep Point facility. Respondents note that an undeveloped 106-acre parcel at the corner of Moore St. and Ferry Road, approximately 90 feet from the entrance to the Deep Point parking facility, has recently gone under contract but has been available for purchase for many

years, and could have been employed for such a purpose if a competing provider of parking wished to enter the market. Indeed, the MLS listing (concurrently produced as BHIL/IT 000679-681) for that parcel describes that it “leads to the Bald Head Island Ferry and the Fort Fisher Ferry [and] gives this land the undivided attention of visitors coming and going to Historic Southport.”

- 15. Identity and describe any alternative options a ferry passenger has to parking in the Deep Point parking lot including any analysis, whether formal or informal, of such alternative options. If there are any alternatives, provide any known instance in which a ferry passenger has exercised this alternative.**

RESPONSE: Without waiving any of their objections, Respondents state that BHIL has not engaged in an analysis to identify “alternative” parking options to its Deep Point facility. Respondents further state that BHIL still controls four parking lots that are a part of the Indigo Plantation development from which the ferry previously operated, that are approximately four miles west of the the Deep Point facility and that could be used for additional parking via shuttle if the need arose.

- 16. Provide any analysis, whether formal or informal, of the utilization/vacancy rates of the parking spaces in the Deep Point parking lot.**

RESPONSE: Without waiving any of their objections, Respondents state that information responsive to this request is contained in the reports prepared by Mercator International LLC, an international transportation consultant that prepared reports for BHIL and BHITA related to due diligence efforts. The Mercator reports are produced contemporaneously to these responses and bear Bates Nos. BHIL/IT 000390 – BHIL/IT 000531. Within that range, the document identified by Bates Nos. BHIL/IT 000390 -

BHIL/IT 000466 is designated as CONFIDENTIAL under the parties' Confidentiality Agreement.

Requests Related to the Barge

17. Regarding the barge, please provide:
- a. A description of the capacity/space available on the barge.
 - b. A description of the reservation process for securing space on the barge.
 - c. The rates associated with the barge.
 - d. Any marketing materials (whether online or printed) regarding the barge.
 - e. Any logs showing persons/entities using barge, purpose of use, type of vehicle, and/or items conveyed.
 - f. Anticipated future capital expenditures (e.g., upgrades) planned for the barge and associated tugboat.

RESPONSE: Respondents object to the request as overly broad and not reasonably calculated to lead to the discovery of admissible evidence because the historical, financial performance of BHIL's barge and tug system is unrelated to whether or not the Commission should extend its regulatory jurisdiction to regulate this business activity. Without waiving any of their objections, Respondents respond as follows:

- a. Respondents state that information responsive to this request is contained in concurrently produced documents bearing Bates Nos. Bates No. BHIL/IT 000677 and BHIL/IT 000970, each designated as CONFIDENTIAL under the parties' Confidentiality Agreement.
- b. Respondents state that information responsive to this request can be found at <https://bhibarge.com/reservations>.

c. Respondents state that information responsive to this request can be found at <https://bhibarge.com/rates>.

d. Respondents state that information responsive to this request can be found at <https://bhibarge.com/default>.

e. Respondents state that information responsive to this request is contained in a concurrently produced document bearing Bates Nos. BHIL/IT 000677, designated as CONFIDENTIAL under the parties' Confidentiality Agreement.

f. Respondents state that information responsive to this request is contained in the reports prepared by Mercator International LLC, an international transportation consultant retained by BHIL, and separately by BHITA, in support of due diligence efforts. The Mercator reports are produced contemporaneously to these responses and bear Bates Nos. BHIL/IT 000390 – BHIL/IT 000531. Within that range, the document identified by Bates Nos. BHIL/IT 000390 - BHIL/IT 000466 is designated as CONFIDENTIAL under the parties' Confidentiality Agreement.

18. Identify any transportation services available to the public that compete with the barge, including a description of each. In your answer, identify any alternatives to the barge for transporting large household goods (e.g., furniture) to Bald Head Island.

RESPONSE: Without waiving any of their objections, Respondents state that the barge and tug system which BHIL operates between the mainland and the island is the only vehicle freight transportation system servicing that route.

- 19. Do you admit that Limited advertises the barge as a service that will transport furniture to and from Bald Head Island for residents of the island?**

RESPONSE: Without waiving any of its objections, Respondents deny the requested admission and state that BHIL's barge and tug operation holds itself out to the public as a vehicle freight transportation business that rents space on the barge on a \$60 per six-foot length basis for vehicles. BHIL does not take, or require submission of, inventories of items contained in such vehicles. Vehicle owners must make representations regarding hazardous materials as a condition of reserving and using space on the barge for the transit of their vehicles.

- 20. Do you admit that the barge has transported furniture to and from Bald Head Island for residents of the island?**

RESPONSE: Without waiving any of its objections, Respondents deny the requested admission and state that BHIL's barge and tug operation holds itself out to the public as a vehicle freight transportation business that rents space on the barge on a \$60 per six-foot length basis for vehicles. BHIL does not take, or require submission of, inventories of items contained in such vehicles. However, it is true that individuals or businesses who wish to transport furniture, materials, equipment or supplies to the island can do so as cargo in a vehicle that qualifies to rent space on the barge. Vehicle owners must make representations regarding hazardous materials as a condition of reserving and using space on the barge for the transit of their vehicles. BHIL does not inspect the contents of vehicles upon reaching the island, nor does it utilize any of its personnel to unload or deliver any contents of such vehicles.

- 21. Do you admit that the barge will, in the future, transport furniture to and from Bald Head Island for residents of the island?**

RESPONSE: Without waiving any of its objections, Respondents state that BHIL's barge and tug operation holds itself out to the public as a vehicle freight transportation business that rents space on the barge on a \$60 per six-foot length basis for vehicles. BHIL does not take, or require submission of, inventories of items contained in such vehicles. However, it is true that individuals or businesses who wish to transport furniture, materials, equipment or supplies to the island can do so as cargo in a vehicle that qualifies to rent space on the barge. Vehicle owners must make representations regarding hazardous materials as a condition of reserving and using space on the barge for the transit of their vehicles. BHIL does not inspect the contents of vehicles upon reaching the island, nor does it utilize any of its personnel to unload or deliver any contents of such vehicles. Moreover, BHIL states that it intends no change of these practices and procedures in the future.

22. Does the barge transport an packages delivered by a designated delivery service authorized pursuant to 26 U.S.C. § 7502(f)(2) (e.g., UPS, FedEx, etc.)?

a. If so, describe how the barge transports such deliveries.

RESPONSE: Without waiving any of their objections, Respondents state that UPS, FedEx and DHL make deliveries to BHIL's mainland shipping & receiving department that are placed on pallets and transported in BHIL trucks to the island. Custody of the packages is transferred to the Village, which serves as a third-party delivery vendor for these package services on the island, at a Village-owned facility.

23. Are there any members of the public who would not be eligible to reserve space on the barge? If so, would disqualify a member from reserving space on the barge?

RESPONSE: Without waiving any of their objections, Respondents state that BHIL rents space on the barge on a \$60 per six-foot length basis for vehicles. BHIL does not take, or require submission of, inventories of items contained in such vehicles. Vehicle owners must make representations regarding hazardous materials as a condition of reserving and using space on the barge for the transit of their vehicles. Moreover, any vehicle that reserves space on the barge must also have either a daily or annual Village-issued Internal Combustion Engine (ICE) permit that is required to use any ICE vehicle on roads maintained by the Village.

24. Has Limited refused to allow a potential customer to use the barge service? If so, on how many occasions and for what reasons?

RESPONSE: Without waiving any of their objections, Respondents state that they are unaware of an instance in which a vehicle owner that pays the appropriate fees, makes the required representations about hazardous materials, and has a valid, Village-issued ICE permit has been denied service on the barge other than for lack of space.

25. Provide any financial statements regarding the barge from 2012 to present.

RESPONSE: Respondents object to the request as overly broad and not reasonably calculated to lead to the discovery of admissible evidence because the historical, financial performance of BHIL's barge and tuboat operation is unrelated to whether or not the Commission should extend its regulatory jurisdiction to regulate this business activity. Without waiver of any of its objections, Respondents previously have produced year-end, audited Statements of Revenues and Direct Expenses for BHIL's Barge Department for the years 2014 to 2021. The responsive documents bear the Bates Nos. BHIL/IT 000357 - 000389 and are designated as CONFIDENTIAL under the parties' Confidentiality

Agreement. Moreover, concurrently with these written responses, Respondents are producing additional income statements related to the Barge Department for the years 2013 through 2021. Those documents bear the Bates Nos. BHIL/IT 000685 – BHIL/IT 000718 and are designated as CONFIDENTIAL under the parties' Confidentiality Agreement.

This 8th day of July, 2022.

FOX ROTHSCHILD LLP

/s/ Bradley M. Risinger

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*Attorneys for Bald Head Island
Transportation, Inc. and Bald Head Island
Limited, LLC*

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing **RESPONSES TO COMPLAINANT'S FIRST DATA REQUESTS** has been served this day upon all parties of record in this proceeding, or their legal counsel, by electronic mail or by delivery to the United States Post Office, first-class postage pre-paid.

This the 8th day of July, 2022.

By: /s/ Bradley M. Risinger

Exhibit JAW-11 Intentionally Omitted

CONFIDENTIAL MATERIALS

Exhibit JAW-12 Intentionally Omitted

CONFIDENTIAL MATERIALS

Exhibit JAW-13

**BHIT Quarterly Financial Report of Monthly Information,
Docket No. A-41, Sub 7A (Feb. 17, 2022)**

OFFICIAL COPY

Feb 17 2022

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Aug 09 2022

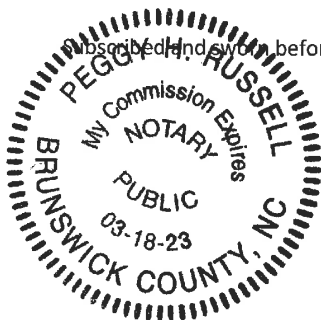
VERIFICATION UNDER OATH REGARDING ACCURACY OF REPORT

(NOTE: THIS VERIFICATION SHALL BE COMPLETED BY EITHER THE CHIEF EXECUTIVE OFFICER, A SENIOR LEVEL FINANCIAL OFFICER, OR THE RESPONSIBLE ACCOUNTING OFFICER)

I, Shirley A. Mayfield, state and attest that the attached Quarterly Financial Report of Monthly Information is filed on behalf of Bald Head Island Transportation, Inc., as required by the North Carolina Utilities Commission; that I have reviewed said report and, in the exercise of due diligence, have made reasonable inquiry into the accuracy of the information provided therein; and that, to the best of my knowledge, information, and belief, all of the information contained therein is accurate and true, no material information or fact has been knowingly omitted or misstated therein, and all of the information contained in said report has been prepared and presented in accordance with all applicable North Carolina General Statutes, Commission Rules, and Commission Orders.

Shirley A. Mayfield
Shirley A. Mayfield
Secretary/Treasurer
Bald Head Island Transportation, Inc.

February 9, 2022
Date



Subscribed and sworn before me this the 9th day of February, 20 22

Peggy H. Russell
Notary Public

My Commission Expires: 03-18-2023

Bald Head Island Transportation, Inc.
Income Statement
For the Quarter Ended Dec 31, 2021

	January	February	March	1st Qtr	April	May	June	2nd Qtr	July	August	September	3rd Qtr	October	November	December	4th Qtr	YTD
Operating Revenues																	
Ferry Tickets	295,054	309,316	503,906	1,108,276	821,167	761,760	837,467	2,220,394	884,066	693,633	606,594	2,184,293	567,490	417,465	366,179	1,351,134	6,884,097
Fuel Surcharge & Amortization	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Interco Tram	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tram	0	-	0	0	2,415	405	0	2,820	0	135	1,460	1,595	560	0	0	560	4,975
Other Miscellaneous	1,128	212	810	2,150	1,474	1,330	1,238	4,042	813	1,330	809	2,952	754	641	540	1,845	11,089
Total Operating Revenues	296,182	309,528	504,716	1,110,426	825,056	763,495	838,705	2,227,256	884,879	695,098	608,663	2,188,840	568,614	418,106	366,719	1,353,639	6,880,161
Operating Expenses																	
Wages and Benefits	228,087	214,217	226,507	668,811	265,081	249,698	260,015	774,794	319,041	257,107	241,371	817,519	234,157	252,107	259,577	745,841	3,006,965
Insurance	19,236	19,493	25,236	63,965	19,669	19,296	19,236	58,201	16,236	20,225	15,557	52,018	18,415	18,401	38,850	75,686	249,850
General & Administrative	1,652	4,505	7,106	13,263	1,859	3,196	1,977	7,032	12,167	6,515	3,096	21,778	5,485	3,171	2,968	11,624	53,697
Legal & Professional	1,407	1,003	1,199	3,609	8,586	2,292	2,589	13,467	6,189	2,427	4,795	13,391	10,511	2,036	10,142	22,689	53,156
Uniforms	100	172	0	272	0	1,055	0	1,055	9,002	869	1,378	11,247	1,117	2,395	2,035	5,547	18,121
Utilities	2,510	3,600	3,267	9,377	4,123	5,045	3,623	12,791	3,509	3,225	4,196	10,930	3,216	2,809	2,895	8,720	41,818
Deep Point Allocation	26,245	27,158	29,800	83,203	25,563	22,154	26,681	74,418	27,258	30,994	24,957	83,209	24,096	27,019	22,478	73,593	314,423
Safety Equipment	212	252	1,735	2,199	728	570	408	1,708	1,092	1,223	2,403	4,718	449	323	228	1,000	9,823
Baggage Products	196	65	274	535	405	513	577	1,495	567	526	624	1,717	299	359	232	890	4,837
Supplies General	864	589	628	2,081	825	723	861	2,409	2,920	938	2,415	6,273	834	1,760	955	3,549	14,312
Fuel	37,137	35,178	46,171	118,486	49,938	59,301	58,434	167,673	69,267	63,382	58,635	191,264	68,768	59,174	54,988	182,930	660,353
Supplies LP Gas	0	0	88	88	0	45	0	45	45	0	0	45	57	0	0	57	235
Supplies Small Tools	26	165	882	1,073	42	395	332	769	644	781	1,477	2,902	39	167	920	1,126	5,870
R&M Buildings	24	24	24	72	24	24	24	72	48	171	165	384	24	24	202	250	778
R&M Carts & Vehicles	4,273	2,319	9,771	16,363	6,961	2,937	5,545	15,443	20,838	9,521	7,748	38,107	10,037	14,469	14,369	38,875	108,788
R&M Machinery & Equipment	0	0	0	0	1,605	68	62	1,735	3,413	0	(7)	3,406	15	1,232	64	1,311	6,452
R&M Docks & Piers	0	0	0	0	0	134	0	134	0	0	0	0	0	0	0	0	134
Marina Maintenance Reserve	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dredging	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R&M Ferries	6,838	8,113	5,680	20,631	22,646	17,638	11,227	51,511	20,584	14,555	8,885	44,024	5,926	12,887	7,810	26,623	142,789
Credit Card	3,928	3,853	6,943	14,724	9,395	11,348	12,860	33,803	13,221	11,179	9,185	33,585	8,621	5,827	4,846	19,294	101,206
Equipment Rental	82	82	754	918	82	82	82	246	82	0	82	164	164	164	0	410	1,738
Taxes Licenses & Permits	14	290	1,447	1,751	26	0	936	962	18,646	479	570	19,695	27	0	0	27	22,435
Signage	850	850	850	2,550	850	850	850	2,550	850	850	1,700	3,400	850	850	850	2,550	11,050
Total Operating Expenses	333,681	321,928	368,362	1,023,971	418,428	397,364	406,319	1,222,111	545,599	424,947	389,230	1,359,776	393,107	405,174	424,290	1,222,571	4,828,429

Bald Head Island Transportation, Inc.
Income Statement
For the Quarter Ended Dec 31, 2021

	January	February	March	1st Qtr	April	May	June	2nd Qtr	July	August	September	3rd Qtr	October	November	December	4th Qtr	YTD
Intercompany/Department Trans																	
Management Fees	12,248	12,248	12,248	36,744	12,248	12,248	12,248	36,744	12,248	12,248	12,248	36,744	12,248	12,248	12,248	36,744	146,976
Facility Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Facilities Lease	104,392	104,392	104,392	313,176	104,392	104,392	104,392	313,176	104,392	104,392	104,392	313,176	104,392	104,392	104,392	313,176	1,252,704
Employee Ferry	5,222	4,704	5,960	15,876	5,516	6,272	5,468	18,256	7,082	6,566	5,740	19,388	5,796	5,110	5,110	16,016	69,536
Other Interco Expense	306	410	81	797	464	1,069	990	2,523	231	300	662	1,193	816	150	58	1,024	5,537
Monthly Parking	4,050	4,050	4,150	12,250	4,200	4,500	4,850	13,550	4,850	4,300	3,950	13,100	4,050	4,050	4,250	12,350	51,250
Vehicle Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fuel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Intercompany Expenses	126,218	125,804	126,821	378,843	126,820	128,461	128,948	384,249	128,803	127,806	126,992	383,601	127,302	125,950	126,058	379,310	1,526,003
Total Operating & Interco Exp	459,899	447,732	495,183	1,402,814	545,248	525,645	535,267	1,606,360	674,402	552,753	516,222	1,743,377	520,409	531,124	550,348	1,601,881	6,354,432
Depreciation Exp/Amortization	24,747	25,678	25,144	75,569	25,144	25,436	29,593	80,173	30,413	30,220	31,607	92,240	31,607	32,386	31,513	95,506	343,488
Gain or Loss on Capital Asset	0	10,756	0	10,756	0	37,473	3,788	41,261	25,343	0	0	25,343	0	0	37,080	37,080	114,440
Property Taxes	5,990	6,137	5,990	18,117	5,990	5,990	5,990	17,970	5,990	6,102	5,990	18,082	5,995	5,990	3,443	15,428	69,597
Payroll Taxes	18,597	16,676	17,322	52,795	19,787	16,982	14,307	51,076	23,182	17,993	16,592	57,767	15,332	17,379	17,985	50,696	212,334
Regulatory Fee	0	0	1,441	1,441	0	0	2,887	2,887	0	0	2,840	2,840	0	0	1,756	1,756	8,924
State Income Tax	0	0	5,500	5,500	0	21	0	21	0	0	0	0	0	0	0	0	5,521
Federal Income Tax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Operating Rev Deductions	509,233	507,179	550,580	1,566,992	596,169	611,747	591,832	1,799,748	759,330	607,068	673,251	1,939,649	573,343	686,879	642,126	1,802,347	7,106,736
Net Operating Income for Return	(213,051)	(197,651)	(45,864)	(456,566)	28,887	151,748	246,873	427,508	125,549	88,030	35,612	249,191	(4,529)	(168,773)	(275,406)	(448,708)	(228,575)
Interest	14,679	13,418	15,014	43,111	14,565	14,990	14,334	43,889	14,684	14,513	14,069	43,366	14,557	14,152	14,806	43,515	173,861
Net Profit/(Loss)	(227,730)	(211,069)	(60,878)	(499,677)	14,322	136,758	232,539	383,619	110,865	73,417	21,543	205,825	(19,086)	(182,925)	(290,212)	(492,223)	(402,456)

Footnote:

1/ Reflects accelerated tax depreciation methodologies not used in the regulated financials

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Bald Head Island Transportation, Inc.
Plant Schedule - Per Regulatory Accounting Basis
For the Quarter Ended Dec 31, 2021

Description	At end of Month			
	Plant	Accumulated Depreciation	Deferred Taxes	Regulated Depreciation
January 2021:				
Land	64,355	-	-	-
Docks & Piers	94,648	33,636	-	526
Vehicles	1,107,208	792,085	7,049	9,350
Equipment	260,089	202,636	4,418	1,126
Computer Hardware	71,583	71,583	-	-
Computer Software	67,087	67,087	-	-
BHIT Boats	4,865,615	2,279,090	13,602	16,652
Total BHIT	6,530,585	3,446,117	25,069	27,654
February 2021:				
Land	64,355	-	-	-
Docks & Piers	94,648	34,162	-	526
Vehicles	1,053,577	703,649	6,525	10,281
Equipment	260,089	203,762	4,316	1,126
Computer Hardware	71,583	71,583	-	-
Computer Software	67,087	67,087	-	-
BHIT Boats	4,865,615	2,295,743	13,107	16,652
Total BHIT	6,476,954	3,375,985	23,948	28,585
March 2021:				
Land	64,355	-	-	-
Docks & Piers	94,648	34,688	-	526
Vehicles	1,053,577	713,484	6,001	9,834
Equipment	260,089	204,800	4,214	1,038
Computer Hardware	71,583	71,583	-	-
Computer Software	67,087	67,087	-	-
BHIT Boats	4,865,615	2,312,395	12,612	16,652
Total BHIT	6,476,954	3,404,036	22,828	28,051
1st QUARTER 1/	6,476,954	3,404,036	22,828	84,290

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Bald Head Island Transportation, Inc.
Plant Schedule - Per Regulatory Accounting Basis
For the Quarter Ended Dec 31, 2021

Description	At end of Month			
	Plant	Accumulated Depreciation	Deferred Taxes	Regulated Depreciation
April 2021:				
Land	64,355	-	-	-
Docks & Piers	94,648	35,214	-	526
Vehicles	1,053,577	723,814	5,286	10,331
Equipment	260,089	205,838	4,112	1,039
Computer Hardware	71,583	71,583	-	-
Computer Software	67,087	67,087	-	-
BHIT Boats	4,865,615	2,329,048	12,117	16,652
Total BHIT	<u>6,476,954</u>	<u>3,432,583</u>	<u>21,516</u>	<u>28,547</u>
May 2021:				
Land	64,355	-	-	-
Docks & Piers	94,648	35,740	-	526
Vehicles	1,081,645	733,562	4,954	9,748
Equipment	260,089	206,877	4,011	1,038
Computer Hardware	71,583	71,583	-	-
Computer Software	67,087	67,087	-	-
BHIT Boats	4,823,457	2,340,899	11,622	16,652
Total BHIT	<u>6,462,864</u>	<u>3,455,747</u>	<u>20,586</u>	<u>27,964</u>
June 2021:				
Land	64,355	-	-	-
Docks & Piers	94,648	36,265	-	526
Vehicles	1,081,645	743,310	4,621	9,748
Equipment	260,089	207,915	3,909	1,038
Computer Hardware	71,583	71,583	-	-
Computer Software	67,087	67,087	-	-
BHIT Boats	4,944,622	2,360,597	11,127	20,575
Total BHIT	<u>6,584,028</u>	<u>3,486,756</u>	<u>19,657</u>	<u>31,887</u>
2nd Quarter 1/	6,584,028	3,486,756	19,657	88,398

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**Bald Head Island Transportation, Inc.
Plant Schedule - Per Regulatory Accounting Basis
For the Quarter Ended Dec 31, 2021**

Description	At end of Month			
	Plant	Accumulated Depreciation	Deferred Taxes	Regulated Depreciation
July 2021:				
Land	64,355	-	-	-
Docks & Piers	94,648	36,791	-	526
Vehicles	1,109,399	753,520	4,288	10,210
Equipment	260,089	208,954	3,807	1,038
Computer Hardware	71,583	71,583	-	-
Computer Software	67,087	67,087	-	-
BHIT Boats	4,992,625	2,326,053	10,632	21,050
Total BHIT	<u>6,659,786</u>	<u>3,463,988</u>	<u>18,728</u>	<u>32,824</u>
Aug 2021:				
Land	64,355	-	-	-
Docks & Piers	94,648	37,317	-	526
Vehicles	1,138,228	764,211	3,956	10,691
Equipment	260,089	209,852	3,759	899
Computer Hardware	71,583	71,583	-	-
Computer Software	67,087	67,087	-	-
BHIT Boats	4,992,625	2,346,429	10,137	20,375
Total BHIT	<u>6,688,615</u>	<u>3,496,478</u>	<u>17,852</u>	<u>32,491</u>
Sept 2021:				
Land	64,355	-	-	-
Docks & Piers	94,648	37,843	-	526
Vehicles	1,221,493	776,289	3,623	12,079
Equipment	260,089	210,751	3,711	899
Computer Hardware	71,583	71,583	-	-
Computer Software	67,087	67,087	-	-
BHIT Boats	4,992,625	2,366,804	9,642	20,375
Total BHIT	<u>6,771,880</u>	<u>3,530,357</u>	<u>16,977</u>	<u>33,878</u>
3rd Quarter 1/	6,771,880	3,530,357	16,977	99,193

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Bald Head Island Transportation, Inc.
Plant Schedule - Per Regulatory Accounting Basis
For the Quarter Ended Dec 31, 2021

Description	At end of Month			
	Plant	Accumulated Depreciation	Deferred Taxes	Regulated Depreciation
Oct 2021:				
Land	64,355	-	-	-
Docks & Piers	94,648	38,369	(0)	526
Vehicles	1,221,493	788,368	3,291	12,079
Equipment	260,089	211,650	3,663	899
Computer Hardware	71,583	71,583	-	-
Computer Software	67,087	67,087	-	-
BHIT Boats	4,992,625	2,387,179	9,147	20,375
Total BHIT	<u>6,771,880</u>	<u>3,564,235</u>	<u>16,101</u>	<u>33,878</u>
Nov 2021:				
Land	64,355	-	-	-
Docks & Piers	94,648	38,894	-	526
Vehicles	1,221,493	800,446	2,958	12,079
Equipment	260,089	212,548	3,615	899
Computer Hardware	71,583	71,583	-	-
Computer Software	67,087	67,087	-	-
BHIT Boats	5,029,992	2,408,333	8,652	21,154
Total BHIT	<u>6,809,247</u>	<u>3,598,892</u>	<u>15,226</u>	<u>34,657</u>
Dec 2021:				
Land	64,355	-	-	-
Docks & Piers	94,648	39,420	-	526
Vehicles	1,221,493	812,525	2,626	12,079
Equipment	260,089	213,447	3,568	899
Computer Hardware	71,583	71,583	-	-
Computer Software	67,087	67,087	-	-
BHIT Boats	4,957,751	2,393,453	8,157	20,281
Total BHIT	<u>6,737,006</u>	<u>3,597,515</u>	<u>14,350</u>	<u>33,784</u>
4th Quarter 1/	6,737,006	3,597,515	14,350	102,319
YTD as of 12/31/2021 1/	6,737,006	3,597,515	14,350	374,200

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BALD HEAD ISLAND TRANSPORTATION, INC.
Report of Passengers Boarded by Fare Class
On-Time Performance (OTP) Information

TYPE TICKET	2021	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Class I GENERAL		3,847	4,385	8,882	13,046	17,101	19,039	21,966	15,327	13,939	11,763	7,351	6,204	142,850
Class II BULK 40		2,152	2,144	3,054	3,475	3,988	4,791	4,539	3,770	3,841	3,707	3,253	2,830	41,544
Class III BULK 80		157	137	175	170	187	186	162	214	198	196	175	166	2,123
Class IV NO FRILLS		600	574	826	760	874	1,076	1,214	1,019	855	803	749	565	9,915
Class V CONTRACTOR		2,533	2,429	2,939	2,725	2,768	2,828	2,635	2,734	2,707	2,498	2,673	2,429	31,898
Class VI EMPLOYEE		7,282	7,098	9,619	10,534	11,479	12,119	12,363	11,213	10,168	9,835	8,684	8,258	118,652
Class VII CHILDREN		418	416	1,394	1,834	2,087	3,668	4,016	2,837	1,683	1,427	921	785	21,486
Class VII CHILDREN NO COST		84	83	216	361	574	599	667	590	474	279	193	121	4,241
Class VIII ANNUAL PASS		36	43	51	38	50	57	46	62	95	119	128	126	851
Class X ONE-WAY TICKET		121	153	196	250	300	288	359	292	254	240	205	181	2,839
TOTAL (w/o Class X ONE-WAY)		17,109	17,309	27,156	32,943	39,108	44,363	47,608	37,766	33,960	30,627	24,127	21,484	373,560
TOTAL (w/Class X ONE-WAY)		17,230	17,462	27,352	33,193	39,408	44,651	47,967	38,058	34,214	30,867	24,332	21,665	376,399
Class IXa OVERSIZED BAGGAGE		112	129	501	498	600	788	886	590	435	302	191	158	5,190
Class IXb EXCESS BAGGAGE		0	0	0	5	0	0	0	0	0	0	0	0	5
TICKETED TRAM RIDERS ¹		2,693	2,912	6,151	8,019	10,499	12,365	13,703	9,811	8,311	7,100	4,792	4,030	90,386
INVOICED TRAM RIDERS		0	0	0	0	0	0	0	0	0	0	0	0	0
INVOICED INTERCO SHUTTLE BUS RIDERS		0	0	0	0	0	0	0	0	0	0	0	0	0
INVOICED NON-INTERCO SHUTTLE BUS RIDERS		0	0	0	0	0	0	0	0	0	0	0	0	0
														Average
FERRY DEPARTURES ON-TIME		90%	86%	65%	67%	54%	47%	45%	53%	59%	68%	76%	84%	66%
NUMBER DAYS WITH A LATE DEPARTURE		22	18	30	26	31	30	31	31	30	30	25	21	27

Notes:

¹ Riders whose ticket includes tram

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BHIL/IT 000315

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Exhibit JAW-14 Intentionally Omitted

CONFIDENTIAL MATERIALS

Exhibit JAW-15 Intentionally Omitted


CONFIDENTIAL MATERIALS

Exhibit JAW-16 Intentionally Omitted

CONFIDENTIAL MATERIALS

Exhibit JAW-17

MLS Listing

100007914 Comm Sale or Lease		00 Ferry Road , Southport, NC 28461 Listing Office: Margaret Rudd Assoc/Sp		Pending Current Price: \$3,250,000	
		City Limits: No County: Brunswick Location Type: Mainland Marketing City: Southport Subdivision: Not In Subdivision Secondary Subdivision: N/A New Construction: No Lot Acres: 106.41 Lot SqFt: 4,635,220		SqFt - Heated (Primary): 0 Flood Ins Req: Yes HOA: No Lot Dimensions: irregular Year Built: 0 Zoning: Southport ETJ	
		Location: ETJ Lot Description: Corner Lot		Possession: At Closing Road Type/Frontage: Paved Sale/Lease Includes: Land Sub-Type: Mixed Use; Unimproved	
Cobra Zone:	No	Deed Book:	2722	Plat Book:	21
		Deed Page:	694	Plat Page:	225
		Federal Flood Ins Avlbl:	Yes	Special Assessments:	not known
		PID:	2220000607	Tax Assessed Value:	\$4,137,220
		Tax Identifier:	2220000607	Tax Year:	2016
Marketing/Public Remarks: This undeveloped 106 acre parcel known as Southport Crossing sits on the corner of Moore St. and Ferry Rd., which leads to the Bald Head Island Ferry and the Fort Fisher Ferry. This gives this land the undivided attention of visitors coming and going to Historic Southport. It is zoned mixed use for single/multi-family and commercial use and offers views of beautiful marsh land and Price's Creek. The possibilities of coming off the ferry and having a bite to eat or to shop before heading back out are endless. Developing a community and bring all these features together would be a great addition to Southport. Legal: 106.41 ACRES PLAT 21/225 Sign on Property: Yes Directions to Property: From Howe St. take left on Moore St. and right on Ferry Rd. parcel is on corner of Moore St. and Ferry Rd.					
Agreement Service:	Full Service	Effective Date:	04/05/2016	Continue Showing:	No
Agreement Type:	Exclusive Right to Sell	Listing/Lease Price:	\$3,250,000	Status:	Pending
Auction:	No	Original List Price:	\$4,500,000	Status Change Date:	12/01/2021
Owner:	Southport Crossing Holdings LL	Prospect Exempt:	No	Proposed Closing Date:	12/01/2022
Broker Owner:	No	Sale/Lease:	Sale	Date:	
Seller Rep.:	Has owned the property for at least one year	Stipulation of Sale:	None	Under Contract Date:	11/30/2021
Buyer Agent Comm:	2.5%	Sub Agent Comm:	0%	Post Closing:	Due Diligence Date: 03/30/2022
Cumulative DOM:	1958	Variable Comm:	No		
Days on Market:	1958				
Listing/Lease Price:	\$3,250,000				
Listing Member:	Name Elvira Gilbert 231672	Office Listing Office: Margaret Rudd Assoc/Sp C3409	Primary 910-619-4087	Office 910-457-5258	E-mail elvira@rudd.com
Selling Member:	A Non Member	Selling Office: A Non Member NonMemberLicense			admin@ncrmls.com

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Information is deemed to be reliable, but is not guaranteed. Data may have come from public tax records. © 2022 MLS and FBS. Prepared by Michelle Goodwin on Wednesday, March 30, 2022 9:04 AM. The information on this sheet has been made available by the MLS and may not be the listing of the provider.

History for MLS # 100007914 00 Ferry Road, Southport, NC 28461 \$3,250,000

+	MLS #	Status	Price	% Change	Date	ADOM	CDOM	Address
-	100007914	Pending	\$3,250,000	0.0%	12/01/2021	1958	1958	00 Ferry Road
+		Status	\$3,250,000		12/01/2021			
+		Proposed Closing Date	\$3,250,000		12/01/2021			
+		Status	\$3,250,000		11/16/2021			
+		Status	\$3,250,000		11/16/2021			
+		Status	\$3,250,000		05/06/2021			
+		Expiration Date	\$3,250,000		05/06/2021			
+		Status	\$3,250,000		05/02/2021			
+		Extension	\$3,250,000		10/29/2020			
+		Expiration Date	\$3,250,000		10/29/2020			
+		Text, etc.	\$3,250,000		05/19/2020			
+		Extension	\$3,250,000		05/01/2020			
+		Expiration Date	\$3,250,000		05/01/2020			
+		Status	\$3,250,000		11/01/2019			
+		Extension	\$3,250,000		11/01/2019			
+		Status	\$3,250,000		08/30/2019			
+		Selling Member	\$3,250,000		08/30/2019			
+		Price Change	\$3,250,000	-18.6%	04/17/2019			
+		Status	\$3,995,000		04/17/2019			
+		Expiration Date	\$3,995,000		04/17/2019			
+		Status	\$3,995,000		04/15/2019			
+		Extension	\$3,995,000		10/13/2018			
+		Expiration Date	\$3,995,000		10/13/2018			
+		Status	\$3,995,000		07/18/2018			
+		Expiration Date	\$3,995,000		07/18/2018			
+		Status	\$3,995,000		07/14/2018			
+		Status	\$3,995,000		06/29/2018			
+		Fallthrough Date	\$3,995,000		06/29/2018			
+		Status	\$3,995,000		06/05/2018			
+		Selling Member	\$3,995,000		06/05/2018			
+		Status	\$3,995,000		04/14/2018			
+		Expiration Date	\$3,995,000		04/14/2018			
+		Status	\$3,995,000		04/08/2018			
+		Photos	\$3,995,000		11/18/2017			
+		Extension	\$3,995,000		10/06/2017			
+		Expiration Date	\$3,995,000		10/06/2017			
+		Status	\$3,995,000		04/04/2017			
+		Status	\$3,995,000		04/04/2017			
+		Price Change	\$3,995,000	-0.1%	03/07/2017			
+		Price Change	\$4,000,000	-5.9%	10/15/2016			
+		Price Change	\$4,250,000	-5.6%	07/21/2016			
+		Text, etc.	\$4,500,000		05/12/2016			

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	+	New	\$4,500,000		04/05/2016			
-	100022094	Pending	\$3,250,000		12/01/2021	1958	1958	00 Ferry Road
	+	Status	\$3,250,000		12/01/2021			
	+	Proposed Closing Date	\$3,250,000		12/01/2021			
	+	Extension	\$3,250,000		11/12/2021			
	+	Expiration Date	\$3,250,000		11/12/2021			
	+	Status	\$3,250,000		05/06/2021			
	+	Expiration Date	\$3,250,000		05/06/2021			
	+	Status	\$3,250,000		05/02/2021			
	+	Extension	\$3,250,000		10/29/2020			
	+	Expiration Date	\$3,250,000		10/29/2020			
	+	Extension	\$3,250,000		05/01/2020			
	+	Expiration Date	\$3,250,000		05/01/2020			
	+	Status	\$3,250,000		11/01/2019			
	+	Extension	\$3,250,000		11/01/2019			
	+	Status	\$3,250,000		08/30/2019			
	+	Selling Member	\$3,250,000		08/30/2019			
	+	Price Change	\$3,250,000	-18.6%	04/17/2019			
	+	Status	\$3,995,000		04/17/2019			
	+	Expiration Date	\$3,995,000		04/17/2019			
	+	Status	\$3,995,000		04/15/2019			
	+	Extension	\$3,995,000		10/13/2018			
	+	Expiration Date	\$3,995,000		10/13/2018			
	+	Status	\$3,995,000		07/18/2018			
	+	Expiration Date	\$3,995,000		07/18/2018			
	+	Status	\$3,995,000		07/14/2018			
	+	Status	\$3,995,000		06/29/2018			
	+	Fallthrough Date	\$3,995,000		06/29/2018			
	+	Status	\$3,995,000		06/05/2018			
	+	Selling Member	\$3,995,000		06/05/2018			
	+	Status	\$3,995,000		04/14/2018			
	+	Expiration Date	\$3,995,000		04/14/2018			
	+	Status	\$3,995,000		04/08/2018			
	+	Text, etc.	\$3,995,000		01/25/2018			
	+	Photos	\$3,995,000		01/24/2018			
	+	Extension	\$3,995,000		10/06/2017			
	+	Expiration Date	\$3,995,000		10/06/2017			
	+	Status	\$3,995,000		04/04/2017			
	+	Status	\$3,995,000		04/04/2017			
	+	Price Change	\$3,995,000	-0.1%	03/07/2017			
	+	Photos	\$4,000,000		02/16/2017			
	+	Price Change	\$4,000,000	-5.9%	10/15/2016			
	+	Text	\$4,250,000		07/22/2016			
	+	Price Change	\$4,250,000	-5.6%	07/21/2016			
	+	New	\$4,500,000		07/21/2016			

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