



Alaska DOT&PF

Statewide Design and Engineering Services
Pavement Management and Preservation Office
5800 East Tudor Road, Anchorage AK 99507-1286

Pavement Inspection Report Cold Bay Airport



Airport Name	IATA	ICAO	Latitude	Longitude	Elevation (ft)
Cold Bay Airport	CDB	PACD	55° 12' 21.3" N	162° 43' 34.5" W	99.5

Please refer all questions or for further information about this report, please contact the AKDOT&PF Pavement Management and Preservation Office as follows:

Point of Contact	Phone	Email	Date Inspected	Date Published
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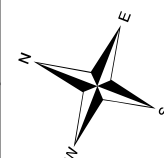
PCI Values / General Pavement Recommendations

(85 - 100) - Preventative Maintenance
(70 - 84) - Preventative / Corrective Maintenance
(55 - 69) - Rehabilitation
(40 - 54) - Reconstruct
(25 - 39) - Reconstruct
(10 - 24) - Reconstruct
(0 - 9) - Reconstruct



Airport Code: CDB
Site Number: 50014.*A

Target PCI Range for Runways: 70 to 100
Target PCI Range for Taxiways and Aprons: 60 to 100



Map 1 of 6

Pavement Condition Index (PCI)

PCI Values / General Pavement Recommendations

<div></div>	(85 - 100) - Preventative Maintenance
<div></div>	(70 - 84) - Preventative / Corrective Maintenance
<div></div>	(55 - 69) - Rehabilitation
<div></div>	(40 - 54) - Reconstruct
<div></div>	(25 - 39) - Reconstruct
<div></div>	(10 - 24) - Reconstruct
<div></div>	(0 - 9) - Reconstruct
<div></div>	Inventoried Sample Unit

Runway 15-33 [6100] (10,200 x 150 feet)

Taxiway D [0400-01]

Apron [4300-01]

Taxiway C [0300-01]

North Aircraft Parking Apron [4200-01]

Taxiway B [0200-01]

Taxiway A [0100-01]

Terminal Apron [4100-01]

Runway 8-26 [6200] (4,850 x 150 feet)

Sample Unit IDs: [6100-09], [6100-05], [6100-03], [6100-01], [6200-03], [6200-05], [6200-02], [6200-01], [6100-07], [6100-06]

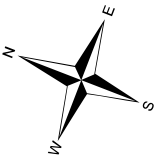
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Cold Bay Airport

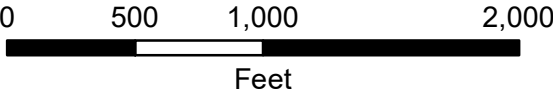
Airport Code: CDB
Site Number: 50014.*A

Sample Unit Pavement Condition Index (PCI)

Target PCI Range for Runways: 70 to 100
Target PCI Range for Taxiways and Aprons: 60 to 100



2023 Pavement Inspection Results



Map Created by Duval Engineering
for AK DOT&PF

5 Year Predicted* (Year 2028)

Pavement Condition Index (PCI)

PCI Values / General Pavement Recommendations

(85 - 100) - Preventative Maintenance

(70 - 84) - Preventative / Corrective Maintenance

(55 - 69) - Rehabilitation

(40 - 54) - Reconstruct

(25 - 39) - Reconstruct

(10 - 24) - Reconstruct

(0 - 9) - Reconstruct

*Assumes continued preventive maintenance

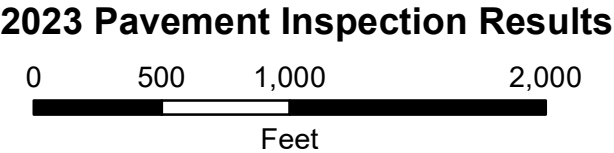
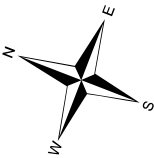


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Cold Bay Airport

Airport Code: CDB
Site Number: 50014.*A

5 Year Predicted
Pavement Condition Index (PCI)
Target PCI Range for Runways: 70 to 100
Target PCI Range for Taxiways and Aprons: 60 to 100



Map Created by Duval Engineering
for AK DOT&PF

10 Year Predicted* (Year 2033)

Pavement Condition Index (PCI)

PCI Values / General Pavement Recommendations

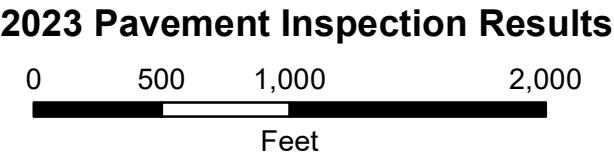
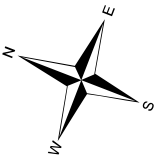
<div></div>	(85 - 100) - Preventative Maintenance
<div></div>	(70 - 84) - Preventative / Corrective Maintenance
<div></div>	(55 - 69) - Rehabilitation
<div></div>	(40 - 54) - Reconstruct
<div></div>	(25 - 39) - Reconstruct
<div></div>	(10 - 24) - Reconstruct
<div></div>	(0 - 9) - Reconstruct

*Assumes continued preventive maintenance



Cold Bay Airport
Airport Code: CDB
Site Number: 50014.*A

**10 Year Predicted
Pavement Condition Index (PCI)**
Target PCI Range for Runways: 70 to 100
Target PCI Range for Taxiways and Aprons: 60 to 100



Map Created by Duval Engineering
for AK DOT&PF

Age at Inspection

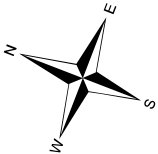
- 0 - 4 Years Old
- 5 - 9 Years Old
- 10 - 14 Years Old
- 15 - 19 Years Old
- 20 - 24 Years Old
- 25 - 29 Years Old
- 30 - 100 Years Old



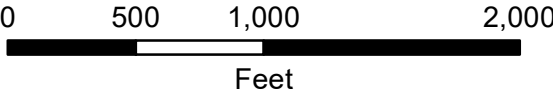
Cold Bay Airport

Airport Code: CDB
Site Number: 50014.*A

Pavement Age at Inspection



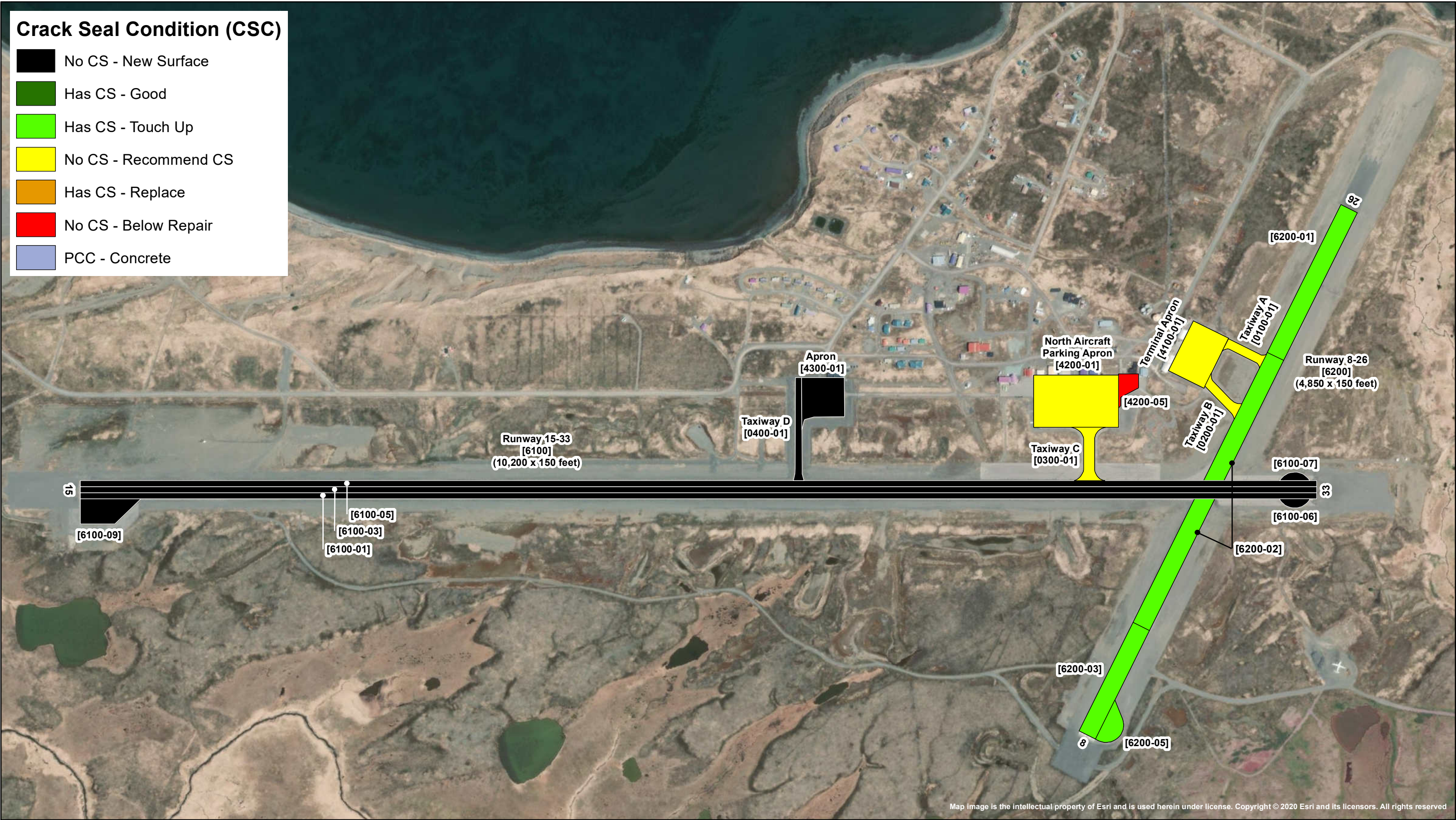
2023 Pavement Inspection Results



Map Created by Duval Engineering
for AK DOT&PF

Crack Seal Condition (CSC)

- No CS - New Surface
- Has CS - Good
- Has CS - Touch Up
- No CS - Recommend CS
- Has CS - Replace
- No CS - Below Repair
- PCC - Concrete

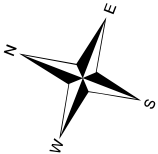


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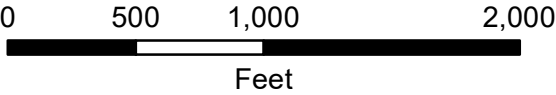
Cold Bay Airport

Airport Code: CDB
Site Number: 50014.*A

Pavement Crack Seal Condition (CSC)



2023 Pavement Inspection Results



Map Created by Duval Engineering
for AK DOT&PF

AIRPORT PAVEMENT INSPECTION NOTES BY BRANCH

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
0100	Taxiway A	Taxiway	1	26,675	82





Taxiway A was initially constructed in 1942 and the most recent major work was a surface course in 2005. Crack seal operations have not been performed on the branch. The most common distresses observed are low severity longitudinal and transverse cracking, low to medium severity raveling, and low to medium severity weathering. Field observations include wearing of the pavement surface due to climate and traffic and the creation of new unfilled cracks.



Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
0200	Taxiway B	Inactive	1	29,000	86





Like Taxiway A, Taxiway B was initially constructed in 1942 and the most recent major work was a surface course in 2005. Crack seal operations have not been performed on the branch. The most common distresses observed are low to medium severity raveling and low to medium severity weathering. Field observations include wearing of the pavement surface due to climate and traffic.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
0300	Taxiway C	Taxiway	1	48,735	80
					

Taxiway C was initially constructed in 1972 and underwent surface reconstruction in 2012. Crack seal operations have not been performed on the branch. The most common distresses observed are low severity longitudinal and transverse cracking, low to medium severity raveling, and low severity weathering. Field observations include expedited wearing of the paving joints compared to Taxiway A and B, causing an increased quantity and severity of distress.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
0400	Taxiway D	Taxiway	1	46,225	93
					

Taxiway D was constructed in 2018 and had not received any major work since. Crack seal operations have not been performed on the branch. The most common distresses observed are low severity raveling and low severity weathering. Field observations include initial wearing of the pavement surface and paving joints.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
4100	South Apron	Apron	1	149,175	77
					

The South Apron, connected to Taxiways A and B, was first built in 1942, and the most recent major work was a surface course in 2005. Crack seal operations have not been performed on the branch. The most common distresses observed are low severity depressions, low severity longitudinal and transverse cracking, low to medium severity raveling, and low severity weathering. Field observations include wearing of the pavement surface due to climate and traffic, the creation of new unfilled cracks, and standing water in localized areas across the apron.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
4200	North Ramp	Apron	2	328,340	80

AC Section 4200-01 (86 PCI)





The larger section (301,000 Sq Ft) of the North Ramp, connected to Taxiway C, was first built in 1972 and underwent surface reconstruction in 2012. Crack seal operations have not been performed on the branch. The most common distresses observed are low severity longitudinal and transverse cracking, low severity raveling, and low severity weathering. Field observations include expedited wearing of the paving joints causing an increased quantity and severity of distresses.


AC Section 4200-05 (14 PCI)



The smaller section (27,340 Sq Ft) of the North Ramp was constructed in 1970 and has not received any major work since. Crack seal operations have not been performed on the branch. The most common distresses observed are low to high severity alligator cracking, low to medium severity longitudinal and transverse cracking, low to high severity raveling, and low severity weathering.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
4300	Apron	Apron	1	116,500	94
					

The Apron, which is connected to Taxiway D, was constructed in 2018 and has not received any major work since. Crack seal operations have not been performed on the branch. The most common distresses observed are low severity raveling and low severity weathering. Field observations include initial wearing of the pavement surface and paving joints.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
6100	Runway 15/33	Runway	6	1,638,540	94
					

Runway 15/33 was initially constructed in 1942 and the most recent major work was a 4-inch overlay in 2018. Crack seal operations have not been performed on the section. The most common distresses observed are low severity raveling and low severity weathering. Field observations include initial wearing of the pavement surface and paving joints.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weighted Average PCI
6200	Runway 08/26	Runway	4	746,050	78
					

Runway 08/26 was first constructed in 1942 and has been reconfigured over the years which is attributed to the runway's 4 sections. Section 6200-01 received a structural overlay in 2005. Section 6200-02 underwent surface recycling in 1989. Sections 6200-03 and 6200-05 were newly constructed in 2004 and have not received any major work since. Annual crack seal operations have been performed on the section. The most common distresses observed are low to medium severity longitudinal and transverse cracking, low to medium severity raveling, and low to medium severity weathering. Field pavement observations include increased wearing of the pavement surface and paving joints leading to higher quantities and severity of raveling, the development of new unfilled cracks, and the widening of previously filled cracks.

BRANCH CONDITION REPORT

Branch ID	No. of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (Sq Ft)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI
0100	1	338	75	26,675	TAXIWAY	82.00	0.00	82.00
0200	1	355	75	29,000	TAXIWAY	86.00	0.00	86.00
0300	1	440	90	48,735	TAXIWAY	80.00	0.00	80.00
0400	1	850	50	46,225	TAXIWAY	93.00	0.00	93.00
4100	1	325	459	149,175	APRON	77.00	0.00	77.00
4200	2	595	408	328,340	APRON	50.00	36.00	80.00
4300	1	325	352	116,500	APRON	94.00	0.00	94.00
6100	6	31,600	85	1,638,540	RUNWAY	93.20	3.69	94.25
6200	4	5,210	154	746,050	RUNWAY	78.75	2.95	77.54

Note: the dimensions in the Branch Condition Report are derived from area calculations and may not reflect actual dimensions of individual sections. Refer to the maps for actual section dimensions.

BRANCH USE CONDITION REPORT

Use Category	No. of Sections	Total Area (Sq Ft)	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
APRON	4	594,015	67.75	31.61	81.99
RUNWAY	10	2,384,590	87.42	7.86	89.03
TAXIWAY	4	150,635	85.25	4.97	85.50
ALL	18	3,129,240	82.57	18.04	87.52

SECTION CONDITION REPORT

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	True Area (Sq Ft)	Last Inspection Date	Age At Inspection	PCI
0100	0100-01	7/25/2005	AAC	TAXIWAY	P	26,675	6/1/2023	18	82
0200	0200-01	7/25/2005	AAC	TAXIWAY	P	29,000	6/1/2023	18	86
0300	0300-01	8/30/2012	AAC	TAXIWAY	P	48,735	6/1/2023	11	80
0400	0400-01	7/11/2018	AC	TAXIWAY	P	46,225	6/1/2023	5	93
4100	4100-01	7/25/2005	AAC	APRON	P	149,175	6/1/2023	18	77
4200	4200-01	8/30/2012	AAC	APRON	P	301,000	6/1/2023	11	86
4200	4200-05	9/1/1970	AC	APRON	P	27,340	6/1/2023	53	14
4300	4300-01	7/11/2018	AC	APRON	P	116,500	6/1/2023	5	94
6100	6100-01	8/15/2018	AAC	RUNWAY	P	510,000	6/1/2023	5	95
6100	6100-03	8/15/2018	AAC	RUNWAY	P	510,000	6/1/2023	5	95
6100	6100-05	8/15/2018	AAC	RUNWAY	P	510,000	6/1/2023	5	94
6100	6100-06	8/15/2018	AAC	RUNWAY	P	13,500	6/1/2023	5	95
6100	6100-07	8/15/2018	AAC	RUNWAY	P	13,500	6/1/2023	5	95
6100	6100-09	8/30/2012	AAC	RUNWAY	P	81,540	6/1/2023	11	85
6200	6200-01	7/25/2005	AAC	RUNWAY	P	204,000	6/1/2023	18	80
6200	6200-02	9/1/1989	AAC	RUNWAY	P	348,300	6/1/2023	34	74
6200	6200-03	9/10/2004	AAC	RUNWAY	P	150,000	6/1/2023	19	82
6200	6200-05	9/10/2004	AAC	RUNWAY	P	43,750	6/1/2023	19	79

SECTION CONDITION REPORT (SUMMARY BY AGE CATEGORY)

Age Category	Average Age at Inspection	Total Area (Sq Ft)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
03-05	5	1,719,725	7	94.46	0.75	94.64
11-15	11	431,275	3	83.67	2.62	85.13
16-20	18	602,600	6	81.00	2.83	80.06
31-35	34	348,300	1	74.00	0.00	74.00
50+	53	27,340	1	14.00	0.00	14.00
ALL	15	3,129,240	18	82.57	18.04	87.52

Work History Report

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Pavement Database: Alaska

Network: Cold Bay Airport		Branch: 0100		Taxiway A		Section: 0100-01	Surface: AAC
L.C.D. 7/25/2005	Use: TAXIWAY	Rank: P	Length: 338.00 (Ft)	Width: 75.00 (Ft)	True Area: 26675.00000 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
7/25/2005	SU-AC	Surface Course - AC	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	
9/1/1989	AR-HO	AC Surface Recycling - Hot	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	
9/1/1974	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	
9/1/1942	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	

Network: Cold Bay Airport		Branch: 0200		Taxiway B		Section: 0200-01	Surface: AAC
L.C.D. 7/25/2005	Use: TAXIWAY	Rank: P	Length: 355.00 (Ft)	Width: 75.00 (Ft)	True Area: 29000.00000 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
7/25/2005	OL-AS	Overlay - AC Structural	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	
9/1/1989	AR-HO	AC Surface Recycling - Hot	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	
9/1/1974	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	
9/1/1942	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	

Network: Cold Bay Airport		Branch: 0300		Taxiway C		Section: 0300-01	Surface: AAC
L.C.D. 8/30/2012	Use: TAXIWAY	Rank: P	Length: 440.00 (Ft)	Width: 90.00 (Ft)	True Area: 48735.00001 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
8/30/2012	SR-AC	Surface Reconstruction - AC	0.00	4.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	
9/1/1972	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	

Network: Cold Bay Airport		Branch: 0400		Taxiway D		Section: 0400-01	Surface: AC
L.C.D. 7/11/2018	Use: TAXIWAY	Rank: P	Length: 850.00 (Ft)	Width: 50.00 (Ft)	True Area: 46225.00001 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
7/11/2018	NC-AC	New Construction - AC	0.00	4.00	<input checked="" type="checkbox"/> X	4" HMA, 12" Foamed Base, 20" Subb	

Network: Cold Bay Airport		Branch: 4100		South Apron		Section: 4100-01	Surface: AAC
L.C.D. 7/25/2005	Use: APRON	Rank: P	Length: 325.00 (Ft)	Width: 459.00 (Ft)	True Area: 149175.0037 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
7/25/2005	OL-AS	Overlay - AC Structural	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	
9/1/1974	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	
9/1/1942	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	

Network: Cold Bay Airport		Branch: 4200		North Ramp		Section: 4200-01	Surface: AAC
L.C.D. 8/30/2012	Use: APRON	Rank: P	Length: 430.00 (Ft)	Width: 700.00 (Ft)	True Area: 301000.0038 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
8/30/2012	SR-AC	Surface Reconstruction - AC	0.00	4.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	
8/1/2008	SS-FS	Surface Seal - Fog Seal	0.00	0.00	<input type="checkbox"/> X	(Funded via AIP)	
9/1/1974	SS-CT	Surface Seal - Coal Tar	0.00	0.00	<input type="checkbox"/> X	(Funded via AIP)	
9/1/1972	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)	

Work History Report

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Pavement Database: Alaska

Network: Cold Bay Airport **Branch:** 4200 North Ramp **Section:** 4200-05 **Surface:** AC
L.C.D. 9/1/1970 **Use:** APRON **Rank:** P **Length:** 165.00 (Ft) **Width:** 115.00 (Ft) **True Area:** 27340 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/1970	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	est. age, (Funded via AIP)

Network: Cold Bay Airport **Branch:** 4300 Apron **Section:** 4300-01 **Surface:** AC
L.C.D. 7/11/2018 **Use:** APRON **Rank:** P **Length:** 325.00 (Ft) **Width:** 352.00 (Ft) **True Area:** 116500.0000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/11/2018	NC-AC	New Construction - AC	0.00	4.00	<input checked="" type="checkbox"/> X	4" HMA, 12" Foamed Base, 20" Subb

Network: Cold Bay Airport **Branch:** 6100 15/33 **Section:** 6100-01 **Surface:** AAC
L.C.D. 8/15/2018 **Use:** RUNWAY **Rank:** P **Length:** 10,200.00 (Ft) **Width:** 50.00 (Ft) **True Area:** 510000.0001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/15/2018	OL_4	4 in overlay	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1989	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	Hot Recycled AC, (Funded via AIP)
9/1/1974	ST-SS	Surface Treatment - Slurry Seal	0.00	0.00	<input type="checkbox"/> X	(Funded via AIP)
9/1/1942	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)

Network: Cold Bay Airport **Branch:** 6100 15/33 **Section:** 6100-03 **Surface:** AAC
L.C.D. 8/15/2018 **Use:** RUNWAY **Rank:** P **Length:** 10,200.00 (Ft) **Width:** 50.00 (Ft) **True Area:** 510000.0001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/15/2018	OL_4	4 in overlay	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1989	AR-HO	AC Surface Recycling - Hot	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1974	ST-SS	Surface Treatment - Slurry Seal	0.00	0.00	<input type="checkbox"/> X	(Funded via AIP)
9/1/1942	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)

Network: Cold Bay Airport **Branch:** 6100 15/33 **Section:** 6100-05 **Surface:** AAC
L.C.D. 8/15/2018 **Use:** RUNWAY **Rank:** P **Length:** 10,200.00 (Ft) **Width:** 50.00 (Ft) **True Area:** 510000.0001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/15/2018	OL_4	4 in overlay	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1989	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	Hot Recyled AC, (Funded via AIP)
9/1/1974	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1942	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)

Network: Cold Bay Airport **Branch:** 6100 15/33 **Section:** 6100-06 **Surface:** AAC
L.C.D. 8/15/2018 **Use:** RUNWAY **Rank:** P **Length:** 250.00 (Ft) **Width:** 75.00 (Ft) **True Area:** 13500.00000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/15/2018	OL_4	4 in overlay	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1989	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	Hot Recyled AC, (Funded via AIP)
9/1/1974	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1942	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)

Work History Report

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Pavement Database: Alaska

Network: Cold Bay Airport **Branch:** 6100 15/33 **Section:** 6100-07 **Surface:** AAC
L.C.D. 8/15/2018 **Use:** RUNWAY **Rank:** P **Length:** 250.00 (Ft) **Width:** 75.00 (Ft) **True Area:** 13500.00000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/15/2018	OL_4	4 in overlay	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1989	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	Hot Recycled AC, (Funded via AIP)
9/1/1974	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1942	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)

Network: Cold Bay Airport **Branch:** 6100 15/33 **Section:** 6100-09 **Surface:** AAC
L.C.D. 8/30/2012 **Use:** RUNWAY **Rank:** P **Length:** 500.00 (Ft) **Width:** 208.00 (Ft) **True Area:** 81540.00002 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/30/2012	SR-AC	Surface Reconstruction - AC	0.00	4.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1974	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1942	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)

Network: Cold Bay Airport **Branch:** 6200 08/26 **Section:** 6200-01 **Surface:** AAC
L.C.D. 7/25/2005 **Use:** RUNWAY **Rank:** P **Length:** 1,360.00 (Ft) **Width:** 150.00 (Ft) **True Area:** 204000.0000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/25/2005	OL-AS	Overlay - AC Structural	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
8/1/1974	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1942	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)

Network: Cold Bay Airport **Branch:** 6200 08/26 **Section:** 6200-02 **Surface:** AAC
L.C.D. 9/1/1989 **Use:** RUNWAY **Rank:** P **Length:** 2,490.00 (Ft) **Width:** 150.00 (Ft) **True Area:** 348300.0001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/1989	AR-HO	AC Surface Recycling - Hot	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
8/1/1974	OL-AT	Overlay - AC Thin	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)
9/1/1942	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)

Network: Cold Bay Airport **Branch:** 6200 08/26 **Section:** 6200-03 **Surface:** AAC
L.C.D. 9/10/2004 **Use:** RUNWAY **Rank:** P **Length:** 1,000.00 (Ft) **Width:** 150.00 (Ft) **True Area:** 150000.0000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/10/2004	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)

Network: Cold Bay Airport **Branch:** 6200 08/26 **Section:** 6200-05 **Surface:** AAC
L.C.D. 9/10/2004 **Use:** RUNWAY **Rank:** P **Length:** 360.00 (Ft) **Width:** 165.00 (Ft) **True Area:** 43750.00001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/10/2004	NC-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/> X	(Funded via AIP)

Work History Report

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Pavement Database: Alaska

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
4 in overlay	5	1,557,000.00	0.00	0.00
AC Surface Recycling - Hot	4	913,975.00	0.00	0.00
New Construction - AC	2	162,725.00	4.00	0.00
New Construction - Initial	16	2,966,515.01	0.00	0.00
Overlay - AC Structural	3	382,175.00	0.00	0.00
Overlay - AC Thin	13	2,422,690.00	0.00	0.00
Surface Course - AC	1	26,675.00	0.00	0.00
Surface Reconstruction - AC	3	431,275.00	4.00	0.00
Surface Seal - Coal Tar	1	301,000.00	0.00	0.00
Surface Seal - Fog Seal	1	301,000.00	0.00	0.00
Surface Treatment - Slurry Seal	2	1,020,000.00	0.00	0.00

PHYSICAL PROPERTY DATA

		Pavement		Base		Subbase		Subgrade	
Branch ID	Section ID	Thick (in)	Type	Thick (in)	Type	Thick (in)	Type	Type	CBR
Taxiway A 0100	0100-01	4	P-401	8	P-209	8	P-154	SP-SM F2	10
Taxiway B 0200	0200-01	4	P-401	8	P-209	8	P-154	SP-SM F2	10
Taxiway C 0300	0300-01	4	P-401	6 6	P-401 P-209	20	P-154	SP-SM F2	10
Taxiway D 0400	0400-01	4	P-401	12	FATB	20	P-154	SP-SM F2	10
Term. (S) Apron 4100	4100-01	4	P-401	12	FATB	20	P-154	SP-SM F2	10
Hvy (N) Apron 4200	4200-01	4	P-401	6	FATB	20	P-154	SP-SM F2	10
	4200-05	4	P-401	12	P-209	20	P-154	SP-SM F2	10
Apron 4300	4300-01	9.5	P-401	9	P-209	20	P-154	SP-SM F2	10
Runway 15-33 6100	6100-01	4	P-401	4 4	P-401 P-209	21	P-154	SP-SM F2	10
	6100-03	4	P-401	4 4	P-401 P-209	21	P-154	SP-SM F2	10
	6100-05	4	P-401	4 4	P-401 P-209	21	P-154	SP-SM F2	10
	6100-06	4	P-401	12	FATB	20	P-154	SP-SM F2	10
	6100-07	4	P-401	12	FATB	20	P-154	SP-SM F2	10
	6100-09	4	P-401	6	FATB	12	P-154	SP-SM F2	10
Runway 8-26 6200	6200-01	6	P-401	4	P-209	28	P-154	SP-SM F2	10
	6200-02	6	P-401	4	P-209	28	P-154	SP-SM F2	10
	6200-03	10	P-401	12	P-209	28	P-154	SP-SM F2	10
	6200-05	4	P-401	12	P-209	18	P-154	SP-SM F2	10

Notes:

1. FATB = Foamed Asphalt Treated Base

AIRCRAFT FLEET MIX

No.	Aircraft	Gross Wt (lb)	% Gross Wt on Main Gear	Tire Pressure (psi)	Annual Departures	20 Yr Coverages
1	Cessna 206	3,612	95.00	52	166	435
2	PA-32-300	3,400	95.00	50	2	5
3	S-15	17,637	95.00	59	2	9
4	Cessna 208B	8,750	95.00	75	68	207
5	S-10	10,450	95.00	52	18	66
6	PA-31-325	6,536	95.00	66	1,878	5,436
7	D-15	17,120	95.00	63	621	3,917
8	King Air B200	12,590	95.00	98	35	176
9	Saab 340A	29,000	95.00	55	308	2,390
10	Saab 340B	29,000	95.00	55	543	4,213
11	Shorts 330-200	22,900	95.00	79	2	8
12	Dash 8 Series 100	34,700	94.40	131	162	985
13	Dash 8 Series 300	43,200	94.40	101	4	28
14	D-50	50,265	95.00	80	234	1,882
15	B737-100	111,000	92.00	157	28	216
16	B737-300	140,000	90.80	201	36	276
17	B737-400	150,500	93.80	185	2	16
18	B737-7 MAX	177,500	93.60	204	68	555
19	MD-83	161,000	94.80	195	2	17
20	DC9-51	122,000	94.00	172	3	24
21	B737-800	174,700	93.60	204	176	1,428
22	B777F	768,800	92.40	218	2	43
23	C-130-70	155,000	95.00	105	104	1,206
24	C-17A	585,000	95.00	138	8	167

PAVEMENT CLASSIFICATION RATINGS

Runway	Critical Aircraft	Max Allowable Wt (lb)	Subgrade Mr (psi)	Evaluation Thickness (in)	Pass to Traffic Cycle Ratio	PCR
15-33	B737-7 MAX	376,353	15,000	36.0	1.0	1137/F/B/W/T
8-26	B737-7 MAX	350,054	15,000	34.0	1.0	1023/F/B/W/T

PCR CALCULATION NOTES

- 1% traffic growth assumed.
- Total annual airport traffic assumed to apply for each runway.
- Subgrade strength reduction for frost applied.
- S-10 and S-15 refer to “generic” single gear aircraft modeled in FAARFIELD.
- D-15 and D-50 refer to “generic” dual gear aircraft modeled in FAARFIELD.

REFERENCES

Year	Project No.	Document Title
2016	3-02-0065-011, 57329, 53754	Runway Rehabilitation, Bid Documents
2012	51942, 52811	Geological Report
2011	52811	Geological Report, North Apron Rehabilitation
2011	3-02-0065-010, 51942, 52811	RSA, Apron Rehabilitation, As-Built Plans
2004	3-02-0065-0704, 54192	Crosswind Runway As-Built Plans
2003	54192	Design Study Report
2003	32-1-01413	Geotechnical Reconnaissance Report, Crosswind, Apron
2003	32-1-016480-003	Geotechnical Report
2001	32-1-01413	Memo, Merritt - Hemstreet
1987	55911	Geological Report
1987	3-02-0065-01, 55911	RW 14-32 Overlay, As-Built Plans
1973	8-02-0065-02	Airport Improvements, As-Built Plans
1972	8-02-0065-01	Parking Apron, As-Built Plans