PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270°1.0	

CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	.	.	(deg)	(m/s)	*	*	*	(m)	
251	58 31 1.62 N	168 42.41 W	14 AUG 99	22 16	7.7	.	1	3	3	6	270	10	8	7	2 6 4	RIAII

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN					

☐ PAR ☒ FLUOR ☒ ChlAM ☒ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1	20									
2	20									
3	13									
4	13									
5	9									
6	9									
7	5									
8	5									
9	3									
10	3									
11	0									
12	0									

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NIA 1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
													.	.			.	.	.		
252	58	24.57 N	168	50.17 W	15	AUG	~~98~~ 99	00	45	7.9		1013	6	27	012		8	7	2	66	

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN					

☑ PAR ☑ FLUOR ☑ ChlAM ☑ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	62									
2	40									
3	30									
4	20									
5	10									
6	0									
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NIE4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	CLOUD TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
253	58	13.46 N	168	33.93 W	15	AUG	99	0220		8.1		1446	2	7	070	14	8	7	2	68	NIE14

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN	~~PAR~~ ~~PLOOR~~ ~~CHLAM~~ ~~TRANSMISSOMETER~~ Cleaned air bleed valve				

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	66									
2	40									
3	30									
4	30									
5	20									
6	10									
7	1									
8	0									
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~222	270° 1.0	NE 13

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
2	54	58.18.22	N	168	28.82	W	15	AUG	99	03	05	8.3		1446			270	10	8	12		67	NIE13

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN	~~PAR~~ ~~FLOOR~~ ~~CHLAM~~ ~~TRANSMISSOMETER~~ ☐ Cleaned air bleed valve				

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1	64									
2	46									
3	30									
4	20									
5	10									
6	0									
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	015 //

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
	25	55.22	N	168	21.08	W	15	AUG	99	20	40	7.8	.	1336	.	6	260	10	8	7	2	61	1111

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

☒ PAR ☒ FLUOR ☒ ChlAM ☐ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	59.5									
2	40.2									
3	30.8									
4	21.4									
5	20.4									
6	9.6									
7	1.8									
8	2.3									
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~222	270° 1.0	4/69

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
															.	.			.	.	.		
256	58	34.57	N	168	5.68	W	15	AUG	99	05	12	7.5	.	1432			260	07	8	7	4	5313	4112

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

☐ PAR ☐ FLUOR ☐ ChlAM ☐ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	51.3									
2	30.4									
3	20.1									
4	11.2									
5	5.8									
6	5.0									
7	3.5									
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
2	57	58 36.94	N	168	08.04	W	15	AUG	99	05	46	7.2	.	1013	4	2	060	06	8	7	4	51	556

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN	☐ PAR ☐ FLUOR ☐ ChlAM ☐ TRANSMISSOMETER		☐ Cleaned air bleed valve		

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	19.2				HX222 25401					
2	30.0									
3	20.4									
4	9.8									
5	2.4									
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~213~~222	270° 1.0	A/11 5

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
2	58	39.24	N	168	05.48	W	15	AUG	99	06	10	7.2		1	4	4	260	10	8	7	4	50	X155

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN	☐ PAR ☐ FLUOR ☐ ChlAM ☐ TRANSMISSOMETER		☐ Cleaned air bleed valve		

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1	46.3									
2	30.4									
3	20.5									
4	10.4									
5	3.0									
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~222	270° 1.0	

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
259	58	1.74	N	168	02.58	W	05	AUG	99	06	36	7.2	.	1	4	3	4	260	10	8	7	4	58	4

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[ ] PAR [ ] FLUOR [ ] ChlAM [ ] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	46.3									
2	20.4									
3	10.2									
4	2.4									
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~210~~ 222	270° 1.0	

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
260	58	43.91 N	168	00.24 W	15	AUG	99	06	59	7.1	.	1143	4	2	260	11	8	7	4	1249	193

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN					

☑ PAR ☑ FLUOR ☑ ChlAM ☑ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	42.4									
2	20.0									
3	11.1									
4	2.4									
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~222	270° 1.0	N192

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
261	58	46.22	N	164	57.68	W	15	AUG	99	04	20	7.0	.	1143	4	2	270	11	8	7	4	45	1122

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN	☒ PAR ☒ FLUOR ☒ CHLAM ☒ TRANSMISSOMETER ☐ Cleaned air bleed valve				

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	2 1/2					H222261 01				
2	21.5									
3	10.8									
4	3.5									
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NICX8

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
															.	.			.	.	.		
262	39	10.29	N	163	45.02	W	5	AUG	99	22	19	6.3		1013			270	10		2		500	NICX8

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN					

☒ PAR ☒ FLUOR ☒ ChlAM ☒ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	300° 1.0m	KICK5

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE JD= MO	DATE JD= YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
															.	.			.	.	.		
	26	35	90 3.33 N	167	52.49 W		15	AUG	99	13	39	5.6	.	173			300	10			2		KICK5

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

☑ PAR ☑ FLUOR ☑ ChlAM ☐ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~222	270° 1.0	a/c x 2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
26	58	56.34	N	168	00.41	W	15	AUG	99	14	50	5.7	.	1	7	5	310	11	8	7	2	4224	c x 2

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN					

☒ PAR ☒ FLUOR ☒ ChlAM ☐ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NIC01

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE JD= MO	DATE JD= YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
765	58	51.68	N	168	05.88	W	15	AUG	~~9~~ 99	15	50	5.3	.	1033	5	3	100	8	8	7	2	44	NIC01

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN					

☑ PAR ☑ FLUOR ☑ CHTAM ☑ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NICO2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
266	58	49.33	N	168	08.42	W	15	AUG	99	16	12	5.4		1033	5	3	190	08	8	7	2	46	N1C02

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN					

☒ PAR ☒ FLUOR ☒ ChlAM ☒ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	44									
2	20									
3	10									
4	1									
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL: Alpha Helix

PROJECT & LEG: HX~~219~~ 222

270° 1.0

STATION DESIGNATION: NIC03

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
267	58	46.98 N	168	10.17 W	15	AUG	99	16	37	5.4	.	1835	3	1	009	8	7	2		47	NIC02

CTD

TYPE & SN

PRESS SN

TEMP SN

COND SN

TEMP SN

TIMES JD/TIME

DATA ON

START DOWN

AT DEPTH

AT SURFACE

DATA LOCATION

Tape/Diskette ID | File Name/Header

REMARKS

MAX. DEPTH = m

~~PAR~~ ~~FLUOR~~ ~~CHLAM~~ TRANSMISSOMETER Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE NUMBER

POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL: Alpha Helix

PROJECT & LEG: HX~~210~~222

270° 1.0

STATION DESIGNATION: NIC04

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE JD= MO	DATE JD= YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
2	68	58	44.71 N	168	13.64 W		15	AUG	99	16	59	5.5	.	1935	5	3	160	09	8	7	2	48	

CTD

TYPE & SN

PRESS SN

TEMP SN

COND SN

TEMP SN

TIMES — JD/TIME

DATA ON

START DOWN

AT DEPTH

AT SURFACE

DATA LOCATION

Tape/Diskette ID — File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [X] CHTAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	45									
2	30									
3	20									
4	10									
5	0									
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NIC ~~EHC~~ 05

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
																							NIC05
269	58	49.35	N	168	16.21	W	15	AUG	99	17	23	5.5		1	3	5	310	04	8	7	2	50	~~EHC~~ 05

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN					

~~PAR~~ ~~FLOOR~~ ~~CHAM~~ ~~TRANSMISSOMETER~~ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1	47									
2	20									
3	12									
4	0									
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NICO6

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	27	05840.03	N	168 18.81	W		15	AUG	99	17	49	6.8		1013	4	3	350	05	8	7	2	52	NICO6

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

☒ PAR ☒ FLUOR ☐ ~~CHTAM~~ ☐ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA SALINITY	SAMPLE BOTTLE NUMBER SAL.	NUTR.	CHL.	WHIT's NUTR.
1	48									
2	30									
3	20									
4	15									
5	0									
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	N1 C07

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	27	11.5837	N	168 21.32	W		15	AUG	99	18	15	6.8		1934	3	2	007	8	7	2		53	N1C07

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN					

☒ PAR ☒ FLUOR ☒ CHLAM ☒ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1	50									
2	30									
3	20									
4	10									
5	8									
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL: Alpha Helix

PROJECT & LEG: HX~~219~~222

270°1.0

STATION DESIGNATION: N1C08

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
272	58	35.35	N	168	23.91	W	15	AUG	99	18	41	5.7		1934	3	2	020	06	8	7	2	56	N1C08

CTD

TYPE & SN

PRESS SN

TEMP SN

COND SN

TEMP SN

TIMES JD/TIME

DATA ON

START DOWN

AT DEPTH

AT SURFACE

DATA LOCATION

Tape/Diskette ID | File Name/Header

REMARKS

MAX. DEPTH = m

☒ PAR ☒ FLUOR ☒ CHLAM ☒ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	52									
2	30									
3	20									
4	15									
5	10									
6	0									
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL: Alpha Helix

PROJECT & LEG: HX~~219~~222

270° 1.0

STATION DESIGNATION: NICO8

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE JD= MO	DATE JD= YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIR'N. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
27B	56	55.41	N	168	23.72	W	15	AUG	99	18	56	5.7		1019	3	4	320	06	8	7	2	56	NICO8

CTD

TYPE & SN

PRESS SN

TEMP SN

COND SN

TEMP SN

TIMES — JD/TIME

DATA ON

START DOWN

AT DEPTH

AT SURFACE

DATA LOCATION

Tape/Diskette ID — File Name/Header

REMARKS: Prod

MAX. DEPTH = m

☐ PAR ☐ ~~FLOOR~~ ☐ ~~CHAM~~ ☐ TRANSMISSOMETER ☐ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE NUMBER

POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1	20									
2	15									
3	13									
4	13									
5	13									
6	13									
7	10									
8	0									
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NIC08

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	27	45835.33	N	168	23.79	W	15	AUG	99	19	19	5.7		1934			320	06	8	7	2	516	NIC08

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

R40's
ROD

MAX. DEPTH = m

☒ PAR ☒ FLUOR ☒ CHTAM ☐ TRANSMISSOMETER ☐ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	20									
2	20									
3	13									
4	13									
5	9									
6	9									
7	5									
8	5									
9	3									
10	3									
11	0									
12	0									

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NICO 8

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	27	58.35.46 N	168	23.51 W	15	AUG	99	19	46	6.1		1013.6	3	2	90	6	8	7	2	52	

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID _____ File Name/Header _____

_____ _____

REMARKS

MAX. DEPTH = m

☐ PAR ☐ FLUOR ☐ CHTAM ☐ TRANSMISSOMETER ☐ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	13									
2	8									
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL: Alpha Helix

PROJECT & LEG: HX~~219~~ 222

270° 1.0

STATION DESIGNATION: IF-2A

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
	27	58	33.58 N	168	36.22 W		15	AUG	99	22	11	6.5		1013	4	3	270	05	8	7	2	58	IF2A

CTD

TYPE & SN

PRESS SN

TEMP SN

COND SN

TEMP SN

TIMES JD/TIME

DATA ON

START DOWN

AT DEPTH

AT SURFACE

DATA LOCATION

Tape/Diskette ID

File Name/Header

REMARKS

MOORING

CALIB

MAX. DEPTH = m

~~PAR~~ ~~FLUOR~~ ~~CHLAM~~ TRANSMISSOMETER ☐ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	58									
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NIC10

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
	27	15.830.71	N	168.29.07	W	15	AUG	99	22	39		6.8	.	1936.8			20	05	8	7	2	62	NIC10

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

~~PAR~~ ~~FLUOR~~ ~~CHLAM~~ ~~TRANSMISSOMETER~~ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	59									
2	40									
3	32									
4	27									
5	21									
6	10									
7	0									
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~222	270°1.0	NCC11

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	27	58.38	N	158	31.60	W	15	AUG	99	23	07	6.8		1033		6	290	07	8	7	2	63	NCC11

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

☒ PAR ☒ FLUOR ☒ ChlAM ☒ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	42									
2	40									
3	30									
4	25									
5	20									
6	10									
7	0									
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NIC13

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	27	58 21.86 N	168 39.38 W		16	AUG	99	07	40	6.8		2036			320	07	8	72		63	NIC13

CTD	TIMES	JD/TIME 15	2340	DATA LOCATION	REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN					

~~PAR~~ ~~FLUOR~~ ~~CHLAM~~ ~~TRANSMISSOMETER~~ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	63									
2	40									
3	30									
4	20									
5	10									
6	0									
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NIC14

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	26	58.70	N	168	44.63	W	16	AUG	99	00	48	6.8		2936			320	05	8	7	2	69	NIC14

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

☒ PAR ☒ FLUOR ☒ ChlAM ☒ TRANSMISSOMETER ☐ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY
1	65				
2	50				
3	30				
4	20				
5	10				
6	5				
7	0				
8					
9					
10					
11					
12					

SAMPLE BOTTLE DATA

SALINITY

SAMPLE BOTTLE NUMBER

SAL.	NUTR.	CHL.	WHIT's NUTR.

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NIC16

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	DATE JD= MO	DATE JD= YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	CLOUD TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
28	15	807.44 N	168	55.05 W	16	AUG	99	01	57	6.4	.	20			42	00	8	7	4	70	NIC16

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [X] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	67									
2	40 (42)									
3	30									
4	20									
5	10									
6	0									
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL: Alpha Helix

PROJECT & LEG: HX~~219~~ 222

270°1.0

STATION DESIGNATION: ~~ATTC~~ NP1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	28	25.80 N	169	02.34 W	16	AUG	99	20	55	6.4	.	2024	2	1	00	3	8	7	4	71	NP1

CTD

TYPE & SN

PRESS SN

TEMP SN

COND SN

TEMP SN

TIMES JD/TIME

DATA ON

START DOWN

AT DEPTH

AT SURFACE

DATA LOCATION

Tape/Diskette ID | File Name/Header

REMARKS

MAX. DEPTH = m

[/] PAR [/] FLUOR [/] ChlAM [/] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	68									
2	50									
3	30									
4	20									
5	15									
6	0									
7										
8										
9										
10										
11										
12										

VESSEL: Alpha Helix

PROJECT & LEG: HX~~219~~ 222

270° 1.0

STATION DESIGNATION: M4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
283	57	50.97	N	168	52.48	W	16	AUG	99	11	52	6.1		2014			0	0			4	~~2~~ 32	M4

CTD

TYPE & SN

PRESS SN

TEMP SN

COND SN

TEMP SN

TIMES JD/TIME

DATA ON

START DOWN

AT DEPTH

AT SURFACE

DATA LOCATION

Tape/Diskette ID File Name/Header

REMARKS

Calibration for Mooring 4

MAX. DEPTH = m

~~PAR~~ ~~FLUOR~~ ~~CHAM~~ ~~TRANSMISSOMETER~~ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA SALINITY	SAMPLE BOTTLE NUMBER SAL.	NUTR.	CHL.	WHIT's NUTR.
1	67.9									
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

Sharp thermocline at 22 m

PG 1 OF __

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	402

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	28	54.19	N	169	17.74	W	16	AUG	99	0532		6.1		2034			002			4		65	402

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

☒ PAR ☒ FLUOR ☒ ChlAM ☐ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA SALINITY	SAMPLE BOTTLE NUMBER SAL.	NUTR.	CHL.	WHIT's NUTR.
1	63.1									
2	31.5									
3	21.1									
4	10.8									
5	1.2									
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	270° 1.0	NA3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
285	54	38.43 N	169	27.07 W	16	AUG	99	09	06	6.6	.	2033	2	0	200	06		4		62	NA3

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

~~PAR~~ ~~FLUOR~~ ~~CHLAM~~ ~~TRANSMISSOMETER~~ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	40.6									
2	30.9									
3	20.9									
4	11.1									
5	2.1									
6										
7										
8										
9										
10										
11										
12										

PG 1 OF __

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	calm	4.04

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
2	86	54 27.25	N	169 39.41	W		16	AUG	99	08	35	5.6		218			190	07			4	42	4.04

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN	☐ PAR ☐ FLUOR ☐ ChlAM ☐ TRANSMISSOMETER		☐ Cleaned air bleed valve		

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	40.6									
2	26.0									
3	5.7									
4	5.5									
5	4.1									
6	5.6									
7	5.9									
8	5.8									
9	5.5									
10	6.1									
11	3.3									
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	calm	NP3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
28	57	23.43	N	169	17.34	W	16	AUG	99	09	43	5.7		1021.3			190	07			4	1603	NP5

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

☒ PAR ☒ FLUOR ☒ ChlAM ☒ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~210~~ 222		HX96

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
288	57	19.39	N	169	55.30	W	216	AUG	99	0	32	5.6		2113			190	07			4	58	HX96

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[/] PAR [/] FLUOR [/] CHTAM [/] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	150° 0.5m	SPE4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	28	57.36 N	169	08.70 W	14	AUG	99	17	12	6.0		2033			150	12			4	716	SPE4

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

☑ PAR ☑ FLOOR ☑ ~~CHAM~~ ☑ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	73									
2	30	0.97								
3	23									
4	↓									
5										
6	↓									
7	20	1.89								
8	10	.945								
9	0									
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~213~~222	1600.5	SPE04

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
290	57	15.31	N	169	08.59	W	16	AUG	99	17	28	6.0		203			169	12			4	76	SPE04

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

Redo INSITO

MAX. DEPTH = m

☐ PAR ☐ FLUOR ☐ ~~ChlAM~~ ☐ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	72									
2	30									
3	25									
4	↓									
5	↓									
6	↓									
7	30									
8	20									
9	10									
10	0									
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~222	160°0.5	SPE03

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
	29	57	15.40 N	169	27.12 W		16	AUG	99	20	17	16.4	.	1934	1	6	160	12	8	7	2	72	

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN					

☑ PAR ☑ FLUOR ☑ ~~CHAM~~ ☑ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1	67									
2	30									
3	20									
4	10									
5	0									
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	160°0.5m	SPE2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE JD= MO	DATE JD= YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
2	52	71	5.35 N	169	45.53 W		16	AUG	99 ~~98~~	21	31	6.8	.	1846			160	12 16	8	7	2	415	

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [ ] FLUOR [X] chlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	Bot 41									
2	20									
3	0									
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	160°0.5	SPG1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
															•	•			•	•	•		
	29	57.27	N	170	03.93	W	16	AUG	99	22	55	6.8		1018	4	C	160	11	8	7	2	3151	PG1

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION		REMARKS
Tape/Diskette ID	File Name/Header	
		MAX. DEPTH = m

PAR ~~FLUOR~~ ~~CHLAM~~ ~~TRANSMISSOMETER~~ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL: Alpha Helix

PROJECT & LEG: HX~~219~~ 222

STATION DESIGNATION: SPCW 4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
	29	57.16 N	171	21.88 W	17	AUG	99 ~~98~~	~~04~~	~~57~~	.										1043	SPCW4

CTD

TYPE & SN

PRESS SN

TEMP SN

COND SN

TEMP SN

TIMES JD/TIME

DATA ON

START DOWN

AT DEPTH

AT SURFACE

DATA LOCATION

Tape/Diskette ID | File Name/Header

REMARKS

ABORTED

MAX. DEPTH = m

~~PAR~~ | ~~FLUOR~~ | ~~ChlAM~~ | ~~TRANSMISSOMETER~~ | Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL: Alpha Helix

PROJECT & LEG: HX~~219~~ 222

100 1.2m

STATION DESIGNATION: ~~SPG4~~ SPG4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
															.	.			.	.	.		
29	54	13.94	N	122	03	W	9	AUG	99	0515		8.4		1	456		150	18	8	7	2	108	~~SPG4~~ SPG4

CTD

TYPE & SN

PRESS SN

TEMP SN

COND SN

TEMP SN

TIMES JD/TIME

DATA ON

START DOWN

AT DEPTH

AT SURFACE

DATA LOCATION

Tape/Diskette ID | File Name/Header

REMARKS

MAX. DEPTH = m

☐ PAR ☑ FLUOR ☑ ChlAM ☐ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
	101									
1	~~24~~ 24.1									
2	24.1									
3	24.1									
4	24.1									
5	10.0									
6	10									
7	10									
8	10									
9	10									
10	10									
11	10									
12	10									

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~210~~222	150° 1.2m	Spar3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
295	54	13.21	N	162	02.40	W	17	AUG	99	07	01	8.2		1015			190	8	8	7	2	935	Spar3

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

☒ PAR ☒ FLUOR ☒ ChlAM ☐ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~222	160° 1.2	SPW 2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
296	54	13.26	N	170	49.60	W	17	AUG	99	08	43	7.4	.	1015	5		160	16			2	843	SPW2

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[ ] PAR [ ] FLUOR [ ] ChlAM [ ] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1	48.0									
2	30.4									
3	20.3									
4	3.5									
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	160° 1.0m	Spw1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
297	57	13.25 N	140	25.35 W	1	AUG	99	9	33	7.8	.	1014			160	014		2		4/7	Spw1

CTD	TIMES	JD/TIME
TYPE & SN	DATA ON	
PRESS SN	START DOWN	
TEMP SN	AT DEPTH	
COND SN	AT SURFACE	
TEMP SN		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

☒ PAR ☒ FLUOR ☒ CHTAM ☒ TRANSMISSOMETER ☐ Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	5.6					HX222 297 01				
2	20.4									
3	2.6									
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~ 222	160° 1.2 m	SPG 1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
							14																
198	57	00	.26 N	140	18.18 W	~~28~~	A	U	G 99	1	12	7.5	.	1 74			160	12			2	64	5P61

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN	~~PAR~~ ~~FLUOR~~ ~~ChlAM~~ ~~TRANSMISSOMETER~~				Cleaned air bleed valve

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	WHIT's NUTR.
1	62.5									
2	32.0									
3	28.1									
4	5.0									
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~222	160° 1.2	5962

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
299	56	53.20	N	120	08.14	W	17 AUG	99		1222		7.5		1014			160	14			2	82	5962

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN	~~PAR~~ ~~FLUOR~~ ~~ChlAM~~ ~~TRANSMISSOMETER~~ ☐ Cleaned air bleed valve				

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1	~~30.2~~	~48								
2	~~20.6~~	30.2								
3	~~2.3~~	20.6								
4	2.3									
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX~~219~~222	160 51.2	SPG3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE .	VISIBILITY .	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) .	CLOUD TYPE .	WEATHER .	BOTTOM DEPTH (m)	STA. NAME/ID
30	56	46.12	N	169	57.95	W	19	AUG	99	1334		7.3		1014			160	10			2	81	SPG3

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				MAX. DEPTH = m
TEMP SN	☐ PAR ☐ FLUOR ☐ ~~CHLAM~~ ☐ TRANSMISSOMETER		☐ Cleaned air bleed valve		

POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT's NUTR.
1	48.2					Hx222 300 01				
2	30.6									
3	20.6									
4	10.8									
5	10.6									
6	10.3									
7	10.6									
8	10.4									
9	10.6									
10	10.6									
11	10.2									
12	3.5									