

cards

NUMBER

79-0026

19-007  
RCUD: 5/2/79

### DATA DOCUMENTATION FORM

TR3840 F144  
TR3841 F009

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEANOGRAPHIC DATA CENTER  
RECORDS SECTION  
WASHINGTON, DC 20235

FORM APPROVED  
O.N.S. No. 41-K2651  
EXPIRES 1-81

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

## ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED			
Moody College - Texas A+M University System Bldg 311, Ft. Crockett Galveston, Texas 77550			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
SPR - Brine Disposal Program Bacteria Project		1	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. NATIONALITY(IES)	7. DATES
CUS III	SHIP	U.S.	U.S.
		PLATFORM	OPERATOR
		U.S.	U.S.
		FROM: MO/DAY/YR	TO: MO/DAY/YR
		6/23/78	6/30/78
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____		GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)? (IF YES, SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
10. PERSON TO WHOM INQUIRIES CONCERNING THIS DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) John R. Schwarz 715-740-0105			

2. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Sediment texture	N/A (not applicable)	visual inspection	N/A	N/A
Sediment and water temperature	°C	Thermometer inserted into sample after retrieval	N/A	N/A
Water salinity	‰	Goldberg refractometer	N/A	N/A
Depth	m	sounding of the bottom with a marked hydro-wire	N/A	N/A
Predominant aerobic heterotrophic bacterial genera of sediment and water; predominant halophilic bacterial genera of sediment	N/A	N/A	Isolates selected from plates used for enumeration; identification based on <u>Bergey's Manual of Determinative Bacteriology</u> , 8 <sup>th</sup> Edition	N/A
Bacterial colony types of sediment and water	Number of colony types /plate	N/A	Visual inspection of colonies on Marine Agar 2216 plates	N/A

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Bacterial populations: total aerobic heterotrophic and halophilic bacteria of sediment; total aerobic heterotrophic bacteria of water	number/ml	N/A	Serial dilutions of sample spread-plate on nutrient media. Enumeration of bacterial colonies after 10 days incubation at in situ temperature	Mean $\pm$ 1 standard deviation calculated
Hydrocarbon degrading bacteria of sediment	most probable number/ml	N/A	Serial dilutions of sample inoculated into basal-oil tubes. Most probable number determined after 30 days incubation at in situ temperature.	Mean $\pm$ 1 standard deviation calculated
Bacterial diversity index of sediment and water	N/A	N/A	Two indices were used: $S/\sqrt{N}$ and $S-1/\log N$ , where $S$ = number of colony types/plate and $N$ = total number of colonies/plate.	Mean $\pm$ 1 standard deviation calculated
Percent hydrocarbon degrading bacteria of sediment	%	N/A	Mean number of hydrocarbon degrading bacteria/ml $\div$ by the mean number of aerobic heterotrophic bacteria/ml $\times 100$ .	N/A
Percent halophilic bacteria of sediment	%	N/A	Mean number of halophilic bacteria/ml $\div$ by the mean number of aerobic heterotrophic bacteria/ml $\times 100$ .	N/A

C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE  
AND THE METHOD OF IDENTIFYING EACH RECORD TYPE

Format 09A, cards, sample coding sheet attached

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

[Empty box for file organization description]

3. RECORDING ATTRIBUTES AS EXPRESSED IN  PL-1  ALGOL  COBOL  
 FORTRAN  \_\_\_\_\_ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER

Jack Foreman

ADDRESS \_\_\_\_\_

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD    <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII    <input type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input type="checkbox"/> 3/4 INCH</p> <p><input type="checkbox"/> _____</p>	
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> _____</p>	
<p>7. PARITY</p> <p><input type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p> </p> <p> </p>	
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI    <input type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>		<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p>
		<p>13. LENGTH OF BYTES IN BITS</p>

FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g. 00a, 0yha)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '009'
File Identifier	4	6	Bytes	A6	Date of file creation (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '1'
Vessel	11	11	Bytes	11A1	Left justified
Cruise Identification	22	6	Bytes	6A1	Originator's cruise identifier
Cruise Dates	28	17	Bytes	5(I2,A1),I2	Beginning month, day, year; Ending month, day, year XX/XX/XX-XX/XX/XX
Senior Scientist	45	19	Bytes	19A1	Left justified
Investigator/ Institution	64	17	Bytes	17A1	Responsible investigator/institution, left justified

1. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., Min, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '009'
File Identifier	4	6	Bytes	A6	Date of file creation (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '2'
<del>*Sequence Number</del>	<del>11</del>	<del>3</del>	<del>Bytes</del>	<del>I3</del>	<del>Sequence of this record type within station</del>
<del>Station Number</del>	<del>14</del>	<del>5</del>	<del>Bytes</del>	<del>A5</del>	<del>Station identifier</del>
Latitude, Degrees	19	2	Bytes	I2	"N" or "S"
Minutes	21	2	Bytes	I2	
Seconds	23	2	Bytes	I2	
Hemisphere	25	1	Bytes	A1	
Longitude, Degrees	26	3	Bytes	I3	"E" or "W"
Minutes	29	2	Bytes	I2	
Seconds	31	2	Bytes	I2	
Hemisphere	33	1	Bytes	A1	
Time, Hours	34	2	Bytes	I2	00-23
Tenths of Hours	36	1	Bytes	I1	0-9
Date	37	8	Bytes	2(I2,A1),I2	xx/xx/xx Sample date (year, month, day)
Depth to Bottom	45	5	Bytes	I5	Meters to tenths (Not recorded for sediment measurements)
<del>Integration Code</del>	<del>50</del>	<del>2</del>	<del>Bytes</del>	<del>I2</del>	
<del>Analytical Procedure Code</del>	<del>52</del>	<del>3</del>	<del>Bytes</del>	<del>I1</del>	<del>1 - Hydrocarbonoclastic bacteria - MPN dilution procedure</del> <del>2 - Heterotrophic bacteria - MPN dilution procedure</del> <del>3 - Both</del>
Sample	53	4	Bytes	I4	Whole meters
Code	57	1	Bytes	A1	
Water Temperature	58	3	Bytes	I3	Tenths of a degree Celsius

STATION NAME Station Header Record - Bacteriology (con't)

4. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes <small>(e.g. bits, bytes)</small>	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Sediment Temperature	61	3	Bytes	I3	Tenths of a degree celsius <i>(Not recorded for water measurements)</i>
Lab Replicate Number	64	1	Bytes	I1	
Blank	65	16	Bytes	16x	

FIELD NAME	15. POSITION FROM -1 MEASURED IN BYTES (e.g., 000, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING <i>Record type 3 not used for this data set.</i>
		NUMBER	UNITS		
Line Type	1	3	Bytes	A3	Always '009'
Identifier	4	6	Bytes	A6	Date of file creation (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '3'
Sequence Number	11	3	Bytes	I3	Sequence of this record type within station
Station Number	14	5	Bytes	A5	Station identifier
Barometric Pressure	19	3	Bytes	I3	Millibars to tenths
Temp Dub	22	4	Bytes	I4	Air temperature; degrees Celsius to tenths
Temp Sblb	26	4	Bytes	I4	Air temperature; degrees Celsius to tenths
Wind Direction	30	2	Bytes	I2	WMO Code 0877; tens of degrees
Wind Speed	32	2	Bytes	I2	Whole knots
Wind Direction	34	2	Bytes	I2	WMO Code 0885; tens of degrees
Wind Weight	36	1	Bytes	A1	WMO Code 1555
Wind Direction	37	2	Bytes	I2	WMO Code 0885
Wind Weight	39	1	Bytes	A1	WMO Code 1555
Wind Weight	40	2	Bytes	I2	WMO Code 4677
Clouds	42	1	Bytes	A1	WMO Code 0513
Clouds	43	1	Bytes	A1	WMO Code 0515
Clouds	44	1	Bytes	A1	WMO Code 0509
Over	45	1	Bytes	I1	WMO Code 2700
Over	46	1	Bytes	I1	WMO Code 4300
Over	47	1	Bytes	1x	
Priority Code	48	1	Bytes	I1	
Period	49	2	Bytes	I2	Whole seconds



1. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Swell. Period	51	2	Bytes	I2	Whole seconds
Sea Surface Temperature	53	3	Bytes	I3	To tenths of a degree celsius
Blank	56	25	Bytes	25x	

\*The sequence number may be used as a record or file terminator. This would permit the appropriate format specification when a new record type is to be read. Bytes 1 through 10 are repeated - Bytes 14 to 80 are blank and '998' written in the sequence number to indicate the next record type is to follow. Similarly '999' in bytes 11-13 indicates the next record is also the start of a new file identifier.

RECORD NAME Date Record I - Bacteriology

1. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g. 100, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '009'
File Identifier	4	6	Bytes	A6	Date of file creation (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '4'
<del>Sequence Number</del>	<del>11</del>	<del>3</del>	<del>Bytes</del>	<del>I3</del>	<del>Sequence of this record type within station</del>
Station Number*	14	5	Bytes	A5	Station identifier
<del>Grab Replicate Number</del>	<del>19</del>	<del>1</del>	<del>Bytes</del>	<del>A1</del>	
Heterotrophic Bacteria	20	7	Bytes	*I4,A1,I2	Per ml if water, per gram if sediment, per m <sup>2</sup> if surface film, MPN value (see sphere code)
Hydrocarbonoclastic Bacteria	27	7	Bytes	I4,A1,I2	Same as above
Halophilic Bacteria	34	7	Bytes	I4,A1,I2	Same as above
Blank	41	40	Bytes	40x	
					*xxx.xx Four significant figures (with implied decimal place), exponent sign, and 2 digits for exponent
Sample	19	5	Bytes	A5	Sample identifier

CORD NAME Data Record II - Bacteriology

1. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '009'
File Identifier	4	6	Bytes	A6	Date of file creation (YYMMDD) or unique cruise number
Record Type	10	1	Bytes	I1	Always '5'
<del>Sequence Number</del>	<del>11</del>	<del>3</del>	<del>Bytes</del>	<del>I3</del>	<del>Sequence of this record type within station</del>
Station Number*	14	5	Bytes	A5	Station identifier
<del>Grab Replicate Number</del>	<del>19</del>	<del>1</del>	<del>Bytes</del>	<del>A1</del>	
NOSC Taxonomic Code	20	12	Bytes	6A2	To sub-species when possible
Number of Colonial types in Group	32	2	Bytes	I2	
nk	34	47	Bytes	47x	
Sample	19	5	bytes	A5	Sample identifier



Error Correction Documentation Form

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 790026  
TR 3841

- 1) File Type: 009
- 2) Project Ident.: SPR-BRINE DISPOSAL (RE/202)
- 3) Track Nos.: TR 3841  
TR 3840 F144

I. Error Corrections as reported to Principal Investigator:

<u>Error</u>	<u>Correction Completed (Check)</u>
<u>YR/MO/Day</u>	<u>MG/12/12</u> ✓ <u>T.J.M</u>

see Correction sheet 79-0026

II. Additional error corrections:

<u>Error</u>	<u>Correction Completed (Check)</u>
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III. Processor Name: \_\_\_\_\_

## Corrections 79-0026

File ID 790713 changed to TR3841

Originator lab sample numbers not unique. See "Mulchok run before corrections." Using <sup>the</sup> editor - lab sample numbers corrected and made unique.

Record #428 - a record type 4 within lab sample # grouping B18 had a lab sample # B17. This lab sample # corrected to B18.

2 Taxonomic code shifts, record type 5.  
Record #101 in lab sample # grouping A9  
tax code 02050401 shifted 1 column to left.  
Record #391 in lab sample # grouping BB14  
tax code 020806 shifted 2 columns to left.

Data Set Route Sheet

TR3841

Accession # 79-0026

Step	Completion Date/Init.	Tape #, # of Files	BLKSIZE, LRECL
1. Originator Tape #	5/2/79 FJM	CARDS 1	80 80
2. Duplicate Tape #	5/4/79 FJM	6196 1	4800 80
3. DDF Evaluation			
4. Quality Review			
5. Preliminary Data Sort			
6. Preliminary Check	11/05/80 CMH		
7. First User Tape #			
8. Final User Tape #	11/17/80 CMH	015282 6th file	
9. Final Check	11/14/80 CMH		
10. NAPIS Inventory			
11. DIP Inventory			
12. Data Set 'Finalized'			

NOTE: NODC TAPE COPY OF ORIGINATOR'S

CARDS = 954, LABEL = (1, SL)

LRECL = 80, BLKSIZE = 4800

DSN = BRINE.FILET009

B:4:02

79-0026  
1123841

TAPE ASSIGNMENT SHEET

(MRL) 11/6/78

ACCESSION NO:

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS
ORIGINATOR	CARDS DISCL.F	— SL	80 80	80 60	F FB	
QUADL DUPLICATE	6196	N	80	4800	FB	
REFORMATTED						
FIRST USER	DMNDE* MPD75. F00973841		80 variable No.	60 Length		SDF, accu. Output
FINAL USER						



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TR3841

TAPE ASSIGNMENT SHEET (MRL) 11/6/78

ACCESSION NO:

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BKSIZE	RECFM	REMARKS
ORIGINATOR	CARDS	—	80	80	F	
	DISCLF	SL	80	60	FB	
QUADL DUPLICATE	6196	N	80	4800	FB	
REFORMATTED						
FIRST USER	DMNDE* MPD75. FDD9T3841		80 variable length	60		SDF. ascii Output
FINAL USER						

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7900026	F144	TR3840	0093	312L	31G3	1978/06/13	780927	308761
7900026	F009	TR3841	0093	312F	31G3	1978/06/23	NULL	308762

(2 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7900026	F144	TR3840	31G3	14	105	78/06/13	78/06/13
7900026	F009	TR3841	31G3	52	456	78/06/23	78/06/30

(2 rows affected)