Vessel: Vesteraalen 2018-01 Plate Number: 70 Keys & Comments on AB JD Collected By: Leg: back ration Size Shell **BCS** Well: Haul # Sex Size Shell Bio **BCS** Well: Haul # Sex Bio Spp Spp 3134 3,837 N CB **B** 1 N В7 CO 59.5 000 P N -008 N 000 N CB 38,5 C 7 46.27 C 1 F 2 Column **D** 7 F 000 4853 E1 E 7 000 ਹ 44.96 020 F 7 2 000 N 43.42 C.B M 78 **G** 7 H) 35 160 **H7** M 13 000 A 2 A 8 000 **B2** B8 82 N C 2 N 8 C 8 53.4 8,98 N M Column **D2** D 8 CR E 2 18 3.03 N E8 F 2 1980 F8 DO NOT TAKE SAMPLE - CONTROL WELL N **G2** G8 M M 7 H 2 H8 2 51.54 M 76 10.67 N A3 A 9 43.62 7.46 B 9 **B**3 68 9 C 9 4.90 2 7.41 N C3 Column DO NOT TAKE SAMPLE -CONTROL WELL D 9 N **D**3 40169 8.41 N **E3** E 9 F 9 6,90 M C0 N **G** 3 G 9 N H 3 H 9 A-10 A4 **B** 10 DO NOT TAKE SAMPLE - CONTROL WELL M 34 19.84 **B4** C.10 N CR C 4 0.7 Column 1 D 10 **D4** N CB N **E4** M E 10 2 M 58 F 10 14 **G4** G 10 H 10 A 11 A 5 B 11 7493 C 5 C 11 Column D 11 E 5 E 11 66 F 11 G 5 DO NOT TAKE SAMPLE - CONTROL WELL G 11 H 11 A 12 DO NOT TAKE SAMPLE - CONTROL **B**6 **B** 12 Column 12-P M 0 4 C6 C:12 D 6 2 D 12 N N N **E**6 M E 12 9 M F 6 F 12 G 12 **G** 6

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blood samples	(use 2 collection	olate wells) & 3 l	Blood Smears.		
KEYS:					
Species: CO = C. opilio CB = C. bairdi *or write out "opilio" or "bairdi"	Sex: 1 = Male 2 = Female 3 = Unknown	<u>Size</u> : Carapace Width (mm, tenths)	Shell Condition: 0 = Premolt/Molt 1 = Soft Shell 2 = New Shell 3 = Old Shell 4 = Very Old Shell 5 = Graveyard	Bio (Biometrics): MALE: Chela Height in mm (tenths); FEMALE: Clutch (use standard color, condition & fullness codes)	BCS+: P = Visually Positive N = Visually Negative

2018 EBS Chionoecetes Index Site Hemolymph Collections - Pathobiology 94 Plate Number: 7/ Vessel: **Keys & Comments on** Collected By: AB Leg: back Sex Size Shell Bio Well: Haul# Sex Size Shell Bio BCS Well: Haul# Spp **BCS** Spp A 7 A1 **B** 1 **B7** M 1 C 7 18.80 C 1 Column **D1 D7** E 1 E 7 F 7 G 1 **G7** H 7 H1 A 2 A & B2 130 B 8 77.03 C8 C 2 Column D 2 16 D 8 22 E 8 E 2 N F8 **CONTROL WELL** F 2 DO NOT TAKE SAMPLE N G 8 **G2** H 2 H8 10 A 9 **A3** B 9 **B**3 C3 C 9 Column DO NOT TAKE SAMPLE D 3 CONTROL WELL D. 9 E3 E 9 F 3 F 9 **G** 3 G 9 H 3 H 9 1 A 4 A 10 DO NOT TAKE SAMPLE - CONTROL WELL **B** 10 **B4** 00 C 10 C 4 Column **D4** D 10 E 4 E 10 F 10 F 4 G 10 **G4** H 4 H 10 A 11 A 5 **B** 5 B 11 10 C 5 C 11 Column **D** 5 D 11 E 11 E 5 F 41 F5 DO NOT TAKE SAMPLE - CONTROL WELL G 11 65 H 11 H 5 A 12 DO NOT TAKE SAMPLÉ CONTROL A 6 B 12 **B**6 C 12 C6 Column 10 D 6 D 12 E 6 E 12 F 6 F 12 G 12 **G** 6

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pecies: O = C. opilio B = C. bairdi or write out	<u>Sex</u> : 1 = Male 2 = Female 3 = Unknown	Size: Carapace Width (mm, tenths)	Shell Condition: 0 = Premolt/Molt 1 = Soft Shell 2 = New Shell 3 = Old Shell	Bio (Biometrics): MALE: Chela Height in mm (tenths); FEMALE: Clutch (use	BCS+: P = Visually Positive N = Visually

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2018 EBS Chionoecetes Index Site Hemolymph Collections - Pathobiology Plate Number: 구조 Vessel: 74 - Vest Keys & Comments on SML Collected By: 2 Leg: back Well: Haul # Size Shell BCS Well: Haul # Spp Sex Size Shell Bio **BCS** Spp Sex Bio A 1 A 7 **B**1 **B7** Column 7--C 7 C 1 D 1 **D7** E7 E 1 F 1 F 7 **G** 1 **G7** H 1 H7 A 2 **A8 B2 B**8 C 8 C 2 Column 0 D 2 D8 E8 E 2 F 2 F8 DO NOT TAKE SAMPLE **G2** G8 H8 H 2 A3 A 9 1 **B** 9 B.3 C 3 မှ C 9 Column **D**3 DO NOTITAKE SAMPLE -CONTROL WELL **D9** E3 E 9 F3 F 9 **G** 3 G 9 H 3 H 9 A 4 A-10 **B**4 B 10 DO NOT TAKE SAMPLE C 10 C 4 D 4 D 10 E 10 **E4** F 10 F 4 G 4 G 10 H 4 H 10 A 5 A 11 **B 11** 39.80 000 **B** 5 C 11 000 C5 Column D 11 000 D.5 E 5 E 11 42,6 F 5 F.11 9.40 G 5 DO NOT TAKE SAMPLE - CONTROL WELL G 11 000 H 5 000 H 11 45.35 **A6** A 12 DO NOT TAKE SAMPLE - CONTROL WELL 51.58 **B**6 **B** 12 10.7 C 12 000 C 6 47,00 Column D 6 D 12 60. E 6 E 12 42,44 000

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pecies: D = C. opilio B = C. bairdi r write out	<u>Sex</u> : 1 = Male 2 = Female 3 = Unknown	Size: Carapace Width (mm, tenths)	Shell Condition: 0 = Premolt/Molt 1 = Soft Shell 2 = New Shell 3 = Old Shell	Bio (Biometrics): MALE: Chela Height in mm (tenths); FEMALE: Clutch (use	BCS+: P = Visually Positive N = Visually

Keys & Comments on

Vessel: 94

Plate Number: 73

Leg: 2 Collected By: AB/5MR back Sex Size Well: Haul# Size Shell **BCS** Well: Haul# Shell Bio **BCS** Spp Sex Bio A 1 137 0.0 **B** 1 **B7** -Column 7--**C7 D7** D 1 E1 E 7 F 7 **G** 1 **G7** H 1 A 2 **B** 2 C 2 C 8 Column D 8 **D** 2 C() E 2 E-8 F 2 F 8 DO NOT TAKE SAMPLE - CONTROL WELL 40.15 G 8 **G2** H 2 52.90 2 15.28 A 3 A 9 \mathcal{CO} 900 **B**9 **B** 3 911 C 9 46.26 141 **D** 3 DO NOT TAKE SAMPLE D 9 21.15 CONTROL WELL **E3** 81.26 **H** 3 97 A 4 **B**4 B 10 DO NOT TAKE SAMPLE - CONTROL WELL C 10 C 4 **D4** D,10 **G4** G 10 H4 A 5 B 5 D 11 D 5 E 5 E 11 F 11 DO NOT TAKE SAMPLE G'11 **CONTROL WELL** A 6 **B** 6 B 12 12 C 6 D 6 E 6 00 F 6 F 12

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2018 EBS Chionoecetes Index Site Hemolymph Collections - Pathobiology Vessel: Plate Number: 74 Keys & Comments on Collected By: Leg: back Well: Haul# Sex Size Shell Bio BCS Well: Haul # Sex Size Shell Bio **BCS** Spp Spp A 1 A 7 B 7 **B**1 Column 7-C 7 C 1 **D7** D 1 E 7 E1 F 1 F 7 **G7 G1** H 7 H 1 A 2 A 8 B8 **B2** C8 C 2 Column D 8 D 2 E 8 E 2 DO NOT TAKE SAMPLE - CONTROL WELL F 2 F 8 G 8 G 2 H 8 H 2 A 3 A 9 **B** 9 **B**3 C 9 Column **D**3 DO NOT TAKE SAMPLE - CONTROL WELL D 9 E 9 **E** 3 F 3 F 9 **G** 3 G 9 H 3 H 9 A-4 A 10 **B4** DO NOT TAKE SAMPLE - CONTROL WELL **B** 10 C 10 C 4 Column **D4** D 10 E 10 **E4** F 10 F 4 G 10 G 4 H 10 H4 A 5 A 11 **B** 5 **B** 11 C 11 C 5 Column D 5 D 11 E 5 E 11 F5 F 11 G 5 DO NOTTAKE SAMPLE - CONTROL WELL G 11 H 11 H 5 DO NOT TAKE SAMPLE - CONTROL WELL A 6 A 12 B 12 **B**6 C 12 **C6** Column D 6 D 12 E 6 E 12 F6 F 12 **G** 6 G 12

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ou see a pos	itive King Crab, 1	elmessus or Er	macrus please take	a photo,	
	(use 2 collection	olate wells) & 3	Blood Smears.		
KEYS:					
pecies:	<u>Sex</u> : 1 = Male	Size:	Shell Condition: 0 = Premolt/Molt	Bio (Biometrics):	BCS+:
O = C. opilio B = C. bairdi	1 = Male 2 = Female	Carapace Width (mm,	1 = Soft Shell	MALE: CheJa Height in mm (tenths);	P = Visually Positive
	3 = Unknown	tenths)	2 = New Shell	FEMALE: Clutch (use	N = Visually
or write out			3 = Old Shell		
or write out opilio " or oairdi"		1	4 = Very Old Shell	standard color, condition & fullness codes)	Negative

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2018 EBS Chionoecetes Index Site Hemolymph Collections - Pathobiology

Vessel: Vessel: Vessel and Pulphonecetes Keys & Collections - Pathobiology Plate Number: 75 Keys & Comments on Collected By: WCL Leg: 03 back

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	3 5	12.0	des restriction	M	86.63	5-	3,77	Billian (A)		B 11			IM	0384	1	921	
<u> </u>	C 5	že	程(6)	14	76.6		1372	District Control	11	C 11		1350	17	28,78	2	10.04	
) 5.	E T	ý	M	8776	2.1.Z.	7.20	S. Sair	Column 11	D 11	У.		IM	7534	2	1684	
ξL	= 5	3	133	M	90,20	響影	15.22		ng Di	E 11			M	45.55	2	11.74	. 13
	75	精	差	M	9268	純糖	1681		P	F 11			M	5/.3	2	843	
C	9 5	DO N	OT TAK	(E SA	MPLE -	CONT	ROL WE	LL		G 11	, a	2	M	61.53	2	11_14	
ALL PARTY	15	栖 春季草	the last	M	41.69		4.67	MONAL PO	i	H 11	17	in the second	M	6547	2	1214	
<u>.</u> [7	46		1	F	61.84	1	000		,	A 12	DON	OT TAK	Œ SA	MPLE -	CONT	ROL WE	ELL
. —	3 6			F	4284	1	000,			B 12	and the second second second		M	65 53		125	WE S
	C 6	12		M	9751	2.12	1678	5	12-	C 12		N CORNEL	14	59./3	2	10.10	27/20
┋┠┇	0 6	V	V	F	29.99	Į	000			D 12		& Takes	M	5454	2	8.60	-
¬ ⊩	E 6	199	Ch	M	42.00		4.73		Column	E 12	40 K S	CALL PROPERTY.	Ħ	33.47	2	9/3	16
ĭΗ̈́		20	CB CB	M	97.25	2	13.41	\vdash	ပို	F 12	V	V	M	51.31	2	9.79	
! -		2/01	(4)	M	28114	1	3.43			E-2000-1-1	0 4	Co	M	77.79	2	17.96	
. —	3 6 J g					7		$\vdash \vdash \vdash$		G 12 H 12		6	H	4931	2		5/00 E
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ou see a pos	itive King Crab, T	Telmessus or Eri	macrus please take	a photo,	
				<u> </u>	
lood samples KEYS:	(use 2 collection p	plate wells) & 3 [Blood Smears.		
oecies:	Sex:	Size:	Shell Condition:	Bio (Biometrics):	BCS+:
O = C. opilio	1 = Male	Carapace	0 = Premolt/Molt 1 = Soft Shell	MALE: Chela Height in mm	P = Visually
	2 = Female	Width (mm, tenths)	2 = New Shell	(tenths); FEMALE: Clutch (use	Positive N = Visually
3 = <i>C. bairdi</i> or write out opilio " or	3 = Unknown	continu	3 = Old Shell		

Plate	Number:	8	SO .	_,		V	essel:	16	2				Kevs &	Comn	nents or	1
Col	lected By:	TJ	/J.)	•		Leg:		2				back	20121543		D
We	ll: Haul#	Spp	Sex	Size	Shell	Bio	BCS		Well:	Haul #	Spp	Sex	Size	Shell	Bio	BC\$
A	1 114	CB	18	45,94	2	(D-20)*	17-		A 7	11	CB	M	26.54	2	3,10	
B	1	Married of	P	4970	\mathcal{L}	موري			B 7	(17	CM	F	25.56	2	000	
- C.		100 3 100 Aug	Μ	34.81	as.	4.84	6	7-	C 7	-118	CB	M	91,57	3	16.09	-
E D	1	製幣	F	4282	FOF	000	State of the	- WI	D 7	118	CB	M	94.64	3	17.38	-
Column		in the	8	33,12	建	000		Column	E 7	118	CB	M	91,92	3	552	-
Ĭ Ė1	1 3	省	1	51.37	對江西	550	THE R	١	F-7	118	CB	M	36.29	2	4.44	_
G	日整排 2套		M	8664	、以為	13/2	1		G 7	118	CB	4	93.32	9	17.74	-
' IH	1.] 建設等表	SEE EE	M	48 30	24	(7)	The Car	•	H.7	719	CB	M	26.94	2	2,84	
A A	2		M	391.08	2	5 34)	-		A 8	禁 李維	CB	-	92.04	3	18.05	-
B 2	2		1	5910	9	wo	÷		B8		CB.	A	24.52	2	000	-
2 C	2		5	54,67	2	600	_	8	C8	27	CB	M	96.12	. 2	7.62	-
בַּ <u>ר</u>	2		M	5.3.44	2	6.77	-	直	D 8	127	CB	M	\$1.33	2	3 858	~
D E	2	1	W	477	1	571	-	Column	E-8	127	CB	M	87.97	2	53.43	
Ĭ <u>F</u>	2	CB	\sim	5539	2	6.55	*HOLDER	Ĭ	F8	DO [®] N	OT TAK	E SA	MPLE -	CONT	ROL WE	ELL
G:	2 115	CB	M	1268	, V	922	1		G 8	Wan a	CB	M	91.46	3	18	1.
' <u>H</u> 2	2 115	117	M.	61.87	2	7.99	~	171	H 8	127	CB	M	9656	2	R.25	^
A	3	204 Add	M	590C	F. Jun	7,117	Constant		A 9	127	CS	~	34.28	2	4.45	-
В.	3	ناجيا	網	72.93	Q	000	Ser in		В9	127	CB	~	30.86	2	376	
6 C	3		F	640		が記録	1	မ်	C 9	127	B	\sim	69.50	2	9.49	7
<u>ξ</u> D:	3 DO N	OT TAK	E SA	MPLE -	CONT	ROL WE	LL	Column 9	D 9	127	Cs	W	76.05	9	897	_
Column E	3	學學學	M	649	到过	91109	HINE	혓	E 9	150	CB	M	98.25	3	1749	
F	31 21 25	级规	M	8895	2	11.12	C.	Ĭ	F9	177	CB	n	68.55	2	9.05	
G			F	72.04	£2.	1000	ê L et		G 9	127	CB	M	78	2	10,13	-
H	3 💥 ి	POR NO.	P	71.85	TIO	0000	1000	'	H 9	127	CB	M	32.77	2	4.83	~
- -A-4	4			72.11	-2	000			A 10	117	_CB_	M	95.52	3_	17:40	Her
B4	_		W	5938	9	7.06			B 10	DQ.N	OT TAK	E SA	MPLE -	CONT	ROL WE	LLzz
4 C			\sim	56.03	3	8,45	1144	9	C 10		US	#	69.23	2	200	95.1
Column	4		F	78.63	2	COC	destroy	Column	D 10	127	CB	M	99.96	2	1401	-
향토4	4		M	80.66	2	9,48	100	딍	E 10	127	CB	M	5.97	100	5.09	_
] <u>F</u>	4		F	63.03	2	000		Y	F 10	127	CB	7-	63.88		000	100
G 4			P	61.98		000			G 10	127	CB	M	29.62	2	3.65	_
' <u>H</u> 4			1	76.18	2	000	Nac.		H 10	127	CB	F	32.79	2	000	
A		WER STO	W	0.7	3	30:15			A 11	127	CB	M	32 14	2	4.16	
B :	The second second second	4	JE	77,51	22	800	Section.		B 11	167	C 13	F	32.82	2	0(7)	-
S C		CB	1.50	7514	D.	000	- deligio	Column 11	C 11	727	CB	M	97 CZ	3	12.97	-
Column		UG	Mis	10172	0	48 86		Ĕ	D 11	127	CB	M	30.86	2	3.67	72-03-7
S E	CONTRACTOR ACTIVISION AND RESIDENCE	10 mg/m	M	93.17	5 5 m	10.40	A T	증	E-11	127	EB.	M	28.25	2	3.68	-
显示	· 新国市 多级	海菜	M	ULYE	3	£40 (S)		Ĭ	F 11	127	CB	F	85.25	2	000	-
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B.(\longrightarrow	M	47.45	a-	17:55	(7)		A COLUMN TO SERVE	127	OR	STATE OF	31.91	2	000	-Marin
6 C	+ +		M	70.12	2	8.7		112	C 12	16	0.6	=	29.13	2	000	
E D	1	 	M	101.33	3	17.36	-	של	D 12		T. R.	4	90.72	3	1466	See-
Column			r	77.90	2	000	_	Column 12	E 12	128	*CIB	M	100.13	3	16.73	-
			5	72.03	2	000		Ĭ	F 12	128	CB	F	55.17	2	000	-
G		(A)	W	72.22	3	14.78	-		G 12	128	CR	M	41,25	2	3.89	
, TH	6 17	CB	W	27:73	2	3.49	-	<u> </u>	H 12	1 28	CR		43.84	2	000	-

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				. a photo,	
ood samples (EYS:	(use 2 collection	plate wells) & 3 I	Blood Smears.		
ecies: = C. opilio = C. bairdi write out ilio " or	Sex: 1 = Male 2 = Female 3 = Unknown	Size: Carapace Width (mm, tenths)	Shell Condition: 0 = Premolt/Molt 1 = Soft Shell 2 = New Shell 3 = Old Shell	Bio (Biometrics): MALE: Chela Height in mm (tenths); FEMALE: Clutch (use standard color, condition &	BCS+: P = Visually Positive N = Visually Negative

2018 EBS Chionoecetes Index Site Hemolymph Collections - Pathobiology Vessel: Alaska Knight 2018-01 Plate Number: Keys & Comments on Collected By: Leg: back Well: Haul # Size Shell **BCS** Well: Haul # Spp Sex Size Shell Bio **BCS** Spp Sex Bio 23.22 CB A 1 A 7 33:15 CB **B** 1 23.54 **B**7 11 7 000 11 CB 30.85 C 1 C7 500 D 1 **D7** |U|CB 55 000 CB E 1 E 7 111 34. 45 1 000 F 7 CB 32,08 F 1 11 111 30.8 G 7 **G** 1 H 1 H7 111 M 4199 4.80 A 2 A 8 14 99 33.50 **B** 2 B.8 CB 2 93 C 8 C 2 Column D 8 2 4.17 D 2 000 C13 32 000 E 8 E 2 31.47 5 DO NOT TAKE SAMPLE -**CONTROL WELL** F 2 F8 G 8 CB 41.90 (3) **G2** H 2 30 H 8 CA ٥٥٥ A 3 A 9 CB 55 4.48 33.8 **B**3 **B**9 2 000 C 3 C 9 4.46 89 Column **D** 3 DO NOT TAKE SAMPLE - CONTROL WELL **D9** CB 37.69 000 1/1 E 3 E 9 113 2 28 000 F3 F 9 CB صحی G 3 G 9 000 H 3 H 9 A 4 A-10 **B4 B** 10 DO NOT TAKE SAMPLE **CONTROL WELL** C 10 30 C 4 46 000 Column D 4 D 10 93 00 000 22 **E4** 000 E 10 F 10 F 4 5.61 6 2 **G4** G 10 92 H 10 H4 0,36 A 5 A 11 14.97 B 11 13 88.25 44 **B.5** C 11 C 5 15,25 Column D 11 D 5 8 64 000 67.76 7 7.97 E5 E 11 113 89.41 F 5 F 11 3 117 DO NOT TAKE SAMPLE - CONTROL WELL 9.49 G 5 G 11 113 H 5 H 11 113 16.50 A 6 22.47 A 12 DO NOT TAKE SAMPLE - CONTROL WELL 3 **B**6 **B 12** 12.0 C 12 ro 20 C 6 Column D 6 D 12 43 050 E 6 CB E 12 N 2 7.8 F 12 F 6 600 G 12 8 G 6 91

*or write out "opilio" or "bairdi"

tenths)

3 = Old Shell 4 = Very Old Shell 5 = Graveyard

FEMALE: Clutch (use standard color, condition & fullness codes)

N = Visually

Negative

١		Number: cted By:	5 5/6 J F	173			- V	essel: Leg:		2			-	Keys 8 back	Comn	nents or	
		Haul #	Spp	Sex	Size	Shell	Bio	BCS			Haul #	Spp	Sex	Size	Shell	Bio	BCS
٠.	A 1	110	CS	F	25-7-0	4/190	000	124	. 1	A 7	. 39	00	F	<u>د) اله</u>	2	Ctro	
١.	81	19.0	rs	M	29 27	夏	418	品质名。		B 7	140	(0		7(7)	2	1X Y 3	12.00
	C 1	130	CB	-	31.07	Men	900	15.16.		C 7	140	30	M	53.4	2	8 95	
Ę,	D1	120	CB	M	34 54	- A	3,27	gradia	ָ עַרַ	D 7	146	(co _	M	76.56	7	15.37	
Column	E 1	報告が	CF GB	M	フィフィ	(# S)	到一次		Column	E 7	146	100.2.3.1	~	76.59	3	7736	- 80
ပို	F 1	* /	6	-	755#44	20 miles	080	教育を持ち	ပို	F 7	110	Co	M	55.85	1	8.97	-
	et a service	17.1	0.0	-	1.20	100	The Party of the State of the	بتسب		G 7	146	Co	M	622	7	11.55	A
	G1 H1	724	Co	M	62.04	45	1250			H 7	140	154	10	52.40	7	7.92	1
	A 2			~	52 99	2	13 29	1000			Ç O	()	300	54.66	à	9 94	
	-	134	Co	Μ	36 77	5	11.25	_		A.8 B 8		Ca	M	65.41	-	CHEST CONTRACTOR	77
	B 2	124	Co	M	C9 /	2		-		C8	140	-0-	1-1	-	2	10.000	
2	C2	194	-	W	65.85	0			Column 8-	D8	140	Co	M	86.78	2		X 22 6
Column	D 2	134	(0			2	16.75		Ī	10.00	3384/	CO	P	6283	3	11.67	773
ပို	E 2	121	$\frac{\lambda_0}{\lambda_0}$	~^	(408		14.34		ပို	E8	2240	CG	M	> 6126	CONT	12.51	-
ă.	F 2	134	$\delta \sigma$.00	68.40		14.74	_		F8	DO N	WINDS	E SA	MPLE -	CONTI	ROL WE	.LL
	G 2	1 39	Co	1/~	6411	2	13 61	_		G8	190	(e)	M	547L	-6	9.05	(T)
	H 2	174	<u>(</u>	///	81.69	5	11.60	1.0		H 8	140	CO	110	48.94	-	737	
	A 3	2 3	-CO	1/3	5324	1	10.86	FRITZ POW	9 <u>.</u>	A 9	140	Ca	M	64 X	2	11.34	-
	B 3	100	CO	M	72.57	3	1809	day 2		B 9	140	CO	M	63.74	2	13.58	
_დ	C3	34	(L)	M	66.09	10-	15.29		Column 9-	C 9	146	Co	M	5496		-	-
Column	D 3	DO N		ESA	MPLE -	CONT	ROL WE	LL	L L	D 9	140	CO	14	80.4		16.01	
Ö	E3	李海	Cts	W	7745	15	1662		20	E 9	146	C6	1~	520	53	11.60	20
) [F3		PA	W	33.57	2	1413		Ĭ	F 9	CP	10	M	7858	2	18.45	-
	G 3	134	TO.	M	6574	ENE	15.93			G 9	140	CO	M	65.83	2	10.74	-
4	H 3	134	(2)	M	7580	2	18 30	-	•	H 9	140	CO	M	60.71	2	9.18	-!
-1	A 4	134	<u>CO</u>	-54	36.65	3	12.30			A-10	140	-0-	M	1.142	2	12-18	
i	B 4	134	I CO	M	60.46	13	1276	-		B 10	DO	OT TAK	E SA	MPLE -	CONT	ROL WE	LL
4	C 4	134	- UO	M	\$.72	3	1369	-	10	C 10		CO	M	60,00	2	8 97	-
Ē	D 4	14	Co	M	6476	2	13.68	+	E L	D 10	42	CO	13	65,64	§ 2	9.86	100
Colum	E 4	139	-CO-	M	62.33	-2	1109	~	Column	E 10	142	CO	M	5967	2	8.99	T-road
ď	F 4	1	8	F	4893	2	060	-	ပ	F 10	142	CO	Ч	57.46	2	10.89	-
	G 4		CO	8	56.44	l-	000	/		G 10	141	co	M	5627	2	8.28	1110
ı	H 4		Co	M	50.63	2	1040	1	1	H 10		100	M	55,26	2	10.51	
1	A 5	E	Co	F	53,94		000		- 1	A 11	142	0.0	M	63.68	2	9.48	-
	B 5	TE IN CHEST	Co	F	5775	12	000	7 54		B 11		60	M	66.26	2	10.04	_
5	C 5	を は は は は は は は は は は は は は	ලින	M	5715	2	980	Maria E	1-	C 11	142	00	M	51.67	2	9.27	
m	D 5	illan	Ce	1	54 89		#00 b		Column 11	D 11		(0)	M	59.45	2	764	4
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ပု	F/5	集	Car	素/ソ	5396	123	3.07	La.	ပို	F 11	142	00	11	5303	3	8.46	÷==
	G5	DO N	OT TAK	E SA	MPLE -	CONT	MC 1 4	ELL		G 11	142	CO	14	53.62	2	9.78	Array I
i	H 5	1201	460		65.70	1000	1250	PART .	ı	H 11	142	71	M	5702	2	9,70	Min
	A 6	(7)	(0)		59.73		000	_		A 12		OT TAK	FSA				1186
	B6	 	60	E	50.59		000	_		B 12		CO		59.23	2	11.87	36
	C 6	\vdash	60	M	67.13	2			2	C 12	Married Company of the	00	M	58.10	43	10.02	1 1001
) L	D 6	 		$\overline{}$	53.87		(3.10	-	n 1	D 12		^ -	7. 10	0.00			10.0
Column	-	$\vdash \vdash$	CO	F	7	·	000	-	Column 12	1 Table 2011	142	60	M	70 67	2 2 10	13.30	
ပို	E6	 	Co	F	51.50		000	0	S	E 12		(1)	M	52.66	2	8.97	1 2 2 2
	F6	\vdash	Ğ	1	(55.64)		11.46		-	F 12		(1)	~	544	Brah.	10.11	10.00
	G6 H6	1	(V	F	49,43		10.17	-		G 12 H 12	142	CA	1	43 23		7.68	
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ood samples <eys:< td=""><td>(use 2 collection)</td><td>olate wells) & 3 i</td><td>Blood Smears.</td><td></td><td></td></eys:<>	(use 2 collection)	olate wells) & 3 i	Blood Smears.		
	<u>Sex</u> : 1 = Male	Size: Carapace Width (mm,	Shell Condition: 0 = Premolt/Molt 1 = Soft Shell	Bio (Biometrics): MALE: Chela Height in mm (tenths);	<u>BCS</u> +: P = Visually Positive
pecies: D = C. opilio B = C. bairdi r write out pilio " or airdi"	2 = Female 3 = Unknown	tenths)	2 = New Shell 3 = Old Shell 4 = Very Old Shell	FEMALE: Clutch (use standard color, condition & fullness codes)	N = Visually Negative

	20	18 EB	S Chio	noecet	es Ind	ex Site	Hen	nolym	ph Colle	ctions	- Path	obiolog	lУ		
Plate Number:	8	3		_	·	vessel: _		62				Kevs 8	& Comn	nents o	n
Collected By:	Evin	4 Vo	ressa	_		Leg:	3	,	-	•		back			5
Well: Haul#	Spp	Sex	Size	Shell	Bio	BCS		Well:	Haul #	Spp	Sex	Size	Shell	Bio	ВС
A1 162			25.94		000	· Series	1	A 7	163	C.b.	F	37,80	2	000	- 22
81	in view with	F	47.07	2	000			B 7	1	1	F	46.33	1	000	-

	******	Haul#	Spp	Sex	Size	Shell	Bio	BCS
-1	A 1	162	C.b.	F	25.94	2	000	一度
	B 1	機械		T	47.07	2	000	1
Column 1	C 1		200	K	31.41	2	000	10.2
틸	D 1	體劑	A	F	24.88	2	000	7
칡	E1	图4 学	8	M	33.42	2	3.90	State of the
Υ۱	F1	* 17	等等	H	25'91	2	000里	H
	G1			M	4374	5	5.19	67 -0150 5 - 5 - 60
1	H 1	建/註字		F	49.26	9	000	17. B/V
1	A 2			F	4634	8	000	_
	B 2			M	2597	4	374	
싵	C 2			F	32.73	2	000	
Column 2	D 2			F	22.91	2	000	+
칡	E 2			F	41.85	9	000	4
Υl	F 2			F	31.15	J	000	
	G 2			Μ	24.40	d	320	-
i	H 2			F	2440	7	000	
ار	A 3,	演出基本	100 A	2 30	25:46	2	000	E Property
	B3		49	P	33.78	2	000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Column 3	C3	南北		M	26.38	2	禁一张	7
틾	D 3	DO N	IOT TAK	E SA	MPLE -	CONT	ROL WE	LL
릵	E 3	63	C.b.		38.76	2	000	
Υl	F 3	4	· · · · · · · · · · · · · · · · · · ·	M	55.41	2	6.25	BATE (AS
Н	G 3			F	44.01	2	000	
'	H 3	等 计	609 256	F	45.79	12	000	-
П	A 4			M	46.68	2	5.74	}
Ш	B 4			Μ	45.74	2	5.38	-
4	C 4			F	44.10	2	000)
튑	D 4			W	43.61	2	5.85	1
-Column	E 4			F	44.68	2	000	_
Υl	F 4			Μ	46.69	2	5.68	-
	G 4			Μ	46.92	2	5.66	1
1	H 4			F	45.66	2	000)
ا ا	A 5	et i		ME.	40.97	2	000	
$\ \ $		CICLE HEAR		M	41.69	2500	4.92	h _{e s} person
	C 5	EM 55	統	W	42.79	Z	5.09	MARCH TO
틸	D 5	磁温量	32-31	M	4329	12	5.27	
Column	E5	国司 起		M	41.90	21	5.48	Brief B
Υl	100	10° 1	Librari	W	38.92	372	4.78	PHENON IN
	G 5	DON	OT TAK					
1	H 5	开发	部分	*	11-23		000	100 P
ار	A 6	,_L		W	44.02	2	5.34	_
	B 6	163	C.b.	F	44.38	2.	000	
اع	C6		mm.	F	43.70	2	C00	
ב	D 6			=	44.27	2 2 2 2	000	-
-Column 6	E 6		E	F	49.06	2	000	_
۲Ι	F6		3	F	42.96	2	CCC	
	0.0	1	Ì	Μ	64.93	Z	8.0%	
	G 6	36.		***	0	the same	0.00	

	Well:	Haul #	Spp	Sex	Size	Shell	Bio	BCS
	A 7	163	C.b.	F	37.80	2	000	-
	B 7)	-	L	46.33	2	000	-
7	C 7			W	45.41	2	5.42	777
m	D7			F	44.70	2	000	-
Column	E 7		1	F	45.22	2	000	-
Ÿ	F 7			F	44.85	2	000	_
	G 7	ł		Μ	46.02	2	5.72)
İ	H 7	**		F	44.42	2	000	
	A 8	20 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1		Μ	40.77	2	4.97	
	B8			, Fig.	45.22	2	000	
8	C8	l):	E.	F	53.19	2	000	_
Column	D8	j.	100	۸.	41.23	2	4.60	-
딍	E 8			E	46.49	2	000	==
9	F8	DON	OT TAK	E SA	MPLE -	CONTI	ROL WE	LL
	G8	7.00	9-20-	M	44.54	2	5.03	7,51
- 1	H 8	N. 500	Marian Parantal	#P#	50.23	2	000	
	A 9	163	C.b	F	39,60	1	000	
5	В9	178	C.b.	W	57.71	2	6,98	-
-6	C9	1	1	F	46.74	2	000	1
Column 9-	D 9			Μ	64.22	2	8.38	+
olui	E9			F	43.37	2	000	
Ÿ	F9			Ē	46.92	2	000	-
	G 9			F	47.11	2	000	
	H 9			M	50.19	2	6.07	
	A 10	<u> </u>	す為出 5 3	.M.	61.31	2	7.75	
	B 10	DON	OT TAK	F SA	MPLE -	CONT		The state of
0	C 10		g-54,740		48.28	2	000	£ — :
Column 10-	D 10	250	200	F	50.91	2	000	_
Jun	E 10		ker k	M	40.12	2	Chela	
ပို	F 10	NA SEC	16.10	M	50.46	2	6.37	
	G 10	新年 葉 か	Esa tres	F	46.41	2	000	0000
	H 10			E	48.62	2	000	_
	A 11	163	C.b.	М	38.42	2	5.02	_
	B 11	16.5	1	<u> </u>	44.00	2	000	-
1	C 11			F	43.45	2	000	
Column 11	D 11			F	47.51	2	000	-
ľuľ	E 11	 		M	41.85	7	497	
ပို	F 11	1		F	45.76	2 2	4.87 000 5.56 5.82	
	G 11	179	C.b.	Μ	46.49	2	5.56	
I	H 11	163	C.b	М	42.9	2	5.82	
	A 12	DO	OT TAK	ESA	MPLF -	CONT	ROL WF	2=
	B 12	200 震经	IOT TAK	E	4476	7	CCC	
2	C 12	K34 4.54	43 m / 4	E	43.41	2		المسالة المسالة
in 1	D 12	10 7.S.	量差別 (1)	M	42.73	2	5.26	5 Z
Îur	E 12	THE PARTY	· · · · · · · · · · · · · · · · · · ·	T.	41.73	2	000	
ပို	F 12	ALEXAN MANA	St. Ser. Land		41.33	2	acc	
Column 12	G 12	5-11- 2-5-15 5-11- 2-5-15	100 m			2	ac	1000
	H 42	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Xango Fine Xango Fine	M	43,90	7	5.44	STANCE.
	1.4.12	F-10-10-10-10-10-10-10-10-10-10-10-10-10-	E SCOT	107.7-1-	interior		0.11	

	+ .1				
	4.2	2		16	
Wells Be	5-48 arc t	o make up	for LZO cr	abs at several othe	stations
				, mixed with s	
	115				
V	ishally po	isitive c	rab IN bast	cet, dead crabs,	removeds
49 - Non	Random Sa	m Dle cra	6 molted in	basket took sample	o heause
we lav	rely get in	1461 31	1 Clab	Not visually po	ントルリエ
				Maul 178	
11- F1Z	to make 1	pfor hay	1 179		
		(
=:					
		<u> </u>		*	
				270-27	
				12	
	WAS				
3-3-6			£	(X	
	66.	, rinse plate witr	i tresh water and bio	ot ary	
a cap pops o	ff: put cap back on	•			
		·	macrus please take	a photo,	
you s ee a pos		elmessus or Eri	macrus please take	a photo,	ã
you see a pos blood samples KEYS:	sitive King Crab, 7	elmessus or Eri	macrus please take		
you see a pos	sitive King Crab, 7	elmessus or Eri	macrus please take	Bio (Biometrics): MALE: Chela Height in mm (tenths); FEMALE: Clutch (use standard color, condition &	BCS+: P = Visually Positive N = Visually Negative

Plate Number:	8	4		_		essel:	162				& Comm	ents o	ก
Collected By:	Env	1+ Va	nessa	<u>-</u>		Leg: _	3			back			D
Well: Haul#	Spp	Sex	Size	Sheli	Bio	BCS	Well: Haul#	Spp	Sex	Size	Shell	Bio	BCS

	Well:	Haul#	Sp	Sex	Size	Shell	Bio	BCS		Well:	Haul#	Spp	Sex	Size	Shell	Bio	BCS
	A1	163	C.1	y. F	13.84	2	000		1	A 7	163	C.b	Μ	32,53	2	3,51	100
	B1	*	114	F	47.89	2	000	-		B 7	4	1.	M	34.84	2	3.89	+
+	C1	(4) (4)		M	42.33	2	4 88	1	7-	C 7		I I	Μ	36.34	2	3.15	_
Solumn	D1	韶	À	M	45.72	2	5.27		Column	D 7	1	1	F	42.46	2	COO	
증	E1	要数 200	機制	M	41.20	2	4935	1	링	E 7	lo lo		М	41.52	2	4.67	
٩	F 1	W.	Barrier III Salari	新聞	44.72	2	OCC		0	F 7		1	W	35,20	2	3.93	_
	G1	經期 編		E F	43.94	2	CCG	学学		G 7	W.	1	W	36:00	2	4,13	_
•	H 1	透照 35	12.1	M	40 20	2	4.06	-	į	H 7			Μ	44.91	2_	4.93	_
	A 2			M	40.69	2	4.54	. 777	t	A 8	411	411	M	41.87	2	4.72	
	B 2			F	41.16	2	000	-		B8			F	33.85	2	COO	7
2-	C 2			_	36.65	2	000		&	C 8	摆去		F	44.48	2	CoO	-
m	D 2	163	C.V). M	42.26	2.	4.90	0.035	olumn	D 8	JAM		M	42.56	2	4.49	-
Column	E 2	1	1	M	49.95	2	5.37	-	흥	E 8	e			44.27	2	OCC	
Y	F 2	1 1		M	41.20	2	4.64	-	9	F8	DO	NOTITAK	E SA	MPLE -	CONT	ROL WE	LL
	G 2			F	46.40	2	OCU	-		G 8		.0	Μ	43.45	Z	4.57	-
ı	H 2			M	43.67	2	4.72			H 8	S. 232		M	41.61	2	4.27	=
	A 3	10 de 2	1710	F	45.03	2	CCC	C St. Amples (10)		A 9			M	42.50	2	4.86	-
	B 3		101	š M	40.27	0	4.49	20	· .	В9			F	35.69	2	000	-
3	C 3		G 27 4	A M	46.07	125	9.66	140	6	C 9		-	M	41.63	2	5.01	
'n	D 3		TTO	AKE SA	MPLE -	CONT	ROL WE	The		D 9	187	C.O.	M	33.30		5.01	~
olumr	E 3	建新 糖	52-146	爱 40	42.13	2	000	744	olumn	E9	- 1	1	F	44,51		000	-
Ÿ	F3	6 4	455 73	W	36.18	2	9.11		Ϋ́	F 9			F	32.58	2	000	
100	G 3	Per Military		CON SEC.	42 16	22	000	TAGE OF	1	G 9			F	33.73		000	
ı	H 3	46	55 6	M	43.40	2	5.09	1	3	H 9			1=	30.47	2	000	-
	A 4	100000000000000000000000000000000000000	Sheeth Sc. o.		43.75	2	006	77-10-10-1		A-10	188	0.0	1/2	6347	-2-	10.60	-
	B 4			F	44.66	2	000			B 10		NOT TAK	FSA	MPLE -	CONT		11
4	C 4		 	M	45.30	2	4.94	-	10-	C 10	480.80		M	78.54	7	18.40	
ù	D 4			F	43.09	2	CCO	1000		D 10	Ro la	2000 - A	M	Q7.38	2	21.70	-
Column	E 4	i		1	39.60	2	000		olumn	E 10	5	3	M	71.60	2	18.43	-
ပို	F 4	 		TM	37.84	Z	4.15		ပို	F 10	701	£ 3 4 5 4	M	73.40	2	17.37	_
	G 4	 		T/M	42,49	2	4.87	-		G 10		File con	M	75.15	2	1896	1.000
	H 4	(2)		1 W	40.00	2	4.71	90000		H 10		Figure 7.55.	M	65.02	2	12.41	
	A 5	18 1 a 1	OST A		42.50	2	000			A 11	Separate of the Control	St. days of the days	M	74.00	Z	17.90	-
	B 5		254	M	41,85	2	4,87	1455393		B 11	 		M	82.98	2	20.28	_
5	C 5	STATE STATE	Sales IS	/J	42,60		CCO		-	C 11			17.1	59.23	Z	000	+
	D 5	The state of the s	543 J	M	44.43	122	15712	即逐年	Column 11	D 11	 		M	61.14	2	10.95	
Column	E 5	7 1	7		U7 72	第つ学	1000	TATE OF	5	E 11	 		M	68.16	2	13.00	_
ပို	F.5	高等		S W	40.34	27	*4.87	Zan b	ပို	F 11			M	69.76	2	16.15	
	G 5	DO I			MPLE -	CONT				G 11			F	55.86	Z	OCO	
ı,	H 5	一百	1262	10 . 1 . 1	49,72	2	1000	<u> </u>		H 11			M	76.32	2	13.16	
		A KETICE HIS DI	निर्देशिक वर्ष	M F		2	5.42	9715 95			rio t	VOT ITAK				<u>'</u>	1 1
	A 6			- '	46,37		000	-2010	9/	A 12			14 7 7 7	I company	2	1	<u> </u>
341	B 6		4	F	43.41	2		- (2	B 12		82.7	F	60.00		000	
ın 6	C 6		-	M	40.11	_	4,13	-	-Column 12	C 12	100 m	#66 b 1505	/M	68.56		11.90	- T
Column	D 6		 	M	40.13	2	4.36		Ę	D 12	1.26cc 13.3	報告() (基項)	M	70 00	2	13.12	
Ş	E6		 	- M	40.68	2	4.61	7	[S	E 12		100 m	M	68.86	2	12.26	1
	F6		$\vdash \vdash$	<u> </u>	40.96	2	4.56	-	Ĭ	F 12	Service Service	但在100mm	M	80.04		15.30	
	G 6	9	-	<u> </u>	43.20	2	5.32	- 10		G 12	10-12-12		M	69,00	2	12.80	+
	H.6		-1	-15	43.98			1	1	H 12	Fred		\M	76.28	2	17.62	-

A1- C2	to make	VD For	haul: 179	j	
02 - C	9 to ma	ke up f	ar VesterAl	llen shartage	
		=			
			8		9.0
				<u> </u>	
	52,618	88 0		31000	
		ni.		4	
				200	10-10-C
819-					
a cap pops of	f: put cap back on	, rinse plate with	n fresh water and blo	ot dry	
you see a posi	itive King Crab, T	elmessus or Er	imacrus please take	a photo,	
blood samples KEYS:	(use 2 collection	olate wells) & 3	Blood Smears.		
pecies:	Sex:	Size:	Shell Condition:	Bio (Biometrics):	BCS+:
CO = C. opilio CB = C. bairdi for write out opilio " or	1 = Male 2 = Female 3 = Unknown	Carapace Width (mm, tenths)	0 = Premolt/Molt 1 = Soft Shell 2 = New Shell 3 = Old Shell 4 = Very Old Shell	MALE: Chela Height in mm (tenths); FEMALE: Clutch (use standard color, condition &	P = Visually Positive N = Visually Negative

Plate Number:	85		Vessel:	162	K	eys & Comm	ents on
Collected By:	Erint Var	essa	Leg:	3		ack	D
			 		1		

	Well:	Haul#	Spp	Sex	Size	Shell	Bio	BCS		Well:	Haul #	Spp	Sex	Size	Shell	Bio	BCS
4	A1	188	C.O.	M	66.72	2	14.30	17.		A 7	190	Co.	F	56.66	2	000	
	B 1	4	12	M	67.26	2	11.9	77		B 7		1	F	59.17		000	
	C 1	V	N	M	74.92	2	17.36	1 - 12	7	C 7			M	69.73		12.47	
틸	D 1	149	C.O.	F	52.29	2	COU		틸	D 7			۴	56.45		000	
Column	E1	用制作。	部的	F	54.18	2	000		Column	E 7			F	<i>5</i> 7.75		000	_
Y	F1	學時	300	M	70.54	2	12.69	歸裝	١	F 7	,		F	50.16		000	+
	G 1	達加益	\$ 10 m	F	52.14	2	COO	Street.		G 7		1	F	<i>5</i> 8.40	1	CCC	_
-1	H1	經過多		F	56.0	2	000	21-45 S	١.	H 7	191	C.O.	F	54.57	2	acc	
	A 2			M	73.15	2	16.58	,	- 1	A 8	100	511 64	-	59.08	141	CCC	-
	B 2			M	61.21	2	14.12	-		B8		新	M	68.50		12,43	131/033
2	C 2			F	59.03	2	CCO	_	8	C 8		Re S	Μ	69.42		13.00	-
Column	D 2			M	60.74	2	9.69	-	Solumn	D 8			F	51,98	3 45	CCO	- 1
힛	E 2			M	63.5%	2	11.03	-	혓	E 8	量数·逻		BE.	53,67	igit.	CCC	_
Ϋ́	F 2			M	68.35	2	11.88	-	ľ	F8	DON	IOT TAK	E SA	MPLE -	CONT	ROL WE	LL
	G 2			F	53.14	2	000	-		G 8	壓		M	62.05	make the	11.79	-
	H 2			F	50.51	2	000	-	'	H 8	State Service	William Fr	M	55,94		9.83	
	A 3	第14 4	1	F	53,29	2	OCC	19-120-1	: I	A 9			F	54.91		UCC	-
	B 3			F	54.14	2	000	2000 A		B 9			F	5 2.03		COO	
6	C3	建		E	51,92	2	000		ြင်	C 9			M	52.51		8.04	-
olumn	D 3	DO N	NOT TAK	(ESA	MPLE -	CONT	ROL WE	LLG	直	D 9			F	55.43		CCC	_
팃	E3	建學學物	際。新	M	C4,14	2	11.67	22222	Column	E 9			-	54.13		CCO	
M	F 3	が大変	統形態	F	51.47	2	COU	-	ΙΫ́	F 9			M	66.07	5.0	11,75	
	G3		語で記載	P	56.61	2	000	-		G 9			F	48.49		000	_
- 1	H 3	が変え	\$50 KKK	20	52.82	2	CCC	-	'	H 9			F	46.00		000	
-1	A 4			F	55.90	2	000		- 1	A 10	٠, ټ		M	48.18	11	8.44	
	B 4			F	45.40	2	000	-		B 10	DO N	OT TAK	E SA		CONT	ROL WE	LL
4	C 4			F	51 42	2	000	_	후	C 10			M	54.08		9.20	
Ē	D 4			F	54 75	2	000	-	E	D 10	艦。陰壓	100	F	44.77		000	-
Column	E 4	-	4	M	57.23	2	9.12	_	Column	E 10	Section 1		F	47,72	سلر	000	-
Υl	F 4	190	(.0	F	52.51	1	000	-	9	F 10	195	C.O.	M	59.96	2	9.88	-
	G 4	1	1	F	58.45		000	-		G 10	17 1	144	F	46.52	100	000	2 = 2
- 1	H 4			F	56,12		000	-	١.	H 10	EN YE		F	4526	HC- Rein - or	000	7-1
	A 5	是是新	强的	M	69.80	100	13.28	-	1	A 11		A	M	41.53		6.67	
- [B 5	CIE AND ASS	day 1 of the	M	6C.34	基地 上	14.25	-		B 11			F	4561		000	
5	C 5		湖流 產	F	53.60	\$12 h	CCO	100	Ę	C 11			M	47.90		7.69	-
Column	D 5	福温泉	無視象	M	61.1.7		9.95		Column 11	D 11	- 1		F	45.05		000	
힜	E5	間直到		F	61,07	1000	CCO		릉	E 11	-27		F	45.90		000	
Ĭ	F5	推算等		M	58.32		9.94		9	F 11	10		F	52.63		000	
	G 5	PON	OT TAK	(E SA	MPLE -			LL		G 11	1		F	42.94		000	
- 1	H 5	經過學	磁冲线	F	59.55	程程	GCG	美麗美	'	H 11	×	i.	M	58.69		9.91	
	A 6			M	57.11		13,06	-	1	A 12		OT TAK	E SA		CONT		LL
	B 6			F	55.66		000	-		B 12	統		W	40.72	1	6.19	-
6	C 6			F	51,25		000	-	12	C 12			F	46.89	8. 2.	000	-
Column	D 6			F	53.13		000	}	Column	D 12	德人意	能量以	F	45.94	(1) (1) (1) (1) (1)	000	_
힜	E6			F	6145		000	THAT	등	E 12	Trev. 8 E.J.		M	41.22	5	6.33	-
Υl	F6			W	70.91		10.31)	9	F 12		900 (200 900 (200	F	46.78		5.86	
	G6			Μ	68.41		12.45	-		G 12		150	M	36.52	群區	5.57	-
1	H 6		1	F	54.40	1	-Cicli	-	l '	H 12	. 1	The state of	M	50.24	2 - C.V.	7.60	-

			40		
		29.			-
				32.000	
	W 383_	\$1500.			
-436 = -		14 50000 475.44		<u></u>	
	35				
				- 4840/00000	
				9 9 3	<u> </u>
19 10 - 10 - 10 - 10					
		- TA			
	TI TI	0.00			
			22, 742, 743, 743		875
				72 30422	
All					
	- 2.000		1.70		
		U.	× ×		
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cap pops of	ff: put cap back on	, rinse plate with	ı fresh water and blo	ot dry	
			ı fresh water and blo		
			ı fresh water and blo macrus please take		
ou see a pos	itive King Crab, ⊺	elmessus or Eri	macrus please take		
ou see a pos ood samples		elmessus or Eri	macrus please take		
ou see a pos lood samples KEYS:	itive King Crab, ⊺	elmessus or Eri	macrus please take Blood Smears. Shell Condition:		BCS+:
ou see a pos lood samples KEYS: pecies: D = C. opilio	itive King Crab, To use 2 collection process: Sex: 1 = Male	elmessus or Ericolate wells) & 3 I	macrus please take Blood Smears. Shell Condition: 0 = Premolt/Molt	Bio (Biometrics): MALE: Chela Height in mm	P = Visually
ou see a pos	itive King Crab, To tuse 2 collection page 5	Telmessus or Ericolate wells) & 3 I	macrus please take Blood Smears. Shell Condition:	a photo, Bio (Biometrics):	

late I	Number:	8	6				V	essel:		62					Keys 8	k Comr	ments or	n
Colle	cted By	Enn.	Va	nessa	1Pay	n		Leg:		31	4		•		back			9
Vell:	Haul #	Spp	Sex	Size	Shel	I B	io	BCS	_	Well:	Haı	al #	Spp	Sex	Size	Shell	Bio	BC
A 1	195	C.O.	M	45.05	2	6.	37		١,	A 7	21	9	C.O.	F	10.30	2	000	+
B 1	10		F	42.48	2	CO	20	The state of		B 7	1				44,57		1	_
C 1	219	C.G.	F	36.61	2	00	00	+		C 7					37.1			
D 1	127		10	40.22	TE.	製			盲	D 7				П	28.34			-
E 1	謝俊。	4	34	35.59	5	12	N.	+	↓ Column	E7				П	36.98			+
F 1	The state	100 mg - 100	100 P	38.05	慢	支	112	140 PHS	Y	F 7					36.32			+
G 1	逐州 2基	ELYG.	3313	39.33		5	TE	+		G 7					37.40			_
H 1			10000000000000000000000000000000000000	40.00	£4.			12-9-4	į	H 7					37.11			
A 2	4.0			36.63				+	,	A 8			<u> </u>		33,30	44-1-1-		+-
B 2				33.21				+		B8	5.00	101			40.72	75 E.S.	100 50 120 100	-
C 2				32.69	11	Т	T	+	₩	C8	松	EAST		28 (5)	34.65			1/25
D 2				35.36				-	튙	D8		t-ia	1 / Ja		34.57	是包装	= (E)	-
E 2				41.24				-	Column	E 8		-42			32.68	Silver Charge		+
F 2				44.65				+	9	F8	C	ON	OTTAK	E SA	MPLE -	CONT	ROL WE	ELL
G 2		~:		39.52				+		G8	2	77.		14	37.59		100	-
H 2				37.16				+	1	H 8	22	2	C.O.	F	39.60	2	000	-
A 3	41 42	The La	440	40.33	병	or section	34.5	+		A 9	1		1	1	43.74)	١	-
B 3	DE ST	Life		40.99	24	2 (M2.)	in.	V (-)		В9					42.49			_
C 3	, , , ,		7 %	35.89	138 85	3 284	A.A.	مإد	6	C9				1	39.36			_
D 3	DON	OT TAI	E SA	MPLE -	CONT	rROL	WE		盲	D 9					40.27		3	
E 3	是是 表情	\$2	1	42 22	英語 城市	4 84	11,4	(3)-	Column	E9				T	39.26		Ä	-
F 3		in a second	34	39.11	13 2	1	100	+	우	F9				3	40.73			
G 3	187 lad	chear and	*	39.28	355	S 533	113	+	li	G9			Ì	14.	46.79		4	_
H 3	生	ь	0.4	41.95	325		194	+		H 9		T	Α	Ÿ	42.31			_
A 4				37,44				+	l	A-10		8 7 7	516 F.E.		43.86			
B 4				38.00				+		B 10		1.00	OT TA	E SA			ROL WE	ĒLL
C 4			1	28 50				+		C 10	Sec. A.			1007	43.61	\$20 LOS	101 13	-
D 4				38.46				+			ı.		6 7 95		47.77	655 10		
E 4			1 1	41,58				_	Column	E 10	á	ŝ	1		14.58	12.4	85	
F 4				35.32				+	۶̈Ϋ́	F 10	ACTALY I	Ī	led E		42.30	4 4		-
G 4				33.87			}	+	A	G 10	advisor 1		1550 m		41.93	73		200
H 4			11	42.29	\sqcap	1		+		H 10	90je4		Total 1	22.2	43,60	55		-
A 5	15 gt , 1 = 1	(Library A.	144	34,25	3000		111	+	* .	A 11					47.71			-
B 5	223		6 1 5	37.33	21	TO LEAD		+	»	B 11					40.14	\sqcap	3	-
C 5	1	場合を	J	35.55		都	18 mg		=	C 11	1				41.92			-
D.5	4		201	39.44	是	继	15%	性	٤	D 11	1		1	17	42.75			-
E 5	階級	ME E	1 强度	41.62	红		فريج	(-)	Column	E 11	İ		11/2	$\top \top$	39.83			-
FIS		里露	Th	37,95		i iti	1	42	၂ ပု	F 11				17	38.48			_
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A 6		1	11	32.91				*	١,	A 12	製が	00 N	IOT TAI	(E SA			ROL W	ELL
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C 6		14.1	++-	39.09	1			+	12	C 12		train.	18.7	100	43.16		S- 82-	-
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E 6			+	32.29			1	-	Column	E 12	-	1757	16.1		40.57	-	oth at	
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cap pops or	m: put cap back on	, rinse plate witr	fresh water and blo	ot ary	
	itive King Crab, T	elmessus or Eri	macrus please take	e a photo,	
u see a pos		olate wells) & 3 I	Blood Smears.		
ood samples	(use 2 collection p	•			
	Sex: 1 = Male 2 = Female	Size: Carapace Width (mm,	Shell Condition: 0 = Premolt/Molt 1 = Soft Shell	Bio (Biometrics): MALE: Chela Height in mm (tenths);	BCS+: P = Visually Positive

	Dioto I	dumbar			is Chio	noecei				6Z	pii Colle	ections -	raun	Control on the Con-			
		Number:		7	10	-	V	essel:							& Comm	ients o	n
		cted By:				•		Leg:		4				back			\geqslant
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	B1	4 143	<u> भन्ने ।</u>	25 T.	37.71		*	75.37.60		B7			ļ		 		_
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ပို	E1	極多		nha	35.66	SE SESSE	影聲		3	E 7							
	F			(PF	36.43	植物基础	東			F 7							ļ
	G1	4	逶	-77	39,18	1		\$20.00 MA-12990	*	G 7					2	, in	├──
·	H1	1 13	* 1 7	33	39.70	基础经	整一		Ι,	H7	at the control of	400.700.00		evente en e	4.1-4/5-71		
ļ	A 2	12.5			38.64			-		A8		2	200	A	deprise ou		400
	B 2				38.59			-	*	.B8		10000	13335	Box en C	A	10.11	A.S.
- 6	C 2	-		-	43.86	ــــــــــــــــــــــــــــــــــــــ	-	-	86	C8	S S	新 农和	235	n.	W		M150
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	G 2				17					G 8	and a		PRIMA	क्षेत्रकी क्षेत्र	HOPE	SPERMIT OF SPE	
j:	H 2								'	H 8	類漢線	根据是	4	FAR S	19000	CE NET	19.70
1	A 3	斯斯	SHEET, ST	A POST	177	A 16/19/2	Sept Worlder	16 3792		A 9							
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6	C 3	議事官		部門			FF-10-20-3-1:12-	接続	6	C 9							
Ē	D 3	J DO N	OT TAK	ESA	MPLE -	CONT	ROL WE		<u> </u>	D 9							
Column	E3	连部地	學學學	體影	四种东非	機能	影蝦	随地	Column	E 9							
N	F 3	12	STATES.	30	138		*	1500	٩	F9					85		
7	G 3	能排機	The lab	THE WAY	2.7	1550	加料 提	TOTAL TOTAL	1	G 9	7		100				
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	A.4						-			A-10	ß	Ş	339.7	Carrier Comp		#7000 mm - 4.1	3.00% L
	В4	20								B.10	DO N	OT TAK	E SA	MPLE -	CONTE	OL W	ELL
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E	D4								Ë	D 10			Ask.	Ask X	5.633		49 6
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		T Park	THE PARTY.	CT SEE	电线数线	EZAL	西北	TOTAL PO			201005	LOT TAY	T 04	VIDUE -	CONT	201.144	779256
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cap pops	oπ: put ca	o back on,	rinse plate witr	n fresh water and blo	ot ary	
ou see a po	ositive Kin	g Crab, T	elmessus or Eri	imacrus please take	a photo,	
ood sampl	es (use 2 c	ollection p	late wells) & 3 i	Blood Smears.		
ecies:	Sex:		Size:	Shell Condition:	Bio (Biometrics):	BCS+:
) = C. opilio	1 = M		Carapace	0 = Premolt/Molt	MALE: Chela Height in mm	P = Visually
= C. bairdi r write out	2 = Fe		Width (mm,	1 = Soft Shell 2 = New Shell	(tenths);	Positive
r write out pilio " or airdi"	3 = Ur	nknown	tenths)	3 = Old Sheil 4 = Very Old Sheil	FEMALE: Clutch (use standard color, condition & fullness codes)	N = Visually Negative

Data Sheet for VISUALLY POSTIVE BCS CONTROL Collections

Location: EBS **Vessel: VESTERAALEN** Cruise No.: 2018-01 Name(s): AB/JD

	109 1	909	90	105		382 · 5	074	064 3	064 2	064 1	Haul # IUB
	10 CG	9 00	Ĉ	00	6 co		CB	3 CB	2 CB	CB	lube No. Species
		3	71	Ή	3	3	7	Z	Z Q	2	Xec
		61.51	38,29 2	44.67 2	50.28 2	C 18:40	43.48 Q	39.76	01.85 2	光ニース	ne (mm) an
		4.1	000	000	8.10	41.8	5,06	2 4.37	2 6.29		. siometrics
		V	V	V	P	O	P	7	7	P	ARTH BCS+
	.65	, Ba	.60	.60	54.	,80	.60	0.70	0.60	0.83	Blood volume
						-	UCPY UKJudby +				Comments
	-1010	-1009	-1008	-1007	-1006	>1.005	-1004	-1003	-1002	2018-1001	ents

- positive BCS collections. Collect blood from up to 5 visually positive C. bairdi (Leg 2) & 5 visually positive C opilio (Leg 3); any size or sex crab can be sampled for the visually
- You may collect these crabs from any regular station in the EBS, including the index site stations. If you collect these crabs within the index sites, set these crabs aside after you have selected crabs for the regular index site sampling. Please be careful to not let these crabs affect the index site collections (review full protocol).
- crab, discard the crab (& select another BCS+ crab). Please take at least 0.6 ml, but no more than 0.9 ml, blood from BCS+ crab. Record blood volume on sheet. If only discolored blood is obtained from a
- Keep caps clean; there are empty tubes available if you need a spare cap to replace a lost or dirty cap ("BCS Control Kit" in yellow patho barrel)

The same of the sa	5 = Graveyard			
color, condition & fullness codes)	3 = Old Shell 4 = Very Old Shell	(tenths)	3 = Unknown	(or write out "opilio "; "bairdi")
(tenths);	2 = New Shell	Width in mm	2 = Female	CB = C. bairdi
MALE: Chela Height in mm	0 = Premolt/Molt	Carapace	1 = Male	CO = C. opilio
Biometrics:	Shell Condition:	Size:	Sex:	Spp (species):

	BCS+:
ight in mm	P = Visually Positive
	N = Visually Negative
(use standard	

Data Sheet for VISUALLY POSTIVE BCS CONTROL Collections

Location: EBS Vessel: ALASKA KNIGHT Cruise No.: 2018-01 Name(s):_ Tyler Juckson/ Erin Tedewa

	72 20 C.o	163 19 C.b.	163 18 C.1	163 17 C.b.	163 16 C.b	15 C.b	145 14 0	195 13	136 12 Co	135 11 0	Haul# Tube No Spe
	o. M	, T	b. F	77	b M	ъ Т	0	0 14	0 M	0	Species Sex
	1 77.53	44.42	40.80	43.77	39.69	. 44.71	50.98	5699	20 J	7 75.20	X CW (mm)
	20	2	2	10	12	2	دو	رو	gs	ب	SC
100 A	14.16	000	000	000	4.58	000	000	7.96	8.7	16.24	Biometrics
	+	+	+	+	+	+	+	+	+	+	BCS+
	0.9	0.6	0.6	0.6	0,6	0.6	.8	<u>,</u> 6	6.0	0,6	Blood volume
			/	stad not milky		Visually BCS but bload not milky					Comments
	-1020	-1019	-1018	-1017	-1016	- 1015	-1014	-101=	- 1012	2018-1011	

- Collect blood from up to 5 visually positive C. bairdi (Leg 2) & 5 visually positive C opilio (Leg 3); any size or sex crab can be sampled for the visually positive BCS collections.
- crabs aside after you have selected crabs for the regular index site sampling. Please be careful to not let these crabs affect the index site collections You may collect these crabs from any regular station in the EBS, including the index site stations. If you collect these crabs within the index sites, set these (review full protocol).
- Please take at least 0.6 ml, but no more than 0.9 ml, blood from BCS+ crab. Record blood volume on sheet. If only discolored blood is obtained from a crab, discard the crab (& select another BCS+ crab).
- Keep caps clean; there are empty tubes available if you need a spare cap to replace a lost or dirty cap ("BCS Control Kit" in yellow patho barrel)

	(or write out "opilio "; "bairdi")	CB = C. bairdi	CO = C. opilio	Spp (species):
	3 = Unknown	2 = Female	1 = Male	Sex:
	(tenths)	Width in mm	Carapace	Size:
-				
4 = Very Old Shell	2 - Old Shall	1 = SOTT Shell	0 = Premolt/Molt	Shell Condition:
4 = Very Old Shell color, condition & fullness codes)	3 - Old Shall FEMALE: Clutch (use standard		0 = Premolt/Molt MALE: Chela Height in mm	Shell Condition: Biometrics:

il (95) <u>\$</u>