STORET Version 2.0.2
Report Module
Reference Guide

STORET Technical Support

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United States Environmental Protection Agency
Office of Water

CONTENTS

REPORT TECHNICAL SPECIFICATIONS

This reference manual provides the technical specifications for the reports included in the STORET Report Module. The technical specifications provide details regarding the content and layout of the reports. The reports were developed using the Oracle Developer 2000 Report Builder.

The following information is contained within this document.

- Report Design Standards.
- Report Descriptions.
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- Structured Query Language (SQL) Statements.
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- Association of Columns to Report Headings.
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Report Design Standards

The following table presents the report design standards that have been established for all STORET reports.

Item	Font	Size	Type	Position	Format
Report Title with underline	Arial	12 pt	Bold	Centered	-
Report Run Date and Time	Arial	8pt	Regular	Right Justified	Full month name DD, YYYY HH:MM:SS (time is military)
Tabular, Heading	Arial	8pt	Bold	Left Justified Column*	-
Tabular, Text	Arial	8pt	Regular	Left Justified Column*	-
Column, Headings	Arial	8pt	Bold	Left Justified Column*	-

Item	Font	Size	Type	Position	Format
Column, Data	Arial	8pt	Normal	Left Justified Column*	-
Organization ID & Name	Arial	10pt	Bold	Left Justified	-
Page Numbering	Arial	8pt	Regular	Centered	Page X of X
Margins	-	1"	-	-	-

* - Exceptions are made to the justification depending upon data representation needs, such as numerical result values.

Hidden fields usually include any associated prompt. Prompt headers for blocks of data will also be hidden if no data is present for the entire block. Hidden fields and prompts are specified for each report.

Technical Specifications

The following sections provide the report technical specifications for the STORET Report Module.

Organization Summary

Report Description: This report provides a summary of data associated with each selected Organization including Organization ID, Name, Description, Type, Associations, Physical Addresses, and Electronic Addresses.

The following fields will be hidden if no data is present:

- All fields.
- Physical Addresses prompt, if no physical address data.
- Electronic Addresses prompt, if no electronic address data.

Select Logic:

OrganizationSummary.sql

```
SELECT  O.TSMORGAN_IS_NUMBER, RTrim(O.ORG_ID) ORG_ID,
RTrim(O.NAME)  ORG, RTrim(O.TYPE_CODE) ORG_TYPE,
O.SUPERFUND_SITE_ID, O.DESCRIPTION_TEXT, O.PARENT_ORG,
RTRIM(A.TYPE_CODE)  ADD_TYPE, A.LINE_ONE_TEXT, A.LINE_TWO_TEXT,
A.LINE_THREE_TEXT, A.LINE_FOUR_TEXT, A.STATE_POSTAL_CODE,
A.COUNTRY_CODE,
DECODE(A.START_DATE,'01-JAN-01',NULL,TO_CHAR(A.START_DATE,'MM/DD/
RRRR')) START_DATE
FROM TSMORGAN O, TSMADDR A
WHERE O.TSMORGAN_IS_NUMBER = A.TSMORGAN_IS_NUMBER(+)
&P_ORG
ORDER BY O.ORG_ID,  A.TYPE_CODE
```

OrganizationEaddress.sql

```
SELECT TSMORGAN_IS_NUMBER, RTRIM(TYPE_CODE) ETYPE,
RTRIM(ADDRESS_TEXT) ADDRESS_TEXT, RTRIM(COMMENT_TEXT)
COMMENT_TEXT
FROM TSMEADDR
WHERE TSMORGAN_IS_NUMBER IS NOT NULL
ORDER BY TYPE_CODE, ADDRESS_TEXT
```

Select Options: Organizations

Sort Sequence: By ascending Organization ID, by Physical then Electronic Addresses, by ascending Address Type.
Physical Addresses by Line 1, then Line 2, then Line 3, then Line 4 text.
Electronic Addresses by ascending Address.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
N/A	Type	TYPE_CODE

Report Heading	Prompt Name	Oracle Name
N/A	Description	DESCRIPTION_TEXT
N/A	Parent Organization	PARENT_ORG
Superfund Site ID	Superfund Site ID	SUPERFUND_SITE_ID
O6 Organization Address Data Entry		TSMADDR
Physical Addresses (Located at, Mailing, Shipping)	Type	TYPE_CODE
	Line 1	LINE_ONE_TEXT
	Line 2	LINE_TWO_TEXT
	Line 3	LINE_THREE_TEXT
	Line 4	LINE_FOUR_TEXT
	Country	COUNTRY_CODE
	Effective Date	START_DATE
O7 Organization Electronic Address Data Entry		TSMEADDR
Electronic Addresses (Commercial Network, Fax, Internet, Other, Phone)	Type	TYPE_CODE
	Number	ADDRESS_TEXT
	Comments	COMMENT_TEXT

EXAMPLE

Organization Summary

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

US Government/Interstate Commission

Superfund Site ID WWWWWWWWWWWWWWWWWWWW

This Commission was formed with the charter to clean up Cheasapeake Bay. Members include the State Environmental Agencies from Maryland, Virginia, NewJersey, Pennsylvania, and West Virginia. The Commission is headquartered in Annapolis, Maryland.

US Environmental Protection Agency

Physical Addresses

Located at
132 South Water Street
Annapolis, MD 30987
US
03-12-1990

Mailing
P.O. Box 666
Annapolis, MD 30987
US
03-12-1990

Shipping
P.O. Box 666
Annapolis, MD 30987
US
03-12-1990

Electronic Addresses

Commercial Network
301-863-9823
Director' Fax

Fax
301-863-9823
Director' Fax

Fax
401-863-9823
Director' Fax

Internet
cbay.commission@chesapeakebay.gov
General E-Mail

Other
301-678-9807
24 hour Emergency Number

Phone
301-782-9087
General Office Locator

Personnel Summary

Report Description: This report provides a summary of personnel information for the selected Organization including Personnel Names, Suspension Status, Affiliations, Titles, and Electronic Address information. Active and Suspended personnel are included.

The following fields will be hidden if no data is present:

- Electronic Address and Type.
- Comments.

Select Logic:

PersonnelSummary.sql

```
SELECT  RTRIM(O.ORG_ID) ORG_ID,  RTRIM(O.NAME) ORG,
P.TSMPERSN_IS_NUMBER, P.TSMPERSN_ORG_ID, RTRIM(P.LAST_NAME) || ', ' ||
RTRIM(P.FIRST_NAME) PNAME,
DECODE(P.ACTIVE_INDICATR_CD,'Y','Active','N','Susp',' ') STATUS,
RTRIM(P.AFFILIATION_TEXT) AFFILIATION_TEXT,  E.TYPE_CODE,
RTRIM(E.ADDRESS_TEXT) ADDRESS_TEXT, RTRIM(E.COMMENT_TEXT)
COMM
FROM TSMORGAN O, TSMPERSN P, TSMEADDR E
WHERE O.TSMORGAN_IS_NUMBER = P.TSMORGAN_IS_NUMBER AND
P.TSMPERSN_IS_NUMBER = E.TSMPERSN_IS_NUMBER(+) AND
P.TSMPERSN_ORG_ID = E.TSMPERSN_ORG_ID(+)
&P_ORG
ORDER BY O.ORG_ID, P.LAST_NAME, P.FIRST_NAME, E.TYPE_CODE,
E.ADDRESS_TEXT
```

PersonnelTitle.sql

```
SELECT  A.TSMPERSN_IS_NUMBER, A.TSMPERSN_ORG_ID, RTRIM(R.TITLE)
TITLE FROM  TSMPRA A, TSMPROLE R
WHERE A.TSMPROLE_IS_NUMBER = R.TSMPROLE_IS_NUMBER AND
A.TSMPROLE_ORG_ID = R.TSMPROLE_ORG_ID
ORDER BY R.TITLE
```

Select Options: Organizations

Sort Sequence: By ascending Organization ID, by Active then Suspended Status, by ascending Personnel Last Name, by ascending Personnel First Name.

- Title column by ascending Title.
- Electronic Address by ascending Address Type, by ascending Address.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID

Report Heading	Prompt Name	Oracle Name
N/A	Name	NAME
O17 Personnel Data Entry		TSMPERSN
Name	First Name	FIRST_NAME
	Last Name	LAST_NAME
Affiliation	Affiliation	AFFILIATION_TEXT
Status	N/A	ACTIVE_INDICATR_CD
N/A		TSMPROLE
Title	N/A	TITLE
O19 Personnel Electronic Address Data Entry		TSMEADDR
Electronic Address	Type	TYPE_CODE
	Number	ADDRESS_TEXT
	Comments	COMMENT_TEXT

EXAMPLE

Personnel Summary

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Name	Status	Affiliation	Title	Type	Electronic Address
Boyd, Joyce	Active	Commission for a Good Clean Chesapeake Bay	Limnologist	Fax	301-260-5368
				Internet	BoydJ@AOL.com
Brady, Don	Active	US Environmental Protection Agency	Biologist Limnologist	Commercial Network Other	202-260-7865 202-260-7866 Home office phone, use only in emergency
				Internet	Brady.don@epamail.epa.gov
Axle, Flywheel	Susp	Naturalist Society	STORET Primary Contact	Phone	555-555-5555
Flywheel, Axle	Susp	Naturalist Society	Ecologist	Phone	555-555-5555

Program Summary

Report Description: This report provides the name and description of Organizational and National Programs with the ID and name of Projects assigned to the Organizational and National Programs.

Programs without assigned Projects will have the Project title appear with the word “None” in the Project ID position.

Special Separators

- 3.5 inch centered line after each program.

Select Logic:

ProgramSummary.sql

```
SELECT  O.TSMORGAN_IS_NUMBER, RTrim(O.ORG_ID) ORG_ID,
RTrim(O.NAME) ORG, DECODE(P.TYPE_CODE, 'NAT','National Program',
'Organizational Program') TYPE, RTrim(P.NAME) PROG,  T.DESCRIPTION_TEXT,
DECODE(J.IDENTIFICATION_CD, NULL, 'None',RTrim(J.IDENTIFICATION_CD))
PROJ, DECODE(J.IDENTIFICATION_CD, NULL, NULL, RTrim(J.NAME))
PROJ_NAME
FROM TSMORGAN O, TSMPROGM P, TSMGNTXT T, TSMPRPRA A, TSMPROJ J
WHERE O.TSMORGAN_IS_NUMBER = P.TSMORGAN_IS_NUMBER And
P.TSMPROGM_IS_NUMBER = T.TSMPROGM_IS_NUMBER(+) AND
P.TSMPROGM_ORG_ID = T.TSMPROGM_ORG_ID(+) AND
P.TSMPROGM_IS_NUMBER = A.TSMPROGM_IS_NUMBER(+) And
P.TSMPROGM_ORG_ID = A.TSMPROGM_ORG_ID(+) AND
A.TSMPROJ_IS_NUMBER = J.TSMPROJ_IS_NUMBER(+) AND
A.TSMPROJ_ORG_ID = J.TSMPROJ_ORG_ID(+)
&P_ORG
ORDER BY O.ORG_ID, P.NAME, J.IDENTIFICATION_CD
```

ProgramSummaryNationalPrg.sql

```
SELECT  DISTINCT J1.TSMORGAN_IS_NUMBER, P.TSMPROGM_IS_NUMBER,
P.TSMPROGM_ORG_ID, RTrim(P.NAME) NPRG,  T.DESCRIPTION_TEXT
NPRG_DSC
FROM  TSMPROJ J1, TSMPRPRA A1, TSMPROGM P, TSMGNTXT T
WHERE J1.TSMPROJ_IS_NUMBER= A1.TSMPROJ_IS_NUMBER AND
J1.TSMPROJ_ORG_ID=A1.TSMPROJ_ORG_ID AND
A1.TSMPROGM_IS_NUMBER=P.TSMPROGM_IS_NUMBER AND
A1.TSMPROGM_ORG_ID=P.TSMPROGM_ORG_ID And
P.TSMPROGM_IS_NUMBER = T.TSMPROGM_IS_NUMBER(+) AND
P.TSMPROGM_ORG_ID = T.TSMPROGM_ORG_ID(+) AND P.TYPE_CODE='NAT'
ORDER BY NPRG
```

ProgramSummaryNationalPrgProject.sql

```
SELECT  A2.TSMPROGM_IS_NUMBER, A2.TSMPROGM_ORG_ID,
DECODE(J2.IDENTIFICATION_CD, NULL, 'None',RTrim(J2.IDENTIFICATION_CD))
NPRJ,
DECODE(J2.IDENTIFICATION_CD, NULL, NULL, RTrim(J2.NAME)) NPRJ_NAME
FROM  TSMPRPRA A2, TSMPROJ J2
```

WHERE A2.TSMPROJ_IS_NUMBER = J2.TSMPROJ_IS_NUMBER AND
A2.TSMPROJ_ORG_ID = J2.TSMPROJ_ORG_ID
ORDER BY NPRJ

Select Options: Organizations

Sort Sequence: By ascending Organization ID, by ascending Program Type, by ascending Program Name, by ascending Project ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
O9 Program Data Entry		TSMPROGM
Organizational Program	Name	NAME
	(System Generated)	TYPE_CODE
		TSMGNTXT
N/A	Description	DESCRIPTION_TEXT
RT25 National Program Data Entry		TSMPROGM
National Program	Name	NAME
	(System Generated)	TYPE_CODE
		TSMGNTXT
N/A	Description	DESCRIPTION_TEXT
PJ4 Project Data Entry		TSMPROJ
Project	ID	IDENTIFICATION_CD
	Name	NAME

EXAMPLE

Program Summary

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

National Program Chesapeake Bay Nutrient Clean-up

This multi-org program includes Projects from all the Commission Cooperating Organizations which deal with the nutrient control in the Chesapeake Bay.

Project	CBCP-001	Water Quality and Biological Health of the Chesapeake Bay
Project	SSSS-001	Stephen Smith's Superior Sampling

National Program Botanists United National Program

This program is specifically dedicated to botanical taxonomy.

Project None

Organizational Program Pfiesteria Study of the Pocomoke and Wicomico River System

Enter a detailed description of the "Pfiesteria Study of the Pocomoke and Wicomico River System".

Project	CBCP-001	Water Quality and Biological Health of the Chesapeake Bay
Project	CBCP-002	Sediment Toxicity Study of the Wicomico River

Cooperating Organization Summary

Report Description: This report provides a summary of data associated with each selected Organization including Cooperating Organization ID and Name, Cooperating Organization, Point of Contact, Physical Addresses, and Electronic Addresses.

The following fields will be hidden if no data is present:

- All fields.
- Physical Addresses prompt, if no physical address data.
- Electronic Addresses prompt, if no electronic address data.

Select Logic:

CooperatingOrganizations.sql

```
SELECT  RTRIM(O.ORG_ID) ORG_ID, RTRIM(O.NAME) ORG,
C.TSMCPORG_IS_NUMBER, C.TSMCPORG_ORG_ID, RTRIM(C.NAME) ||
DECODE(C.POC_NAME, ' ', '', ' / ' || RTRIM(C.POC_NAME)) COP,
RTRIM(A.TYPE_CODE)  ADD_TYPE, A.LINE_ONE_TEXT, A.LINE_TWO_TEXT,
A.LINE_THREE_TEXT, A.LINE_FOUR_TEXT, A.STATE_POSTAL_CODE,
A.COUNTRY_CODE, DECODE(TO_CHAR(A.START_DATE, 'MM/DD/YYYY'),
'01/01/0001', NULL, TO_CHAR(A.START_DATE, 'MM/DD/YYYY')) START_DATE
FROM TSMORGAN O, TSMCPORG C, TSMADDR A
WHERE O.TSMORGAN_IS_NUMBER = C.TSMORGAN_IS_NUMBER AND
C.TSMCPORG_IS_NUMBER = A.TSMCPORG_IS_NUMBER(+) AND
C.TSMCPORG_ORG_ID = A.TSMCPORG_ORG_ID(+)
&P_ORG
ORDER BY O.ORG_ID, C.NAME, A.TYPE_CODE
```

CooperatingOrgEaddress.sql

```
SELECT  A.TSMCPORG_IS_NUMBER, A.TSMCPORG_ORG_ID,
RTRIM(A.TYPE_CODE) Type, RTRIM(A.ADDRESS_TEXT) Addr,
RTRIM(A.COMMENT_TEXT) COMMENT_TEXT
FROM  TSMEADDR A
WHERE A.TSMCPORG_IS_NUMBER IS NOT NULL AND
A.TSMCPORG_ORG_ID IS NOT NULL
ORDER BY A.TYPE_CODE, A.ADDRESS_TEXT
```

Select Options: Organizations

Sort Sequence: By ascending Organization ID, by ascending Cooperating Organization Name, by Physical then Electronic Addresses, by ascending Address Type.

- Physical Addresses by Line 1, then Line 2, then Line 3, then Line 4 text.
- Electronic Addresses by ascending Address.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
O12 Cooperating Organization Data Entry		TSMCPORG
N/A	Name	NAME
N/A	Point Of Contact	POC_NAME
O14 Cooperating Organization Address Data Entry		TSMADDR
Physical Addresses (Located at, Mailing, Shipping)	Type	TYPE_CODE
	Line 1	LINE_ONE_TEXT
	Line 2	LINE_TWO_TEXT
	Line 3	LINE_THREE_TEXT
	Line 4	LINE_FOUR_TEXT
	Country	COUNTRY_CODE
	Effective Date	START_DATE
O15 Cooperating Organization Electronic Address Data Entry		TSMEADDR
Electronic Addresses (Commercial Network, Fax, Internet, Other, Phone)	Type	TYPE_CODE
	Number	ADDRESS_TEXT
	Comments	COMMENT_TEXT

EXAMPLE

Cooperating Organization Summary

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Maryland Department of Natural Resources / Dr. Albert White

Physical Addresses

Located at:
132 South Water Street
Annapolis, MD 30987
US
03-12-1990

Mailing:
P.O. Box 666
Annapolis, MD 30987
US
03-12-1990

Shipping:
P.O. Box 666
Annapolis, MD 30987
US
03-12-1990

Electronic Addresses

Commercial Network:
301-863-9823
Director' Fax

Fax:
301-863-9823
Director' Fax

Fax:
401-863-9823
Director' Fax

Internet:
cbay.commission@chesapeakebay.gov
General E-Mail

Other:
301-678-9807
24 hour Emergency Number

Phone:
301-782-9087
General Office Locator

Field/Lab Analytical Procedures and Equipment Summary

Report Description: This report provides Field/Lab Analytical Procedures for the selected Organization including Procedure ID, Procedure Source and Procedure Name. Active and Suspended procedures are included.

Select Logic: **FieldLabAnalyticalProceduresAndEquipmentSummary.sql**

```
SELECT  RTRIM(O.ORG_ID) ORG_ID, RTRIM(O.NAME) ORG,  P.PROCEDURE_ID,
P.NAME, P.SOURCE_ACR, DECODE(A.SUSPEND_INDICATOR, 'N', 'Active', 'Y',
'Susp', Null) Status
FROM TSMORGAN O, TSROAPA A, TSRANLPR P
WHERE O.TSMORGAN_IS_NUMBER = A.TSMORGAN_IS_NUMBER  AND
A.TSRANLPR_IS_NUMBER=P.TSRANLPR_IS_NUMBER  AND
A.TSRANLPR_ORG_ID = P.TSRANLPR_ORG_ID
&P_ORG
ORDER BY  O.ORG_ID, Status, P.PROCEDURE_ID
```

Select Options: Organizations

Sort Sequence: By ascending Organization ID, by Active then Suspended Status, by ascending Procedure ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
P3 Organization Field/Lab Analytical Procedure Data Entry **RT17 Analytical Procedure Data Entry**		TSRANLPR
Procedure ID	Procedure ID	PROCEDURE_ID
Procedure Name	Name	NAME
Procedure Source	Acronym, (Org. Source is Sys. Gen.)	SOURCE_ACR
		TSROAPA
Status	N/A	SUSPEND_INDICATOR

EXAMPLE

Field/Lab Analytical Procedures and Equipment Summary

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Procedure ID	Status	Procedure Source	Procedure Name
160.5	Active	USEPA/ORD	Settleable Matter
5001	Active	NIOSH	2,4-D by HPLC/UV
Sediment	Active	DEMOTEST	Field Sediment Analysis
100	Susp	USEPA/OPP	Field Air Analysis
Water	Susp	DEMOTEST	Field Water Analysis

Field/Lab Analytical Procedures and Equipment Detail

Report Description: This report provides Field/Lab Analytical Procedure information including Procedure Source, Procedure ID, Procedure Name, Citations, Equipment, Comparable National Procedure ID. Active and Suspended procedures are included.

Special Separators

- Hairline between each procedure.

The following fields will be hidden if no data is present:

- Description.

Select Logic:

FieldLabAnalyticalProceduresAndEquipmentDetail.sql

```
SELECT O.ORG_ID,
RTRIM(O.NAME) ORG_NAME,
P.SOURCE_ACR,
P.PROCEDURE_ID,
DECODE(A.SUSPEND_INDICATOR, 'N', 'Active', 'Y', 'Susp', Null) Status,
P.NAME,
A.TSMORGAN_IS_NUMBER,
A.TSRANLPR_IS_NUMBER,
A.TSRANLPR_ORG_ID,
DECODE(RTRIM(C.IDENTIFICATION_CD),NULL,'',RTRIM(C.IDENTIFICATION_C
D) || ' - ') ||
DECODE(C.AUTHOR_NAME,NULL,'',C.AUTHOR_NAME) ||
DECODE(C.PUBLICATION_YEAR, NULL,'', ' || RTRIM(C.PUBLICATION_YEAR))
|| DECODE(C.TITLE_NAME, NULL,'', ', ' ||C.TITLE_NAME) ||
DECODE(C.JRNL_OR_PBLSHR_NM, NULL,',', ' || C.JRNL_OR_PBLSHR_NM) ||
DECODE(C.VOL_AND_PG_NUM,NULL,',', ' ||  C.VOL_AND_PG_NUM) CITATION,
DECODE(P2.SOURCE_ACR,NULL,NULL,RTRIM(P2.SOURCE_ACR)||'/'||P2.PROCED
URE_ID) CMPID,
E.NAME ENAME,
P.DESCRIPTION_TEXT
FROM
TSMORGAN O,
TSROAPA A,
TSRANLPR P,
TSRCITN C,
TSRANLPR P2,
TSRANLEQ E
WHERE
O.TSMORGAN_IS_NUMBER = A.TSMORGAN_IS_NUMBER  AND
A.TSRANLPR_IS_NUMBER=P.TSRANLPR_IS_NUMBER AND
A.TSRANLPR_ORG_ID = P.TSRANLPR_ORG_ID  AND
P.TSRCITN_IS_NUMBER = C.TSRCITN_IS_NUMBER(+) AND
P.TSRCITN_ORG_ID = C.TSRCITN_ORG_ID(+) AND
P.TSRANLPR0IS_NUMBER =P2.TSRANLPR_IS_NUMBER(+) AND
P.TSRANLPR0ORG_ID=P2.TSRANLPR_ORG_ID(+) AND
P.TSRANLEQ_IS_NUMBER=E.TSRANLEQ_IS_NUMBER(+)  AND
```

P.TSRANLEQ_ORG_ID=E.TSRANLEQ_ORG_ID(+)
&P_ORG
ORDER BY
O.ORG_ID, Status, P.SOURCE_ACR, P.PROCEDURE_ID

Select Options: Organizations

Sort Sequence: By ascending Organization, by Active then Suspended Status, by ascending Procedure Source, by ascending Procedure ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
P3 Organization Field/Lab Analytical Procedure Data Entry **RT17 Analytical Procedure Data Entry** **RT15 Analytical Equipment Data Entry**		TSRANLPR
Procedure ID/Comparable National Procedure ID	Procedure ID/Comparable National Procedure	PROCEDURE_ID
Procedure Name	Name	NAME
Procedure Source	Acronym, (Org. Source is Sys. Gen.)	SOURCE_ACR
Description	Description	DESCRIPTION_TEXT
		TSROAPA
Status	N/A	SUSPEND_INDICATOR
		TSRANLEQ
Equipment	Equipment/Name	NAME
P42 Citation Data Entry **RT27 National Citation Data Entry**		TSRCITN
Citation	ID	IDENTIFICATION_CD
	Title Name	TITLE_NAME
	Name, Author	AUTHOR_NAME
	Name, Publishing Organization	JRNL_OR_PBLSHR_NM
	Publication Year, Publishing Organization	PUBLICATION_YEAR
	Volume and Page No.	VOL_AND_PG_NUM

EXAMPLE

Field/Lab Analytical Procedures and Equipment Detail

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Procedure Source	Procedure ID	Status	Procedure Name	Citation	Equipment	Comparable National Procedure ID
AOAC	972.23	Active	Lead in Fish	CITID0000012 - Association of Official Analytical Chemists, 1990, Official Methods of Analysis of the Association of Official Analytical Chemists, Association of Official Analytical Chemists, 15th edition	Atomic Absorption Spectrophotometer	
Description	WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW					
AOAC	972.24	Active	Lead in Shellfish	CITID0000012 - Association of Official Analytical Chemists, 1990, Official Methods of Analysis of the Association of Official Analytical Chemists, Association of Official Analytical Chemists, 15th edition	Atomic Absorption Spectrophotometer	
DEMOTEST	DO-001	Active	Field Method for Determination of Dissolved Oxygen, Probe	Dr. Lee Manning, 1987, Sampling the Chesapeake Bay for Fun and Profit, University of Virginia Press, 589 pp	Probe	HACH / 8157
AOAC	972.23	Susp	Lead in Fish	CITID0000012 - Association of Official Analytical Chemists, 1990, Official Methods of Analysis of the Association of Official Analytical Chemists, Association of Official Analytical Chemists, 15th edition	Atomic Absorption Spectrophotometer	
DEMOTEST	DO-002	Susp	Field Method for Determination of Things	Dr. Lee Manning, 1987, Sampling the Chesapeake Bay for Fun and Profit, University of Virginia Press, 589 pp	Probe	HACH / 8157

Lab Sample Preparation Procedures

Report Description: This report provides Lab Sample Preparation Procedure information including procedure Source Acronym, ID, Name, and Citation.

Special Separators

C Hairline between each procedure.

Select Logic:

LabSamplePreparationProcedures.sql

```
SELECT  O.ORG_ID,
O.NAME ORG_NAME,
P.SOURCE_ACR,
P.PREPARATION_ID,
P.NAME PNAME,
DECODE(RTRIM(C.IDENTIFICATION_CD),NULL,'',RTRIM(C.IDENTIFICATION_C
D) || ' - ') ||
DECODE(C.AUTHOR_NAME,NULL,'',C.AUTHOR_NAME) ||
DECODE(C.PUBLICATION_YEAR, NULL,'', ' || RTRIM(C.PUBLICATION_YEAR)) ||
DECODE(C.TITLE_NAME, NULL,'', ', ' ||C.TITLE_NAME) ||
DECODE(C.JRNL_OR_PBLSHR_NM, NULL,',', ' || C.JRNL_OR_PBLSHR_NM) ||
DECODE(C.VOL_AND_PG_NUM,NULL,',', ' ||  C.VOL_AND_PG_NUM) CITATION
FROM TSMORGAN O, TSROLSPA A, TSRLSPP P, TSRCITN C
WHERE
O.TSMORGAN_IS_NUMBER = A.TSMORGAN_IS_NUMBER
AND A.TSRLSPP_IS_NUMBER = P.TSRLSPP_IS_NUMBER
AND A.TSRLSPP_ORG_ID = P.TSRLSPP_ORG_ID
AND P.TSRCITN_IS_NUMBER = C.TSRCITN_IS_NUMBER(+)
AND P.TSRCITN_ORG_ID = C.TSRCITN_ORG_ID(+)
&P_ORG
ORDER BY
O.ORG_ID, P.SOURCE_ACR, P.PREPARATION_ID
```

Select Options: Organizations

Sort Sequence: By ascending Organization, by ascending Source Acronym, by ascending Procedure ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
P33 Organization Lab Sample Prep Procedure Data Entry **RT21 Lab Sample Prep Procedure Data Entry**		TSRLSPP
Procedure ID	Prep ID	PREPARATION_ID
Procedure Name	Name	NAME

Report Heading	Prompt Name	Oracle Name
Source	Acronym (Org. Source is Sys. Gen.)	SOURCE_ACR
P42 Citation Data Entry **RT27 National Citation Data Entry**		TSRCITN
Citation	ID	IDENTIFICATION_CD
	Title Name	TITLE_NAME
	Name, Author	AUTHOR_NAME
	Name, Publishing Organization	JRNL_OR_PBLSHR_NM
	Publication Year, Publishing Organization	PUBLICATION_YEAR
	Volume and Page No.	VOL_AND_PG_NUM

EXAMPLE

Lab Sample Preparation Procedures

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DEMOTEST The Commission for a Good Clean Chesapeake Bay

Source	Procedure ID	Procedure Name	Citation
AOAC	972.23	Lead in Fish	CITID0000012 - American Public Health Association,1992,Standard Methods for the Examination of Water and Wastewater, 18th Edition,American Public Health Association,18th Edition
DEMOTEST	DO-001	Field Method for Determination of Dissolved Oxygen, Probe	Commission for a Good Clean Chesapeake Bay, 1991, Standard Procedures for Sampling the Chesapeake Bay, Virginia Beach Press, 290 pp
DEMOTEST	DO-002	Filtration of Water Samples, 0.45 micron	Dr. Lee Manning, 1988, What the Hell is This? - Taxonomy of the Chesapeake Bay, University of Virginia Press, 1290 pp

Characteristic Group Summary

Report Description: This report provides a summary of the Characteristic Group data as entered into the Preferences and Defaults area of the system. The information presented can also be found in the Characteristic Group Details report.

Select Logic:

CharacteristicGroupSummary.sql

```
SELECT  O.ORG_ID,  O.NAME ORG_NAME, C.ID_CODE, RTRIM(C.NAME)
CNAME, RTRIM(C.FLD_ACT_TYPE_NM) FLD_ACT_TYPE_NM,
RTRIM(C.MEDIUM_TYPE_NAME) MEDIUM_TYPE_NAME,
RTRIM(C.INTENT_TYPE_NAME) INTENT_TYPE_NAME,
RTRIM(C.COMMUNITY_NAME) COMMUNITY_NAME,
RTRIM(C.RES_GRP_TYPE_NM) RES_GRP_TYPE_NM, C.HABITAT_ASSESS_IND
FROM TSMORGAN O, TSRCHGRP C
WHERE O.TSMORGAN_IS_NUMBER = C.TSMORGAN_IS_NUMBER
&P_ORG
ORDER BY O.ORG_ID, C.ID_CODE
```

Select Options: Organizations

Sort Sequence: By ascending Organization ID, by ascending Group ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
P13 Characteristic Group Data Entry		TSRCHGRP
Group ID	ID	ID_CODE
Group Name	Name	NAME
Field Activity	Field Activity	FLD_ACT_TYPE_NM
Medium	Medium	MEDIUM_TYPE_NAME
Intent	Intent	INTENT_TYPE_NAME
Community	Community	COMMUNITY_NAME
Result Group	Result Grp	RES_GRP_TYPE_NM
Habitat	Habitat Assessment?	HABITAT_ASSESS_IND

EXAMPLE

Characteristic Group Summary

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DEMOTEST The Commission for a Good Clean Chesapeake Bay

Group ID	Group Name	Field Activity	Medium	Intent	Community	Result Group	Habitat
CG-005	Wicomico River Worms	Sample	Biological	Taxon Abundance	Fish/Nekton	Multi-Taxon Population Census	N
CG-006	Wicomico River Fish	Sample	Biological	Taxon Abundance	Fish/Nekton	Multi-Taxon Population Census	N

Characteristic Group Details

Report Description:

This report provides detailed data of the Characteristic Groups associated with each selected Organization including default data. The data is represented in three different categories and is based on the following criteria:

- The Characteristic Group is flagged as a Habitat Assessment.
- The Characteristic Group is identified by Field Activity = Sample, Medium = Biological, Intent = Taxon Abundance, and Result Group = Multi-Taxon Population Census.
- All other occurrences.

The following fields will be hidden if no data is present:

- Acceptable Range.
- Particle Size Basis.
- Habit.
- Voltinism.
- Citations.
- Description.

Special Separators

- Hairline between each Characteristic Group.

Select Logic:

CharacteristicGroupDetails.sql

```
SELECT
O.TSMORGAN_IS_NUMBER,
O.ORG_ID,
O.NAME ORG_NAME,
C.TSRCHGRP_IS_NUMBER,
C.TSRCHGRP_ORG_ID,
C.ID_CODE, C.NAME CNAME,
C.FLD_ACT_TYPE_NM,
RTRIM(C.MEDIUM_TYPE_NAME) MEDIUM_TYPE_NAME,
RTRIM(C.INTENT_TYPE_NAME) INTENT_TYPE_NAME,
RTRIM(C.COMMUNITY_NAME) COMMUNITY_NAME,
C.RES_GRP_TYPE_NM, C.HABITAT_ASSESS_IND,
RTRIM(C.DESCRIPTION_TEXT) GRP_DESCRIPTION,
DECODE(RTRIM(T.IDENTIFICATION_CD),NULL,",RTRIM(T.IDENTIFICATION_C
D) || ' - ') ||
DECODE(T.AUTHOR_NAME, NULL,", RTRIM(T.AUTHOR_NAME)) ||
DECODE(T.PUBLICATION_YEAR, NULL,", ', ' || RTRIM(T.PUBLICATION_YEAR)) ||
DECODE(T.TITLE_NAME, NULL,", ', ' || RTRIM(T.TITLE_NAME)) ||
DECODE(T.JRNL_OR_PBLSHR_NM, NULL,", ', ' ||
RTRIM(T.JRNL_OR_PBLSHR_NM)) || DECODE(T.VOL_AND_PG_NUM, NULL, ", ', '
|| RTRIM(T.VOL_AND_PG_NUM )) CITAT
FROM
TSMORGAN O,
TSRCHGRP C,
```

```
TSRCITN T
WHERE
O.TSMORGAN_IS_NUMBER = C.TSMORGAN_IS_NUMBER
AND C.TSRCITN_IS_NUMBER=T.TSRCITN_IS_NUMBER(+)
AND C.TSRCITN_ORG_ID=T.TSRCITN_ORG_ID(+)
&P_ORG
ORDER BY O.ORG_ID, C.ID_CODE
```

CharacteristicGroupDetailsSub1.sql

```
SELECT
O.TSMORGAN_IS_NUMBER TSMORGAN_IS_NUMBER1,
C.TSRCHGRP_IS_NUMBER TSRCHGRP_IS_NUMBER1,
C.TSRCHGRP_ORG_ID TSRCHGRP_ORG_ID1,
D.ROW_ID R_ID1, RTRIM(R.DISPLAY_NAME) DISPLAY_NAME1,
PV.FIELD_VALUE SMPL_FRAC_TYPE_NM1,
RTRIM(D.UOM_NAME) UNIT1,  RTRIM(D.VALUE_TYPE_NAME)
VALUE_TYPE_NAME1,
RTRIM(D.STATISTIC_TYPE_NM) STATISTIC_TYPE_NM1,
RTRIM(D.WT_BASIS_TYPE_NM) WT_BASIS_TYPE_NM1,
RTRIM(D.DUR_BASIS_TYPE_NM) DUR_BASIS_TYPE_NM1,
RTRIM(D.TEMP_BASIS_LVL_NM) TEMP_BASIS_LVL_NM1,
RTRIM(LP.PROCEDURE_ID) LPID1, RTRIM(SP.PREPARATION_ID) SPID1,
D.UPPER_RANGE_VALUE,D.LOWER_RANGE_VALUE,D.UOM_NAME,
R.D_SCR_TYPE_CD CHAR_TYPE,
DECODE(RTRIM(D.PARTICLE_SIZE_BASIS), '',  NULL,
RTRIM(D.PARTICLE_SIZE_BASIS)) PARTICAL_SIZE1
FROM
TSRCHAR R,
TSMORGAN O,
TSRCHGRP C,
TSRCCGA A,
TSRCHDEF D,
TSRANLPR LP,
TSRLSPP SP,
TSMPRMVL PV
WHERE
(O.TSMORGAN_IS_NUMBER = C.TSMORGAN_IS_NUMBER
AND D.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND C.TSRCHGRP_IS_NUMBER = A.TSRCHGRP_IS_NUMBER
AND C.TSRCHGRP_ORG_ID=A.TSRCHGRP_ORG_ID
AND A.TSRCHAR_IS_NUMBER=R.TSRCHAR_IS_NUMBER
AND A.TSRCHAR_ORG_ID=R.TSRCHAR_ORG_ID
AND A.TSRCCGA_IS_NUMBER=D.TSRCCGA_IS_NUMBER(+)
AND A.TSRCCGA_ORG_ID=D.TSRCCGA_ORG_ID(+)
AND D.TSRANLPR_IS_NUMBER = LP.TSRANLPR_IS_NUMBER(+)
AND D.TSRANLPR_ORG_ID = LP.TSRANLPR_ORG_ID(+)
AND D.TSRLSPP_IS_NUMBER = SP.TSRLSPP_IS_NUMBER(+)
AND D.TSRLSPP_ORG_ID = SP.TSRLSPP_ORG_ID(+)
AND (C.FLD_ACT_TYPE_NM IN('Data Logger','Field Msr/Obs','Sample')
```

```
AND (C.INTENT_TYPE_NAME <>'Taxon Abundance' OR (C.INTENT_TYPE_NAME
='Taxon Abundance' AND C.RES_GRP_TYPE_NM IN('Single Taxon Individuals', 'Single
Taxon Group Summary') ))))
ORDER BY  D.ROW_ID
```

CharacteristicGroupDetailsSub2.sql

```
SELECT
C.TSRCHGRP_IS_NUMBER TSRCHGRP_IS_NUMBER2,
C.TSRCHGRP_ORG_ID TSRCHGRP_ORG_ID2,
D.ROW_ID RID2,
RTRIM(R.DISPLAY_NAME) DISPLAY_NAME2,
RTRIM(D.SPECIES_NUMBER) SPECIES_NUMBER2,
RTRIM(D.UOM_NAME)  UNIT2,
RTRIM(D.VALUE_TYPE_NAME) VALUE_TYPE_NAME2,
RTRIM(D.STATISTIC_TYPE_NM) STATISTIC_TYPE_NM2,
RTRIM(D.TAXON_POLLUTION) TAXON_POLLUTION2,
RTRIM(D.FNCTIONAL_FEED_GRP) FNCTIONAL_FEED_GRP2,
RTRIM(D.TROPHIC_LEVEL) TROPHIC_LEVEL2,
RTRIM(PV.FIELD_VALUE) VOLTINISM,
RTRIM(PV1.FIELD_VALUE) HABIT

FROM
TSRCHAR R,
TSRCHGRP C,
TSRCCGA A,
TSRCHDEF D,
TSMPRMVL PV,
TSMPRMVL PV1

WHERE
C.TSRCHGRP_IS_NUMBER = A.TSRCHGRP_IS_NUMBER
AND C.TSRCHGRP_ORG_ID=A.TSRCHGRP_ORG_ID
AND A.TSRCHAR_IS_NUMBER=R.TSRCHAR_IS_NUMBER
AND A.TSRCHAR_ORG_ID=R.TSRCHAR_ORG_ID
AND A.TSRCCGA_IS_NUMBER=D.TSRCCGA_IS_NUMBER(+)
AND A.TSRCCGA_ORG_ID=D.TSRCCGA_ORG_ID(+)
AND D.TSMPRMVL0IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND D.TSMPRMVL1IS_NUMBER = PV1.TSMPRMVL_IS_NUMBER(+)
AND C.FLD_ACT_TYPE_NM = 'Sample'
AND C.MEDIUM_TYPE_NAME = 'Biological'
AND C.INTENT_TYPE_NAME = 'Taxon Abundance'
AND C.RES_GRP_TYPE_NM = 'Multi-Taxon Population Census'

ORDER BY  D.ROW_ID, R.DISPLAY_NAME
```

CharacteristicGroupDetailsSub3.sql

```
SELECT
C.TSRCHGRP_IS_NUMBER TSRCHGRP_IS_NUMBER4,
C.TSRCHGRP_ORG_ID TSRCHGRP_ORG_ID4,
H.ROW_ID RID4, H.CHARACTERSTC_NAME RNAME4,
H.DESCRIPTION_TEXT DESCRIPTION_TEXT4
FROM
```

```
TSRCHGRP C, TSRHCSC H
WHERE
C.TSRCHGRP_IS_NUMBER = H.TSRCHGRP_IS_NUMBER
AND C.TSRCHGRP_ORG_ID=H.TSRCHGRP_ORG_ID
AND C.FLD_ACT_TYPE_NM = 'Field Msr/Obs'
AND C.MEDIUM_TYPE_NAME = ' '
AND C.INTENT_TYPE_NAME = ' '
AND C.HABITAT_ASSESS_IND ='Y'
AND C.CHAR_DEFINED_IND = 'U'
ORDER BY
H.ROW_ID, H.CHARACTERSTC_NAME
```

Select Options: Organizations

Sort Sequence: By ascending Organization ID, by ascending Group ID, by ascending Characteristic Row ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
P13 Characteristic Group Data Entry		TSRCHGRP
Group ID	ID	ID_CODE
Group Name	Name	NAME
Field Activity	Field Activity	FLD_ACT_TYPE_NM
Medium	Medium	MEDIUM_TYPE_NAME
Intent	Intent	INTENT_TYPE_NAME
Community	Community	COMMUNITY_NAME
Result Group	Result Grp	RES_GRP_TYPE_NM
Habitat	Habitat Assessment?	HABITAT_ASSESS_IND
Description	Description	DESCRIPTION_TEXT
P42 Citation Data Entry **RT27 National Citation Data Entry**		TSRCITN
Citation	ID	IDENTIFICATION_CD
	Title Name	TITLE_NAME
	Name, Author	AUTHOR_NAME
	Name, Publishing Organization	JRNL_OR_PBLSHR_NM
	Publication Year, Publishing Organization	PUBLICATION_YEAR
	Volume and Page No.	VOL_AND_PG_NUM
P27 Habitat Classification Scheme Characteristic Maint List		TSRHCSC
Row ID	Row ID	ROW_ID
Characteristic Name	Characteristic Name	CHARACTERSTC_NAME
Description	Description	DESCRIPTION_TEXT

Report Heading	Prompt Name	Oracle Name
RT5 Characteristic Data Entry **RT5 Taxon Characteristic Data Entry**		TSRCHAR
Char Name	Display Name	DISPLAY_NAME
P18 Chemical Characteristic Default Data Entry **P19 Physical Characteristic Default Data Entry** **P20 Characteristic Group Taxon Default Data Entry**		TSRCHDEF
Row ID	Row ID	ROW_ID
Unit	Value Unit Unit	UOM_NAME
Value Type	Value Type	VALUE_TYPE_NAME
Statistic Type	Statistic Type	STATISTIC_TYPE_NM
Weight Basis	Basis, Weight	WT_BASIS_TYPE_NM
Duration Basis	Basis, Duration	DUR_BASIS_TYPE_NM
Temp Basis	Basis, Temperature	TEMP_BASIS_LVL_NM
Species #	Species #	SPECIES_NUMBER
Taxon Pollution Tolerance	Taxon Pollution Tolerance	TAXON_POLLUTION
Functional Feeding Group	Functional Feeding Group	FNCTIONAL_FEED_GRP
Trophic Level	Trophic Level	TROPHIC_LEVEL
Particle Size Basis	Particle Size Basis	PARTICLE_SIZE_BASIS
Acceptable Range	Acceptable Result Range, Lower	LOWER_RANGE_VALUE
	Acceptable Result Range, Upper	UPPER_RANGE_VALUE
	Acceptable Result Range, Units	UOM_NAME
		TSMPRMVL
Sample Fraction	Sample Fraction	SMPL_FRAC_TYPE_NM
Habit Voltinism	Habit Voltinism	FIELD_VALUE
P3 Organization Field/Lab Analytical Procedures Data Entry		TSRANLPR
Field/Lab Procedure	Procedure ID	PROCEDURE_ID
P33 Organization Lab Sample Prep Procedure Data Entry		TSRLSPP
Lab Sample Prep. Procedure	Prep ID	PREPARATION_ID

EXAMPLE

Characteristic Group Details

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Group ID	Group Name	Field Activity	Medium	Intent	Community	Result Group	Habitat
CG-001	Manning/King Ecosystem Health	Field Msr/Obs					Y

Row ID	Characteristic Name	Description
WWWWWWWWWWWWWWWWWWWW	Bank Stability	Scored on a points system , 1-100 points available, 1=total unstability, 100 completely stable.
Taste Test 1	Taste	Based on actual drinking of water

Group ID	Group Name	Field Activity	Medium	Intent	Community	Result Group	Habitat
CG-004	Manning/King Ecosystem Health	Field MSR/Obs	Air				N

Citations CITID0000012 - Dr. Lee Manning,1987,Sampling the Chesapeake Bay for Fun and Profit,University of Virginia Press,589 pp

Description This Habitat Assessment technique was first pioneered by Manning in the early 1950's, it was modified and adapted by King to be applied to large estuaries. This system is an excellent barometer of ecosystem health.

Row ID	Characteristic Name	Unit	Sample Fraction	Value Type	Statistic Type	Weight Basis	Duration Basis	Temp Basis	Field/Lab Procedure	Lab Sample Prep. Procedure
1	Barometric Pressure	mm/Hg	Dissolved	Actual					WEATHER-001	APHA/3030-C
	Acceptable Range 700.000000000000 - 1100.00000000000 mm/Hg				**Particle Size Basis** Particle size basis information					
2	Temperature, air	Deg C		Actual					WEATHER-001	
	Acceptable Range 5.00000 - 35.00000 mm/Hg				**Particle Size Basis** Particle size basis information					

Group ID	Group Name	Field Activity	Medium	Intent	Community	Result Group	Habitat
CG-011	Manning/King Ecosystem Health	Sample	Biological	Taxon Abundance	Fish/Nekton	Multi-Taxon Population Census	N

Row ID	Characteristic Name	Species #	Unit	Value Type	Statistic Type	Taxon Pollution Tolerance	Functional Feeding Group	Trophic Level
1	Argia	sp.1	#/ml	Estimated	Maximum	AOL9	PR	M
			Habit	WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW				
			Voltinism	Facultative Multivoltine				

Sample Collection/Creation Procedures

Report Description: This report provides information on the Sample Collection/Creation Procedures for the selected Organizations including Procedure ID, Name, Description, Citation, and Gear Type.

Special Separators
C Hairline between each Procedure.

Select Logic:

SampleCollectionCreationProcedures.sql

```
SELECT
O.ORG_ID,
RTRIM(O.NAME) ORG_NAME,
RTRIM(P.NAME) FP_NAME,
P.ID_CODE,
RTRIM(P.FLD_GEAR_TYPE_NAME) FLD_GEAR_TYPE_NAME,
P.DESCRIPTION_TEXT DESCRIPTION_TEXT,
DECODE(RTRIM(C.IDENTIFICATION_CD),NULL,'',RTRIM(C.IDENTIFICATION_C
D) || ' - ') ||
DECODE(C.AUTHOR_NAME,NULL,'',C.AUTHOR_NAME) ||
DECODE(C.PUBLICATION_YEAR, NULL,'', ' || RTRIM(C.PUBLICATION_YEAR)) ||
DECODE(C.TITLE_NAME, NULL,'', ' ||C.TITLE_NAME) ||
DECODE(C.JRNL_OR_PBLSHR_NM, NULL,',', ' || C.JRNL_OR_PBLSHR_NM) ||
DECODE(C.VOL_AND_PG_NUM,NULL,',', ' ||  C.VOL_AND_PG_NUM) CITATION
FROM
TSMORGAN O, TSRFLDPR P, TSRCITN C
WHERE
O.TSMORGAN_IS_NUMBER = P.TSMORGAN_IS_NUMBER
AND P.TSRCITN_IS_NUMBER=C.TSRCITN_IS_NUMBER(+)
AND P.TSRCITN_ORG_ID=C.TSRCITN_ORG_ID(+)
&P_ORG
ORDER BY
O.ORG_ID, P.ID_CODE
```

Select Options: Organizations

Sort Sequence: By ascending Organization, by ascending Procedure ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
P31 Field Procedure Data Entry		TSRFLDPR
Procedure ID	ID	ID_CODE
Procedure	Name	NAME

Report Heading	Prompt Name	Oracle Name
Gear Type	Gear Type	FLD_GEAR_TYPE_NAME
Description	Description Text	DESCRIPTION_TEXT
P42 Citation Data Entry **RT27 National Citation Data Entry**		TSRCITN
Citation	ID	IDENTIFICATION_CD
	Title Name	TITLE_NAME
	Name, Author	AUTHOR_NAME
	Name, Publishing Organization	JRNL_OR_PBLSHR_NM
	Publication Year, Publishing Organization	PUBLICATION_YEAR
	Volume and Page No.	VOL_AND_PG_NUM

EXAMPLE

Sample Collection/Creation Procedures

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Procedure ID	**Procedure Name**	**Gear Type**	**Description**	**Citation**
SP-005	Compositing of Water Samples for Low Level Organics	Miscellaneous/Other	Handling and container standard procedures for the combining of water samples into composites for further analysis.	CITID0000012 - Commission for a Good Clean Chesapeake Bay,1991,Standard Procedures for Sampling the Chesapeake Bay,Virginia Beach Press,290 pp
SP-006	Compositing of Fish Tissue for Pesticides Analysis	Miscellaneous/Other	Sterile methods for the handling of tissue specimens as they are combined for later analysis.	

Sample Collection/Creation Gear/Equipment Configurations

Report Description: This report provides information on the Sample Collection/Creation Gear/Equipment Configurations.

Special Separators
C Hairline between each Configuration.

Select Logic:

SampleCollectionCreationGearEquipConfig.sql

```
SELECT  O.ORG_ID,  RTRIM(O.NAME) ORG_NAME, RTRIM(G.TYPE_NAME)
GTYPE,  G.ID_CODE GID, RTRIM(G.NAME) GNAME, RTRIM(C.ID_CODE) CID,
RTRIM(C.NAME) CFG_NAME,  RTRIM(T.DESCRIPTION_TEXT)
DESCRIPTION_TEXT
FROM TSMORGAN O, TSRGRCFG C, TSRFLDGR G, TSMGNTXT T
WHERE O.TSMORGAN_IS_NUMBER = C.TSMORGAN_IS_NUMBER AND
C.TSRFLDGR_IS_NUMBER = G.TSRFLDGR_IS_NUMBER(+) AND
C.TSRFLDGR_ORG_ID = G.TSRFLDGR_ORG_ID(+) AND
C.TSRGRCFG_IS_NUMBER = T.TSRGRCFG_IS_NUMBER(+) AND
C.TSRGRCFG_ORG_ID = T.TSRGRCFG_ORG_ID(+)
&P_ORG
ORDER BY O.ORG_ID, GTYPE,  GNAME, C.ID_CODE
```

Select Options: Organizations

Sort Sequence: By ascending Organization, by ascending Gear Type, by ascending Gear Name, by ascending Configuration ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
P29 Gear Configuration Data Entry		TSRGRCFG
Config ID	ID	ID_CODE
Config Name	Name	NAME
		TSMGNTXT
Specifications	Specifications	DESCRIPTION_TEXT
RT19 Field Gear Data Entry		TSRFLDGR
Gear ID	Gear ID	ID_CODE
Gear Type	Gear Type	TYPE_NAME
Gear Name	Name	NAME

EXAMPLE

Sample Collection/Creation Gear/Equipment Configurations

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Gear Type	Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGBM	Boomerang grab	CBG-007	.25 sq meter-ID-67	This grab has been modified to increase reliability, see Manning, 1987, pp 129-134.
Benthic Grab	BGSM	Smith-McIntire grab	CBG–007	.25 sq meter-ID-3425	Standard grab, with no modifications
Water Sampler	WSNA	Baby bottle	CBG-001	1 Liter-S/N-239876	
Water Sampler	WSNA	Baby bottle	CBG-002	2 Liter-S/N-239877	
Water Sampler	WSNA	Nansen bottle	CBG-012	1 Liter-S/N-255576	

Sample Preservation, Transport and Storage Profiles

Report Description: This report provides detailed information on the Sample Preservation, Transport and Storage Profiles.

Special Separators
C Hairline between each “Profile.”

Select Logic:

SamplePreservationTrnsptStorageProfiles.sql

```
SELECT  O.ORG_ID,  O.NAME ORG_NAME,  D.ID_CODE, RTRIM(D.NAME)
D_NAME, RTRIM(D.CONTAINER_TYPE_NM) CONTAINER_TYPE_NM,
DECODE(D.CONTAINER_SIZE_MSR,0, NULL,
TO_CHAR(D.CONTAINER_SIZE_MSR, '999999.00')) CONTAINER_SIZE_MSR,
RTRIM(D.CONTAINER_SIZE_UN)CONTAINER_SIZE_UN,
RTRIM(D.CONTAINER_COLOR) CONTAINER_COLOR,
RTRIM(D.TEMP_PRESRV_TYPE) TEMP_PRESRV_TYPE,
RTRIM(D.PRESRV_STRGE_PRCDR) PRESRV_STRGE_PRCDR   FROM
TSMORGAN O, TSRSDP D WHERE O.TSMORGAN_IS_NUMBER =
D.TSMORGAN_IS_NUMBER &P_ORG
ORDER BY O.ORG_ID, D.ID_CODE
```

Select Options: Organizations

Sort Sequence: By ascending Organization, by ascending Sample Transport and Storage ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
P35 Sample Transport and Storage Defaults Data Entry		TSRSDP
ID	ID	ID_CODE
Name	Name	NAME
Container Size		CONTAINER_SIZE_MSR
Unit		CONTAINER_SIZE_UN
Chemical/Preservation	Chemical Preservation and Storage Procedure	PRESRV_STRGE_PRCDR
		TSMPRMVL
Container Type	Container Type	CONTAINER_TYPE_NM
Container Color	Color	CONTAINER_COLOR
Temperature Preservation	Temperature Preservation Type	TEMP_PRESRV_TYPE

EXAMPLE

Sample Preservation, Transport and Storage Profiles

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DEMOTEST The Commission for a Good Clean Chesapeake Bay

ID	Name	Container Type	Container Color	Container Size	Container Unit	Temperature Preservation	Chemical/Preservation
STS-001	Metals/water	HDPE Bottle	Clear	1000.00	l	Refrigerated/Cooled	Cool to 4 deg C, adjust ph<2.0 with HNO3
STS-002	Macroinvertebrates	Polypropylene Bottle	Translucnt	1	gal	None	70% ETOH
STS-003	Fish Tissue	Plastic Bag	Clear	1	gal	On Ice	None

Laboratories

Report Description: This report provides a summary of data associated with each selected Organization including Organization ID and Name, Laboratory ID and Name, Physical Addresses, and Electronic Addresses.

When lines of address text do not have data, the report will not provide a blank line but will remove the line entirely and allow the subsequent text to shift upwards.

Select Logic:

Laboratories.sql

```
SELECT  RTrim(O.ORG_ID) ORG_ID, O.NAME ORGNAME,
L.TSRLAB_IS_NUMBER, L.TSRLAB_ORG_ID, (RTrim(L.ID_CODE) || ' / ' || L.NAME)
LNAME, RTRIM(A.TYPE_CODE)  ADD_TYPE, RTRIM(A.LINE_ONE_TEXT)
LINE_ONE_TEXT, RTRIM(A.LINE_TWO_TEXT) LINE_TWO_TEXT,
RTRIM(A.LINE_THREE_TEXT)
LINE_THREE_TEXT,RTRIM(A.LINE_FOUR_TEXT) LINE_FOUR_TEXT,
A.STATE_POSTAL_CODE,  A.COUNTRY_CODE,
DECODE(A.START_DATE,'01-JAN-01', NULL, NULL, NULL,
TO_CHAR(A.START_DATE, 'MM-DD-YYYY')) START_DATE
FROM TSMORGAN O, TSRLAB L, TSMADDR A
WHERE O.TSMORGAN_IS_NUMBER = L.TSMORGAN_IS_NUMBER AND
L.TSRLAB_IS_NUMBER = A.TSRLAB_IS_NUMBER(+) AND L.TSRLAB_ORG_ID =
A.TSRLAB_ORG_ID(+)
&P_ORG
ORDER BY O.ORG_ID, L.ID_CODE, A.TYPE_CODE
```

LaboratoriesAddress.sql

```
SELECT TSRLAB_IS_NUMBER, TSRLAB_ORG_ID, RTRIM(TYPE_CODE)
TYPE_CODE, RTRIM(ADDRESS_TEXT) ADDRESS_TEXT,
RTRIM(COMMENT_TEXT) COMMENT_TEXT
FROM TSMEADDR
WHERE TSRLAB_IS_NUMBER Is Not Null AND TSRLAB_ORG_ID Is Not Null
ORDER BY TYPE_CODE, ADDRESS_TEXT
```

Select Options: Organizations

Sort Sequence: By ascending Organization ID, by ascending Laboratory ID, by Physical then Electronic Addresses, by ascending Address Type, by ascending Address.

- C Physical Addresses by Line 1, then Line 2, then Line 3, then Line 4 text.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
P22 Laboratory Data Entry		TSRLAB
N/A	Lab ID	ID_CODE
N/A	Name	NAME
P23 Laboratory Address Data Entry		TSMADDR
Physical Addresses (Located at, Mailing, Shipping)	Type	TYPE_CODE
	Line 1	LINE_ONE_TEXT
	Line 2	LINE_TWO_TEXT
	Line 3	LINE_THREE_TEXT
	Line 4	LINE_FOUR_TEXT
	Country	COUNTRY_CODE
	Effective Date	START_DATE
P24 Laboratory Electronic Data Entry		TSMEADDR
Electronic Addresses (Commercial Network, Fax, Internet, Other, Phone)	Type	TYPE_CODE
	Number	ADDRESS_TEXT
	Comments	COMMENT_TEXT

EXAMPLE

Laboratories June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

DD-001 / Dewberry & Davis Environmental Laboratory

Physical Addresses

Located at: 132 South Water Street
Annapolis, MD 30987
US
03-12-1990

Mailing: P.O. Box 666
Annapolis, MD 30987
US
03-12-1990

Shipping: P.O. Box 666
Annapolis, MD 30987
US
03-12-1990

Electronic Addresses

Commercial Network: 301-863-9823
Director' Fax

Fax: 301-863-9823
Director' Fax

Fax: 401-863-9823
Director' Fax

Internet: cbay.commission@chesapeakebay.gov
General E-Mail

Other: 301-678-9807
24 hour Emergency Number

Phone: 301-782-9087
General Office Locator

Citations

Report Description: This report provides data regarding the default Citations for the selected Organization including Title, Author, Publisher, Published Date, Volume and/or Page, Reference ID, and Comments.

The following fields will be hidden if no data is present:

- Reference ID.
- Document/Graphic.
- Comments.

Select Logic:

Citations.sql

```
SELECT  O.ORG_ID,  O.NAME ORG_NAME,
C.IDENTIFICATION_CD ID,
RTRIM(C.TITLE_NAME) Title,
RTRIM(C.AUTHOR_NAME) Author,
RTRIM(C.JRNL_OR_PBLSHR_NM) Publisher,
C.PUBLICATION_YEAR,
C.VOL_AND_PG_NUM,
DECODE(C.ORG_REF_ID_NUM, ' ', NULL, C.ORG_REF_ID_NUM) REF,
DECODE(C.COMMENT_TEXT, ' ', NULL, C.COMMENT_TEXT) Comments,
C.BLOB_TITLE
FROM TSMORGAN O, TSRCITN C
WHERE
O.TSMORGAN_IS_NUMBER = C.TSMORGAN_IS_NUMBER
&P_ORG
ORDER BY  O.ORG_ID, ID, C.TITLE_NAME
```

Select Options: Organization

Sort Sequence: By ascending Organization ID, by ascending Citation ID, by ascending Title.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
P42 Citation Data Entry **RT27 National Citation Data Entry**		TSRCITN
Citation ID	ID	IDENTIFICATION_CD
Title	Title Name	TITLE_NAME
Author	Name, Author	AUTHOR_NAME
Publishing Organization	Name, Publishing Organization	JRNL_OR_PBLSHR_NM
Publishing Year	Publication Year, Publishing Organization	PUBLICATION_YEAR

Report Heading	Prompt Name	Oracle Name
Volume and Page	Volume and Page No.	VOL_AND_PG_NUM
Reference ID	Reference ID	ORG_REF_ID_NUM_CODE
Document/Graphic	Document/Graphic	BLOB_TITLE
Comments	Comments	COMMENT_TEXT

EXAMPLE

Citations

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Citation ID	CITID0000012
Title	Standard Procedures for Sampling the Chesapeake Bay
Author	Commission for a Good Clean Chesapeake Bay
Publishing Organization	Virginia Beach Press
Publishing Year	1991
Volume and Page	290 pp
Reference ID	UVA-001-ABC
Comments	Comments for Citation related to the Commission for a Good Clean Chesapeake Bay, Standard Procedures for Sampling the Chesapeake Bay

Citation ID	CITID0000013
Title	What the Hell is This? - Taxonomy of the Chesapeake Bay
Author	Dr. Lee Manning
Publishing Organization	University of Virginia Press
Publishing Year	1988
Volume and Page	1290 pp
Reference ID	UVA-002-ABC

Citation ID	
Title	Standard Methods for the Examination of Water and Waste Water, 18th edition
Author	American Public Health Association
Publishing Organization	American Public Health Association
Publishing Year	1992
Volume and Page	18th edition
Document/Graphic	Entire Methods book in PDF.
Comments	Comments for Citation related to the Commission for a Good Clean Chesapeake Bay, Standard Procedures for Sampling the Chesapeake Bay

External Station ID Schemes

Report Description: This report provides a summary of data associated with each selected Organization including Organization ID and Name, External Station Scheme Names, Acronyms, and Descriptions.

Select Logic:

ExternalStationIdSchemes.sql

```
SELECT  O.ORG_ID,  O.NAME ORG_NAME, E.ACRONYM, E.NAME ENAME,
E.DESCRIPTION_TEXT
FROM TSMORGAN O, TSMERS E
WHERE O.TSMORGAN_IS_NUMBER = E.TSMORGAN_IS_NUMBER
&P_ORG
ORDER BY O.ORG_ID, E.ACRONYM
```

Select Options: Organizations

Sort Sequence: By ascending Organization ID, by ascending External Station Scheme acronym.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
P44 External Station ID Scheme Data Entry		TSMERS
Acronym	Acronym	ACRONYM
External Reference Scheme Name	Name	NAME
Description	Description	DESCRIPTION_TEXT

EXAMPLE

External Station ID Schemes

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Acronym	External Reference Scheme Name	Description
USGS	U S Geological Survey Station Number	Federal Government, Department of Interior, USGS
VA-DEQ	Virginia Department of Environmental Quality Station Number	

Project Summary

Report Description: This report provides a summary of project data associated with each selected Organization and Project.

The following field data and/or headers will be hidden if no data is present:

- Study Area.
- Project Design.
- Obtain Plan.
- Quality Assurance.
- Quality Objectives.
- Assigned Stations and associated information.

Select Logic:

ProjSummary.sql

```
SELECT  RTrim(O.ORG_ID) ORG_ID, RTrim(O.NAME) ORG,
J.TSMPROJ_IS_NUMBER,J.TSMPROJ_ORG_ID, RTrim(J.IDENTIFICATION_CD)
PRJ_ID,  RTrim(J.NAME)  PROJ, J.START_DATE,J.PLANNED_DURATION,
Q.Description,  T.DESCRIPTION_TEXT
FROM TSMORGAN O, TSMPROJ J, TSMGNTXT T, TSRPROJSQ Q
WHERE O.TSMORGAN_IS_NUMBER = J.TSMORGAN_IS_NUMBER And
J.TSMPROJ_IS_NUMBER = T.TSMPROJ_IS_NUMBER And J.TSMPROJ_ORG_ID =
T.TSMPROJ_ORG_ID AND T.DESCRIPTION_NAME = Q.DESCRIPTION_NAME
&P_ORG &P_PRJ
ORDER BY O.ORG_ID, PRJ_ID, Q.SQ
```

ProjSummaryStations.sql

```
SELECT A.TSMPROJ_IS_NUMBER, A.TSMPROJ_ORG_ID, S.IDENTIFICATION_CD
station_id, S.NAME station_name
FROM TSMPSA A,  TSMSTATN S
WHERE A.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID AND
A.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER
ORDER BY S.IDENTIFICATION_CD
```

Select Options: Organizations, Projects

Sort Sequence: By ascending Organization ID, by ascending Project ID, by ascending Station ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
PJ4 Project Data Entry **PJ5 Project Data Entry Page 2** **PJ6 Project Data Entry Page 3**		TSMPROJ
Project	ID	IDENTIFICATION_CD
	Name	NAME
Start Date	Start Date	START_DATE
Planned Duration	Planned Duration	PLANNED_DURATION
		TSMGNTXT
Purpose	Project Purpose	DESCRIPTION_TEXT
Study Area	Project Study Area	DESCRIPTION_TEXT
Project Design	Project Design and Sampling Frequency	DESCRIPTION_TEXT
Obtain Plan	How/Where to Obtain Complete Plan	DESCRIPTION_TEXT
Quality Assurance	Quality Assurance Project Plan Summary	DESCRIPTION_TEXT
Quality Objectives	Measurement Specific Quality Objectives	DESCRIPTION_TEXT
ST4 Station Data Entry		TSMSTATN
Assigned Stations, Station ID	ID	IDENTIFICATION_CD
Assigned Stations, Station Name	Name	NAME

EXAMPLE

Project Summary

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Project CBCP-001 Water Quality and Biological Health of the Chesapeake Bay

Start Date 12/12/1991 **Planned Duration** Ongoing

Purpose Purpose Text, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Study Area Study Area Text, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Project Design Project Design Text, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Obtain Plan Obtain Plan Text, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Quality Assurance Quality Assurance Text, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Quality Objectives Quality Objectives Text, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Assigned Stations

Station ID	Station Name
CBC-005	Nantichoke River
CBC-007	Patuxent River Mouth

Project Details

Report Description: This report provides project data associated with each selected Organization and Project.

This report is divided into 8 sections as follows:

- **Project Summary** - This section is the same as the individually generated Project Summary Report.
- **Project Station Roles** - This section includes Project Station Weighting information.
- **Project Personnel Roles**.
- **Project Voucher Specimen Collection**.
- **Project Program Assignment**.
- **Cooperating Organizations** - This section is the same as the individually generated Cooperating Organizations Report.
- **Project Citations** - This section is the same as the individually generated Citations Report.
- **Project Data** - The majority of this section contains the information that can be found on the Project Data Summary List on Window PJ20. Community, Subject Taxon, and Bio Part data are contingent upon Medium and Intent data.

The following fields will be hidden if no data is present:

Project Summary

- Document/Graphic.
- Study Area.
- Project Design.
- Obtain Plan.
- Quality Assurance.
- Quality Objectives.

Assigned Stations

- Weight and Unit.
- Stratum, Category, Site Status, Admin Year.
- Comments.

Voucher Specimen Collection

- Description.
- Contact Person.
- Location.

Assigned Programs

- Description.

Project Data

- / rep.
- Sample Matrix.

- (QC) (activity indicator).
- Chain of Custody.

Special Separators

- 4 inch centered line between report sections.
- Horizontal line between Projects from margin to margin.
- 3 inch dashed line before each Trip left justified to margin.

Select Logic:

ProjDetails.sql

```
SELECT  RTrim(O.ORG_ID) ORG_ID,
RTrim(O.NAME) ORG,
J.TSMPROJ_IS_NUMBER,
J.TSMPROJ_ORG_ID,
RTrim(J.IDENTIFICATION_CD) PRJ_ID,
RTrim(J.NAME)  PROJ,
J.START_DATE START_DATE1,
TO_CHAR(J.START_DATE,'MM/DD/YYYY') START_DATE,
J.PLANNED_DURATION,
Q.Description,
T.DESCRIPTION_TEXT,
J.BLOB_TITLE
FROM
TSMORGAN O, TSMPROJ J, TSMGNTXT T, TSRPROJSQ Q
WHERE
O.TSMORGAN_IS_NUMBER = J.TSMORGAN_IS_NUMBER
And J.TSMPROJ_IS_NUMBER = T.TSMPROJ_IS_NUMBER
And J.TSMPROJ_ORG_ID = T.TSMPROJ_ORG_ID
AND T.DESCRIPTION_NAME = Q.DESCRIPTION_NAME
&P_ORG &P_PRJ
ORDER BY
O.ORG_ID,J.START_DATE,J.IDENTIFICATION_CD , Q.SQ
```

ProjDetailsSubCitation.sql

```
SELECT
A.TSMPROJ_IS_NUMBER,
A.TSMPROJ_ORG_ID,
DECODE(C.ORG_TYPE_CODE, 'NAT','National','ORG','Organizational')
CITATION_TYPE,
DECODE(RTRIM(C.IDENTIFICATION_CD),NULL,'',RTRIM(C.IDENTIFICATION_
CD) || ' - ') ||
DECODE(C.AUTHOR_NAME, NULL,'',LTRIM(C.AUTHOR_NAME))||
DECODE(C.PUBLICATION_YEAR,NULL,'',', '|| RTRIM(C.PUBLICATION_YEAR))||
DECODE(C.TITLE_NAME,NULL,'',', '||C.TITLE_NAME)||
DECODE(C.JRNL_OR_PBLSHR_NM,NULL,'',', '||C.JRNL_OR_PBLSHR_NM)||
DECODE(C.VOL_AND_PG_NUM,NULL,'',', '||C.VOL_AND_PG_NUM)||
DECODE(rtrim(C.COMMENT_TEXT),NULL,'',', '||C.COMMENT_TEXT) CITATION
FROM
TSRCPA A, TSRCITN C
WHERE
A.TSRCITN_IS_NUMBER = C.TSRCITN_IS_NUMBER
And  A.TSRCITN_ORG_ID = C.TSRCITN_ORG_ID
```

```
ORDER BY
C.ORG_TYPE_CODE DESC, IDENTIFICATION_CD, LTRIM(C.AUTHOR_NAME)
```

ProjDetailsSubCPORG.sql

```
SELECT  A.TSMPROJ_IS_NUMBER, A.TSMPROJ_ORG_ID,
RTRIM(CO.NAME) || DECODE(CO.POC_NAME,NULL,'', ' ', '', ' / 
'||RTRIM(CO.POC_NAME)) CPORG
FROM  TSMPCOA A, TSMCPORG CO
WHERE   A.TSMCPORG_IS_NUMBER = CO.TSMCPORG_IS_NUMBER  And
A.TSMCPORG_ORG_ID = CO.TSMCPORG_ORG_ID
ORDER BY  CO.NAME
```

ProjDetailsSubDataLogger.sql

```
SELECT
A.TSMPROJ_IS_NUMBER,
A.TSMPROJ_ORG_ID,
S.IDENTIFICATION_CD SID,
L.ID_CODE LID,
D.LOG_FILE_NAME,
(TO_CHAR(D.START_DATE, 'MM/DD/YYYY') || '  ' ||
TO_CHAR(D.START_TIME,'HH24:MI:SS')) PERIOD_START,
(TO_CHAR(D.STOP_DATE, 'MM/DD/YYYY') || '  ' ||
TO_CHAR(D.STOP_TIME,'HH24:MI:SS')) PERIOD_STOP
FROM
TSMPSA A, TSMSTATN S, TSRADL L, TSROPPRD D
WHERE
A.TSMSTATN_IS_NUMBER =  S.TSMSTATN_IS_NUMBER
AND A.TSMSTATN_ORG_ID =  S.TSMSTATN_ORG_ID
AND S.TSMSTATN_IS_NUMBER  = L.TSMSTATN_IS_NUMBER
AND S.TSMSTATN_ORG_ID =  L.TSMSTATN_ORG_ID
AND  L.TSRADL_IS_NUMBER=D.TSRADL_IS_NUMBER(+)
AND L.TSRADL_ORG_ID=D.TSRADL_ORG_ID(+)
ORDER BY
S.IDENTIFICATION_CD, L.ID_CODE, D.LOG_FILE_NAME
```

ProjDetailsSubPerson.sql

```
SELECT A.TSMPROJ_IS_NUMBER, A.TSMPROJ_ORG_ID,
RTRIM(P.LAST_NAME)||', ' || RTRIM(P.FIRST_NAME) PSNAME, R.TITLE PSROLE
FROM TSMPPA A,  TSMPERSN P, TSMPPRA RA, TSMPROLE R
WHERE A.TSMPERSN_IS_NUMBER = P.TSMPERSN_IS_NUMBER  AND
A.TSMPERSN_ORG_ID = P.TSMPERSN_ORG_ID AND
A.TSMPERSN_IS_NUMBER=RA.TSMPERSN_IS_NUMBER(+) AND
A.TSMPERSN_ORG_ID=RA.TSMPERSN_ORG_ID(+) AND
A.TSMPROJ_IS_NUMBER = RA.TSMPROJ_IS_NUMBER(+)  AND
A.TSMPROJ_ORG_ID = RA.TSMPROJ_ORG_ID(+) AND
RA.TSMPROLE_IS_NUMBER=R.TSMPROLE_IS_NUMBER(+) AND
RA.TSMPROLE_ORG_ID=R.TSMPROLE_ORG_ID(+)
ORDER BY P.LAST_NAME, P.FIRST_NAME, R.TITLE
```

ProjDetailsSubPrograms.sql

```
SELECT  A.TSMPROJ_IS_NUMBER, A.TSMPROJ_ORG_ID, P.NAME
PROGRAM_NAME, DECODE(P.TYPE_CODE,'NAT','National','ORG','Organizational',
P.TYPE_CODE) Program_type, T.DESCRIPTION_TEXT PROGRAM_DESC
```

```
FROM  TSMPRPRA A, TSMPROGM P,  TSMGNTXT T
WHERE   A.TSMPROGM_IS_NUMBER = P.TSMPROGM_IS_NUMBER  And
A.TSMPROGM_ORG_ID = P.TSMPROGM_ORG_ID AND
P.TSMPROGM_IS_NUMBER = T.TSMPROGM_IS_NUMBER(+) AND
P.TSMPROGM_ORG_ID = T.TSMPROGM_ORG_ID(+)
ORDER BY  P.NAME
```

ProjDetailsSubStations.sql

```
SELECT
A.TSMPROJ_IS_NUMBER,
A.TSMPROJ_ORG_ID,
S.IDENTIFICATION_CD  station_id,
S.NAME station_name,
R.TYPE_NAME STATION_ROLE,
RTRIM(M.WEIGHT) WEIGHT,
M.WEIGHT_UNIT_CODE,
M.STRATUM,M.SITE_STATUS,
M.CATEGORY,
M.COMMENT_TEXT,
M.ADMIN_YEAR
FROM
TSMPSA A,  TSMSTATN S, TSMPSRA RA, TSMPSR R,TSMPSW M
WHERE
A.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID
AND A.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER
AND A.TSMPROJ_IS_NUMBER=RA.TSMPROJ_IS_NUMBER(+)
AND A.TSMPROJ_ORG_ID=RA.TSMPROJ_ORG_ID(+)
AND A.TSMSTATN_ORG_ID = RA.TSMSTATN_ORG_ID(+)
AND A.TSMSTATN_IS_NUMBER = RA.TSMSTATN_IS_NUMBER(+)
AND RA.TSMPSR_IS_NUMBER=R.TSMPSR_IS_NUMBER(+)
AND RA.TSMPSR_ORG_ID=R.TSMPSR_ORG_ID(+)
AND A.TSMSTATN_ORG_ID = M.TSMSTATN_ORG_ID(+)
AND A.TSMSTATN_IS_NUMBER = M.TSMSTATN_IS_NUMBER(+)
AND A.TSMPROJ_ORG_ID=M.TSMPROJ_ORG_ID(+)
AND A.TSMPROJ_IS_NUMBER=M.TSMPROJ_IS_NUMBER(+)
ORDER BY
A.TSMPROJ_ORG_ID,
A.TSMPROJ_IS_NUMBER,
A.TSMSTATN_ORG_ID,
A.TSMSTATN_IS_NUMBER,
S.IDENTIFICATION_CD,
R.TYPE_NAME
```

ProjDetailsSubTrip.sql

```
SELECT
TPA.TSMPROJ_IS_NUMBER,
TPA.TSMPROJ_ORG_ID,
RTRIM(T.ID_CODE) TRP_ID,
RTRIM(T.NAME) TRP_NAME,
T.START_DATE, T.START_TIME, T.START_TIME_ZONE,

(TO_CHAR(T.START_DATE, 'MM/DD/YYYY')||
DECODE(TO_CHAR(T.START_TIME,'HH24:MI:SS'),'00:00:00','', '  ' ||
```

```
TO_CHAR(T.START_TIME,'HH24:MI:SS')) ||DECODE(T.START_TIME_ZONE, '   ',
'',  ' ' || T.START_TIME_ZONE)) TRPSTRT,
DECODE(TO_CHAR(T.END_DATE,'MM/DD/YYYY'), '01/01/0001',NULL,
(TO_CHAR(T.END_DATE, 'MM/DD/YYYY') ||
DECODE(TO_CHAR(T.END_TIME,'HH24:MI:SS'),'00:00:00', '',  ' ' ||
TO_CHAR(T.END_TIME,'HH24:MI:SS'))||
DECODE(T.END_TIME_ZONE, '   ', '',   ' ' || T.END_TIME_ZONE))) TRPEND,

RTRIM(S.IDENTIFICATION_CD) STN_ID, RTRIM(S.NAME) STN_NAME,
V.ARRIVAL_DATE, V.ARRIVAL_TIME, V.ARRIVAL_TIME_ZONE,
V.ID_NUMBER VID,

(TO_CHAR(V.ARRIVAL_DATE, 'MM/DD/YYYY') ||
DECODE(TO_CHAR(V.ARRIVAL_TIME,'HH24:MI:SS'), '00:00:00', ','  ' ||
TO_CHAR(V.ARRIVAL_TIME,'HH24:MI:SS')) ||
DECODE(V.ARRIVAL_TIME_ZONE, '   ',  '',  ' ' || V.ARRIVAL_TIME_ZONE))
VSTRT,
DECODE(TO_CHAR(V.DEPARTURE_DATE,'MM/DD/YYYY'), '01/01/0001',NULL,
(TO_CHAR(V.DEPARTURE_DATE, 'MM/DD/YYYY') ||
DECODE(TO_CHAR(V.DEPARTURE_TIME, 'HH24:MI:SS'),'00:00:00','', '  ' ||
TO_CHAR(V.DEPARTURE_TIME,'HH24:MI:SS')) ||
DECODE(V.DEPRTURE_TIME_ZONE, '   ', '', '  ' || V.DEPRTURE_TIME_ZONE)))
VDEPART,

F.START_DATE, F.START_TIME, F.START_TIME_ZONE START_TIME_ZONE1,
RTRIM(F.ID_CODE) || DECODE(F.REPLICATE_NUMBER, 0,'',' / repl '||
TO_CHAR(F.REPLICATE_NUMBER))  FDID,
RTRIM(F.TYPE_NAME) FDTYPE, RTRIM(F.CATEGORY_TYPE_NAME) FDCAT,
RTRIM(F.INTENT_TYPE_NAME) FDINT, RTRIM(F.MEDIUM_TYPE_NAME)
FDMDM,

(TO_CHAR(F.START_DATE, 'MM/DD/YYYY') ||
DECODE(TO_CHAR(F.START_TIME,'HH24:MI:SS'), '00:00:00','', '  ' ||
TO_CHAR(F.START_TIME,'HH24:MI:SS')) || DECODE(F.START_TIME_ZONE, '
','', '  ' || F.START_TIME_ZONE)) FSTRT,
DECODE(TO_CHAR(F.STOP_DATE,'MM/DD/YYYY'), '01/01/0001',  NULL,
TO_CHAR( F.STOP_DATE, 'MM/DD/YYYY')  ||
DECODE(TO_CHAR(F.STOP_TIME, 'HH24:MI:SS'), '00:00:00', '', '  ' ||
TO_CHAR(F.STOP_TIME, 'HH24:MI:SS')) || DECODE(F.STOP_TIME_ZONE, '   ', '', '
' || F.STOP_TIME_ZONE)) FSTP,

F.COMMUNITY_NAME,
RTRIM(F.COMMENT_TEXT) Subject,
RTRIM(F.SPECIES_NUMBER) SPECIES_NUMBER,
F.TSRFDACT_IS_NUMBER,
F.TSRFDACT_ORG_ID,
F.QC_INDICATOR QC,
F.CHAIN_OF_CUSTODY_ID CUSTODY,
RTRIM(B.NAME) BNAME,
C.DISPLAY_NAME,
M.NAME SAMPLE_MATRIX

FROM
```

```
TSRCHAR C,
TSRTPA TPA,
TSRTRIP T,
TSRTSA TSA,
TSMSTATN S,
TSRSTVST V,
TSRFDACT F,
TSRBIOPT B,
TSRMATRX M
WHERE
TPA.TSRTRIP_IS_NUMBER =T.TSRTRIP_IS_NUMBER
AND TPA.TSRTRIP_ORG_ID= T.TSRTRIP_ORG_ID
AND T.TSRTRIP_IS_NUMBER = TSA.TSRTRIP_IS_NUMBER
AND T.TSRTRIP_ORG_ID = TSA.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID
AND V.TSRSTVST_IS_NUMBER = F.TSRSTVST_IS_NUMBER
AND V.TSRSTVST_ORG_ID = F.TSRSTVST_ORG_ID
AND F.TSRBIOPT_IS_NUMBER =B.TSRBIOPT_IS_NUMBER(+)
AND F.TSRBIOPT_ORG_ID=B.TSRBIOPT_ORG_ID(+)
AND F.TSRCHAR_IS_NUMBER=C.TSRCHAR_IS_NUMBER(+)
AND F.TSRCHAR_ORG_ID=C.TSRCHAR_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND F.TSRMATRX_ORG_ID = M.TSRMATRX_ORG_ID(+)
ORDER BY
T.START_DATE, T.START_TIME, T.START_TIME_ZONE,
V.ARRIVAL_DATE, V.ARRIVAL_TIME, V.ARRIVAL_TIME_ZONE,
 S.IDENTIFICATION_CD,V.ID_NUMBER,
F.START_DATE, F.START_TIME, F.START_TIME_ZONE,
F.ID_CODE,
 F.REPLICATE_NUMBER
```

ProjDetailsSubTrpSubHabitat.sql

```
SELECT   DISTINCT  F.TSRFDACT_IS_NUMBER, F.TSRFDACT_ORG_ID,
P.NAME GRPNAME
FROM   TSRFDACT F, TSRRSULT R,  TSRHCSC H, TSRCHGRP P
WHERE F.TSRFDACT_IS_NUMBER=R.TSRFDACT_IS_NUMBER AND
F.TSRFDACT_ORG_ID=R.TSRFDACT_ORG_ID AND
R.TSRHCSC_IS_NUMBER=H.TSRHCSC_IS_NUMBER AND
R.TSRHCSC_ORG_ID=H.TSRHCSC_ORG_ID AND H.TSRCHGRP_IS_NUMBER =
P.TSRCHGRP_IS_NUMBER AND H.TSRCHGRP_ORG_ID =
P.TSRCHGRP_ORG_ID  AND F.TYPE_NAME='Field Msr/Obs'  AND
F.MEDIUM_TYPE_NAME<> 'Biological' AND F.CATEGORY_TYPE_NAME
IN('Routine Habitat Assessment', 'Replicate Habitat Assessment')
```

ProjDetailsSubVoucher.sql

```
SELECT V.TSMPROJ_IS_NUMBER, V.TSMPROJ_ORG_ID, V.NAME
VoucherName, V.DESCRIPTION_TEXT VoucherDesc, V.CONTACT_PRSN_NAME
VoucherContact, V.LOCATION_DESC_TEXT VoucherLocation
```

FROM TSMVSC V
ORDER BY V.NAME

Select Options: Organizations, Projects

Sort Sequence: By ascending Organization ID, by ascending Project Start Date

- **Project Station Roles** - by ascending Station ID, by ascending Station Role.
- **Project Personnel Roles** - by ascending Personnel Last Name, by ascending Personnel Role.
- **Project Voucher Specimen Collection** - by ascending Voucher Name.
- **Project Program Assignment** - by ascending Program Type, by ascending Program Name.
- **Cooperating Organizations** - by ascending Cooperating Organization Name.
- **Project Citations** - by descending Citation Type, by ascending Citation ID, by ascending Author Name.
- **Project Data** - by ascending Trip Start, by ascending Trip ID, by ascending Visit Start, by ascending Station ID, by ascending Visit Number, by ascending Activity Start, by ascending Activity ID, by ascending Replicate Number.
- **Project Data Logger Operating Periods** - by ascending Station ID, by ascending Installation ID, by ascending Log File Name.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
PJ4 Project Data Entry **PJ5 Project Data Entry Page 2** **PJ6 Project Data Entry Page 3** **PJ22 Project Support Document**		TSMPROJ
Project	ID	IDENTIFICATION_CD
	Name	NAME
Start Date	Start Date	START_DATE
Planned Duration	Planned Duration	PLANNED_DURATION
Document/Graphic	Document/Graphic	BLOB_TITLE
		TSMGNTXT
Purpose	Project Purpose	DESCRIPTION_TEXT
Study Area	Project Study Area	DESCRIPTION_TEXT
Project Design	Project Design and Sampling Frequency	DESCRIPTION_TEXT

Report Heading	Prompt Name	Oracle Name
Obtain Plan	How/Where to Obtain Complete Plan	DESCRIPTION_TEXT
Quality Assurance	Quality Assurance Project Plan Summary	DESCRIPTION_TEXT
Quality Objectives	Measurement Specific Quality Objectives	DESCRIPTION_TEXT
ST4 Station Data Entry		TSMSTATN
Station ID	ID	IDENTIFICATION_CD
Station Name	Name	NAME
RT41 Project Role Data Entry		TSMPSR
Station Role	Type Name	TYPE_NAME
PJ21 Project Station Weighting Data Entry		TSMPSW
Weight	Weight	WEIGHT
N/A	N/A	WEIGHT_UNIT_CODE
Stratum	Stratum	STRATUM
Category	Category	CATEGORY
Site Status	Site Status	SITE_STATUS
Admin Year	Admin Year	ADMIN_YEAR
Comments	Comments	COMMENT_TEXT
O17 Personnel Data Entry		TSMPERSN
Assigned Personnel, Name	First Name	FIRST_NAME
	Last Name	LAST_NAME
N/A		TSMPROLE
Assigned Personnel, Role	N/A	TITLE
PJ8 Project Voucher Specimen Collection Data Entry		TSMVSC
Name	Collection Name	NAME
Description	Description	DESCRIPTION_TEXT
Contact Person	Contact Person	CONTACT_PRSN_NAME
Location	Location	LOCATION_DESC_TEXT
O9 Program Data Entry		TSMPROGM
Organizational	Name	NAME
	(System Generated)	TYPE_CODE
		TSMGNTXT
N/A	Description	DESCRIPTION_TEXT
RT25 National Program Data Entry		TSMPROGM
National	Name	NAME
	(System Generated)	TYPE_CODE
		TSMGNTXT
N/A	Description	DESCRIPTION_TEXT
O12 Cooperating Organization Data Entry		TSMCPORG
N/A	Name	NAME
N/A	Point Of Contact	POC_NAME
P42 Citation Data Entry **RT27 National Citation Data Entry**		TSRCITN
N/A	ID	IDENTIFICATION_CD

Report Heading	Prompt Name	Oracle Name
N/A	Title Name	TITLE_NAME
N/A	Name, Author	AUTHOR_NAME
N/A	Name, Publishing Organization	JRNL_OR_PBLSHR_NM
N/A	Publication Year, Publishing Organization	PUBLICATION_YEAR
N/A	Volume and Page No.	VOL_AND_PG_NUM
Organizational, National	(System Generated)	ORG_TYPE_CODE
T3 Field Trip Data Entry		TSRTRIP
Trip ID	ID	ID_CODE
N/A	Trip Name	NAME
Trip Start	Start Date and Time, MM-DD-YYYY	START_DATE
	Start Date and Time, HH:MM:SS	START_TIME
	Start Date and Time, Zone	START_TIME_ZONE
Trip Stop	Stop Date and Time, MM-DD-YYYY	END_DATE
	Stop Date and Time, HH:MM:SS	END_TIME
	Stop Date and Time, Zone	END_TIME_ZONE
SV3 Station Visit Data Entry		TSMSTATN
Station ID	Station ID	IDENTIFICATION_CD
N/A	N/A	NAME
		TSRSTVST
Visit #	Visit Number	ID_NUMBER
Visit Start	Arrival Date and Time, MM-DD-YYYY	ARRIVAL_DATE
	Arrival Date and Time, HH:MM:SS	ARRIVAL_TIME
	Arrival Date and Time, Zone	ARRIVAL_TIME_ZONE
Visit Stop	Departure Date and Time, MM-DD-YYYY	DEPARTURE_DATE
	Departure Date and Time, HH:MM:SS	DEPARTURE_TIME
	Departure Date and Time, Zone	DEPRTURE_TIME_ZONE
FA3 Field Measurement/Observation Data Entry **FA2 Sample Data Entry** **FA5 Composite From Sample Data Entry** **FA22 Sample from Sample Data Entry** **SV5 Activity Type Selection**		TSRFDACT
Activity ID /repl	ID	ID_CODE
	Replicate Number	REPLICATE_NUMBER
N/A	Activity Type	TYPE_NAME
N/A	Medium	MEDIUM_TYPE_NAME
N/A	Activity Category	CATEGORY_TYPE_NAME
N/A	Intent	INTENT_TYPE_NAME
N/A	Community	COMMUNITY_NAME
Start	Start, MM-DD-YYYY, Activity	START_DATE
	Start, HH:MM:SS, Activity	START_TIME
	Start, Zone, Activity	START_TIME_ZONE
Stop	Stop, MM-DD-YYYY, Activity	STOP_DATE

Report Heading	Prompt Name	Oracle Name
	Stop, HH:MM:SS, Activity	STOP_TIME
	Stop, Zone, Activity	STOP_TIME_ZONE
N/A	Species Number	SPECIES_NUMBER
(QC)	QC	QC_INDICATOR
Chain of Custody	Chain of Custody ID	CHAIN_OF_CUSTODY_ID
		TSRMATRX
Sample Matrix	Matrix	NAME
		TSRCHAR
N/A	Subject Taxon	DISPLAY_NAME
		TSRBIOPT
Bio Part	Bio Part	NAME
		TSRCHGRP
Habitat Scheme	Name	NAME
ADL2 Automated Data Logger Data Entry		TSRADL
Data Logger ID	Installation ID	IDENTIFICATION CODE
OP2 Operating Period Data Entry		TSROPPID
Log File Name	Log File Name	LOG_FILE_NAME
Period Start	Start Date/Time, MM-DD-YYYY, ADL	START_DATE
	Start Date/Time, HH:MM:SS, ADL	START_TIME
Period Stop	Stop Date/Time, MM-DD-YYYY, ADL	STOP_DATE
	Stop Date/Time, HH:MM:SS, ADL	STOP_TIME

EXAMPLE

Project Details

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Project CBCP-001 / Water Quality and Biological Health of the Chesapeake Bay

Start Date 12/12/1991 **Planned Duration** Ongoing

Document/Graphic Project Support Document Title, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Purpose Purpose Text, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Study Area Study Area Text, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Project Design Project Design Text, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Obtain Plan Obtain Plan Text, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Quality Assurance Quality Assurance Text, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Quality Objectives Quality Objectives Text, wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap wrap

Assigned Stations

Station ID	Station Name	Station Role
CBC-005	Nantichoke River	Benthic Survey Fish Tissue Sampling

Weight 78 percent
Stratum WWWWWWWWWWWWWWW **Category** WWWWWWWWWWWWWWW
Site Status WWWWWWWWWWWWWWW **Admin Year** WWWWWWWWWWWWWWW
Comments Comments Text wrapwrapwrap wrapwrapwrap wrapwrapwrap wrapwrapwrap wrapwrapwrap wrapwrapwrap wrapwrapwrap wrapwrapwrap.

CBC-007	Patuxent River Mouth	Fish Tissue Sampling
CBC-009	Pocomoke River Mouth	Fish Tissue Sampling

Weight 78 percent

Assigned Personnel

Name	Role
Boyd, Joyce	Taxonomist
Smith, Stephen	Biologist Taxonomist

Voucher Specimen Collection

Name	Things that Crawl or Flail without Backbones
Description	Like it says above, things that crawl or flail without backbones.
Contact Person	Dr. Bobby Dole
Location	University of Maryland Department of Things that Crawl or Flail without Backbones

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Assigned Programs

National	Botanists United National Program This program is specifically dedicated to botanical taxonomy.
National	Chesapeake Bay Nutrient Clean-up This multi-org program includes Projects from all the Commission Cooperating Organizations which deal with the nutrient control in the Chesapeake Bay.
Organizational	Pfiesteria Study of the Pocomoke and Wicomico River System Enter a detailed description of the "Pfiesteria Study of the Pocomoke and Wicomico River System".

Assigned Cooperating Organizations

US Geological Survey / Dr. Tom Yorke
Virginia Department of Environmental Quality / Dr. Stan Walker

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Citations

Organizational	Commission for a Good Clean Chesapeake Bay, 1991, Standard Procedures for Sampling the Chesapeake Bay, Virginia Beach Press, 290 pp
Organizational	Dr. Lee Manning, 1988, What the Hell is This? - Taxonomy of the Chesapeake Bay, University of Virginia Press, 1290 pp
Organizational	CITID0000012 - Dr. Lee Manning, 1989, I've Seen this Before! - Taxonomy of the Chesapeake Bay, University of Virginia Press, 1300 pp
National	American Public Health Association, 1992, Standard Methods for the Examination of Water and Waste Water, 18th edition, American Public Health Association, 18th edition

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Project Samples, Measurements and Observations

Trip ID	02-1991-1			**Trip Start**	02/02/1991	07:00:00	EST
	Smithicalean Monthly Sampling Trip-Feburary-1			**Trip Stop**	02/02/1991	15:00:00	EST
Station ID	CBC-003	**Visit #**	1	**Visit Start**	02/02/1991	10:00:00	EST
	Middle Chesapeake Bay Transect, Point Lookout			**Visit Stop**	02/02/1991	12:00:00	EST
Activity ID	02-91-003-01		Sample	**Start**	02/02/1991	10:15:00	EST
	Biological		Routine Sample	**Stop**	02/02/1991	10:40:00	EST
	Taxon Abundance		Phytoplankton/Zooplankton				
Activity ID	02-91-003-01		Sample	**Start**	02/02/1991	10:16:00	EST
(QC)	Water		Routine Sample	**Stop**	02/02/1991	10:40:00	EST
	Sample Matrix	Solid Waste Containing greater than or equal to 0.5% Dry Solids					
	Chain of Custody	Chain of Custody					
Activity ID	XXXXXXXXXXXXX / repl 123		Sample	**Start**	02/02/1991	10:17:00	EST
	Biological		Field Replicate	**Stop**	02/02/1991	10:40:00	EST
	Tissue						
	Oncorhynchus Mykiss		sp.1	**Bio Part**	Ear		
Activity ID	02-91-003-01		Field Msr/Obs	**Start**	02/02/1991	10:18:00	EST
			Routine Habitat Assessment	**Stop**	02/02/1991	11:00:00	EST
	Habitat Scheme	Manning/King Ecosystem Health					
Station ID	CBC-003	**Visit #**	2	**Visit Start**	02/02/1991	10:30:00	EST
				Visit Stop	02/02/1991	12:00:00	EST
Activity ID	02-91-003-01		Field Msr/Obs	**Start**	02/02/1991	10:31:00	EST
	Air		Integrated Flow Porportioned	**Stop**	02/02/1991	10:40:00	EST
Trip ID	02-1991-1			**Trip Start**	02/03/1991	07:01:00	EST
	Smithicalean Monthly Sampling Trip-Feburary-1			**Trip Stop**	02/03/1991	15:00:00	EST
Station ID	CBC-003	**Visit #**	1	**Visit Start**	02/03/1991	10:00:00	EST
	Middle Chesapeake Bay Transect, Point Lookout			**Visit Stop**	02/03/1991	12:00:00	EST
Activity ID	02-91-003-01		Sample	**Start**	02/03/1991	10:15:00	EST
	Biological		Routine Sample	**Stop**	02/03/1991	10:40:00	EST
	Taxon Abundance		Phytoplankton/Zooplankton				

Project Data Logger Operating Periods

Station	Data Logger ID	Log File Name	Start Period		Stop Period	
022-001	CBCDL-04	022-001	02/02/1992	10:10:00	02/04/1992	10:10:00
022-002	CBCDL-02	022-001	02/02/1992	10:10:00	02/04/1992	10:10:00
	CBCDL-03	022-001	02/02/1992	10:10:00	02/04/1992	10:10:00
		022-002	02/02/1992	10:10:00	02/04/1992	10:10:00

Station Summary

Report Description: This report provides a summary of data associated with each selected Station including Organization ID and name, Station codes and names, Station types and locations, and embodied wells and pipes with locations.

The following fields will be hidden if no data is present:

- Point Name.
- HUC Code and Name.
- RF1 River Reach.
- Native American Land.
- Secondary County Assignment.

Select Logic:

Station.sql

```
SELECT
S.TSMSTATN_IS_NUMBER,
S.TSMSTATN_ORG_ID,
RTRIM(O.ORG_ID) ORG_ID,
RTRIM(O.NAME) ORG,
DECODE(RTRIM(S.NAME), '', RTRIM(S.IDENTIFICATION_CD),
RTRIM(S.IDENTIFICATION_CD) || ' / ' || RTRIM(S.NAME)) STN,
DECODE(S.D_DELETE_FLAG,'N','Active','Y','Susp.') STN_STATUS,
DECODE(V.SECONDARY_TYPE_CD, ' ', RTRIM(V.PRIMARY_TYPE_CD),
RTRIM(V.PRIMARY_TYPE_CD) || ' / '|| RTRIM(V.SECONDARY_TYPE_CD))
STN_TYPE, J.IDENTIFICATION_CD PRJ_ID , J.NAME PRJ_NAME

FROM
TSMORGAN O,
TSMSTATN S,
TSMPROJ J,
TSMPSA A,
TSMVSTC V

WHERE
O.TSMORGAN_IS_NUMBER =S.TSMORGAN_IS_NUMBER(+)
AND  S.TSMSTATN_IS_NUMBER = A.TSMSTATN_IS_NUMBER(+)
AND S.TSMSTATN_ORG_ID = A.TSMSTATN_ORG_ID(+)
AND A.TSMPROJ_IS_NUMBER = J.TSMPROJ_IS_NUMBER(+)
AND A.TSMPROJ_ORG_ID = J.TSMPROJ_ORG_ID(+)
AND S.TSMVSTC_IS_NUMBER=V.TSMVSTC_IS_NUMBER(+)
AND S.TSMVSTC_ORG_ID = V.TSMVSTC_ORG_ID(+)
&P_ORG &P_STN &P_PRJ

ORDER BY
O.ORG_ID,
S.IDENTIFICATION_CD,
J.IDENTIFICATION_CD
```

StationSummaryPrjsub.sql

```
 SELECT A.TSMSTATN_IS_NUMBER, TSMSTATN_ORG_ID
,J.IDENTIFICATION_CD PRJ_ID , J.NAME PRJ_NAME
```

```
FROM
TSMPROJ J,
TSMPSA A

WHERE
 A.TSMPROJ_IS_NUMBER = J.TSMPROJ_IS_NUMBER(+)
AND A.TSMPROJ_ORG_ID = J.TSMPROJ_ORG_ID(+)

ORDER BY
J.IDENTIFICATION_CD
```

StationSummaryALPsub.sql

```
SELECT
P.TSMSTATN0IS_NUMBER,
P.TSMSTATN0ORG_ID,

DECODE(P.TYPE_CODE, NULL, NULL,
' ' || TO_CHAR(P.LAT_DEGREE_MSR,'00') || '  ' || TO_CHAR(P.LAT_MINUTE_MSR,
'00') || '  ' || TO_CHAR(P.LAT_SECOND_MSR, '00.9999') ||
DECODE(P.LONG_DIRECTION, 'E', '  ','   ') || P.LAT_DIRECTION ||'   (  '||
TO_CHAR(P.GPS_LAT_DEGREE_MSR,'00') || '  '
||TO_CHAR(P.GPS_LAT_MINUTE_MSR, '00.9999') || ';     ' ||
TO_CHAR(LAT_DEC_DEG_MSR,'00.9999999') ||')') LAT,

DECODE(P.TYPE_CODE, NULL, NULL, TO_CHAR(P.LONG_DEGREE_MSR, '000')
|| '  ' || TO_CHAR(P.LONG_MINUTE_MSR, '00') || '  ' ||
TO_CHAR(P.LONG_SECOND_MSR, '00.9999') || '  ' || P.LONG_DIRECTION ||'   ('||
TO_CHAR(P.GPS_LONG_DEG_MSR, '000') || '  ' ||
TO_CHAR(P.GPS_LONG_MIN_MSR, '00.9999') || ';   ' ||
TO_CHAR(LONG_DEC_DEG_MSR,'000.9999999') ||')')  LNG,


P.TYPE_CODE STN_LOC_TYPE,
P.SEQUENCE_NUMBER,
P.POINT_NAME,
RTRIM(GM.DESCRIPTION) STN_GM,
RTRIM(GD.DESCRIPTION) STN_GD,
DECODE(P.ELEVATION_MSR,0,NULL,TO_CHAR(P.ELEVATION_MSR)||'
'||P.ELVTN_UNT_CD) ELEVATION,  RTRIM(EM.DESCRIPTION) STN_EM,
RTRIM(ED.DESCRIPTION) STN_ED,
GP.COUNTY_NAME,
DECODE(RTRIM(GP.STATE_NAME),'',NULL, RTRIM(GP.STATE_NAME)||'
('||RTRIM(GP.STATE_POSTAL_CODE) ||')') PSTATE,
GP.COUNTRY_NAME,
GS.COUNTY_NAME SND_COUNTY_NAME,
DECODE(RTRIM(GS.STATE_NAME),'',NULL, RTRIM(GS.STATE_NAME)||' (' ||
RTRIM(GS.STATE_POSTAL_CODE)||')') SND_STATE,
GS.COUNTRY_NAME SND_COUNTRY_NAME,
DECODE(U.HYDROLOGIC_UNIT_CD,NULL,NULL,TO_CHAR(U.HYDROLOGIC_
UNIT_CD) ||' / '||RTRIM(U.NAME)) HUC,
DECODE(R.SEGMENT_CODE, NULL,NULL, RTRIM(R.SEGMENT_CODE) || ' / ' ||
RTRIM(R.NAME)) RNAME,
```

```
DECODE(N.TSMNAL_CD, NULL,NULL,TO_CHAR(N.TSMNAL_CD) ||' / ' ||
RTRIM(N.NAME)) NNAME

FROM
TSMALP P,
TSMGEOPA GP,
TSMGEOPA GS,
TSMRRR R,
TSMNAL N,
TSMFHU U,
TSMMAD GM,
TSMMAD GD,
TSMMAD EM,
TSMMAD ED

WHERE
P.TSMGEOPA_IS_NUMBER=GP.TSMGEOPA_IS_NUMBER(+)
AND P.TSMGEOPA_ORG_ID=GP.TSMGEOPA_ORG_ID(+)
AND P.TSMGEOPA0IS_NUMBER=GS.TSMGEOPA_IS_NUMBER(+)
AND P.TSMGEOPA0ORG_ID=GS.TSMGEOPA_ORG_ID(+)
AND P.TSMRRR_IS_NUMBER=R.TSMRRR_IS_NUMBER(+)
AND P.TSMRRR_ORG_ID=R.TSMRRR_ORG_ID(+)
AND P.TSMNAL_CD=N.TSMNAL_CD(+)
AND P.TSMNAL_STATE=N.TSMNAL_STATE(+)
AND P.TSMNAL_ORG_ID=N.TSMNAL_ORG_ID(+)
AND P.TSMFHU_IS_NUMBER = U.TSMFHU_IS_NUMBER(+)
AND P.TSMFHU_ORG_ID = U.TSMFHU_ORG_ID(+)
AND P.GEOPSTNG_METHOD_CD=GM.ID_CODE(+)
AND GM.CATEGORY(+)='HORIZONTAL'
AND GM.SUBCATEGORY(+)='METHOD'
AND P.GEOPSTNG_DATUM_CD=GD.ID_CODE(+)
AND GD.CATEGORY(+)='HORIZONTAL'
AND GD.SUBCATEGORY(+)='DATUM'
AND P.ELVTN_METHOD_CD=EM.ID_CODE(+)
AND EM.CATEGORY(+)='VERTICAL'
AND EM.SUBCATEGORY(+)='METHOD'
AND P.ELEVATION_DATUM_CD=ED.ID_CODE(+)
AND ED.CATEGORY(+)='VERTICAL'
AND ED.SUBCATEGORY(+)='DATUM'
AND P.TSMSTATN0IS_NUMBER IS NOT NULL
AND P.TSMSTATN0ORG_ID IS NOT NULL

AND P.TYPE_CODE NOT IN ('WELL HEAD','END OF PIPE')

ORDER BY
P.TYPE_CODE,
P.SEQUENCE_NUMBER
```

StationSummaryPipessub.sql

```
SELECT
FC.TSMSTATN_IS_NUMBER,
FC.TSMSTATN_ORG_ID,
PIP.ID_NUMBER PIPEID,
```

```
P.TYPE_CODE PIPE_LOC_TYPE,
P.POINT_NAME PIPE_POINTNAME,

DECODE(P.TYPE_CODE, NULL, NULL,
' ' || TO_CHAR(P.LAT_DEGREE_MSR,'00') || '  ' || TO_CHAR(P.LAT_MINUTE_MSR,
'00') || '  ' || TO_CHAR(P.LAT_SECOND_MSR, '00.9999') ||
DECODE(P.LONG_DIRECTION, 'E', '  ','   ') || P.LAT_DIRECTION ||'   (  '||
TO_CHAR(P.GPS_LAT_DEGREE_MSR,'00') || '  '
||TO_CHAR(P.GPS_LAT_MINUTE_MSR, '00.9999') || ';     ' ||
TO_CHAR(LAT_DEC_DEG_MSR,'00.9999999') ||')') PIPE_LAT,

DECODE(P.TYPE_CODE, NULL, NULL, TO_CHAR(P.LONG_DEGREE_MSR, '000')
|| '  ' || TO_CHAR(P.LONG_MINUTE_MSR, '00') || '  ' ||
TO_CHAR(P.LONG_SECOND_MSR, '00.9999') || '  ' || P.LONG_DIRECTION ||'   ('||
TO_CHAR(P.GPS_LONG_DEG_MSR, '000') || '  ' ||
TO_CHAR(P.GPS_LONG_MIN_MSR, '00.9999') || ';   ' ||
TO_CHAR(LONG_DEC_DEG_MSR,'000.9999999') ||')')  PIPE_LNG,

RTRIM(GM.DESCRIPTION) PIPE_GMETHOD,
RTRIM(GD.DESCRIPTION) PIPE_GDATUM
FROM
TSMFCLTY FC,
TSMPIPE PIP,
TSMALP P,
TSMMAD GM,
TSMMAD GD

WHERE
FC.TSMSTATN_IS_NUMBER = PIP.TSMSTATN_IS_NUMBER
AND FC.TSMSTATN_ORG_ID = PIP.TSMSTATN_ORG_ID
AND PIP.TSMPIPE_IS_NUMBER = P.TSMPIPE_IS_NUMBER(+)
AND PIP.TSMPIPE_ORG_ID = P.TSMPIPE_ORG_ID(+)
AND P.GEOPSTNG_METHOD_CD=GM.ID_CODE(+)
AND GM.CATEGORY(+)='HORIZONTAL'
AND GM.SUBCATEGORY(+)='METHOD'
AND P.GEOPSTNG_DATUM_CD=GD.ID_CODE(+)
AND GD.CATEGORY(+)='HORIZONTAL'
AND GD.SUBCATEGORY(+)='DATUM'

ORDER BY
PIP.ID_NUMBER
```

StationSummaryWellsub.sql

```
SELECT
S.TSMSTATN_IS_NUMBER,
S.TSMSTATN_ORG_ID,
W.ID_NUMBER WELLID,
P.TYPE_CODE WELL_LOC_TYPE,
P.POINT_NAME WELL_POINTNAME,

DECODE(P.TYPE_CODE, NULL, NULL,
' ' || TO_CHAR(P.LAT_DEGREE_MSR,'00') || '  ' || TO_CHAR(P.LAT_MINUTE_MSR,
'00') || '  ' || TO_CHAR(P.LAT_SECOND_MSR, '00.9999') ||
DECODE(P.LONG_DIRECTION, 'E', '  ','   ') || P.LAT_DIRECTION ||'   (  '||
```

```
TO_CHAR(P.GPS_LAT_DEGREE_MSR,'00') || '  '
||TO_CHAR(P.GPS_LAT_MINUTE_MSR, '00.9999') || ';     ' ||
TO_CHAR(LAT_DEC_DEG_MSR,'00.9999999') ||')') WELL_LAT,

DECODE(P.TYPE_CODE, NULL, NULL, TO_CHAR(P.LONG_DEGREE_MSR, '000')
|| '  ' || TO_CHAR(P.LONG_MINUTE_MSR, '00') || '  ' ||
TO_CHAR(P.LONG_SECOND_MSR, '00.9999') || '  ' || P.LONG_DIRECTION ||'   ('||
TO_CHAR(P.GPS_LONG_DEG_MSR, '000') || '  ' ||
TO_CHAR(P.GPS_LONG_MIN_MSR, '00.9999') || ';   ' ||
TO_CHAR(LONG_DEC_DEG_MSR,'000.9999999') ||')')  WELL_LNG,

RTRIM(GM.DESCRIPTION) WELL_GMETHOD,
RTRIM(GD.DESCRIPTION) WELL_GDATUM,
DECODE(P.ELEVATION_MSR,0,NULL,TO_CHAR(P.ELEVATION_MSR)||'
'||P.ELVTN_UNT_CD) WELL_ELEVATION,
RTRIM(EM.DESCRIPTION)  WELL_EMETHOD,
RTRIM(ED.DESCRIPTION) WELL_EDATUM

FROM
TSMORGAN O,
TSMSTATN S,
TSMWELL W,
TSMALP P,
TSMMAD GM,
TSMMAD GD,
TSMMAD EM,
TSMMAD ED

WHERE
O.TSMORGAN_IS_NUMBER =S.TSMORGAN_IS_NUMBER
AND  S.TSMSTATN_IS_NUMBER = W.TSMSTATN_IS_NUMBER
AND S.TSMSTATN_ORG_ID = W.TSMSTATN_ORG_ID
AND W.TSMWELL_IS_NUMBER = P.TSMWELL_IS_NUMBER(+)
AND W.TSMWELL_ORG_ID = P.TSMWELL_ORG_ID(+)
AND P.GEOPSTNG_METHOD_CD=GM.ID_CODE(+)
AND GM.CATEGORY(+)='HORIZONTAL'
AND GM.SUBCATEGORY(+)='METHOD'
AND P.GEOPSTNG_DATUM_CD=GD.ID_CODE(+)
AND GD.CATEGORY(+)='HORIZONTAL'
AND GD.SUBCATEGORY(+)='DATUM'
AND P.ELVTN_METHOD_CD=EM.ID_CODE(+)
AND EM.CATEGORY(+)='VERTICAL'
AND EM.SUBCATEGORY(+)='METHOD'
AND P.ELEVATION_DATUM_CD=ED.ID_CODE(+)
AND ED.CATEGORY(+)='VERTICAL'
AND ED.SUBCATEGORY(+)='DATUM'

ORDER BY
W.ID_NUMBER
```

Select Options: Organizations, Projects, Stations

Sort Sequence: By ascending Organization ID, by ascending Station ID, by ascending

Location Type, by ascending Location Type Sequence Number with Well Heads and End of Pipes appearing as the last location type.

C Assigned Projects - by ascending Project ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
ST4 Station Data Entry		TSMSTATN
Station	ID	IDENTIFICATION_CD
	Name	NAME
Status	N/A	D_DELETE_FLAG
RT31 Valid Station Type Data Entry		TSMVSTC
Station Type	Primary Type Code	PRIMARY_TYPE_CD
	Secondary Type Code	SECONDARY_TYPE_CD
AL2 Absolute Location Data Entry **WL4 Well Absolute Location Data Entry** **PI3 Pipe Absolute Location Data Entry** **AL4 Absolute Location Elevation Data Entry** **WL5 Well Absolute Location Elevation Data Entry**		TSMALP
Location Type	Type	TYPE_CODE
Seq #	Sequence No.	SEQUENCE_NUMBER
Point Name	Point Name	POINT_NAME
Latitude (;)	Latitude	LAT_DEGREE_MSR
		LAT_MINUTE_MSR
		LAT_SECOND_MSR
		LAT_DIRECTION
	Decimal Minutes	GPS_LAT_DEGREE_MSR
		GPS_LAT_MINUTE_MSR
	Decimal Degrees	LAT_DEC_DEG_MSR
Longitude (;)	Longitude	LONG_DEGREE_MSR
		LONG_MINUTE_MSR
		LONG_SECOND_MSR
		LONG_DIRECTION
	Decimal Minutes	GPS_LONG_DEG_MSR
		GPS_LONG_MIN_MSR
	Decimal Degrees	LONG_DEC_DEG_MSR
Elevation Measure	Measure	ELEVATION_MSR
		ELVTN_UNT_CD
		TSMMAD
Geopositioning, Method Geopositioning, Datum Method Datum	Geopositioning, Method Geopositioning, Datum Method Datum	DESCRIPTION

Report Heading	Prompt Name	Oracle Name
HU1 FIPS HUC Assignment Data Entry		TSMFHU
Hydrologic Unit Code/Name	Code	HYDROLOGIC_UNIT_CD
	Name	NAME
GP1 Geopolitical Area Data Entry		TSMGEOPA
Country	Country	COUNTRY_CODE
State/Province	State	STATE_POSTAL_CODE
	N/A	STATE_NAME
County	County	COUNTY_NAME
WL3 Well Data Entry		TSMWELL
Well Number	Well Number	ID_NUMBER
PI2 Pipe Data Entry		TSMPIPE
Pipe Number	Pipe Number	ID_NUMBER
NA3 Native American Land Assignment Data Entry		TSMNAL
Native American Land	Name	NAME
	Code	TSMNAL_CD
RF1 Selection List (No Data Entry)		TSMRRR
RF1 River Reach	Name	NAME
	Segment Code	SEGMENT_CODE
PJ11 Project Station Selection List		TSMPROJ
Assigned Projects	Project ID	IDENTIFICATION_CD
	Name	NAME

EXAMPLE

Station Summary

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Station CBC-001 / Easton Public Drinking Supply **Status** Active

Assigned Projects CBCP-001 Water Quality and Biological Health of the Chesapeake Bay
CBCP-002 Sediment Toxicity Study of the Wicomico River

Station Type Well

Location Type *POINT OF RECORD **Seq. #**
Point Name Point of Record Point Name
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 076 05 00.0000 W (076 05.0000; -76.0833333)
Method Address Matching-Nearest Intersection
Datum North American Datum 1983
Elevation Measure 12345.6789 ft
Method Algorithm conversion from State Plane Coordinate System
Datum Local Tidal Datum

Hydrologic Unit Code/Name 02060005 / Choptank
RF1 River Reach 013 / Hazel River
Native American Land 2850 / Chickahominy

Primary County Assignment

County: Talbot
State/Province: Maryland (MD)
Country: US

Secondary County Assignment

County: St. Mary's
State/Province: Maryland (MD)
Country: US

Location Type Well Head **Well Number** 1
Point Name Well Head Point Name
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 076 05 00.0000 W (076 05.0000; -76.0833333)
Method Address Matching-Nearest Intersection
Datum North American Datum 1983
Elevation Measure 12345.6789 ft
Method Algorithm conversion from State Plane Coordinate System
Datum Local Tidal Datum

Location Type Well Head **Well Number** 2WWWWWWWWWWWWW
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 076 05 00.0000 W (076 05.0000; -76.0833333)
Method Address Matching-Nearest Intersection
Datum North American Datum 1983
Elevation Measure 12345.6789 ft
Method Algorithm conversion from State Plane Coordinate System
Datum Local Tidal Datum

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.

Location Type End of Pipe **Pipe Number** WWWWWWWWWWWWW
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 076 05 00.0000 W (076 05.0000; -76.0833333)

Station Details

Report Description:

This report provides detailed Station information for each selected Station including Organization ID and name; Station type; Station addresses; Station locations; Well locations and uses; Pipe locations and uses; Pump locations and uses; and Spring, Facility, Permanent Grid and Transect information.

The ZID Relation codes stored in the database will be translated into the names that appear on window ST5 as follows:

- C AB - At Boundary.
- C NF - At Outfall.
- C WZ - Within ZID.
- C FF - Beyond ZID.
- C RF - Reference.

The following fields or field groups should not be displayed if there is no data present.

- C Document/Graphic.
- C Ecoregion name.
- C Travel Directions.
- C Influence Area.
- C ZID Relation.
- C Physical and Electronic Address individual text lines.
- C External Reference Schemes.
- C Ocean, Estuary, and Great Lake information.
- C Point Name.
- C Elevation.
- C Well Basic Information (except mandatory fields).
  - S Interval, Casing details, Fill details, Geologic Unit details, Hole details, Lithologic Unit details, Opening details.
  - S Pumps.
  - S Logs.
    - -- Location Text.
  - S Legal Entity Types.
- C All ALPs except Permanent Grid and Permanent Transect: Scale and Measurement Date.
- C Facility Information.
  - - Pipe Description.
- C Spring Information.
- C Permanent Grid Information.
- C Permanent Transect Information.

Special Separators

- Horizontal line from margin to margin between Stations.
- 4 inch centered line before and between Wells, Facilities, Springs.
- 2 inch line set at 1.75 inches from left margin before Intervals, Pumps, Logs, and Well Legal Entities.
- 2 inch centered dashed line between multiple Intervals and Pumps.
- A short, centered, dashed line will appear between multiple occurrences of wells.
- Triple space before:
  - External Reference Schemes.
  - Point of Record.
  - Oceans/Estuaries/Great Lakes.
  - HUC.
  - Permanent Grid/Permanent Transect.

Select Logic: **StationDetails.sql**

```
SELECT
RTRIM(O.ORG_ID) ORG_ID,
RTRIM(O.NAME) ORG,
S.TSMSTATN_IS_NUMBER S_TSMSTATN_IS_NUMBER,
S.TSMSTATN_ORG_ID S_TSMSTATN_ORG_ID,
DECODE(S.IDENTIFICATION_CD, NULL,NULL, RTRIM(S.IDENTIFICATION_CD)
|| '   ' || RTRIM(S.NAME)) STN_ID,
S.BLOB_TITLE STN_BLOB,
DECODE(S.D_DELETE_FLAG,'N','Active','Y','Susp.') STN_STATUS,
DECODE(V.PRIMARY_TYPE_CD,NULL,NULL,DECODE(V.SECONDARY_TYPE_C
D,' ',RTRIM(V.PRIMARY_TYPE_CD), RTRIM(V.PRIMARY_TYPE_CD) || ' / ' ||
RTRIM(V.SECONDARY_TYPE_CD))) P_S_TYPE,
DECODE(TO_CHAR(S.ESTABLISHMENT_DATE,'MM/DD/YYYY'),'01/01/0001',NUL
L,TO_CHAR(S.ESTABLISHMENT_DATE,'MM/DD/YYYY'))
ESTABLISHMENT_DATE,
DECODE(S.WATER_DEPTH, 0,NULL,TO_CHAR(S.WATER_DEPTH) || ' '
||RTRIM(S.WATER_DEPTH_UNIT)) WATER_DEPTH,
S.DESCRIPTION_TEXT STN_DESCRIPTION,
S.EPA_KEY_IDENTIFIER,
S.ECOREGION_NAME,
S.TRAVEL_DIR_TXT TRAVEL_DIRECTIONS,
S.INFLUENCE_AREA,
DECODE(S.ZID_RELATION_CODE, 'AB','At Boundary','NF',' At Outfall','WZ','Within
ZID', 'FF','Beyond ZID','RF','Reference', S.ZID_RELATION_CODE) ZID_RELATION,
J.IDENTIFICATION_CD PRJ_ID , J.NAME PRJ_NAME

FROM
TSMORGAN O,
TSMSTATN S,
TSMPROJ J,
TSMPSA A,
TSMVSTC V

WHERE
O.TSMORGAN_IS_NUMBER =S.TSMORGAN_IS_NUMBER(+)
```

```
AND  S.TSMSTATN_IS_NUMBER = A.TSMSTATN_IS_NUMBER(+)
AND S.TSMSTATN_ORG_ID = A.TSMSTATN_ORG_ID(+)
AND A.TSMPROJ_IS_NUMBER = J.TSMPROJ_IS_NUMBER(+)
AND A.TSMPROJ_ORG_ID = J.TSMPROJ_ORG_ID(+)
AND S.TSMVSTC_IS_NUMBER=V.TSMVSTC_IS_NUMBER(+)
AND S.TSMVSTC_ORG_ID = V.TSMVSTC_ORG_ID(+)
&P_ORG &P_STN  &P_PRJ

ORDER BY
O.ORG_ID,
S.IDENTIFICATION_CD,
J.IDENTIFICATION_CD
```

StationDetailPrjsub.sql

```
 SELECT A.TSMSTATN_IS_NUMBER, TSMSTATN_ORG_ID
,J.IDENTIFICATION_CD PRJ_ID , J.NAME PRJ_NAME

FROM
TSMPROJ J,
TSMPSA A

WHERE
 A.TSMPROJ_IS_NUMBER = J.TSMPROJ_IS_NUMBER(+)
AND A.TSMPROJ_ORG_ID = J.TSMPROJ_ORG_ID(+)

ORDER BY
J.IDENTIFICATION_CD
```

StationDetailPhysicalAddresssub.sql

```
SELECT
A.TSMSTATN_IS_NUMBER,
A.TSMSTATN_ORG_ID,
RTRIM(A.TYPE_CODE)  ADD_TYPE,
A.LINE_ONE_TEXT,
A.LINE_TWO_TEXT,
A.LINE_THREE_TEXT,
A.LINE_FOUR_TEXT,
DECODE(RTRIM(A.STATE_POSTAL_CODE),",",A.STATE_POSTAL_CODE)
STZIP,
A.COUNTRY_CODE,
DECODE(TO_CHAR(A.START_DATE,'MM/DD/YYYY'),'01/01/0001',NULL,TO_CH
AR(A.START_DATE,'MM/DD/YYYY')) START_DATE

FROM
TSMADDR A

WHERE
A.TSMSTATN_IS_NUMBER IS NOT NULL
AND A.TSMSTATN_ORG_ID IS NOT NULL

ORDER BY
A.TYPE_CODE
```

StationDetailElectronicAddresssub.sql

```
SELECT
TSMSTATN_IS_NUMBER,
TSMSTATN_ORG_ID,
RTRIM(TYPE_CODE) EADD_TYPE,
ADDRESS_TEXT EADD_TEXT,
COMMENT_TEXT EADD_COMMENT

FROM
TSMEADDR

WHERE
TSMSTATN_IS_NUMBER IS NOT NULL
AND TSMSTATN_ORG_ID IS NOT NULL

ORDER BY
TYPE_CODE,
ADDRESS_TEXT
```

StationDetailExternalReferencesub.sql

```
SELECT
L.TSMSTATN_IS_NUMBER,
L.TSMSTATN_ORG_ID,
E.ACRONYM,
E.NAME EX_NAME,
L.LABEL_CODE EX_LABEL

FROM
TSMRFLBL L,
TSMERS E

WHERE
L.TSMERS_IS_NUMBER = E.TSMERS_IS_NUMBER
AND L.TSMERS_ORG_ID=E.TSMERS_ORG_ID

ORDER BY
E.ACRONYM
```

StationDetailALPsub.sql

```
SELECT
P.TSMSTATN0IS_NUMBER,
P.TSMSTATN0ORG_ID,
P.TSMALP_IS_NUMBER,
P.TSMALP_ORG_ID,
P.TYPE_CODE LOCATION_TYPE,
P.SEQUENCE_NUMBER SEQ#,
P.POINT_NAME,

DECODE(P.TYPE_CODE, NULL, NULL,
' ' || TO_CHAR(P.LAT_DEGREE_MSR,'00') || '  ' || TO_CHAR(P.LAT_MINUTE_MSR,
'00') || '  ' || TO_CHAR(P.LAT_SECOND_MSR, '00.9999') ||
DECODE(P.LONG_DIRECTION, 'E', '  ','   ') || P.LAT_DIRECTION ||'   (  '||
```

```
TO_CHAR(P.GPS_LAT_DEGREE_MSR,'00') || '  '
||TO_CHAR(P.GPS_LAT_MINUTE_MSR, '00.9999') || ';     ' ||
TO_CHAR(LAT_DEC_DEG_MSR,'00.9999999') ||')') LATITUDE,

DECODE(P.TYPE_CODE, NULL, NULL, TO_CHAR(P.LONG_DEGREE_MSR, '000')
|| '  ' || TO_CHAR(P.LONG_MINUTE_MSR, '00') || '  ' ||
TO_CHAR(P.LONG_SECOND_MSR, '00.9999') || '  ' || P.LONG_DIRECTION ||'   ('||
TO_CHAR(P.GPS_LONG_DEG_MSR, '000') || '  ' ||
TO_CHAR(P.GPS_LONG_MIN_MSR, '00.9999') || ';   ' ||
TO_CHAR(LONG_DEC_DEG_MSR,'000.9999999') ||')')  LONGITUDE,

P.RF3_RIVER_REACH_CD RF3_RIVER_REACH,
P.NRCS_WTRSD_ID_NUM NRCS_WATERSHED_ID,
GP.COUNTY_NAME PRM_COUNTY,
DECODE(RTRIM(GP.STATE_NAME),'',NULL, RTRIM(GP.STATE_NAME)||'
('||RTRIM(GP.STATE_POSTAL_CODE) ||')') PRM_STATE,
GP.COUNTRY_NAME PRM_COUNTRY,
GS.COUNTY_NAME SND_COUNTY,
DECODE(RTRIM(GS.STATE_NAME),'',NULL, RTRIM(GS.STATE_NAME)||' (' ||
RTRIM(GS.STATE_POSTAL_CODE)||')') SND_STATE,
GS.COUNTRY_NAME SND_COUNTRY,
RTRIM(GM.DESCRIPTION) STN_GM,
RTRIM(GD.DESCRIPTION) STN_GD,
P.GEOPSTNG_SCALE_TXT GEOPOSITIONING_SCALE,
DECODE(TO_CHAR(P.LAT_LONG_MSR_DT,
'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(P.LAT_LONG_MSR_DT,
'MM/DD/YYYY')) GEOPSITION_MEASURE_DATE,
DECODE(P.ELEVATION_MSR,0,NULL,TO_CHAR(P.ELEVATION_MSR)||'
'||P.ELVTN_UNT_CD) ELEVATION,
RTRIM(EM.DESCRIPTION) STN_EM,
RTRIM(ED.DESCRIPTION) STN_ED,
DECODE(TO_CHAR(P.ELVTN_MSR_DT,
'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(P.ELVTN_MSR_DT,
'MM/DD/YYYY')) ELEVATION_MEASURE_DATE,
DECODE(P.RF1_MILEAGE, 0, NULL,RTRIM(P.RF1_MILEAGE) || ' mi')
STATION_LOCATION,
DECODE(P.ON_RIVER_REACH_IND,'Y','Yes','N','No',Null) ON_RIVER,
R.NAME  RNAME,
R.SEGMENT_CODE,
R.TYPE_CODE RTYPE,
R.LEVEL_CODE,
DECODE(R.MILE_LENGTH, NULL, NULL,RTRIM(R.MILE_LENGTH) || ' mi')
MILE_LENGTH,

DECODE(H.HYDROLOGIC_UNIT_CD,NULL,NULL,TO_CHAR(H.HYDROLOGIC_
UNIT_CD) || ' / ' ||RTRIM(H.NAME) || ' / '||RTRIM(H.STATES_NAME))
HUC_CODE_NAME_STATE,

DECODE(N.TSMNAL_CD, NULL,NULL, TO_CHAR(N.TSMNAL_CD) || ' / ' ||
RTRIM(N.NAME) || ' / ' || RTRIM(N.TSMNAL_STATE))
NATIVE_LAND_CODE_NAME_STATE

FROM
TSMALP P,
```

```
TSMGEOPA GP,
TSMGEOPA GS,
TSMRRR R,
TSMNAL N,
TSMFHU H,
TSMMAD GM,
TSMMAD GD,
TSMMAD EM,
TSMMAD ED

WHERE
P.TSMGEOPA_IS_NUMBER=GP.TSMGEOPA_IS_NUMBER(+)
AND P.TSMGEOPA_ORG_ID=GP.TSMGEOPA_ORG_ID(+)
AND P.TSMGEOPA0IS_NUMBER=GS.TSMGEOPA_IS_NUMBER(+)
AND P.TSMGEOPA0ORG_ID=GS.TSMGEOPA_ORG_ID(+)
AND P.TSMRRR_IS_NUMBER=R.TSMRRR_IS_NUMBER(+)
AND P.TSMRRR_ORG_ID=R.TSMRRR_ORG_ID(+)
AND P.TSMNAL_CD=N.TSMNAL_CD(+)
AND P.TSMNAL_STATE=N.TSMNAL_STATE(+)
AND P.TSMNAL_ORG_ID=N.TSMNAL_ORG_ID(+)
AND P.TSMFHU_IS_NUMBER = H.TSMFHU_IS_NUMBER(+)
AND P.TSMFHU_ORG_ID = H.TSMFHU_ORG_ID(+)
AND P.GEOPSTNG_METHOD_CD=GM.ID_CODE(+)
AND GM.CATEGORY(+)='HORIZONTAL'
AND GM.SUBCATEGORY(+)='METHOD'
AND P.GEOPSTNG_DATUM_CD=GD.ID_CODE(+)
AND GD.CATEGORY(+)='HORIZONTAL'
AND GD.SUBCATEGORY(+)='DATUM'
AND P.ELVTN_METHOD_CD=EM.ID_CODE(+)
AND EM.CATEGORY(+)='VERTICAL'
AND EM.SUBCATEGORY(+)='METHOD'
AND P.ELEVATION_DATUM_CD=ED.ID_CODE(+)
AND ED.CATEGORY(+)='VERTICAL'
AND ED.SUBCATEGORY(+)='DATUM'
AND P.TSMSTATN0IS_NUMBER IS NOT NULL
AND P.TSMSTATN0ORG_ID IS NOT NULL
AND P.TYPE_CODE IN('*POINT OF RECORD', 'SAMPLING','BOUNDARY')

ORDER BY
P.TYPE_CODE,
P.SEQUENCE_NUMBER
```

StationDetailEstuarysub.sql

```
SELECT
L.TSMALP_IS_NUMBER,
L.TSMALP_ORG_ID,
P.NAME PRMESTRY,
S.NAME SCDESTRY,
L.OTHER_ESTUARY_NAME,
L.ADDTNL_LOC_NAME ESTLCLOC,
DECODE(L.SHORE_DISTANCE,0,NULL, TO_CHAR(L.SHORE_DISTANCE,
'999,990.99') || ' ' ||  L.SHORE_DIST_UNIT_CD) ESTLCSHOREDIST,
L.REFERENCE_PT ESTLCREFPT
```

```
FROM
TSMESTLC L,
TSMESTRY S,
TSMESTRY P

WHERE
L.TSMESTRY_IS_NUMBER = S.TSMESTRY_IS_NUMBER
AND L.TSMESTRY_ORG_ID = S.TSMESTRY_ORG_ID
AND S.TSMESTRY0IS_NUMBER = P.TSMESTRY_IS_NUMBER(+)
AND S.TSMESTRY0ORG_ID = P.TSMESTRY_ORG_ID(+)
```

StationDetailOceansub.sql

```
SELECT
O.TSMALP_IS_NUMBER,
O.TSMALP_ORG_ID,
O.NAME OCNNAME,
O.ADDTNL_LOC_NAME OCNLOC,
O.SHORE_RELATION OCNSHORERELATION,
DECODE(O.SHORE_DISTANCE, 0,NULL,RTRIM(O.SHORE_DISTANCE) || ' ' ||
O.SHORE_DIST_UNIT_CD) OCNSHOREDIST,
O.REFERENCE_PT OCNREFPT,
O.LORAN_C_READING_1,
O.LORAN_C_READING_2,
O.BOTTOM_TOPOGRAPHY

FROM
TSMOCNLC O
```

StationDetailLakesub.sql

```
SELECT
L.TSMALP_IS_NUMBER,
L.TSMALP_ORG_ID,
L.NAME LAKENAME,
L.ADDTNL_LOC_NAME LAKELOC,
DECODE(L.SHORE_DISTANCE,0,NULL,RTRIM(L.SHORE_DISTANCE) || ' ' ||
L.SHORE_DIST_UNIT_CD) LAKESHOREDISTANCE,
L.REFERENCE_PT LAKEREFPT

FROM
TSMGLL L
```

StationDetailSICsub.sql

```
SELECT
F.TSMSTATN_IS_NUMBER,
F.TSMSTATN_ORG_ID,
SIC.TSMSIC_CODE ,
SIC.NAME SICNAME

FROM
TSMFCLTY F,
TSMFSA A,
TSMSIC SIC
```

```
WHERE
F.TSMSTATN_IS_NUMBER = A.TSMSTATN_IS_NUMBER
AND F.TSMSTATN_ORG_ID=A.TSMSTATN_ORG_ID
AND A.TSMSIC_CODE = SIC.TSMSIC_CODE(+)
AND A.TSMSIC_ORG_ID = SIC.TSMSIC_ORG_ID(+)

ORDER BY
SIC.TSMSIC_CODE
```

StationDetailNAICSsub.sql

```
SELECT
F.TSMSTATN_IS_NUMBER,
F.TSMSTATN_ORG_ID,
NAICS.TSMNAICS_CODE,
NAICS.TITLE NAICSTITLE

FROM
TSMFCLTY F,
TSMFNA A,
TSMNAICS NAICS

WHERE
F.TSMSTATN_IS_NUMBER = A.TSMSTATN_IS_NUMBER
AND F.TSMSTATN_ORG_ID = A.TSMSTATN_ORG_ID
AND A.TSMNAICS_IS_NUMBER = NAICS.TSMNAICS_IS_NUMBER(+)
AND A.TSMNAICS_ORG_ID = NAICS.TSMNAICS_ORG_ID(+)

ORDER BY
NAICS.TSMNAICS_CODE
```

StationDetailPipesub.sql

```
SELECT
FC.TSMSTATN_IS_NUMBER,
FC.TSMSTATN_ORG_ID,
PIP.ID_NUMBER PIPEID,
P.TYPE_CODE PIPE_TYPE,
P.POINT_NAME PIPE_POINTNAME,

DECODE(P.TYPE_CODE, NULL, NULL,
' ' || TO_CHAR(P.LAT_DEGREE_MSR,'00') || '  ' || TO_CHAR(P.LAT_MINUTE_MSR,
'00') || '  ' || TO_CHAR(P.LAT_SECOND_MSR, '00.9999') ||
DECODE(P.LONG_DIRECTION, 'E', '  ','   ') || P.LAT_DIRECTION ||'   (  '||
TO_CHAR(P.GPS_LAT_DEGREE_MSR,'00') || '  '
||TO_CHAR(P.GPS_LAT_MINUTE_MSR, '00.9999') || ';     ' ||
TO_CHAR(LAT_DEC_DEG_MSR,'00.9999999') ||')') PIPE_LAT,

DECODE(P.TYPE_CODE, NULL, NULL, TO_CHAR(P.LONG_DEGREE_MSR, '000')
|| '  ' || TO_CHAR(P.LONG_MINUTE_MSR, '00') || '  ' ||
TO_CHAR(P.LONG_SECOND_MSR, '00.9999') || '  ' || P.LONG_DIRECTION ||'   ('||
TO_CHAR(P.GPS_LONG_DEG_MSR, '000') || '  ' ||
TO_CHAR(P.GPS_LONG_MIN_MSR, '00.9999') || ';   ' ||
TO_CHAR(LONG_DEC_DEG_MSR,'000.9999999') ||')')  PIPE_LNG,
```

```
PIP.USE_NAME PIPE_USE,
PIP.STATUS_NAME PIPE_STATUS,
PIP.FLOW_TYPE_NAME PIPE_FLOW_TYPE,
PIP.DSCHRG_FREQ_TYP_CD,
PIP.TREATMENT_NAME PIPE_TREATMENT,
DECODE(PIP.SBSRFC_DSCH_IND_CD,'Y','Yes','N','No',NULL)
SBSRFC_DSCH_IND_CD,
PIP.RECEIVING_WTR_TXT,
PIP.DESCRIPTION_TEXT PIPE_DESCRIPTION,

RTRIM(GM.DESCRIPTION) PIPE_GM,
RTRIM(GD.DESCRIPTION) PIPE_GD,

P.GEOPSTNG_SCALE_TXT PIPE_GEO__SCALE,
DECODE(TO_CHAR(P.LAT_LONG_MSR_DT,
'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(P.LAT_LONG_MSR_DT,
'MM/DD/YYYY')) PIPE_GEO_DATE

FROM
TSMFCLTY FC,
TSMPIPE PIP,
TSMALP P,
TSMMAD GM,
TSMMAD GD

WHERE
FC.TSMSTATN_IS_NUMBER = PIP.TSMSTATN_IS_NUMBER
AND FC.TSMSTATN_ORG_ID = PIP.TSMSTATN_ORG_ID
AND PIP.TSMPIPE_IS_NUMBER = P.TSMPIPE_IS_NUMBER(+)
AND PIP.TSMPIPE_ORG_ID = P.TSMPIPE_ORG_ID(+)
AND P.GEOPSTNG_METHOD_CD=GM.ID_CODE(+)
AND GM.CATEGORY(+)='HORIZONTAL'
AND GM.SUBCATEGORY(+)='METHOD'
AND P.GEOPSTNG_DATUM_CD=GD.ID_CODE(+)
AND GD.CATEGORY(+)='HORIZONTAL'
AND GD.SUBCATEGORY(+)='DATUM'

ORDER BY
PIP.ID_NUMBER
```

StationDetailSpringsub.sql

```
SELECT
SPRNG.TSMSTATN_IS_NUMBER,
SPRNG.TSMSTATN_ORG_ID,
SPRNG.IMPROVEMENT_CODE,
SPRNG.PERMANENCE_CODE,
SPRNG.OTHR_GEO_UNIT_NM,
DECODE(SPRNG.TSMGEOUN_CD,NULL,NULL,RTRIM(SPRNG.TSMGEOUN_CD
) || ' / ' ||RTRIM(GEOUN.NAME)) GEOUN, DECODE(SPRNG.TSMLTHUN_CD,
NULL,NULL, RTRIM(SPRNG.TSMLTHUN_CD) || ' / ' || RTRIM(LTHUN.NAME))
LTHUN

FROM
TSMSPRNG SPRNG,
```

```
TSMGEOUN GEOUN,
TSMLTHUN LTHUN

WHERE
SPRNG.TSMGEOUN_CD = GEOUN.TSMGEOUN_CD(+)
AND SPRNG.TSMGEOUN_ORG_ID = GEOUN.TSMGEOUN_ORG_ID(+)
AND SPRNG.TSMLTHUN_CD = LTHUN.TSMLTHUN_CD(+)
AND SPRNG.TSMLTHUN_ORG_ID = LTHUN.TSMLTHUN_ORG_ID(+)
```

StationDetailGRIDsub.sql

```
SELECT
G.TSMSTATN_IS_NUMBER,
G.TSMSTATN_ORG_ID,
DECODE(G.X_AXIS_LENGTH_MSR, NULL,NULL,
TO_CHAR(G.X_AXIS_LENGTH_MSR) || ' ' || G.X_AXIS_UNIT_CODE)  GRD_X,
DECODE(G.Y_AXIS_LENGTH_MSR,NULL,NULL,
TO_CHAR(G.Y_AXIS_LENGTH_MSR) || ' ' ||  G.Y_AXIS_UNIT_CODE) GRD_Y,
DECODE(G.CELL_AREA_MSR,NULL,NULL, TO_CHAR(G.CELL_AREA_MSR) || ' '
|| G.CELL_AREA_UNIT_CD) GRD_CELL_SIZE,
G.LABEL_SCHEME_TEXT GRD_SCHEME,
G.DESCRIPTION_TEXT GRD_DESCRIPTION,
P.TYPE_CODE GRD_TYPE,
P.POINT_NAME GRD_POINTNAME,

DECODE(P.TYPE_CODE, NULL, NULL,
' ' || TO_CHAR(P.LAT_DEGREE_MSR,'00') || '  ' || TO_CHAR(P.LAT_MINUTE_MSR,
'00') || '  ' || TO_CHAR(P.LAT_SECOND_MSR, '00.9999') ||
DECODE(P.LONG_DIRECTION, 'E', '  ','   ') || P.LAT_DIRECTION ||'   (  '||
TO_CHAR(P.GPS_LAT_DEGREE_MSR,'00') || '  '
||TO_CHAR(P.GPS_LAT_MINUTE_MSR, '00.9999') || ';     ' ||
TO_CHAR(LAT_DEC_DEG_MSR,'00.9999999') ||')') GRD_LAT,

DECODE(P.TYPE_CODE, NULL, NULL, TO_CHAR(P.LONG_DEGREE_MSR, '000')
|| '  ' || TO_CHAR(P.LONG_MINUTE_MSR, '00') || '  ' ||
TO_CHAR(P.LONG_SECOND_MSR, '00.9999') || '  ' || P.LONG_DIRECTION ||'   ('||
TO_CHAR(P.GPS_LONG_DEG_MSR, '000') || '  ' ||
TO_CHAR(P.GPS_LONG_MIN_MSR, '00.9999') || ';   ' ||
TO_CHAR(LONG_DEC_DEG_MSR,'000.9999999') ||')')  GRD_LNG,


RTRIM(GM.DESCRIPTION) GRD_GM,
RTRIM(GD.DESCRIPTION) GRD_GD,
P.GEOPSTNG_SCALE_TXT GRD_GEO_SCALE,
DECODE(TO_CHAR(P.LAT_LONG_MSR_DT,
'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(P.LAT_LONG_MSR_DT,
'MM/DD/YYYY')) GRD_GEO_DATE

FROM
TSMPMGRD G,
TSMALP P,
TSMMAD GM,
TSMMAD GD
```

```
WHERE
G.TSMSTATN_IS_NUMBER=P.TSMSTATN_IS_NUMBER(+)
AND G.TSMSTATN_ORG_ID=P.TSMSTATN_ORG_ID(+)
AND P.GEOPSTNG_METHOD_CD=GM.ID_CODE(+)
AND GM.CATEGORY(+)='HORIZONTAL'
AND GM.SUBCATEGORY(+)='METHOD'
AND P.GEOPSTNG_DATUM_CD=GD.ID_CODE(+)
AND GD.CATEGORY(+)='HORIZONTAL'
AND GD.SUBCATEGORY(+)='DATUM'
```

StationDetailTransectsub.sql

```
SELECT
T.TSMSTATN_IS_NUMBER,
T.TSMSTATN_ORG_ID,
DECODE(T.LENGTH_MSR,NULL,NULL,TO_CHAR(T.LENGTH_MSR) || ' ' ||
T.LENGTH_UNT_CD) TCT_LENGTH,
DECODE(T.INTERVAL_MSR,NULL,NULL,TO_CHAR(T.INTERVAL_MSR) || ' ' ||
T.INTERVAL_UNT_CD) TCT_INTVL, T.LABEL_SCHEME_TXT TCTLABEL,
T.DESCRIPTION_TEXT TCTDESCRIPTION,
P.TYPE_CODE TCT_TYPE,
P.SEQUENCE_NUMBER TCT_SEQ,
P.POINT_NAME TCT_POINTNAME,

DECODE(P.TYPE_CODE, NULL, NULL,
' ' || TO_CHAR(P.LAT_DEGREE_MSR,'00') || '  ' || TO_CHAR(P.LAT_MINUTE_MSR,
'00') || '  ' || TO_CHAR(P.LAT_SECOND_MSR, '00.9999') ||
DECODE(P.LONG_DIRECTION, 'E', '  ','   ') || P.LAT_DIRECTION ||'   (  '||
TO_CHAR(P.GPS_LAT_DEGREE_MSR,'00') || '  '
||TO_CHAR(P.GPS_LAT_MINUTE_MSR, '00.9999') || ';     ' ||
TO_CHAR(LAT_DEC_DEG_MSR,'00.9999999') ||')') TCT_LAT,

DECODE(P.TYPE_CODE, NULL, NULL, TO_CHAR(P.LONG_DEGREE_MSR, '000')
|| '  ' || TO_CHAR(P.LONG_MINUTE_MSR, '00') || '  ' ||
TO_CHAR(P.LONG_SECOND_MSR, '00.9999') || '  ' || P.LONG_DIRECTION ||'   ('||
TO_CHAR(P.GPS_LONG_DEG_MSR, '000') || '  ' ||
TO_CHAR(P.GPS_LONG_MIN_MSR, '00.9999') || ';   ' ||
TO_CHAR(LONG_DEC_DEG_MSR,'000.9999999') ||')')  TCT_LNG,

RTRIM(GM.DESCRIPTION) TCT_GM,
RTRIM(GD.DESCRIPTION) TCT_GD,
RTRIM(P.GEOPSTNG_SCALE_TXT) TCT_GEO_SCALE,

DECODE(TO_CHAR(P.LAT_LONG_MSR_DT, 'MM/DD/YYYY'),'01/01/0001',
NULL,TO_CHAR(P.LAT_LONG_MSR_DT, 'MM/DD/YYYY'))  TCT_GEO_DATE

FROM
TSMPMTCT T,
TSMALP P,
TSMMAD GM,
TSMMAD GD

WHERE
T.TSMSTATN_IS_NUMBER=P.TSMSTATN1IS_NUMBER(+)
AND T.TSMSTATN_ORG_ID=P.TSMSTATN1ORG_ID(+)
```

```
AND P.GEOPSTNG_METHOD_CD=GM.ID_CODE(+)
AND GM.CATEGORY(+)='HORIZONTAL'
AND GM.SUBCATEGORY(+)='METHOD'
AND P.GEOPSTNG_DATUM_CD=GD.ID_CODE(+)
AND GD.CATEGORY(+)='HORIZONTAL'
AND GD.SUBCATEGORY(+)='DATUM'

ORDER BY
P.SEQUENCE_NUMBER
```

StationDetailWellsub.sql

```
SELECT
W.TSMSTATN_IS_NUMBER,
W.TSMSTATN_ORG_ID,
W.TSMWELL_IS_NUMBER,
W.TSMWELL_ORG_ID,
W.ID_NUMBER WELLID,
P.TYPE_CODE WELL_TYPE,
P.POINT_NAME WELL_POINTNAME,
W.NAME WELLNAME,

DECODE(P.TYPE_CODE, NULL, NULL,
' ' || TO_CHAR(P.LAT_DEGREE_MSR,'00') || '  ' || TO_CHAR(P.LAT_MINUTE_MSR,
'00') || '  ' || TO_CHAR(P.LAT_SECOND_MSR, '00.9999') ||
DECODE(P.LONG_DIRECTION, 'E', '  ','   ') || P.LAT_DIRECTION ||'   (  '||
TO_CHAR(P.GPS_LAT_DEGREE_MSR,'00') || '  '
||TO_CHAR(P.GPS_LAT_MINUTE_MSR, '00.9999') || ';     ' ||
TO_CHAR(LAT_DEC_DEG_MSR,'00.9999999') ||')') WELL_LAT,

DECODE(P.TYPE_CODE, NULL, NULL, TO_CHAR(P.LONG_DEGREE_MSR, '000')
|| '  ' || TO_CHAR(P.LONG_MINUTE_MSR, '00') || '  ' ||
TO_CHAR(P.LONG_SECOND_MSR, '00.9999') || '  ' || P.LONG_DIRECTION ||'   ('||
TO_CHAR(P.GPS_LONG_DEG_MSR, '000') || '  ' ||
TO_CHAR(P.GPS_LONG_MIN_MSR, '00.9999') || ';   ' ||
TO_CHAR(LONG_DEC_DEG_MSR,'000.9999999') ||')')  WELL_LNG,


W.STATUS_CODE,
DECODE(W.NATURL_FLOW_IND_CD,'Y','Yes','N','No',NULL) NETURL_FLOW,
DECODE(W.DISINFECTED_IND_CD,'Y','Yes','N','No',NULL) DISINFECTED,
W.GRADIENT_TYPE_CODE,

DECODE(TO_CHAR(W.CONSTRUCTN_STRT_DT,
'MM/DD/YYYY'),'01/01/0001',NULL,
TO_CHAR(W.CONSTRUCTN_STRT_DT,'MM/DD/YYYY'))
WELL_CNST_STRT_DT,

DECODE(TO_CHAR(W.CONSTRUCTN_END_DT,'MM/DD/YYYY'),
'01/01/0001',NULL,
TO_CHAR(W.CONSTRUCTN_END_DT,'MM/DD/YYYY'))WELL_CNST_END_DT,

DECODE(W.INIT_PUMP_DUR, NULL,NULL,0,NULL,
TO_CHAR(W.INIT_PUMP_DUR) || ' ' || W.INT_PMP_DUR_UNT_CD)
INI_PMP_DUR,
```

```
DECODE(W.INIT_PUMP_RATE,NULL,NULL,0,NULL,TO_CHAR(W.INIT_PUMP_
RATE) || ' ' || W.INT_PMP_RAT_UNT_CD) INI_PMP_RAT,
DECODE(W.INIT_BOREHOLE_DIAM,NULL,NULL,0,NULL,TO_CHAR(W.INIT_B
OREHOLE_DIAM)||' '|| W.INIT_BHOLE_DIAM_UN) INI_BHOLE,
DECODE(W.CASING_HGT_MSR,NULL,NULL,0,NULL,TO_CHAR(W.CASING_HG
T_MSR)||' ' || W.CASING_HGT_UNIT_CD) CASING_HGT,
DECODE(W.DEPTH_CMPLTN_MSR,NULL,NULL,0,NULL,TO_CHAR(W.DEPTH_
CMPLTN_MSR) || ' ' ||  W.DPTH_CMPLTN_UNT_CD) DEPTH_CMPLTN,
DECODE(W.DEPTH_OF_HOLE_MSR, NULL, NULL,
0,NULL,TO_CHAR(W.DEPTH_OF_HOLE_MSR) || ' ' ||W.DEPTH_HOLE_UNT_CD)
DEPTH_HOLE,
DECODE(W.DEPTH_OF_UNCON_MTL, NULL, NULL,
0,NULL,TO_CHAR(W.DEPTH_OF_UNCON_MTL) || ' ' ||W.DEPTH_UNCONS_UNIT)
DEPTH_UNCONS,
DECODE(W.DEPTH_TO_BEDROCK, NULL, NULL,
0,NULL,TO_CHAR(W.DEPTH_TO_BEDROCK) || ' ' ||W.DEPTH_BEDROCK_UNIT)
DEPTH_BEDROCK,
W.CONSTRUCTN_MTHD_CD,
W.DEVELOPMNT_MTHD_CD,
W.USE_CODE,
W.WTR_PRIMRY_USE_CD,

RTRIM(GM.DESCRIPTION) WELL_GM,
RTRIM(GD.DESCRIPTION) WELL_GD,

P.GEOPSTNG_SCALE_TXT WELL_GEO_SCALE,
DECODE(TO_CHAR(P.LAT_LONG_MSR_DT,
'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(P.LAT_LONG_MSR_DT,
'MM/DD/YYYY')) WELL_GEO_DATE,
DECODE(P.ELEVATION_MSR,0,NULL,TO_CHAR(P.ELEVATION_MSR)||'
'||P.ELVTN_UNT_CD) WELL_ELEVATION,

RTRIM(EM.DESCRIPTION) WELL_EM,
RTRIM(ED.DESCRIPTION) WELL_ED,

DECODE(TO_CHAR(P.ELVTN_MSR_DT,'MM/DD/YYYY'),'01/01/0001',NULL,TO_
CHAR(P.ELVTN_MSR_DT,'MM/DD/YYYY')) WELL_ELE_DATE

FROM
TSMWELL W,
TSMALP P,
TSMMAD GM,
TSMMAD GD,
TSMMAD EM,
TSMMAD ED

WHERE
W.TSMWELL_IS_NUMBER = P.TSMWELL_IS_NUMBER(+)
AND W.TSMWELL_ORG_ID = P.TSMWELL_ORG_ID(+)
AND P.GEOPSTNG_METHOD_CD=GM.ID_CODE(+)
AND GM.CATEGORY(+)='HORIZONTAL'
AND GM.SUBCATEGORY(+)='METHOD'
AND P.GEOPSTNG_DATUM_CD=GD.ID_CODE(+)
AND GD.CATEGORY(+)='HORIZONTAL'
```

```
AND GD.SUBCATEGORY(+)='DATUM'
AND P.ELVTN_METHOD_CD=EM.ID_CODE(+)
AND EM.CATEGORY(+)='VERTICAL'
AND EM.SUBCATEGORY(+)='METHOD'
AND P.ELEVATION_DATUM_CD=ED.ID_CODE(+)
AND ED.CATEGORY(+)='VERTICAL'
AND ED.SUBCATEGORY(+)='DATUM'

ORDER BY
W.ID_NUMBER
```

StationDetailIntervalsub.sql

```
SELECT
INT.TSMWELL_IS_NUMBER,
INT.TSMWELL_ORG_ID,
INT.TYPE_CODE INTERVAL_TYPE,
(TO_CHAR(INT.START_DEPTH_MSR)||' / '|| TO_CHAR(INT.STOP_DEPTH_MSR) ||
' ' || INT.DEPTH_UNIT_CODE) INTERVAL_DEPTH,
C.TYPE_CODE CASING_Type,
DECODE(C.INSD_DIAMTR_MSR,NULL,NULL,0,NULL,TO_CHAR(C.INSD_DIAM
TR_MSR) || ' '  || C.INSD_DIAMTR_UNT_CD) INSIDE_DIAMETER,
DECODE(C.OUTSIDE_DIAMTR_MSR,NULL,NULL,0,NULL,TO_CHAR(C.OUTSID
E_DIAMTR_MSR) || ' ' || C.INSD_DIAMTR_UNT_CD) OUTSIDE_DIAMETER,
DECODE(C.THICKNESS_MSR, NULL, NULL,
0,NULL,TO_CHAR(C.THICKNESS_MSR) || ' ' || C.THICKNESS_UNT_CD)
THICKNESS,
F.MATERIAL_TYPE_CD FILL_TYPE,
DECODE(F.VOLUME_MSR,NULL,NULL,0,NULL,TO_CHAR(F.VOLUME_MSR) || '
' ||F.VOLUME_UNIT_CODE) FILL_VOLUME,
DECODE(F.THICKNESS_MSR, NULL,NULL,
0,NULL,TO_CHAR(F.THICKNESS_MSR) || ' ' || F.THICKNESS_UNT_CD)
FILL_THICKNESS,
G.TSMGEOUN_CD,
G.NAME GNAME,
IG.OTH_GEO_UNIT_NM,
DECODE(IG.PRIM_AQUFR_IND_CD,NULL,NULL,'Y','Yes','N','No',IG.PRIM_AQUF
R_IND_CD) PRIM_AQUFR_IND,
DECODE(IG.WATER_BEARING_IND,NULL,NULL,'Y',
'Yes','N','No',IG.WATER_BEARING_IND) WATER_BEARING,
DECODE(H.DIAMETER_MEASURE, NULL,NULL,
0,NULL,TO_CHAR(H.DIAMETER_MEASURE) || ' ' || H.UNIT_CODE)
HOLE_DIAMETER,
L.TSMLTHUN_CD, L.NAME LNAME,
OP.TYPE_CODE OPENING_TYPE,
OP.MATERIAL_TYPE_CD OPENING_MATERIAL,
DECODE(OP.LENGTH_MSR, NULL,NULL,
0,NULL,TO_CHAR(OP.LENGTH_MSR) || ' ' || OP.LENGTH_UNIT_CODE)
OPENING_LENGTH,
DECODE(OP.WIDTH_MSR, NULL, NULL, 0,NULL,TO_CHAR(OP.WIDTH_MSR) || '
' || OP.WIDTH_UNIT_CODE) OPENING_WIDTH,
DECODE(OP.MESH_SIZE_MSR,NULL,NULL,
0,NULL,TO_CHAR(OP.MESH_SIZE_MSR) || ' ' || OP.MESH_SIZE_UNT_CD)
OPENING_MESH_SIZE,
OP.DESCRIPTION_TEXT OPENING_DESCRIPTION
```

```
FROM
TSMINTVL INT,
TSMIGUA IG,
TSMGEOUN G,
TSMCSNG C,
TSMFILL F,
TSMHOLE H,
TSMLTHUN L,
TSMOPNG OP

WHERE
INT.TSMINTVL_IS_NUMBER = IG.TSMINTVL_IS_NUMBER(+)
AND INT.TSMINTVL_ORG_ID = IG.TSMINTVL_ORG_ID(+)
AND IG.TSMGEOUN_CD = G.TSMGEOUN_CD(+)
AND IG.TSMGEOUN_ORG_ID = G.TSMGEOUN_ORG_ID(+)
AND INT.TSMINTVL_IS_NUMBER=C.TSMINTVL_IS_NUMBER(+)
AND INT.TSMINTVL_ORG_ID = C.TSMINTVL_ORG_ID(+)
AND INT.TSMINTVL_IS_NUMBER=F.TSMINTVL_IS_NUMBER(+)
AND INT.TSMINTVL_ORG_ID = F.TSMINTVL_ORG_ID(+)
AND INT.TSMINTVL_IS_NUMBER = H.TSMINTVL_IS_NUMBER(+)
AND INT.TSMINTVL_ORG_ID= H.TSMINTVL_ORG_ID(+)
AND INT.TSMLTHUN_CD= L.TSMLTHUN_CD(+)
AND INT.TSMLTHUN_ORG_ID=L.TSMLTHUN_ORG_ID(+)
AND INT.TSMINTVL_IS_NUMBER = OP.TSMINTVL_IS_NUMBER(+)
AND INT.TSMINTVL_ORG_ID= OP.TSMINTVL_ORG_ID(+)

ORDER BY
INT.TYPE_CODE
```

StationDetailPumpsub.sql

```
SELECT
P.TSMWELL_IS_NUMBER,
P.TSMWELL_ORG_ID,
P.TYPE_CODE PMP_TYPE,
DECODE(TO_CHAR(P.INSTALLATION_DATE,
'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(P.INSTALLATION_DATE,
'MM/DD/YYYY')) PMP_INSTL_DT,
DECODE(TO_CHAR(P.REMOVAL_DATE,'MM/DD/YYYY'),'01/01/0001',NULL,TO_
CHAR(P.REMOVAL_DATE,'MM/DD/YYYY'))  PMP_RMVL_DT,
P.MANUFACTURER_NAME PMP_MANUFACTURER,
P.MANUFACTR_MODEL_NM PMP_MODEL,
P.SERIAL_NUMBER PMP_SRL,
DECODE(P.RATED_RPM_MSR, 0, NULL, P.RATED_RPM_MSR) PMP_RPM,
DECODE(P.RATED_CAPACITY_MSR, 0,NULL,
TO_CHAR(P.RATED_CAPACITY_MSR) || ' ' || P.RATED_CPCTY_UNT_CD)
PMP_CPCTY,
DECODE(P.RATED_POWER_MSR, 0, NULL, TO_CHAR(P.RATED_POWER_MSR)
|| ' ' || P.RATED_POWER_UNT_CD) PMP_PWR,

DECODE(P.INTAKE_DEPTH_MSR, 0,NULL,TO_CHAR(P.INTAKE_DEPTH_MSR)
|| ' ' || P.INTAK_DEPTH_UNT_CD) PMP_INTK_DPTH,
P.INTAK_DEPTH_REF_PT,
```

```
DECODE(P.LOCATION_MEASURE,
0,NULL,TO_CHAR(P.LOCATION_MEASURE) || ' ' || P.LOCATION_UNIT_CODE) PMP_LC_MSR,
P.LOCATN_REF_PT_TXT

FROM
TSMPUMP P

ORDER BY
P.TYPE_CODE
```

StationDetailLogsub.sql

```
SELECT
L.TSMWELL_IS_NUMBER,
L.TSMWELL_ORG_ID,
L.ID_NUMBER LOG_NUMBER,
L.TYPE_CODE LOG_TYPE,
L.REPORT_FORMAT_CODE LOG_FORMAT,
DECODE(TO_CHAR(L.CONDUCTED_DATE, 'MM/DD/YYYY'),'01/01/0001',
NULL,TO_CHAR(L.CONDUCTED_DATE, 'MM/DD/YYYY')) LOG_DATE,
L.LOCATION_DESCR_TXT LOG_DESCRIPTION

FROM
TSMLOG L

ORDER BY
L.ID_NUMBER
```

StationDetailWellLegalEntitysub.sql

```
SELECT
L.TSMWELL_IS_NUMBER,
L.TSMWELL_ORG_ID,
L.TSMWLE_TYPE_NAME WLE_TYPE,
L.NAME WLE_NAME,
DECODE(A.TYPE_CODE, NULL,NULL,RTRIM(A.TYPE_CODE) || ': '
|| DECODE(A.LINE_ONE_TEXT,' ','', RTRIM(A.LINE_ONE_TEXT) || '; ')
|| DECODE(A.LINE_TWO_TEXT,' ', '', RTRIM(A.LINE_TWO_TEXT) || '; ')
|| DECODE(A.LINE_THREE_TEXT, ' ', '',  RTRIM(A.LINE_THREE_TEXT) || '; ')
|| DECODE(A.LINE_FOUR_TEXT, ' ','', RTRIM(A.LINE_FOUR_TEXT) || '; ')
|| DECODE(A.STATE_POSTAL_CODE,'  ','', ' '|| A.STATE_POSTAL_CODE)
|| DECODE(A.COUNTRY_CODE, '  ','', A.COUNTRY_CODE)
|| DECODE(TO_CHAR(A.START_DATE, 'MM/DD/YYYY'),'01/01/0001', '',
DECODE(A.COUNTRY_CODE, '  ', TO_CHAR(A.START_DATE, 'MM/DD/YYYY'),
'; '|| TO_CHAR(A.START_DATE, 'MM/DD/YYYY'))))
ADDRESS

FROM
TSMWLE L,
TSMADDR A

WHERE
L.TSMWELL_IS_NUMBER=A.TSMWELL_IS_NUMBER(+)
AND L.TSMWELL_ORG_ID= A.TSMWELL_ORG_ID(+)
AND L.TSMWLE_TYPE_NAME=A.TSMWLE_TYPE_NAME(+)
```

```
ORDER BY
L.TSMWLE_TYPE_NAME,
L.NAME,
A.TYPE_CODE
```

Select Options: Organizations, Projects, Stations

Sort Sequence: By ascending Organization ID, by ascending Station ID, by ascending Location Type, by ascending Location Type Sequence Number with Well Heads and End of Pipes appearing as the last location type.

- C Assigned Projects - by ascending Project ID.
- C Physical and Electronic Addresses - by ascending Address Type.
- C External Reference Schemes - by ascending Acronym.
- C Wells - by ascending Well Number.
  - S Interval Type - by ascending Interval Type.
  - S Pumps - by ascending Pump Type.
  - S Logs - by ascending Log Number.
  - S Well Legal Entity Type - by ascending Entity Type, by ascending Address Type.
- C Facilities:
  - S SIC Code - by ascending SIC Code.
  - S Pipes - by ascending Pipe Number.
  - S NAICS Code - by ascending NAICS Code.
- C Permanent Transect Location Type - by ascending Sequence Number.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
ST4 Station Data Entry **ST5 Additional Station Information**		TSMSTATN
Station	ID	IDENTIFICATION_CD
	Name	NAME
Establishment Date	Establishment Date	ESTABLISHMENT_DATE
Water Depth	Water Depth	WATER_DEPTH
		WATER_DEPTH_UNIT
Description	Description	DESCRIPTION_TEXT
EPA Key Identifier	EPA Key Identifer	EPA_KEY_IDENTIFIER
Ecoregion Name	Ecoregion Name	ECOREGION_NAME
Travel Directions	Travel Directions	TRAVEL_DIR_TXT
Influence Area	Influence Area	INFLUENCE_AREA
ZID Relation	ZID Relation	ZID_RELATION_CODE

Report Heading	Prompt Name	Oracle Name
Status	N/A	D_DELETE_FLAG
Document/Graphic	Document/Graphic	BLOB_TITLE
RT31 Valid Station Type Data Entry		TSMVSTC
Station Type	Primary Type Code	PRIMARY_TYPE_CD
	Secondary Type Code	SECONDARY_TYPE_CD
ST11 Station Address Data Entry **WL9 Well Legal Entity Address Data Entry**		TSMADDR
Physical Addresses (Located at, Mailing, Shipping) Address (for Well Legal Entity)	Type	TYPE_CODE
	Line 1	LINE_ONE_TEXT
	Line 2	LINE_TWO_TEXT
	Line 3	LINE_THREE_TEXT
	Line 4	LINE_FOUR_TEXT
	Country	COUNTRY_CODE
	Effective Date	START_DATE
ST13 Station Electronic Address Data Entry		TSMEADDR
Electronic Addresses (Commercial Network, Fax, Internet, Other, Phone)	Type	TYPE_CODE
	Number	ADDRESS_TEXT
	Comments	COMMENT_TEXT
P44 External Station ID Scheme Data Entry		TSMERS
Acronym	Acronym	ACRONYM
External Reference Scheme Name	Name	NAME
P47 Label Data Entry		TSMRFLBL
Label	Label	LABEL_CODE
AL2 Absolute Location Data Entry **AL4 Absolute Location Elevation Data Entry** **WL4 Well Absolute Location Data Entry** **WL5 Well Absolute Location Elevation Data Entry** **PI3 Pipe Absolute Location Data Entry** **RF1 Assignment** (No Data Entry) **RF3 River Reach Code** (No longer available) **NR1 Natural Rsrcs Conservation Service Watershed Data Entry** **PG2 Permanent Grid Absolute Location Maintenance** **PT2 Absolute Location Point Data Entry**		TSMALP
Location Type	Type	TYPE_CODE
Seq #	Sequence No.	SEQUENCE_NUMBER
Point Name	Point Name	POINT_NAME
Latitude (;)	Latitude	LAT_DEGREE_MSR
		LAT_MINUTE_MSR
		LAT_SECOND_MSR
		LAT_DIRECTION
	Decimal Minutes	GPS_LAT_DEGREE_MSR
		GPS_LAT_MINUTE_MSR
	Decimal Degrees	LAT_DEC_DEG_MSR
Longitude (;)	Longitude	LONG_DEGREE_MSR
		LONG_MINUTE_MSR

Report Heading	Prompt Name	Oracle Name
		LONG_SECOND_MSR
		LONG_DIRECTION
	Decimal Minutes	GPS_LONG_DEG_MSR
		GPS_LONG_MIN_MSR
	Decimal Degrees	LONG_DEC_DEG_MSR
Geopositioning, Scale	Geopositioning, Scale	GEOPSTNG_SCALE_TXT
Geopositioning, Measurement Date	Geopositioning, Measurement Date	LAT_LONG_MSR_DT
Elevation Measure	Measure	ELEVATION_MSR
		ELVTN_UNT_CD
Measurement Date	Measurement Date	ELVTN_MSR_DT
Station Location	Station Location	RF1_MILEAGE
On River Reach	On River Reach Indicator	ON_RIVER_REACH_IND
RF3 River Reach	RF3 River Reach	RF3_RIVER_REACH_CD
NRCS Watershed ID	NRCS Watershed ID	NRCS_WTRSD_ID_NUM
		TSMMAD
Geopositioning, Method Geopositioning, Datum Method Datum	Geopositioning, Method Geopositioning, Datum Method Datum	DESCRIPTION
GP1 Geopolitical Area Data Entry		TSMGEOPA
Country	Country	COUNTRY_CODE
State/Province	State	STATE_POSTAL_CODE
	N/A	STATE_NAME
County	County	COUNTY_NAME
ES1 Estuary Location Assignment Data Entry		TSMESTRY
Primary	Primary Estuary	NAME
Secondary	Secondary Estuary	NAME
		TSMESTLC
Other	Other Estuary	OTHER_ESTUARY_NAME
Additional Location	Additional Location Name	ADDTNL_LOC_NAME
Distance to Shore	Shoreline Reference, Distance to Shore	SHORE_DISTANCE
		SHORE_DIST_UNIT_CD
Reference Point	Shoreline Reference, Reference Point	REFERENCE_PT
OC1 Ocean Location Data Entry		TSMOCNLC
Name	Ocean Name	NAME
Additional Location	Additional Location Name	ADDTNL_LOC_NAME
Relation	Shore Relation	SHORE_RELATION
Distance to Shore	Shoreline Reference, Distance to Shore	SHORE_DISTANCE
		SHORE_DIST_UNIT_CD
Reference Point	Shoreline Reference, Reference Point	REFERENCE_PT
Loran C Reading 1	Loran C, Reading 1	LORAN_C_READING_1
Loran C Reading 2	Loran C, Reading 2	LORAN_C_READING_2
Bottom Topography	Bottom Topography	BOTTOM_TOPOGRAPHY

Report Heading	Prompt Name	Oracle Name
GL1 Great Lake Location Data Entry		TSMGLL
Name	Great Lake	NAME
Additional Location	Additional Location Name	ADDTNL_LOC_NAME
Distance to Shore	Shoreline Reference, Distance to Shore	SHORE_DISTANCE
		SHORE_DIST_UNIT_CD
Reference Point	Shoreline Reference, Reference Point	REFERENCE_PT
RF1 Assignment (No Data Entry)		TSMRRR
RF1 River Reach	Name	NAME
Segment	Segment Code	SEGMENT_CODE
Type Code	Type Code	TYPE_CODE
Level Code	Level Code	LEVEL_CODE
Reach Length	Reach Length	MILE_LENGTH
HU1 FIPS HUC Assignment Data Entry		TSMFHU
Hydrologic Unit Code/Name/States	Code	HYDROLOGIC_UNIT_CD
	Name	NAME
	States	STATES_NAME
NA3 Native American Land Assignment Data Entry		TSMNAL
Native American Land Code/Name/State	Code	TSMNAL_CD
	Name	NAME
	State	TSMNAL_STATE
WL3 Well Data Entry		TSMWELL
Well Number	Well Number	ID_NUMBER
Well Name	Well Name	NAME
Status	Status	STATUS_CODE
Natural Flow	Natural Flow	NATURL_FLOW_IND_CD
Disinfected	Disinfected	DISINFECTED_IND_CD
Gradient	Gradient	GRADIENT_TYPE_CODE
Construct Start Date	Construction Start Date	CONSTRUCTN_STRT_DT
Construct End Date	Construction End Date	CONSTRUCTN_END_DT
Init. Pumping Duration	Initial Pumping Duration	INIT_PUMP_DUR
		INT_PMP_DUR_UNT_CD
Init. Pumping Rate	Initial Pumping Rate	INIT_PUMP_RATE
		INT_PMP_RAT_UNT_CD
Init. Bore Diameter	Initial Bore Hole Diameter	INIT_BOREHOLE_DIAM
		INIT_BHOLE_DIAM_UN
Casing Height	Casing Height Measure	CASING_HGT_MSR
		CASING_HGT_UNIT_CD
Depth at Completion	Depth at Completion from Ground Surface	DEPTH_CMPLTN_MSR
		DPTH_CMPLTN_UNT_CD
Depth of Hole	Depth of Hole from Ground Surface	DEPTH_OF_HOLE_MSR
		DEPTH_HOLE_UNT_CD
Depth Unconsol. Mat.	Depth of Unconsolidated Material	DEPTH_OF_UNCON_MTL
		DEPTH_UNCONS_UNIT

Report Heading	Prompt Name	Oracle Name
Depth to Bedrock	Depth to Bedrock	DEPTH_TO_BEDROCK
		DEPTH_BEDROCK_UNIT
Well Use	Well Use	USE_CODE
Water Primary Use	Water Primary Use	WTR_PRIMRY_USE_CD
Construction Method	Construction Method	CONSTRUCTN_MTHD_CD
Development Method	Development Method	DEVELOPMNT_MTHD_CD
CA1 Casing Data Entry		TSMCSNG
Material Type	Material Type	TYPE_CODE
Inside Diameter	Inside Diameter	INSD_DIAMTR_MSR
		INSD_DIAMTR_UNT_CD
Outside Diameter	Outside Diameter	OUTSIDE_DIAMTR_MSR
Thickness	Thickness	THICKNESS_MSR
		THICKNESS_UNT_CD
FI1 Fill Data Entry		TSMFILL
Material Type	Material Type	MATERIAL_TYPE_CD
Volume	Volume	VOLUME_MSR
		VOLUME_UNIT_CODE
Avg. Thickness	Average Thickness	THICKNESS_MSR
		THICKNESS_UNT_CD
IG3 Interval Geologic Data Entry **SP1 Spring Data Entry**		TSMGEOUN
USGS Code, USGS Geologic Code/Name	USGS, Code	TSMGEOUN_CD
USGS Name	USGS, Name	NAME
		TSMIGUA
Other Name	Other Name	OTH_GEO_UNIT_NM
Water Bearing	Water Bearing	WATER_BEARING_IND
Primary Aquifer	Primary Aquifer	PRIM_AQUFR_IND_CD
HO1 Hole Data Entry		TSMHOLE
Diameter	Diameter	DIAMETER_MEASURE
		UNIT_CODE
IL3 Interval Lithologic Data Entry **SP1 Spring Data Entry**		TSMLTHUN
USGS Code, USGS Lithologic Code/Name	USGS Code	TSMLTHUN_CD
Name	Name	NAME
ST10 Opening Data Entry		TSMOPNG
Opening Type	Opening Type	TYPE_CODE
Material Type	Material Type	MATERIAL_TYPE_CD
Length	Length	LENGTH_MSR
		LENGTH_UNIT_CODE
Width	Width	WIDTH_MSR
		WIDTH_UNIT_CODE
Mesh Size	Mesh Size	MESH_SIZE_MSR

Report Heading	Prompt Name	Oracle Name
		MESH_SIZE_UNT_CD
Description	Description	DESCRIPTION_TEXT
IT2 Interval Data Entry		TSMINTVL
Interval Type	Interval Type	TYPE_CODE
Start/Stop Depth	Start/Stop Depth	START_DEPTH_MSR
		STOP_DEPTH_MSR
		DEPTH_UNIT_CODE
PU2 Pump Data Entry		TSMPUMP
Type	Type	TYPE_CODE
Installation Date	Installation Date	INSTALLATION_DATE
Removal Date	Removal Date	REMOVAL_DATE
Manufacturer	Manufacturer	MANUFACTURER_NAME
Model	Model	MANUFACTR_MODEL_NM
Serial Number	S/N	SERIAL_NUMBER
RPM	Rating, RPM	RATED_RPM_MSR
Capacity	Rating, Capacity	RATED_CAPACITY_MSR
		RATED_CPCTY_UNT_CD
Power	Rating, Power	RATED_POWER_MSR
		RATED_POWER_UNT_CD
Intake Depth	Intake Depth, Depth	INTAKE_DEPTH_MSR
		INTAK_DEPTH_UNT_CD
	Intake Depth, Reference	INTAK_DEPTH_REF_PT
Pump Depth	Pump Location, Depth	LOCATION_MEASURE
		LOCATION_UNIT_CODE
	Pump Location, Reference	LOCATN_REF_PT_TXT
LO2 Log Data Entry		TSMLOG
Log Number	Log Number	ID_NUMBER
Log Type	Type	TYPE_CODE
Format	Format	REPORT_FORMAT_CODE
Date	Date	CONDUCTED_DATE
Location	Location	LOCATION_DESCR_TXT
WL7 Well Legal Entity Data Entry		TSMWLE
Well Legal Entity Type	Type	TSMWLE_TYPE_NAME
Name	Name	NAME
RT33 Standard Inductrial Class Data Entry		TSMSIC
SIC Code	SIC Code	TSMSIC_CODE
Name	Name	NAME
FM3 Facility NAICS Assignment		TSMNAICS
NAICS Code	NAICS Code	TSMNAICS
Name	Title	TITLE
PI2 Pipe Data Entry		TSMPIPE
Number	Pipe Number	ID_NUMBER
Status	Status	STATUS_NAME

Report Heading	Prompt Name	Oracle Name
Treatment	Treatment	TREATMENT_NAME
Flow Type	Flow Type	FLOW_TYPE_NAME
Discharge Frequency	Discharge Frequency	DSCHRG_FREQ_TYP_CD
Pipe Use	Pipe Use	USE_NAME
Subsurface Discharge	Subsurface Discharge	SBSRFC_DSCH_IND_CD
Description	Description	DESCRIPTION_TEXT
Receiving Water	Receiving Water	RECEIVING_WTR_TXT
SP1 Spring Data Entry		TSMSPRNG
Improvement	Improvement	IMPROVEMENT_CODE
Permanence	Permanence	PERMANENCE_CODE
Other Geo Name	Other Name	OTHR_GEO_UNIT_NM
PG1 Permanent Grid Data Entry		TSMPMGRD
X-Axis Length	Grid Size, X-Axis Length	X_AXIS_LENGTH_MSR
		X_AXIS_UNIT_CODE
Y-Axis Length	Grid Size, Y-Axis Length	Y_AXIS_LENGTH_MSR
		Y_AXIS_UNIT_CODE
Cell Size	Cell Size	CELL_AREA_MSR
		CELL_AREA_UNIT_CD
Labeling Scheme	Labeling Scheme	LABEL_SCHEME_TEXT
Description	Grid Description	DESCRIPTION_TEXT
PT3 Permanent Transect Data Entry		TSMPMTCT
Overall Length	Overall Length	LENGTH_MSR
		LENGTH_UNT_CD
Point Interval	Distance Between Points	INTERVAL_MSR
		INTERVAL_UNT_CD
Labeling Scheme	Labeling Scheme	LABEL_SCHEME_TXT
Description	Transect Description	DESCRIPTION_TEXT
PJ11 Project Station Selection List		TSMPROJ
Assigned Projects	Project ID	IDENTIFICATION_CD
	Name	NAME

EXAMPLE

Station Details

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Station CBC-001 / Easton Public Drinking Supply **Status** Active

Document/Graphic Title of Station Picture

Assigned Projects

CBCP-001	Water Quality and Biological Health of the Chesapeake Bay
CBCP-002	Sediment Toxicity Study of the Wicomico River

Station Type Well /
Establishment Date 12/12/1991
Water Depth 16 ft
EPA Key Identifier MD-387639-PWS-908

Description This is the main drinking water supply for the city of Easton, Md.

Ecoregion Name None
Travel Directions Not necessary
Influence Area Mouth of the Chesapeake Bay, open ocean water.
ZID Relation Zone of Initial Dilution Code

Physical Addresses

Located at:
132 South Water Street
Annapolis, MD 30987
US
03-12-1990

Mailing:
P.O. Box 666
Annapolis, MD 30987
US
03-12-1990

Shipping:
P.O. Box 666
Annapolis, MD 30987
US
03-12-1990

Electronic Addresses

Commercial Network:
301-863-9823
Director' Fax

Fax:
301-863-9823
Director' Fax

Internet:
cbay.commission@chesapeakebay.gov
General E-Mail

Other:
301-678-9807
24 hour Emergency Number

Phone:
301-782-9087
General Office Locator

Acronym	External Reference Scheme Name	Label
USGS	U S Geological Survey Station Number	MD89232
VA-DEQ	Virginia Department of Environmental Quality Station Number	VA-001-A

Location Type *POINT OF RECORD **Seq. #**
Point Name Point of Record Point Name
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 76 05 00.0000 W (76 05.0000; -76.0833333)
Geopositioning
Method Address Matching-Nearest Intersection
Datum North American Datum 1993
Scale 1:24,000 **Measurement Date** 12/09/1991
Elevation Measure 12345.6789 ft **Measurement Date** 10/10/1991
Method Algorithm conversion from State Plane Coordinate System
Datum Local Tidal Datum

Primary County Assignment		Secondary County Assignment	
County:	Talbot	**County:**	St. Mary's
State/Province:	Maryland (MD)	**State/Province:**	Maryland (MD)
Country:	US	**Country:**	US

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Estuary
Primary Chesapeake Bay
Secondary Patapsico River
Distance to Shore 1.50 mi **Reference Point** Sparrows Point
Other Off the Mouth of Rock Creek
Additional Location Name None

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Ocean
Name Atlantic Ocean
Relation Near Shore
Distance to Shore 2.40 mi **Reference Point** Cape Charles Light
Additional Location Name None
Loran C Reading 1 Loran Reading # 1
Loran C Reading 2 Loran Reading # 2
Bottom Topgraphy Hard Sand

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Great Lake
Name Lake Huron
Distance to Shore 4.40 mi **Reference Point** Front Porch of Steve's House
Additional Location Name CLD, Canoeable Lake Distance

Hydrologic Unit Code/Name/States 02060005 / Choptank / ME
RF1 River Reach ST. JOHN R
Segment 002 **Reach Length** 1.0 mi
Type Code R **Station Location** 0.5 mi
Level Code 3 **On River Reach** Yes
RF3 River Reach 020ABC
Native American Land Code/Name/State 2850 / Pleasant Point / ME
NRCS Watershed ID IDCODEHERE

Well Number WWWWWWWWWWWWWWW **Well Name** Easton Secondary Water Supply WWWWWWWWWE **Status** Active

Well Use	Withdrawal of Water	**Natural Flow**	Yes
Water Primary Use	Primary Water Supply	**Disinfected**	Yes
Gradient	Downgradient	**Construction Method**	Cable Tool
Depth at Completion	1000.000 ft	**Construction Start Date**	12/12/1992
Depth of Hole	1200.000 ft	**Construction End Date**	12/24/1992
Depth to Bedrock	1800.000 ft	**Development Method**	Surge Block
Depth Unconsol. Mat.	200.000 ft	**Init. Pumping Duration**	45.0 Days
Init. Bore Diameter	5.00 in	**Init. Pumping Rate**	12 GAL/HR
Casing Height	4.000 ft		

Location Type Well Head
Point Name Well Head Point Name
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 76 05 00.0000 W (76 05.0000; -76.0833333)
Geopositioning
Method Address Matching-Nearest Intersection
Datum North American Datum 1983
Scale 1:24,000 **Measurement Date** 12/09/1991
Elevation Measure 12345.6789 ft **Measurement Date** 10/10/1991
Method Algorithm conversion from State Plane Coordinate System
Datum Local Tidal Datum

Intervals

Interval Type	Casing	**Start/Stop Depth**	0.000 / 67.000	ft
Material Type	Galvanized Iron	**Inside Diameter**	4.00	in
		Outside Diameter	4.50	in
		Thickness	.500	in

Interval Type	Fill	**Start/Stop Depth**	0.000 / 45.000	ft
Material Type	Gravel	**Volume**	3.000	Cubic Meters
		Avg. Thickness	2.000	in

Interval Type	Geologic Unit	**Start/Stop Depth**	50.000 / 900.000	ft
USGS CODE	MD:110CLVF	**USGS Name**	Colluvial Fan Deposits	
Water Bearing	Yes	**Primary Aquifer**	Yes	
Other Name	Steve's Crunchy Dirt Deposits			

Interval Type	Hole	**Start/Stop Depth**	0.000 / 45.000	ft
		Diameter	3.000	in

Interval Type	Lithologic Unit	**Start/Stop Depth**	0.000 / 45.000	ft
USGS Code	BNTN	**Name**	Bentonite	

Interval Type	Opening	**Start/Stop Depth**	50.000 / 900.000	ft
Opening Type	Fractured Rock	**Length**	99.000	ft
Material Type	Rock	**Width**	2.000	in
		Mesh Size	0.100	in
Description	The well shaft was fractured with the Well Maxer 2000.			

Pump

Type	Bladder	**Installation Date**	04/04/1995	
Manufacturer	Little Giant	**Removal Date**	04/04/2005	
Model	Big Sucker	**RPM**	4500	
Serial Number	093222-09	**Power**	15	Horsepower
		Capacity	125	Cubic Feet/Second

Intake Depth	75.000	ft / Surface
Pump Depth	12.000	ft / Surface

Log Number	**Log Type**	**Format**	**Date**
12345-XRFP-0001	Nuclear Magnetic Resonance	Published	02/02/1995
This location description text really does not tell me anything about the location of the log.			
12345-XRFP-0002	Nuclear Magnetic Resonance	Published	02/02/1996
12345-XRFP-0003	Nuclear Magnetic Resonance	Published	02/02/1997
WWWWWWWWWWWWWW	Nuclear Magnetic Resonance	Published	02/02/1995
This location description text tells me exactly where I can find this Well Log for further examination and subsequent processing.			

Well Legal Entity Type	**Name**	**Address**
Operator	City of Easton	Located at: Public Works; 34 N. 2nd Street; Suite 200; Salsbury, MD 10982; US; 02/02/1996 Mailing: PO Box 45; Salsbury, MD; 10982; US
Owner	City of Easton	Located at: Public Works; 34 N. 2nd Street; Suite 200; Salsbury, MD 10982; US; 02/02/1996 Mailing: PO Box 45; Salsbury, MD; 10982; US

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Facility

SIC Code	**Name**
3469	METAL STAMPINGS, NEC
3549	METALWORKING MACHINERY, NEC
5051	METALS SERVICE CENTERS AND OFFICES
NNNN	WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW

NAICS Code	**Name**
111110	Soybean Farming
111219	Other Vegetable (except Potato) and Melon Farming
NNNNNN	WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW

Pipe Number	WWWWWWWWWWWWWW	**Status**	Active
Treatment	Partially Treated	**Discharge Frequency**	Steady
Flow Type	Outfall/Effluent	**Subsurface Discharge**	Yes
Pipe Use	Industrial Discharge		
Receiving Water	Southwest Branch of the Bank River		
Description	This is a 5 in dia discharge pipe located 7 ft depth.		

Location Type	END OF PIPE							
Point Name	End of Pipe Point Name							
Latitude	38	47	30.0000	N	(38	47.5000;	38.7916667)	
Longitude	76	05	00.0000	W	(76	05.0000;	-76.0833333)	
Geopositioning								
Method	Address Matching-Nearest Intersection							
Datum	North American Datum 1983							
Scale	1:24,000							

Measurement Date 12/09/1991

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Spring

Improvement Collection Box **Permanence** Continuous
USGS Geologic Code/Name DE:110ALVM / Quaternary Alluvium
Other Geo Name Steve's slimy yet satisfying rock-like deposit.
USGS Lithologic Code/Name ALVM / Aluvium

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Permanent Grid

X-Axis Length 1000.0000 m **Cell Size** 100 sq m
Y-Axis Length 1000000000.0000 m
Labeling Scheme Text for Permanent Grid Labeling Scheme.
Description Description Text for Permanent Grid Labeling Scheme.

Location Type GRID ORIGIN
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 76 05 00.0000 W (76 05.0000; -76.0833333)
Geopositioning
Method Address Matching-Nearest Intersection
Datum North American Datum 1983
Scale 1:24,000 **Measurement Date** 12/09/1991

Permanent Transect

Overall Length 1000000000.0000 m **Point Interval** 200.0000 ft
Labeling Scheme Text for Permanent Transect
Description Description text for Permanent Transect

Location Type TRANSECT ORIGIN **Seq. #**
Point Name Transect Origin Point Name
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 76 05 00.0000 W (76 05.0000; -76.0833333)
Geopositioning
Method Address Matching-Nearest Intersection
Datum North American Datum 1983
Scale 1:24,000 **Measurement Date** 12/09/1991

Location Type TRANSECT SAMPLING **Seq. #** 1
Point Name Transect Sampling Point Name
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 76 05 01.0000 W (76 05.0001; -76.0833333)
Geopositioning
Method Address Matching-Nearest Intersection
Datum North American Datum 1983
Scale 1:24,000 **Measurement Date** 12/09/1991

Trip Summary

Report Description:

This report provides a summary of Trip information for the selected Organizations and Trip including Trip, Visit, Activity Date and Time periods, and basic Activity information.

The following fields will be hidden if no data is present.

- Comments (any).
- Medium.
- Sample Matrix.
- Intent.
- Community.
- Bio Part.
- Subject Taxon.
- Field Set information (Identified or Assigned).
- Trip Projects.
- Assigned Projects.
- Trip QC Samples.
- Assigned QC Samples.
- Visit Field Sets.
- Assigned Field Sets.
- / rep.
- (QC) (activity indicator).
- Chain of Custody.

Selected Projects will be interrogated against Projects assigned to Trips.

Select Logic:

TripSummary.sql

```
SELECT
RTrim(O.ORG_ID) ORG_ID,
RTrim(O.NAME) ORG,

T.TSRTRIP_IS_NUMBER,
T.TSRTRIP_ORG_ID,
DECODE(T.ID_CODE, NULL, NULL, RTRIM(T.ID_CODE) ||  '   ' || RTRIM(T.NAME))
TRP,

DECODE(TO_CHAR(T.START_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
DECODE(TO_CHAR(T.START_TIME,'HH24:MI:SS'), '00:00:00',
TO_CHAR(T.START_DATE, 'MM/DD/YYYY') || '  ' ||
RTRIM(T.START_TIME_ZONE), TO_CHAR(T.START_DATE, 'MM/DD/YYYY') || '  '
||  TO_CHAR(T.START_TIME,'HH24:MI:SS')|| '  ' || RTRIM(T.START_TIME_ZONE)))
TRPSTRT,

DECODE(TO_CHAR( T.END_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
DECODE(TO_CHAR(T.END_TIME, 'HH24:MI:SS'), '00:00:00', TO_CHAR(
T.END_DATE, 'MM/DD/YYYY')  || '  ' || T.END_TIME_ZONE, TO_CHAR(
```

```
T.END_DATE, 'MM/DD/YYYY')  || '  ' || TO_CHAR(T.END_TIME, 'HH24:MI:SS')|| '  ' ||
T.END_TIME_ZONE)) TRPEND,

J.IDENTIFICATION_CD PRJ_ID,
J.NAME PRJ_NAME

FROM
TSMORGAN O,
TSRTRIP T,
TSRTPA A,
TSMPROJ J

WHERE
O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER(+)
AND T.TSRTRIP_IS_NUMBER = A.TSRTRIP_IS_NUMBER(+)
AND T.TSRTRIP_ORG_ID = A.TSRTRIP_ORG_ID(+)
AND A.TSMPROJ_IS_NUMBER= J.TSMPROJ_IS_NUMBER (+)
AND A.TSMPROJ_ORG_ID=J.TSMPROJ_ORG_ID(+)
 &P_ORG &P_TRP  &P_PRJ

ORDER BY
O.ORG_ID,
T.ID_CODE,
J.IDENTIFICATION_CD
```

TripSummaryFDIDsub.sql

```
SELECT
TSA.TSRTRIP_IS_NUMBER,
TSA.TSRTRIP_ORG_ID,

DECODE(S.IDENTIFICATION_CD,NULL, NULL,
RTRIM(S.IDENTIFICATION_CD) || '   ' || RTRIM(S.NAME))  STATION,
V.ID_NUMBER VID,
V.COMMENT_TEXT VCOM,

DECODE(TO_CHAR(V.ARRIVAL_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
DECODE(TO_CHAR(V.ARRIVAL_TIME,'HH24:MI:SS'), '00:00:00',
TO_CHAR(V.ARRIVAL_DATE, 'MM/DD/YYYY') || '  ' ||
RTRIM(V.ARRIVAL_TIME_ZONE), TO_CHAR(V.ARRIVAL_DATE,
'MM/DD/YYYY') || '  ' ||  TO_CHAR(V.ARRIVAL_TIME,'HH24:MI:SS')|| '  ' ||
RTRIM(V.ARRIVAL_TIME_ZONE))) VSTRT,

DECODE(TO_CHAR( V.DEPARTURE_DATE, 'MM/DD/YYYY'), '01/01/0001',
NULL, DECODE(TO_CHAR(V.DEPARTURE_TIME, 'HH24:MI:SS'), '00:00:00',
TO_CHAR( V.DEPARTURE_DATE, 'MM/DD/YYYY') || '  ' ||
RTRIM(V.DEPRTURE_TIME_ZONE), TO_CHAR( V.DEPARTURE_DATE,
'MM/DD/YYYY')  || '  ' || TO_CHAR(V.DEPARTURE_TIME, 'HH24:MI:SS')|| '  ' ||
V.DEPRTURE_TIME_ZONE)) VDPRT,

V.TSRSTVST_IS_NUMBER,
V.TSRSTVST_ORG_ID,
DECODE(F.ID_CODE, NULL, NULL, RTRIM(F.ID_CODE) ||
DECODE(F.REPLICATE_NUMBER, 0, '', ' / repl '||
TO_CHAR(F.REPLICATE_NUMBER))) FDID,
```

```
F.TYPE_NAME FDTYPE,
F.CATEGORY_TYPE_NAME FDCAT,
F.INTENT_TYPE_NAME FDINT,
F.MEDIUM_TYPE_NAME FDMDM,
F.SPECIES_NUMBER FDSPECIES,

DECODE(TO_CHAR(F.START_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
DECODE(TO_CHAR(F.START_TIME,'HH24:MI:SS'), '00:00:00',
TO_CHAR(F.START_DATE, 'MM/DD/YYYY') || '  ' ||
RTRIM(F.START_TIME_ZONE), TO_CHAR(F.START_DATE, 'MM/DD/YYYY') || '  '
||  TO_CHAR(F.START_TIME,'HH24:MI:SS')|| '  ' || RTRIM(F.START_TIME_ZONE)))
FSTRT,

DECODE(TO_CHAR( F.STOP_DATE, 'MM/DD/YYYY'), '01/01/0001',
NULL,DECODE(TO_CHAR(F.STOP_TIME, 'HH24:MI:SS'), '00:00:00', TO_CHAR(
F.STOP_DATE, 'MM/DD/YYYY')  || '  ' || RTRIM( F.STOP_TIME_ZONE), TO_CHAR(
F.STOP_DATE, 'MM/DD/YYYY')  || '  ' || TO_CHAR(F.STOP_TIME, 'HH24:MI:SS')|| '
' || RTRIM(F.STOP_TIME_ZONE))) FSTP,
F.QC_INDICATOR QC,
F.CHAIN_OF_CUSTODY_ID CUSTODY,

F.COMMUNITY_NAME,
F.COMMENT_TEXT F_CMMNT,
B.NAME BNAME,
C.DISPLAY_NAME Taxon,
F.TSRFDACT_IS_NUMBER,
F.TSRFDACT_ORG_ID,
M.NAME SAMPLE_MATRIX

FROM
TSRTSA TSA,
TSMSTATN S,
TSRSTVST V,
TSRFDACT F,
TSRBIOPT B,
TSRCHAR C,
TSRMATRX M

WHERE
 TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER(+)
AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID(+)
AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER(+)
AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID(+)
AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER(+)
AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID(+)
AND V.TSRSTVST_IS_NUMBER = F.TSRSTVST_IS_NUMBER(+)
AND V.TSRSTVST_ORG_ID = F.TSRSTVST_ORG_ID(+)
AND F.TSRBIOPT_IS_NUMBER =B.TSRBIOPT_IS_NUMBER(+)
AND F.TSRBIOPT_ORG_ID=B.TSRBIOPT_ORG_ID(+)
AND F.TSRCHAR_IS_NUMBER=C.TSRCHAR_IS_NUMBER(+)
AND F.TSRCHAR_ORG_ID= C.TSRCHAR_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
```

```
ORDER BY
S.IDENTIFICATION_CD,
V.ID_NUMBER,
F.ID_CODE,
F.REPLICATE_NUMBER
```

TripSummaryTrpQCSamplesub.sql

```
SELECT
QS.TSRTRIP_IS_NUMBER,
QS.TSRTRIP_ORG_ID,
QS.ID_CODE TRP_QS_ID,
RTRIM(QS.TYPE_NAME) TRP_QS_TYPE

FROM
TSRFQS QS

ORDER BY
QS.ID_CODE
```

TripSummaryTrpProjectssub.sql

```
SELECT
A.TSRTRIP_IS_NUMBER,
A.TSRTRIP_ORG_ID,
J.IDENTIFICATION_CD TRP_PRJ_ID,
RTRIM(J.NAME) TRP_PRJ_NAME

FROM
TSRTPA A,
TSMPROJ J

WHERE
A.TSMPROJ_IS_NUMBER= J.TSMPROJ_IS_NUMBER
AND A.TSMPROJ_ORG_ID=J.TSMPROJ_ORG_ID

ORDER BY
J.IDENTIFICATION_CD
```

TripSummaryVisitSetsub.sql

```
SELECT
TSRSTVST_IS_NUMBER,
TSRSTVST_ORG_ID,
ID_CODE VSET_ID,
RTRIM(NAME) VSET_NAME,
RTRIM(DESCRIPTION_TEXT) VSET_DSCPTN

FROM
TSRFDSET

ORDER BY
ID_CODE
```

TripSummaryFDsetsub.sql

```
SELECT
A.TSRFDACT_IS_NUMBER,
```

```
A.TSRFDACT_ORG_ID,
ST.ID_CODE FDSET_ID,
RTRIM(ST.NAME) FLDSET

FROM
TSRFAFSA A,
TSRFDSET ST

WHERE
A.TSRFDSET_IS_NUMBER=ST.TSRFDSET_IS_NUMBER
AND A.TSRFDSET_ORG_ID=ST.TSRFDSET_ORG_ID

ORDER BY
ST.ID_CODE
```

TripSummaryQCSamplesub.sql

```
SELECT
A.TSRFDACT_IS_NUMBER,
A.TSRFDACT_ORG_ID,
QS.ID_CODE QS_ID,
RTRIM(QS.TYPE_NAME) QS_TYPE

FROM
TSRFAQSA A,
TSRFQS QS

WHERE
A.TSRFQS_IS_NUMBER= QS.TSRFQS_IS_NUMBER
AND A.TSRFQS_ORG_ID=QS.TSRFQS_ORG_ID

ORDER BY
QS.ID_CODE
```

TripSummaryProjectssub.sql

```
SELECT
A.TSRFDACT_IS_NUMBER,
A.TSRFDACT_ORG_ID,
J.IDENTIFICATION_CD PRJ_ID,
RTRIM(J.NAME) PRJ_NAME

FROM
TSRFAPRA A,
TSMPROJ J

WHERE
A.TSMPROJ_IS_NUMBER= J.TSMPROJ_IS_NUMBER
AND A.TSMPROJ_ORG_ID=J.TSMPROJ_ORG_ID

ORDER BY
J.IDENTIFICATION_CD
```

Select Options: Organizations, Trips
or
Organizations, Projects

Sort Sequence: By ascending Organization, by ascending Trip ID, by ascending Station ID, by ascending Visit Number, by ascending Activity ID, by ascending Replicate Number.

- By ascending Trip Project ID.
- By ascending Trip QC Sample ID.
- By ascending Visit Field Set ID.
- By ascending Assigned Project ID.
- By ascending Assigned QC Sample ID.
- By acsending Assigned Field Set ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
T3 Field Trip Data Entry		TSRTRIP
Trip ID	ID	ID_CODE
Trip Name	Trip Name	NAME
Start	Start Date and Time, MM-DD-YYYY	START_DATE
	Start Date and Time, HH:MM:SS	START_TIME
	Start Date and Time, Zone	START_TIME_ZONE
Stop	Stop Date and Time, MM-DD-YYYY	END_DATE
	Stop Date and Time, HH:MM:SS	END_TIME
	Stop Date and Time, Zone	END_TIME_ZONE
ST4 Station Data Entry		TSMSTATN
Station	ID	IDENTIFICATION_CD
	Name	NAME
SV3 Station Visit Data Entry		TSRSTVST
Visit #	Visit Number	ID_NUMBER
Arrive	Arrival Date and Time, MM-DD-YYYY	ARRIVAL_DATE
	Arrival Date and Time, HH:MM:SS	ARRIVAL_TIME
	Arrival Date and Time, Zone	ARRIVAL_TIME_ZONE
Depart	Departure Date and Time, MM-DD-YYYY	DEPARTURE_DATE
	Departure Date and Time, HH:MM:SS	DEPARTURE_TIME
	Departure Date and Time, Zone	DEPRTURE_TIME_ZONE
Station Comments	Station Conditions and Other Comments	COMMENT_TEXT
FS2 Field Set Data Entry **FS4 Field Set Activity Assignment**		TSRFDSET
Visit Field Sets Assigned Field Sets	Field Set ID	ID_CODE
Name	Field Set Name	NAME
Description	Description	DESCRIPTION_TEXT

Report Heading	Prompt Name	Oracle Name
FA3 Field Measurement/Observation Data Entry **FA2 Sample Data Entry** **SV5 Activity Type Selection**		TSRFDACT
Activity ID	ID	ID_CODE
	Replicate Number	REPLICATE_NUMBER
Activity Type	Activity Type	TYPE_NAME
Medium	Medium	MEDIUM_TYPE_NAME
Category	Activity Category	CATEGORY_TYPE_NAME
Intent	Intent	INTENT_TYPE_NAME
Community	Community	COMMUNITY_NAME
Activty Start	Start, MM-DD-YYYY, Activity	START_DATE
	Start, HH:MM:SS, Activity	START_TIME
	Start, Zone, Activity	START_TIME_ZONE
Activity Stop	Stop, MM-DD-YYYY, Activity	STOP_DATE
	Stop, HH:MM:SS, Activity	STOP_TIME
	Stop, Zone, Activity	STOP_TIME_ZONE
Comments	Comments	COMMENT_TEXT
Species #	Species Number	SPECIES_NUMBER
(QC)	QC	QC_INDICATOR
Chain of Custody	Chain of Custody ID	CHAIN_OF_CUSTODY_ID
		TSRMATRX
Sample Matrix	Matrix	NAME
		TSRCHAR
Subject Taxon	Subject Taxon	DISPLAY_NAME
		TSRBIOPT
Bio Part	Bio Part	NAME
T16 Trip Activity Project Assignment **T4 Field Trip Project Assignment**		TSMPROJ
Trip Projects Assigned Projects	Project ID	IDENTIFICATION_CD
	Name	NAME
QC11 Sample QC to Activity Assignment **QC7 QC Sample Data Entry**		TSRFQS
Trip QC Samples Assigned QC Samples	QC Sample ID	ID_CODE
	Type	TYPE_NAME

EXAMPLE

Trip Summary

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Trip ID XXXXXXXXXXXXXXX Smithicalean Monthly Sampling Trip-Feburary-1 **Start** 02/02/1991 07:00:00 EST **Stop** 04/02/1991 21:00:00 EST

Trip Projects	CBCP-001	Water Quality and Biological Health of the Chesapeake Bay
	CBCP-002	Sediment Toxicity Study of the Wicomico River
Trip QC Samples	02-91-QC-001	Pre-Preservative Blank
	02-91-QC-002	Reagent Blank

Station CBC-003 Chesapeake Light Tower

Visit # 1 **Arrive** 02/02/1991 10:00:00 EST **Depart** 02/02/1991 16:00:00 EST
Comments Arrived on station at 1000 hours, seas 1-2 ft, wind out of the North at 12 kt.

Visit Field Sets	Name	Description
AWWWWWWWWW	WWWWWWWWWWWWWWWWWWWWWW WWWWWWW	Wrapping description text of variable and indefinite length. Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap Wrap
Field Set 2	Name of Field Set 2, Maximum of 30	Wrapping description text of variable and indefinite length.
Field Set 3	Name of Field Set 3, Maximum of 30	

Activity ID (QC) 000000000001 / repl 1 **Activity Start** 02/02/1991 10:45:00 EST **Activity Stop** 02/02/1991 11:00:00 EST
Medium Biological **Activity Type** Sample **Category** Integrated Flow Porportioned
Intent Taxon Abundance **Community** Phytoplankton/Zooplankton
Comments This vertical plankton tow was conducted during high winds and 2.5 ft seas.

Assigned Projects	CBCP-001	Water Quality and Biological Health of the Chesapeake Bay
	CBCP-002	Sediment Toxicity Study of the Wicomico River
Assigned QC Samples	02-91-QC-001	Pre-Preservative Blank
	02-91-QC-002	Reagent Blank
Assigned Field Sets	XXXXXXX 1	Name of Field Set 1
	Field Set 2	Name of Field Set 2

Activity ID 000000000001 / repl 2 **Activity Start** 02/02/1991 11:01:00 EST **Activity Stop** 02/02/1991 11:16:00 EST
Medium Biological **Activity Type** Sample **Category** Integrated Flow Porportioned
Intent Taxon Abundance **Community** Phytoplankton/Zooplankton
Comments The cloudy skies broke, expanding outward to reveal the sun in all its warm brilliance, and the seas were suddenly calmed.

Activity ID	02-91-003-01	**Activity Start**	02/02/1991 11:01:00 EST	**Activity Stop**	02/02/1991 11:16:00 EST
Medium	Biological	**Activity Type**	Sample	**Category**	Integrated Flow Porportioned
Intent	Tissue			**Bio Part**	Nose
Subject Taxon	Smithicales			**Species #**	1
Comments	The cloudy skies broke, expanding outward to reveal the sun in all its warm brilliance, and the seas were suddenly calmed.				

Activity ID	WS-01-15-02	**Activity Start**	02/02/1991 11:01:00 EST	**Activity Stop**	02/02/1991 11:16:00 EST
Medium	Water	**Activity Type**	Sample	**Category**	Routine Sample
Sample Matrix	Shoreline Tar formed from spilled oil				
Chain of Custody	Chain of Custody				
Comments	The cloudy skies broke, expanding outward to reveal the sun in all its warm brilliance, and the seas were suddenly calmed.				

Trip Detail

Report Description: This report provides a summary of Trip information for the selected Organizations and Trip including Trip, Visit, Station, Supported Projects, QC Sample, and basic Activity information.

The following fields will be hidden if no data is present.

- C Comments (any).
- C Medium.
- C Sample Matrix.
- C Intent.
- C Community.
- C Bio Part.
- C Subject Taxon, Species Number.
- C Field Set information (Identified or Assigned).
- C Leader, Vehicle/Ship.
- C Trip Plan.
- C Supported Projects.
- C QC Samples.
  - S Created, Volume, Prepared By.
  - S Container Type, Color, Size.
  - S Method and Reagent Used.
  - S Handling, Transport and Storage Comments.
- C Document/Graphic.
- C Field Set information.
- C Assigned Projects.
- C Assigned QC Samples.
- C Assigned Field Sets.
- C / rep.
- C (QC) (activity indicator).
- C Chain of Custody.

Selected Projects will be interrogated against Projects assigned to Trips.

Select Logic: **TripDetail.sql**

```
SELECT
O.ORG_ID,
RTRIM(O.NAME) ORG,
T.TSRTRIP_IS_NUMBER,
T.TSRTRIP_ORG_ID,
RTRIM(T.ID_CODE) TRP_ID,
RTRIM(T.NAME) TRP_NAME,
(TO_CHAR(T.START_DATE, 'MM/DD/YYYY') || '  ' ||
DECODE(TO_CHAR(T.START_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(T.S
TART_TIME,'HH24:MI:SS'))|| '  ' || T.START_TIME_ZONE) TRPSTRT,
DECODE(TO_CHAR( T.END_DATE, 'MM/DD/YYYY'), '01/01/0001',
NULL,TO_CHAR( T.END_DATE, 'MM/DD/YYYY')  || '  ' ||
```

```
DECODE(TO_CHAR(T.END_TIME,
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(T.END_TIME, 'HH24:MI:SS'))|| '  ' ||
T.END_TIME_ZONE) TRPEND,
T.LEADER_NAME,
T.VEHICLE_SHIP_NAME,
RTRIM(T.TRIP_PLAN_TEXT) TRP_PLAN,
RTRIM(T.COMMENT_TEXT) TRP_CMMT,
J.IDENTIFICATION_CD PRJ_ID,
RTRIM(J.NAME) PRJ_NAME

FROM
TSMORGAN O,
TSRTRIP T,
TSRTPA A,
TSMPROJ J

WHERE
O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER
AND T.TSRTRIP_IS_NUMBER = A.TSRTRIP_IS_NUMBER(+)
AND T.TSRTRIP_ORG_ID = A.TSRTRIP_ORG_ID(+)
AND A.TSMPROJ_IS_NUMBER = J.TSMPROJ_IS_NUMBER(+)
AND A.TSMPROJ_ORG_ID = J.TSMPROJ_ORG_ID(+)
 &P_ORG &P_TRP &P_PRJ

ORDER BY O.ORG_ID, T.ID_CODE, J.IDENTIFICATION_CD
```

TripDetailTrpQCSamplesub.sql

```
SELECT
QS.TSRTRIP_IS_NUMBER,
QS.TSRTRIP_ORG_ID,
QS.ID_CODE QS_ID,
RTRIM(QS.TYPE_NAME) QS_TYPE,
RTRIM(QS.NAME) QS_NAME,
DECODE(TO_CHAR(QS.CREATION_DATE, 'MM/DD/YYYY'),'01/01/0001',
NULL,TO_CHAR(QS.CREATION_DATE, 'MM/DD/YYYY') || '  ' ||
DECODE(TO_CHAR(QS.CREATION_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CH
AR(QS.CREATION_TIME,'HH24:MI:SS'))|| '  ' || QS.TIME_ZONE) QS_CRT_DATE,
DECODE(QS.TOTAL_VOLUME_MSR, 0, NULL,
TO_CHAR(QS.TOTAL_VOLUME_MSR) || ' ' || QS.TOTAL_VOLUME_UN_CD)
QS_VOLUME,
DECODE(QS.COMMENT_TEXT, ' ', NULL, QS.COMMENT_TEXT) QS_CMM,
RTRIM(PV.FIELD_VALUE) CONTAINER_TYPE_NM,
RTRIM(PV1.FIELD_VALUE) CONTAINER_COLOR,
DECODE(QS.CONTAINER_SIZE_MSR, 0, NULL, QS.CONTAINER_SIZE_MSR || ' '
|| QS.CONTAINER_SIZE_UN) QS_CNT_SIZE,
DECODE(QS.CREATION_METHOD,' ', NULL, RTRIM(QS.CREATION_METHOD))
QS_METHOD,
DECODE(QS.TRANSPORT_STORAGE, ' ', NULL,
RTRIM(QS.TRANSPORT_STORAGE)) QS_TRANS,
DECODE(P.FIRST_NAME, NULL, NULL,  RTRIM(P.FIRST_NAME) || ' ' ||
RTRIM(P.LAST_NAME)) PRP_BY

FROM
TSRFQS QS,
```

```
TSRFQSPA A,
TSMPERSN P,
TSMPRMVL PV,
TSMPRMVL PV1

WHERE
QS.TSRFQS_IS_NUMBER=A.TSRFQS_IS_NUMBER(+)
AND QS.TSRFQS_ORG_ID=A.TSRFQS_ORG_ID(+)
AND A.TSMPERSN_IS_NUMBER=P.TSMPERSN_IS_NUMBER(+)
AND A.TSMPERSN_ORG_ID=P.TSMPERSN_ORG_ID(+)
AND QS.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND QS.TSMPRMVL0IS_NUMBER = PV1.TSMPRMVL_IS_NUMBER(+)

ORDER BY QS.ID_CODE, PRP_BY
```

TripDetailTrpProjectssub.sql

```
SELECT
A.TSRTRIP_IS_NUMBER,
A.TSRTRIP_ORG_ID,
J.IDENTIFICATION_CD TRP_PRJ_ID,
RTRIM(J.NAME) TRP_PRJ_NAME

FROM
TSRTPA A,
TSMPROJ J

WHERE
A.TSMPROJ_IS_NUMBER= J.TSMPROJ_IS_NUMBER
AND A.TSMPROJ_ORG_ID=J.TSMPROJ_ORG_ID

ORDER BY
J.IDENTIFICATION_CD
```

TripDetailPersonsub.sql

```
SELECT   A.TSRFDACT_IS_NUMBER, A.TSRFDACT_ORG_ID,
RTRIM(P.FIRST_NAME) || ' ' || RTRIM(P.LAST_NAME) PERSON
FROM TSRFAPEA A, TSMPERSN P
WHERE A.TSMPERSN_IS_NUMBER=P.TSMPERSN_IS_NUMBER AND
A.TSMPERSN_ORG_ID=P.TSMPERSN_ORG_ID
ORDER BY A.TSRFDACT_ORG_ID, A.TSRFDACT_IS_NUMBER
```

TripDetailVisitSetsub.sql

```
SELECT TSRSTVST_IS_NUMBER, TSRSTVST_ORG_ID, ID_CODE VSET_ID,
RTRIM(NAME) VSET_NAME, RTRIM(DESCRIPTION_TEXT) VSET_DSCPTN
FROM TSRFDSET
ORDER BY ID_CODE
```

TripDetailFDIDsub.sql

```
SELECT
TSA.TSRTRIP_IS_NUMBER,
TSA.TSRTRIP_ORG_ID,
RTRIM(S.IDENTIFICATION_CD) || '   ' || RTRIM(S.NAME)  STATION,
V.ID_NUMBER VID,
RTRIM(V.COMMENT_TEXT) V_CMMT,
```

```
V.BLOB_TITLE,
(TO_CHAR(V.ARRIVAL_DATE, 'MM/DD/YYYY') || '  ' || DECODE(
TO_CHAR(V.ARRIVAL_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(V.ARRIV
AL_TIME,'HH24:MI:SS'))|| '  ' || V.ARRIVAL_TIME_ZONE) VSTRT,
DECODE(TO_CHAR( V.DEPARTURE_DATE, 'MM/DD/YYYY'), '01/01/0001',
NULL,( TO_CHAR( V.DEPARTURE_DATE, 'MM/DD/YYYY')  || '  ' ||
DECODE(TO_CHAR(V.DEPARTURE_TIME, 'HH24:MI:SS'),'00:00:00',NULL,
TO_CHAR(V.DEPARTURE_TIME, 'HH24:MI:SS'))|| '  ' ||
V.DEPRTURE_TIME_ZONE)) VDPRT,
V.TSRSTVST_IS_NUMBER,
V.TSRSTVST_ORG_ID,
DECODE(F.ID_CODE,  NULL, NULL, RTRIM(F.ID_CODE) ||
DECODE(F.REPLICATE_NUMBER, 0, '', ' / repl '||
TO_CHAR(F.REPLICATE_NUMBER))) FDID,
F.TYPE_NAME FDTYPE,
F.CATEGORY_TYPE_NAME FDCAT,
F.INTENT_TYPE_NAME FDINT,
F.MEDIUM_TYPE_NAME FDMDM,
(TO_CHAR(F.START_DATE, 'MM/DD/YYYY') || '  ' ||
DECODE(TO_CHAR(F.START_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.
START_TIME,'HH24:MI:SS'))|| '  ' || F.START_TIME_ZONE) FSTRT,
DECODE(TO_CHAR( F.STOP_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,(
TO_CHAR( F.STOP_DATE, 'MM/DD/YYYY')  || '  ' ||
DECODE(TO_CHAR(F.STOP_TIME,
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.STOP_TIME, 'HH24:MI:SS'))|| '  ' ||
F.STOP_TIME_ZONE)) FSTP,
F.COMMUNITY_NAME,
F.SPECIES_NUMBER FSPNUM,
RTRIM(F.COMMENT_TEXT) F_CMMNT,
F.QC_INDICATOR QC,
F.CHAIN_OF_CUSTODY_ID CUSTODY,
B.NAME BNAME,
C.DISPLAY_NAME Taxon,
F.TSRFDACT_IS_NUMBER,
F.TSRFDACT_ORG_ID,
M.NAME SAMPLE_MATRIX

FROM
TSRTSA TSA,
TSMSTATN S,
TSRSTVST V,
TSRFDACT F,
TSRBIOPT B,
TSRCHAR C ,
TSRMATRX M

WHERE
TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER(+)
AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID(+)
AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER(+)
AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID(+)
AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER(+)
AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID(+)
AND V.TSRSTVST_IS_NUMBER = F.TSRSTVST_IS_NUMBER(+)
```

```
AND V.TSRSTVST_ORG_ID = F.TSRSTVST_ORG_ID(+)
AND F.TSRBIOPT_IS_NUMBER =B.TSRBIOPT_IS_NUMBER(+)
AND F.TSRBIOPT_ORG_ID=B.TSRBIOPT_ORG_ID(+)
AND F.TSRCHAR_IS_NUMBER=C.TSRCHAR_IS_NUMBER(+)
AND F.TSRCHAR_ORG_ID= C.TSRCHAR_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)

ORDER BY S.IDENTIFICATION_CD, V.ID_NUMBER, F.ID_CODE,
F.REPLICATE_NUMBER
```

TripDetailFDProjectsub.sql

```
SELECT  A.TSRFDACT_IS_NUMBER, A.TSRFDACT_ORG_ID,
J.IDENTIFICATION_CD FDPRJ_ID, RTRIM(J.NAME) FDPRJ_NAME
FROM TSRFAPRA A, TSMPROJ J
WHERE A.TSMPROJ_IS_NUMBER= J.TSMPROJ_IS_NUMBER AND
A.TSMPROJ_ORG_ID=J.TSMPROJ_ORG_ID
ORDER BY J.IDENTIFICATION_CD
```

TripDetailFDQCsub.sql

```
SELECT  A.TSRFDACT_IS_NUMBER, A.TSRFDACT_ORG_ID, QS.ID_CODE
FDQS_ID, RTRIM(QS.TYPE_NAME) FDQS_TYPE
FROM TSRFAQSA A, TSRFQS QS
WHERE A.TSRFQS_IS_NUMBER= QS.TSRFQS_IS_NUMBER AND
A.TSRFQS_ORG_ID=QS.TSRFQS_ORG_ID
ORDER BY QS.ID_CODE
```

TripDetailFDSetsub.sql

```
SELECT  A.TSRFDACT_IS_NUMBER, A.TSRFDACT_ORG_ID, ST.ID_CODE
FDSET_ID, RTRIM(ST.NAME) FLDSET_NAME
FROM TSRFAFSA A, TSRFDSET ST
WHERE A.TSRFDSET_IS_NUMBER=ST.TSRFDSET_IS_NUMBER AND
A.TSRFDSET_ORG_ID=ST.TSRFDSET_ORG_ID
ORDER BY ST.ID_CODE
```

Select Options: Organizations, Trips
or
Organizations, Projects

Sort Sequence: By ascending Organization, by ascending Trip ID, by ascending Station ID, by ascending Visit Number, by ascending Activity ID, by ascending Replicate Number.

- Supported Projects - By ascending Project ID.
- QC Sample Prepared by - By ascending Personnel First Name.
- Assigned Projects - By ascending Project ID.
- Field Sets - By ascending Field Set ID.
- Assigned Field Sets - By ascending Field Set ID.
- QC Samples - By ascending QC Sample ID.
- Assigned QC Samples - By ascending QC Sample ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
T3 Field Trip Data Entry		TSRTRIP
Trip ID	ID	ID_CODE
Trip Name	Trip Name	NAME
Leader	Leader	LEADER_NAME
Vehicle/Ship	Vehicle/Ship	VEHICLE_SHIP_NAME
Trip Start	Start Date and Time, MM-DD-YYYY	START_DATE
	Start Date and Time, HH:MM:SS	START_TIME
	Start Date and Time, Zone	START_TIME_ZONE
Trip Stop	Stop Date and Time, MM-DD-YYYY	END_DATE
	Stop Date and Time, HH:MM:SS	END_TIME
	Stop Date and Time, Zone	END_TIME_ZONE
Trip Plan	Trip Origin and Plan Summary	TRIP_PLAN_TEXT
Trip Comments	Comments	COMMENT_TEXT
ST4 Station Data Entry		TSMSTATN
Station	ID	IDENTIFICATION_CD
	Name	NAME
SV3 Station Visit Data Entry		TSRSTVST
Visit #	Visit Number	ID_NUMBER
Arrive	Arrival Date and Time, MM-DD-YYYY	ARRIVAL_DATE
	Arrival Date and Time, HH:MM:SS	ARRIVAL_TIME
	Arrival Date and Time, Zone	ARRIVAL_TIME_ZONE
Depart	Departure Date and Time, MM-DD-YYYY	DEPARTURE_DATE
	Departure Date and Time, HH:MM:SS	DEPARTURE_TIME
	Departure Date and Time, Zone	DEPRTURE_TIME_ZONE
Station Comments	Station Conditions and Other Comments	COMMENT_TEXT
Document/Graphic	Document/Graphic	BLOB_TITLE
FS2 Field Set Data Entry **FS4 Field Set Activity Assignment**		TSRFDSET
Field Set ID Assigned Field Sets	Field Set ID	ID_CODE
Name	Field Set Name	NAME
Description	Description	DESCRIPTION_TEXT
FA3 Field Measurement/Observation Data Entry **FA2 Sample Data Entry** **SV5 Activity Type Selection**		TSRFDACT
Activity ID	ID	ID_CODE
	Replicate Number	REPLICATE_NUMBER
Activity Type	Activity Type	TYPE_NAME
Medium	Medium	MEDIUM_TYPE_NAME
Category	Activity Category	CATEGORY_TYPE_NAME
Intent	Intent	INTENT_TYPE_NAME

Report Heading	Prompt Name	Oracle Name
Community	Community	COMMUNITY_NAME
Activity Start	Start, MM-DD-YYYY, Activity	START_DATE
	Start, HH:MM:SS, Activity	START_TIME
	Start, Zone, Activity	START_TIME_ZONE
Activity Stop	Stop, MM-DD-YYYY, Activity	STOP_DATE
	Stop, HH:MM:SS, Activity	STOP_TIME
	Stop, Zone, Activity	STOP_TIME_ZONE
Comments	Comments	COMMENT_TEXT
Species #	Species Number	SPECIES_NUMBER
(QC)	QC	QC_INDICATOR
Chain of Custody	Chain of Custody ID	CHAIN_OF_CUSTODY_ID
		TSRCHAR
Subject Taxon	Subject Taxon	DISPLAY_NAME
		TSRBIOPT
Bio Part	Bio Part	NAME
		TSRMATRX
Sample Matrix	Matrix	NAME
PJ4 Project Data Entry **T16 Trip Activity Project Assignment**		TSMPROJ
Supported Projects Assigned Projects	ID	IDENTIFICATION_CD
	Name	NAME
QC7 QC Sample Data Entry **QC8 QC Sample Method and Storage Data Entry** **QC11 Sample QC to Activity Assignment** **QC12 QC Sample Person Assignment List**		TSRFQS
Sample ID Assigned QC Sample	ID QC Sample ID	ID_CODE
Type	Type	TYPE_NAME
Name	Name	NAME
Created	Creation Date and Time, MM-DD-YYYY	CREATION_DATE
	Creation Date and Time, HH:MM:SS	CREATION_TIME
	Creation Date and Time, Zone	TIME_ZONE
Volume	Sample Volume	TOTAL_VOLUME_MSR
		TOTAL_VOLUME_UN_CD
Comments	Comments	COMMENT_TEXT
Size	Container, Size	CONTAINER_SIZE_MSR
		CONTAINER_SIZE_UN
Method and Reagents Used	Method and Reagents Used	CREATION_METHOD
Handling, Transport and Storage Comments	Handling, Transport and Storage Comments	TRANSPORT_STORAGE
		TSMPRMVL
Container Type	Container, Type	CONTAINER_TYPE_NM
Color	Container, Color	CONTAINER_COLOR
		TSMPERSN

Report Heading	Prompt Name	Oracle Name
Prepared by	Person	FIRST_NAME
		LAST_NAME

EXAMPLE

Trip Detail

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Trip ID 02-1991-1 **Trip Start** 02/02/1991 07:00:00 EST **Trip Stop** 04/02/1991 21:00:00 EST
Trip Name Monthly Sampling-Feburary-1
Leader Sailor man Capt. L. J. Silver **Vehicle/Ship** NOAA USS Lollipop
Trip Plan This cruise was staged out of the Norfolk Naval Air Station in Norfolk, Va. The plan calls for three Station Visits per day. On Station time should average between 3 and 5 hours.
Comments None
Supported Projects CBCP-001 Water Quality and Biological Health of the Chesapeake Bay
CBCP-002 Sediment Toxicity Study of the Wicomico River

QC Sample(s)
Sample ID 02-91-QC-001 **Type** Post-preservative Blank **Name** Wicomico River Mercury Tracer
Created 02/01/1991 09:45:00 EST **Volume** 500.0000 ml **Prepared by** Lee Manning
Comments These are the comments that are for the QC Sample.
Container Type Aluminum Foil Wrap **Color** Translucent **Size** 500.000 ml
Method and Reagent Used Preservatives were purchased from VWR Scientific. H2SO4 Lot number 90878, HCL Lot number 86378.
Handling, Transport and Storage Comments Blanks were transported to the ship on the day of departure. All samples were padded and secured in the sample rack on the Port side of the water chemistry lab.

Station CBC-003 Chesapeake Light Tower

Visit # 1 **Arrive** 02/02/1991 10:00:00 EST **Depart** 02/02/1991 16:00:00 EST
Document/Graphic Station Visit Picture Title
Comments Arrived on station at 1000 hours, seas 1-2 ft, wind out of the North at 12 kt.
Field Set ID XXXXXXX1 **Name** Name of Field Set 1, Maximum of 30 **Description** Wrapping description text of variable and indefinite length.
Field Set ID Field Set 2 **Name** Name of Field Set 2, Maximum of 30 **Description** Wrapping description text of variable and indefinite length.

Activity ID (QC) XXXXXXXXXXXX / repl 1 **Activity Start** 02/02/1991 10:45:00 EST **Activity Stop** 02/02/1991 11:00:00 EST
Medium Biological **Activity Type** Sample **Category** Integrated Flow Porportioned
Intent Taxon Abundance **Community** Phytoplankton/Zooplankton
Comments This vertical plankton tow was conducted during high winds and 2.5 ft seas.
Assigned Projects PROJ1 Project 1 Name
PROJ2 Project 2 Name
Assigned QC Samples 02-91-QC-001 Pre-Preservative Blank
02-91-QC-002 Reagent Blank
Assigned Field Sets FIELD SET 1 Name of Field Set 1
FIELD SET 2 Name of Field Set 2

Activity ID	02-91-003-01 / repl 2	**Activity Start**	02/02/1991 11:01:00 EST	**Activity Stop**	02/02/1991 11:16:00 EST
Medium	Biological	**Activity Type**	Sample	**Category**	Integrated Flow Porportioned
Intent	Taxon Abundance	**Community**	Phytoplankton/Zooplankton		
Comments	The cloudy skies broke, expanding outwardly to reveal the sun in all it's warm brilliance, and the seas were suddenly calmed.				

Activity ID	02-91-003-02	**Activity Start**	02/02/1991 11:01:00 EST	**Activity Stop**	02/02/1991 11:16:00 EST
Medium	Biological	**Activity Type**	Sample	**Category**	Created from Sample
Intent	Tissue			**Bio Part**	Nose
Subject Taxon	Smithicales			**Species #**	1
Comments	The cloudy skies broke, expanding outwardly to reveal the sun in all it's warm brilliance, and the seas were suddenly calmed.				

Activity ID	02-91-003-03	**Activity Start**	02/02/1991 11:01:00 EST	**Activity Stop**	02/02/1991 11:16:00 EST
Medium	Water	**Activity Type**	Sample	**Category**	Composite-with Parents
Sample Matrix	Water Filter (Solid Material used to filter Water)				
Chain of Custody	Chain of Custody				
Comments	A glass filter was used.				

Activity ID	02-91-003-03	**Activity Start**	02/02/1991 11:01:00 EST	**Activity Stop**	02/02/1991 11:16:00 EST
		Activity Type	Sample	**Category**	Routine Habitat Assessment

Visit # 2 **Arrive** 02/02/1991 10:00:00 EST **Depart** 02/02/1991 16:00:00 EST

Activity ID	XXXXXXXXXXXX	**Activity Start**	02/02/1991 10:45:00 EST	**Activity Stop**	02/02/1991 11:00:00 EST
Medium	Biological	**Activity Type**	Sample	**Category**	Integrated Flow Porportioned
Intent	Taxon Abundance	**Community**	Phytoplankton/Zooplankton		

Station CBC-003 Chesapeake Light Tower

Visit # 1 **Arrive** 02/02/1991 10:00:00 EST **Depart** 02/02/1991 16:00:00 EST

Activity ID	XXXXXXXXXXXX	**Activity Start**	02/02/1991 10:45:00 EST	**Activity Stop**	02/02/1991 11:00:00 EST
Medium	Biological	**Activity Type**	Sample	**Category**	Integrated Flow Porportioned
Intent	Taxon Abundance	**Community**	Phytoplankton/Zooplankton		

Activity Details

Report Description: This report provides detailed Activity Information.

The following fields will be hidden if no data is present:

- Visit Comments.
- Duration, Total Volume, Total Weight.
- Assigned Parents (all associated fields).
- Data Log.
- Sample Matrix.
- Document/Graphic.
- Activity Comments.
- Gear.
- Gear Configuration.
- Specifications.
- Gear Deployment Comments.
- Container Type, Color, Size, Temperature Preservation Type, Chemical Preservation and Storage Procedure, Transport and Storage Comments.
- Point Name.
- Sequence Number.
- Well Number.
- Pipe Number.
- Activity Location title (for second or subsequent Activity Points) .
- Activity Point information.
  - Latitude/Longitude Scale, Measurement Date
  - Elevation Information
- Either Sample Depth and/or Sample Depth Range blocks, depending on data.
  - Depth Measured From.
- Trawl and Net information.
  - Comments.
- Electroshock information.
  - Comments.
- Trawl/Horizontal information.
  - Comments.
- Personnel Performing Activity.
- Cooperating Organizations Performing Activity.
- / rep.
- (QC) (activity indicator).
- Chain of Custody.

Special Separators

- 6.5 inch centered line before each Trip.
- 5.5 inch centered line before each Station.

C 3 inch centered line before each Activity.

Selected Projects will be interrogated against Projects assigned to Activities.

Select Logic:

ActivityDetails.sql

```
SELECT
DISTINCT
O.ORG_ID,
O.NAME ORGNAME,
DECODE(T.ID_CODE, NULL, NULL, RTRIM(T.ID_CODE) ||  '   ' || RTRIM(T.NAME))
TRP,
DECODE(S.IDENTIFICATION_CD, NULL,NULL, RTRIM(S.IDENTIFICATION_CD) ||
'   ' || RTRIM(S.NAME)) STATION,
V.ID_NUMBER VID,
DECODE(TO_CHAR(V.ARRIVAL_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
DECODE(TO_CHAR(V.ARRIVAL_TIME,'HH24:MI:SS'), '00:00:00',
TO_CHAR(V.ARRIVAL_DATE, 'MM/DD/YYYY') || '  ' || V.ARRIVAL_TIME_ZONE,
TO_CHAR(V.ARRIVAL_DATE, 'MM/DD/YYYY') || '  ' ||
TO_CHAR(V.ARRIVAL_TIME,'HH24:MI:SS')|| '  ' || V.ARRIVAL_TIME_ZONE))
V_ARRIVAL,
DECODE(TO_CHAR( V.DEPARTURE_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
DECODE(TO_CHAR(V.DEPARTURE_TIME, 'HH24:MI:SS'), '00:00:00',  TO_CHAR(
V.DEPARTURE_DATE, 'MM/DD/YYYY')  || '  ' || V.DEPRTURE_TIME_ZONE,
TO_CHAR( V.DEPARTURE_DATE, 'MM/DD/YYYY')  || '  ' ||
TO_CHAR(V.DEPARTURE_TIME, 'HH24:MI:SS')|| '  ' || V.DEPRTURE_TIME_ZONE))
V_DEPARTURE,
V.COMMENT_TEXT V_CMMNT,
F.TSRFDACT_IS_NUMBER,
F.TSRFDACT_ORG_ID,
F.TSRGRCFG_IS_NUMBER,
F.TSRGRCFG_ORG_ID,
DECODE(F.ID_CODE,  NULL, NULL, RTRIM(F.ID_CODE) ||
DECODE(F.REPLICATE_NUMBER, 0, '', ' / repl '||
TO_CHAR(F.REPLICATE_NUMBER))) FDID,
F.QC_INDICATOR QC,
F.TYPE_NAME ACTTYPE,
F.CATEGORY_TYPE_NAME FDCAT,
F.INTENT_TYPE_NAME FDINT,
F.MEDIUM_TYPE_NAME FDMDM,
F.COMMUNITY_NAME,
F.COMMENT_TEXT FCOMMENT,
F.SPECIES_NUMBER,
DECODE(TO_CHAR(F.START_DATE, 'MM/DD/YYYY'),'01/01/0001', NULL,
DECODE(TO_CHAR(F.START_TIME,'HH24:MI:SS'), '00:00:00',
TO_CHAR(F.START_DATE, 'MM/DD/YYYY')|| '  ' || F.START_TIME_ZONE,
TO_CHAR(F.START_DATE, 'MM/DD/YYYY') || '  ' ||
TO_CHAR(F.START_TIME,'HH24:MI:SS')|| '  ' || F.START_TIME_ZONE)) Strt,
DECODE(TO_CHAR( F.STOP_DATE, 'MM/DD/YYYY'), '01/01/0001',
NULL,DECODE(TO_CHAR(F.STOP_TIME, 'HH24:MI:SS'), '00:00:00',  TO_CHAR(
F.STOP_DATE, 'MM/DD/YYYY')  || '  ' || F.STOP_TIME_ZONE ,  TO_CHAR(
```

```
F.STOP_DATE, 'MM/DD/YYYY')  || '  ' || TO_CHAR(F.STOP_TIME, 'HH24:MI:SS')|| '  ' ||
F.STOP_TIME_ZONE)) Stp,
RTRIM(F.DEPTH_TO_ACTIVITY)||' '|| RTRIM(F.DEPTH_TO_ACT_UN_CD)
SPLDEPTH,
F.RELTV_DEPTH_NAME,
RTRIM(F.UPPER_DEPTH_TO_ACT) ||' ' || RTRIM(F.DEPTH_MSR_UNT_CD)
UPERDEPTH,
RTRIM(F.LOWER_DEPTH_TO_ACT)||' '|| RTRIM(F.DEPTH_MSR_UNT_CD)
LOWERDEPTH,
F.DEPTH_REF_POINT DEPTHMRSFROM,
F.ZONE_TYPE_NAME,
DECODE(F.THERMOCLINE_LOC_CD,'A','Above','B','Below', NULL) Thermocline,
DECODE(F.HALOCLINE_LOC_CD, 'A','Above','B','Below', NULL) Halocline,
DECODE(F.PYCNOCLINE_LOC_CD, 'A','Above','B','Below', 'I', 'In', NULL) Pycnocline,
F.CHAIN_OF_CUSTODY_ID CUSTODY,
F.BLOB_TITLE BLOB_TITLE,
M.NAME SAMPLE_MATRIX,
C.DISPLAY_NAME SUBJECT,
B.NAME BNAME,
DECODE(P.ID_CODE, NULL, NULL, (RTRIM(P.ID_CODE) || ' / ' || P.NAME))
ColectProcedure,
(RTRIM(G.ID_CODE) ||' / '|| G.NAME ) GEAR,
G.TSRFLDGR_IS_NUMBER,
G.TSRFLDGR_ORG_ID,
SP.GEAR_DEPLOYMENT,
RTRIM(PV.FIELD_VALUE)  CONTAINER_TYPE,
RTRIM(PV1.FIELD_VALUE) CONTAINER_COLOR,
DECODE(SP.CONTAINER_SIZE_MSR, NULL, '', 0, '', SP.CONTAINER_SIZE_MSR) ||
DECODE(SP.CONTAINER_SIZE_UN, NULL, '', ' '||SP.CONTAINER_SIZE_UN)
CONTAINER_SIZE,
RTRIM(PV2.FIELD_VALUE) TEMP_PRESERVN_TYPE,
SP.PRESRV_STRGE_PRCDR,
SP.TRANSPORT_STORAGE,
DECODE(SP.DURATION_TIME,0,NULL,NULL,NULL,RTRIM(SP.DURATION_TIME
)||' '|| SP.DURATION_UNITS) DURATION, DECODE(SP.TOTAL_VOLUME_MSR,
0,NULL,NULL,NULL,RTRIM(SP.TOTAL_VOLUME_MSR) ||' ' ||
RTRIM(SP.TOTAL_VOLUME_UN_CD)) TOTALVOLUME,
DECODE(SP.TOTAL_WEIGHT_MSR,
0,NULL,NULL,NULL,RTRIM(SP.TOTAL_WEIGHT_MSR) ||' ' ||
RTRIM(SP.TOTAL_WEIGHT_UN_CD)) TOTALWEITHT,
SP.DATA_FILE_NAME_LOC,
DECODE(TN.SMPLNG_DURATN_MSR,NULL,NULL,RTRIM(TN.SMPLNG_DURAT
N_MSR)||' '|| RTRIM(TN.SMPLNG_DRTN_UNT_CD)) TNDURATION,
DECODE(TN.REL_CURRENT_DIR, NULL,NULL, TN.REL_CURRENT_DIR || ' deg')
TNCURRENT,
DECODE(TN.REL_WIND_DIR, NULL, NULL, TN.REL_WIND_DIR || ' deg') TNWIND,
TN.ORIENTN_TO_CURRENT TNORIENTN,
TN.COMMENT_TEXT TNCOMMENT,
DECODE(TD.FISHED_DURATN_MSR, NULL,
NULL,RTRIM(TD.FISHED_DURATN_MSR) || ' ' ||
RTRIM(TD.FISHD_DURTN_UNT_CD)) TDDURATION,
DECODE(TD.FISHED_DISTANCE, NULL, NULL, RTRIM(TD.FISHED_DISTANCE) ||
' ' || RTRIM(TD.FISHED_DISTANCE_UN)) TDDISTANCE,
```

```
DECODE(TD.BOAT_SPEED_MSR, NULL, NULL, ' ', NULL,
RTRIM(TD.BOAT_SPEED_MSR) || ' ' || RTRIM(TD.BOAT_SPEED_UN_CD))
TDBOATSPD,
DECODE(TD.REL_WIND_DIR,NULL,NULL,TD.REL_WIND_DIR || ' deg') TDWIND,
DECODE(TD.REL_CURRENT_DIR, NULL, NULL, TD.REL_CURRENT_DIR || ' deg')
TDCURRENT,
TD.COMMENT_TEXT TDCOMMENT,
DECODE(ED.VOLTAGE_MEASURE, NULL, NULL, ED.VOLTAGE_MEASURE || ' ' ||
ED.CURRENT_TYPE_CODE) VOLTAGE,
ED.AMPERAGE_MEASURE,
DECODE(ED.PULSE_RATE_MSR, NULL, NULL, ED.PULSE_RATE_MSR || ' per
second' ) PULSE_RATE_MSR,
ED.PASS_COUNT,
DECODE(ED.PASS_LENGTH_MSR, NULL, NULL,
RTRIM(ED.PASS_LENGTH_MSR) || ' ' || RTRIM(ED.PASS_LENGTH_UN_CD))
PASSLENGTH,
DECODE(ED.TOTAL_ENERGZD_TIME, NULL, NULL,
RTRIM(ED.TOTAL_ENERGZD_TIME) || ' ' || RTRIM(ED.ENERGZD_TIME_UNITS))
ENERGZDTIME,
ED.COMMENT_TEXT EDCOMMENT , J.IDENTIFICATION_CD FDPRJ_ID,
RTRIM(J.NAME) FDPRJ_NAME
FROM
TSMORGAN O,
TSRTRIP T,
TSRTSA TSA,
TSMSTATN S,
TSRSTVST V,
TSRFDACT F,
TSRBIOPT B,
TSRFLDPR P,
TSRFLDGR G,
TSMPRMVL PV,
TSMPRMVL PV1,
TSMPRMVL PV2,
TSRSMPLE SP,
TSRTNOD TN,
TSRTOD TD,
TSREOD ED,
TSRCHAR C,
TSRFAPRA A,
TSMPROJ J,
TSRMATRX M
WHERE
O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER(+)
AND T.TSRTRIP_IS_NUMBER = TSA.TSRTRIP_IS_NUMBER(+)
AND T.TSRTRIP_ORG_ID = TSA.TSRTRIP_ORG_ID(+)
AND TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER(+)
AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID(+)
AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER(+)
AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID(+)
AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER(+)
AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID(+)
AND V.TSRSTVST_IS_NUMBER = F.TSRSTVST_IS_NUMBER(+)
```

```
AND V.TSRSTVST_ORG_ID = F.TSRSTVST_ORG_ID(+)
AND F.TSRBIOPT_IS_NUMBER =B.TSRBIOPT_IS_NUMBER(+)
AND F.TSRBIOPT_ORG_ID=B.TSRBIOPT_ORG_ID(+)
AND F.TSRFLDPR_IS_NUMBER = P.TSRFLDPR_IS_NUMBER(+)
AND F.TSRFLDPR_ORG_ID=P.TSRFLDPR_ORG_ID(+)
AND  F.TSRFLDGR_IS_NUMBER=G.TSRFLDGR_IS_NUMBER(+)
AND F.TSRFLDGR_ORG_ID=G.TSRFLDGR_ORG_ID(+)
AND F.TSRFDACT_IS_NUMBER=SP.TSRFDACT_IS_NUMBER(+)
AND F.TSRFDACT_ORG_ID=SP.TSRFDACT_ORG_ID(+)
AND F.TSRFDACT_IS_NUMBER=TN.TSRFDACT_IS_NUMBER(+)
AND F.TSRFDACT_ORG_ID=TN.TSRFDACT_ORG_ID(+)
AND F.TSRFDACT_IS_NUMBER=TD.TSRFDACT_IS_NUMBER(+)
AND F.TSRFDACT_ORG_ID=TD.TSRFDACT_ORG_ID(+)
AND F.TSRFDACT_IS_NUMBER=ED.TSRFDACT_IS_NUMBER(+)
AND F.TSRFDACT_ORG_ID=ED.TSRFDACT_ORG_ID(+)
AND F.TSRCHAR_IS_NUMBER=C.TSRCHAR_IS_NUMBER(+)
AND F.TSRCHAR_ORG_ID=C.TSRCHAR_ORG_ID(+)
AND F.TSRFDACT_IS_NUMBER=A.TSRFDACT_IS_NUMBER(+)
AND F.TSRFDACT_ORG_ID=A.TSRFDACT_ORG_ID(+)
AND  A.TSMPROJ_IS_NUMBER= J.TSMPROJ_IS_NUMBER(+)
AND A.TSMPROJ_ORG_ID= J.TSMPROJ_ORG_ID(+)
AND SP.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND SP.TSMPRMVL_ORG_ID = PV.TSMPRMVL_ORG_ID(+)
AND SP.TSMPRMVL0IS_NUMBER = PV1.TSMPRMVL_IS_NUMBER(+)
AND SP.TSMPRMVL0ORG_ID = PV1.TSMPRMVL_ORG_ID(+)
AND SP.TSMPRMVL1IS_NUMBER = PV2.TSMPRMVL_IS_NUMBER(+)
AND SP.TSMPRMVL1ORG_ID = PV2.TSMPRMVL_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
 &P_ORG &P_TRP &P_STN  &P_PRJ

ORDER BY
O.ORG_ID,
TRP,
STATION,
VID,
FDID,
J.IDENTIFICATION_CD
```

ActivityDetailSplitFromsub.sql

```
SELECT
F.TSRFDACT_IS_NUMBER,
F.TSRFDACT_ORG_ID,
SF.ID_CODE SFID,
SF.CATEGORY_TYPE_NAME SFCAT,
DECODE(SF.REPLICATE_NUMBER, 0, NULL, SF.REPLICATE_NUMBER) SFREP,
DECODE(TO_CHAR(SF.START_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(SF.START_DATE, 'MM/DD/YYYY')) SFSTART_DATE,
DECODE(TO_CHAR(SF.START_TIME, 'HH24:MI:SS'), '00:00:00', NULL,
TO_CHAR(SF.START_TIME, 'HH24:MI:SS')) SFSTART_TIME

FROM
TSRFDACT F,
TSRFDACT SF
```

```
WHERE
F.TSRFDACT1IS_NUMBER = SF.TSRFDACT_IS_NUMBER
AND F.TSRFDACT1ORG_ID=SF.TSRFDACT_ORG_ID

ORDER BY
SF.ID_CODE,
SF.REPLICATE_NUMBER
```

ActivityDetailParentsub.sql

```
SELECT
F.TSRFDACT_IS_NUMBER,
F.TSRFDACT_ORG_ID,
PF.ID_CODE PFID,
PF.CATEGORY_TYPE_NAME PFCAT,
DECODE(PF.REPLICATE_NUMBER, 0, NULL, PF.REPLICATE_NUMBER) PFREP,
DECODE(TO_CHAR(PF.START_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(PF.START_DATE, 'MM/DD/YYYY')) PFSTART_DATE,
DECODE(TO_CHAR(PF.START_TIME, 'HH24:MI:SS'), '00:00:00', NULL,
TO_CHAR(PF.START_TIME, 'HH24:MI:SS')) PFSTART_TIME

FROM
TSRFDACT F,
TSRFDACT PF

WHERE
F.TSRFDACT_IS_NUMBER = PF.TSRFDACT0IS_NUMBER
AND F.TSRFDACT_ORG_ID=PF.TSRFDACT0ORG_ID

ORDER BY
PF.ID_CODE,
PF.REPLICATE_NUMBER
```

ActivityDetailHabitatsub.sql

```
SELECT
DISTINCT
F.TSRFDACT_IS_NUMBER,
F.TSRFDACT_ORG_ID,
P.NAME GRPNAME

FROM
TSRFDACT F,
TSRRSULT R,
TSRHCSC H,
TSRCHGRP P

WHERE
F.TSRFDACT_IS_NUMBER=R.TSRFDACT_IS_NUMBER
AND F.TSRFDACT_ORG_ID=R.TSRFDACT_ORG_ID
AND R.TSRHCSC_IS_NUMBER=H.TSRHCSC_IS_NUMBER
AND R.TSRHCSC_ORG_ID=H.TSRHCSC_ORG_ID
AND H.TSRCHGRP_IS_NUMBER = P.TSRCHGRP_IS_NUMBER
AND H.TSRCHGRP_ORG_ID = P.TSRCHGRP_ORG_ID
AND F.TYPE_NAME='Field Msr/Obs'
```

```
AND F.MEDIUM_TYPE_NAME<> 'Biological'
AND F.CATEGORY_TYPE_NAME IN('Routine Habitat Assessment', 'Replicate Habitat
Assessment')
```

ActivityDetailGearConfigurationsub.sql

```
SELECT
C.TSRGRCFG_IS_NUMBER,
C.TSRGRCFG_ORG_ID,
(RTRIM(C.ID_CODE) ||'    '||C.NAME) GEARCNFG,
T.DESCRIPTION_TEXT SPECIFICATION

FROM
TSRGRCFG C,
TSMGNTXT T

WHERE
C.TSRGRCFG_IS_NUMBER=T.TSRGRCFG_IS_NUMBER(+)
AND C.TSRGRCFG_ORG_ID=T.TSRGRCFG_ORG_ID(+)
```

ActivityDetailALPsub.sql

```
SELECT
A.TSRFDACT_IS_NUMBER,
A.TSRFDACT_ORG_ID,
DECODE(RTRIM(A.TSRAAL_TYPE_NAME),'General', NULL,
A.TSRAAL_TYPE_NAME) AAL_TYPE,
P.TYPE_CODE LOCATION_TYPE,
P.POINT_NAME,
DECODE(RTRIM(P.TYPE_CODE),'WELL HEAD',W.ID_NUMBER,'END OF
PIPE',PI.ID_NUMBER, P.SEQUENCE_NUMBER) ID_NUM,
DECODE(RTRIM(P.TYPE_CODE),'WELL HEAD','Well #','END OF PIPE','Pipe #', 'Seq.
#') ID_LABEL,

DECODE(P.TYPE_CODE, NULL, NULL,
' ' || TO_CHAR(P.LAT_DEGREE_MSR,'00') || '  ' || TO_CHAR(P.LAT_MINUTE_MSR,
'00') || '  ' || TO_CHAR(P.LAT_SECOND_MSR, '00.9999') ||
DECODE(P.LONG_DIRECTION, 'E', '  ','   ') || P.LAT_DIRECTION ||'   (  '||
TO_CHAR(P.GPS_LAT_DEGREE_MSR,'00') || '  '
||TO_CHAR(P.GPS_LAT_MINUTE_MSR, '00.9999') || ';     ' ||
TO_CHAR(LAT_DEC_DEG_MSR,'00.9999999') ||')') LAT,

DECODE(P.TYPE_CODE, NULL, NULL, TO_CHAR(P.LONG_DEGREE_MSR, '000') ||
'  ' || TO_CHAR(P.LONG_MINUTE_MSR, '00') || '  ' ||
TO_CHAR(P.LONG_SECOND_MSR, '00.9999') || '  ' || P.LONG_DIRECTION ||'   ('||
TO_CHAR(P.GPS_LONG_DEG_MSR, '000') || '  ' ||
TO_CHAR(P.GPS_LONG_MIN_MSR, '00.9999') || ';   ' ||
TO_CHAR(LONG_DEC_DEG_MSR,'000.9999999') ||')') LNG,

RTRIM(GM.DESCRIPTION) ACT_GM,
RTRIM(GD.DESCRIPTION) ACT_GD,
P.GEOPSTNG_SCALE_TXT GEOPOS_SCALE,
DECODE(TO_CHAR(P.LAT_LONG_MSR_DT,
'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(P.LAT_LONG_MSR_DT,
'MM/DD/YYYY')) GEOPOS_MEAS_DATE,
```

```
DECODE(P.ELEVATION_MSR,0,NULL,TO_CHAR(P.ELEVATION_MSR)||'
'||P.ELVTN_UNT_CD) ELEVATION,
RTRIM(EM.DESCRIPTION) ACT_EM,
RTRIM(ED.DESCRIPTION) ACT_ED,
DECODE(TO_CHAR(P.ELVTN_MSR_DT,
'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(P.ELVTN_MSR_DT,
'MM/DD/YYYY')) ELEVATION_MEAS_DATE,

DECODE(LTRIM(A.BOTTOM_DEPTH_MSR), 0, NULL,  (A.BOTTOM_DEPTH_MSR
|| ' ' || A.BOTTOM_DEPTH_UN_CD)) DEP_TO_BOTTOM,

A.ADDTNL_LOC_INFO

FROM
TSRAAL A,
TSMALP P,
TSMWELL W,
TSMPIPE PI,
TSMMAD GM,
TSMMAD GD,
TSMMAD EM,
TSMMAD ED

WHERE
A.TSMALP_IS_NUMBER=P.TSMALP_IS_NUMBER
AND A.TSMALP_ORG_ID = P.TSMALP_ORG_ID
AND P.TSMWELL_IS_NUMBER=W.TSMWELL_IS_NUMBER(+)
AND P.TSMWELL_ORG_ID=W.TSMWELL_ORG_ID(+)
AND P.TSMPIPE_IS_NUMBER=PI.TSMPIPE_IS_NUMBER(+)
AND P.TSMPIPE_ORG_ID=PI.TSMPIPE_ORG_ID(+)
AND P.GEOPSTNG_METHOD_CD=GM.ID_CODE(+)
AND GM.CATEGORY(+)='HORIZONTAL'
AND GM.SUBCATEGORY(+)='METHOD'
AND P.GEOPSTNG_DATUM_CD=GD.ID_CODE(+)
AND GD.CATEGORY(+)='HORIZONTAL'
AND GD.SUBCATEGORY(+)='DATUM'
AND P.ELVTN_METHOD_CD=EM.ID_CODE(+)
AND EM.CATEGORY(+)='VERTICAL'
AND EM.SUBCATEGORY(+)='METHOD'
AND P.ELEVATION_DATUM_CD=ED.ID_CODE(+)
AND ED.CATEGORY(+)='VERTICAL'
AND ED.SUBCATEGORY(+)='DATUM'

-- FORCING STATION LOCATION POINTS TO  BE SORTED BEFORE ACTIVITY
POINTS
ORDER BY
decode(rtrim(P.TYPE_CODE),'ACTIVITY POINT','ACTIVITY POINT', '
'||P.TYPE_CODE),
P.SEQUENCE_NUMBER,
A.TSRAAL_TYPE_NAME
```

ActivityDetailPersonnelsub.sql

```
SELECT
A.TSRFDACT_IS_NUMBER,
A.TSRFDACT_ORG_ID,
RTRIM(P.LAST_NAME) || ', ' || RTRIM(P.FIRST_NAME) FULLNAME

FROM
TSRFAPEA A,
TSMPERSN P

WHERE
A.TSMPERSN_IS_NUMBER = P.TSMPERSN_IS_NUMBER
AND A.TSMPERSN_ORG_ID = P.TSMPERSN_ORG_ID

ORDER BY
P.LAST_NAME,
P.FIRST_NAME
```

ActivityDetailCooperatingOrgsub.sql

```
SELECT
TSRFACOA.TSRFDACT_IS_NUMBER,
TSRFACOA.TSRFDACT_ORG_ID,
TSMCPORG.NAME NAME

FROM
TSRFACOA,
TSMCPORG

WHERE
((TSRFACOA.TSMCPORG_ORG_ID = TSMCPORG.TSMCPORG_ORG_ID)
 AND (TSRFACOA.TSMCPORG_IS_NUMBER =
TSMCPORG.TSMCPORG_IS_NUMBER))
ORDER BY
NAME
```

Select Options: Organizations, Trips, Stations
or
Organizations, Projects, Stations

Sort Sequence: By ascending Organization ID, by ascending Trip ID, by ascending Station ID, by ascending Visit Number, by ascending Activity ID, by ascending Activity Replicate Number.

- **S** by Station Location Point, then Activity Point; or Station Location Point, then Trawl Start Activity Point, then Trawl Stop Activity Point.
- **S** by ascending Personnel Performing Activity Last Name, by ascending First Name.
- **S** by ascending Cooperating Organization Performing Activity Name.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
T3 Field Trip Data Entry		TSRTRIP
Trip	ID	ID_CODE
	Trip Name	NAME
ST4 Station Data Entry		TSMSTATN
Station	ID	IDENTIFICATION_CD
	Name	NAME
SV3 Station Visit Data Entry		TSRSTVST
Visit #	Visit Number	ID_NUMBER
Arrive	Arrival Date and Time, MM-DD-YYYY	ARRIVAL_DATE
	Arrival Date and Time, HH:MM:SS	ARRIVAL_TIME
	Arrival Date and Time, Zone	ARRIVAL_TIME_ZONE
Depart	Departure Date and Time, MM-DD-YYYY	DEPARTURE_DATE
	Departure Date and Time, HH:MM:SS	DEPARTURE_TIME
	Departure Date and Time, Zone	DEPRTURE_TIME_ZONE
Comments	Station Conditions and Other Comments	COMMENT_TEXT
FA3 Field Measurement/Observation Data Entry **FA2 Sample Data Entry** **SV5 Activity Type Selection** **FA16 Field Activity Depth and Stratification Data Entry** **FA10 Sample Handling, Transport and Storage Data Entry**		TSRFDACT
Activity ID, Assigned Parent(s) /repl, Rep #	ID	ID_CODE
	Replicate Number	REPLICATE_NUMBER
N/A	Activity Type	TYPE_NAME
N/A	Medium	MEDIUM_TYPE_NAME
N/A, Category	Activity Category	CATEGORY_TYPE_NAME
N/A	Intent	INTENT_TYPE_NAME
N/A	Community	COMMUNITY_NAME
N/A	Species Number	SPECIES_NUMBER
QC	QC	QC_INDICATOR
Chain of Custody	Chain of Custody ID	CHAIN_OF_CUSTODY_ID
Start	Start, MM-DD-YYYY, Activity	START_DATE
	Start, HH:MM:SS, Activity	START_TIME
	Start, Zone, Activity	START_TIME_ZONE
Stop	Stop, MM-DD-YYYY, Activity	STOP_DATE
	Stop, HH:MM:SS, Activity	STOP_TIME
	Stop, Zone, Activity	STOP_TIME_ZONE
Document/Graphic	Document/Graphic	BLOB_TITLE
Comments	Comments	COMMENT_TEXT
Sample Depth	Depth to Activity, Depth	DEPTH_TO_ACTIVITY
		DEPTH_TO_ACT_UN_CD

Report Heading	Prompt Name	Oracle Name
Relative Depth	Depth to Activity, Relative Depth	RELTV_DEPTH_NAME
Sample Upper Depth	Depth Range for Activity, Upper Depth	UPPER_DEPTH_TO_ACT
Sample Lower Depth	Depth Range for Activity, Lower Depth	LOWER_DEPTH_TO_ACT
N/A	N/A (Unit for Upper Lower Depth)	DEPTH_MSR_UNT_CD
Depth Measured From	Depth Measured From	DEPTH_REF_POINT
Zone Type	Zone Type	ZONE_TYPE_NAME
Thermocline	Thermocline	THERMOCLINE_LOC_CD
Halocline	Halocline	HALOCLINE_LOC_CD
Pycnocline	Pycnocline	PYCNOCLINE_LOC_CD
		TSRMATRX
Sample Matrix	Matrix	NAME
		TSRCHAR
N/A	Subject Taxon	DISPLAY_NAME
		TSRBIOPT
Bio Part	Bio Part	NAME
		TSRCHGRP
Habitat Scheme	Name	NAME
		TSMPRMVL
Container	Type	CONTAINER_TYPE_NM
	Color	CONTAINER_COLOR
	Temperature Preservation Type	TEMP_PRESERVN_TYPE
		TSRSMPLE
	Size	CONTAINER_SIZE_MSR
		CONTAINER_SIZE_UN
Chem. Preservation	Chemical Preservation and Storage Procedure	PRESRV_STRGE_PRCDR
Transport/Storage	Transport and Storage Comments	TRANSPORT_STORAGE
Duration	Date and Time, Duration	DURATION_TIME
	Date and Time, Units	DURATION_UNITS
Total Volume	Total Sample, Volume	TOTAL_VOLUME_MSR
		TOTAL_VOLUME_UN_CD
Total Weight	Total Sample, Weight	TOTAL_WEIGHT_MSR
		TOTAL_WEIGHT_UN_CD
Data Log	Data Log Name and Location	DATA_FILE_NAME_LOC
FA7 Field Activity Procedure Data Entry		TSRFLDPR
Procedure	Procedure	ID_CODE
		NAME
		TSRFLDGR
Gear	Gear	ID_CODE
		NAME
		TSRGRCFG
Gear Config.	Gear	ID_CODE
		NAME
Description	Description Text	DESCRIPTION_TEXT

Report Heading	Prompt Name	Oracle Name
		TSMGNTXT
Specifications	Specifications	DESCRIPTION_TEXT
		TSRSMPLE
Comments	Gear Deployment Comments	GEAR_DEPLOYMENT
FA12 Field Activity Absolute Location Data Entry **FA13 Trawl/Horizontal Tow Actual Location Data Entry** **FA14 Absolute Location Point Selection List** **AL2 Absolute Location Data Entry**		TSMALP
Location Type	Type	TYPE_CODE
Seq #	Sequence No.	SEQUENCE_NUMBER
Point Name	Point Name	POINT_NAME
Latitude (;)	Latitude	LAT_DEGREE_MSR
		LAT_MINUTE_MSR
		LAT_SECOND_MSR
		LAT_DIRECTION
	Decimal Minutes	GPS_LAT_DEGREE_MSR
		GPS_LAT_MINUTE_MSR
	Decimal Degrees	LAT_DEC_DEG_MSR
Longitude (;)	Longitude	LONG_DEGREE_MSR
		LONG_MINUTE_MSR
		LONG_SECOND_MSR
		LONG_DIRECTION
	Decimal Minutes	GPS_LONG_DEG_MSR
		GPS_LONG_MIN_MSR
	Decimal Degrees	LONG_DEC_DEG_MSR
Geopositioning, Scale	Geopositioning, Scale	GEOPSTNG_SCALE_TXT
Geopositioning, Measurement Date	Geopositioning, Measurement Date	LAT_LONG_MSR_DT
Elevation Measure	Measure	ELEVATION_MSR
		ELVTN_UNT_CD
Measurement Date	Measurement Date	ELVTN_MSR_DT
		TSMMAD
Geopositioning, Method Geopositioning, Datum Method Datum	Geopositioning, Method Geopositioning, Datum Method Datum	DESCRIPTION
		TSRAAL
Location Comments	Additional Location Information	ADDTNL_LOC_INFO
N/A	N/A	TSRAAL_TYPE_NAME
Depth to Bottom	Depth to Bottom	BOTTOM_DEPTH_MSR
		BOTTOM_DEPTH_UN_CD
WL3 Well Data Entry		TSMWELL
Well #	Well Number	ID_NUMBER
PI2 Pipe Data Entry		TSMPIPE
Pipe #	Pipe Number	ID_NUMBER

Report Heading	Prompt Name	Oracle Name
FA17 Trap and Net Operational Details Data Entry		TSRTNOD
Trawl and Net	Sampling Duration	SMPLNG_DURATN_MSR
		SMPLNG_DRTN_UNT_CD
Current	Relative Current Direction	REL_CURRENT_DIR
Wind	Relative Wind Direction	REL_WIND_DIR
Orientation	Orientation to Current	ORIENTN_TO_CURRENT
Comments	Comments	COMMENT_TEXT
FA18 Trawl/Horizontal Tow Operational Details Data Entry		TSRTOD
Duration	Fished Duration	FISHED_DURATN_MSR
		FISHD_DURTN_UNT_CD
Distance	Fished Distance	FISHED_DISTANCE
		FISHED_DISTANCE_UN
Boat Speed	Boat Speed	BOAT_SPEED_MSR
		BOAT_SPEED_UN_CD
Wind (“deg” as unit)	Relative Wind Direction	REL_WIND_DIR
Current (“deg” as unit)	Relative Current Direction	REL_CURRENT_DIR
Comments	Comments	COMMENT_TEXT
FA19 Electroshock Operational Details Data Entry		TSREOD
Voltage	Voltage	VOLTAGE_MEASURE
Amperage	Amperage	AMPERAGE_MEASURE
Current Type	Current Type	CURRENT_TYPE_CODE
Pulse Rate (“per second” as unit)	Pulse Rate	PULSE_RATE_MSR
# of Passes	Number of Passes	PASS_COUNT
Pass Length	Length of Pass	PASS_LENGTH_MSR
		PASS_LENGTH_UN_CD
Time Energized	Total Energized Time	TOTAL_ENERGZD_TIME
		ENERGZD_TIME_UNITS
Comments	Comments	COMMENT_TEXT
FA20 Field Activity Personnel Assignment		TSMPERSN
Personnel Performing Activity	Personnel Perfoming Activity, Name	FIRST_NAME
		LAST_NAME
FA24 Field Activity Cooperating Organizations Assignment		TSMCPORG
Cooperating Organizations Performing Activity	Cooperating Organizations Performing Activity	NAME

EXAMPLE

Activity Details

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Trip 02-1991-1 Monthly Sampling-February-1

Station CBC-001 Easton Public Drinking Supply

Visit # 1 **Arrive** 02/02/1991 10:00:00 EST **Depart** 02/02/1991 10:00:00 EST
Comments Arrived on station at 100 hours, seas 1-2 ft, wind out of the North at 12kt.

Activity ID 02-91-003-01 Sample **Start** 02/02/1991 10:15:00 EST
(QC) Biological Routine Sample **Stop** 02/02/1991 10:40:00 EST
Taxon Abundance Phytoplankton/Zooplankton
Duration 555 Days **Total Volume** 12345.67 gal **Total Weight** 12345.67 mg
Data Log This is the data log name and location information.
Document/Graphic Document or Graphic Title
Comments This vertical plankton tow was conducted during high winds and 2.5 ft seas.

Sample Collection/Creation Procedures SP-001 / Water Grab Sampling
Gear WSNA / Nansen Bottle
Gear Config. CBG-001 / 1 Liter-S/N-239876
Specifications This is the standard Wisconsin Plankton net- with a .25 mm cod end.
Gear Comments Seas were 3-4ft. Had a hard time setting depth for sample; sample depth may be off by as much as 2.5 ft.

Sample Preservation, Transport, and Storage
Container Polypropylene Bottle Translucnt 1234.56 gal Refrigerated/Cooled
Chem. Preservation Cool to 4 deg C, adjust pH<2.0 with H2SO4
Transport/Storage Sample was decanted into sample container, which had been flushed twice with station water. Sample was fixed and placed into the sample rack.

Activity Location
Location Type BOUNDARY **Seq. #** 2
Point Name Boundary Point Name
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 76 05 00.0000 W (76 05.0000; -76.0833333)
Location Comments There are no additional location comments of any consequence that should be noted in this wrapping text

Location Type ACTIVITY POINT
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 76 05 00.0000 W (76 05.0000; -76.0833333)
Geopositioning
Method Address Matching-Nearest Intersection
Datum North American Datum 1993
Scale 1:24,000 **Measurement Date** 12/09/1991
Elevation Measure 12345.6789 ft **Measurement Date** 10/10/1991
Method Algorithm conversion from State Plane Coordinate System
Datum Local Tidal Datum

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Activity Location
Location Type WELL HEAD **Well #** A632-0144C
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 76 05 00.0000 W (76 05.0000; -76.0833333)
Location Comments There are no additional location comments of any consequence that should be noted in this wrapping text

Location Type ACTIVITY POINT — Trawl Start
Point Name Activity Point Point Name
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 76 05 00.0000 W (76 05.0000; -76.0833333)
Depth to Bottom 55555.55 ft
Geopositioning
Method Address Matching-Nearest Intersection
Datum North American Datum 1993

Location Type ACTIVITY POINT — Trawl Stop
Latitude 38 47 30.0000 N (38 47.5000; 38.7916667)
Longitude 76 05 00.0000 W (76 05.0000; -76.0833333)
Depth to Bottom 55555.55 ft
Geopositioning
Method Address Matching-Nearest Intersection
Datum North American Datum 1993

Activty Depth and Stratification
Zone Type Mesolimnion **Thermocline** Above **Halocline** Above **Pycnocline** Above
Sample Depth 12345.67 ft **Relative Depth** Near Bottom
Depth Measured From Up to 30 characters for depth.

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Zone Type Mesolimnion **Thermocline** Above **Halocline** Above **Pycnocline** Above
Sample Upper Depth 12345.67 ft
Sample Lower Depth 23456.78 ft
Depth Measured From Up to 30 characters for depth.

Operational Details
Duration 15.00 minutes **Wind** 45 deg **Current** 90 deg **Orientation** Cross Current
Comments This was a vertical plankton tow.

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Duration 10.00 minutes **Wind** 35 deg **Current** 180 deg **Boat Speed** 2.0 knots
Distance 1.0 nmi
Comments Comments for the Trawl/Horizontal Tow Operational Details.

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Voltage 200.000 AC **Amperage** 64.000 **Pulse Rate** 60 per second
# of Passes 5 **Pass Length** 25. ft **Time Energized** 10 minutes
Comments We used the "deep fry" option of the Manning 2000. This worked extremely well. All fish were re-assembled prior to weighing and measuring in accordance with the operation manual which came with the electroshock unit.

Personnel Performing Activity Brady, Don
Craig, Dora

Cooperating Organizations Performing Activity Kodiak Bears of Northern Virginia
Systems Development Center
WWWWWWWWWWWWWWWWWWWWWWWWWW
WWWWWWWWWWWWWWWWWWWWWWWWWW
WWWEND

Activity ID 02-91-003-01 Sample **Start** 02/02/1991 10:15:00 EST
Water Routine Sample **Stop** 02/02/1991 10:40:00 EST
Comments This vertical plankton tow was conducted during high winds and 2.5 ft seas.

Activity ID XXXXXXXXXXXXX / repl 123 Sample **Start** 02/02/1991 10:15:00 EST
Biological Routine Sample **Stop** 02/02/1991 10:40:00 EST
Tissue
Oncorhynchus Mykiss sp. 1 **Bio Part** Ear
Comments This vertical plankton tow was conducted during high winds and 2.5 ft seas.

Activity ID WS-01-15-02 Sample **Start** 02/02/1991 10:15:00 EST
Water Routine Sample **Stop** 02/02/1991 10:40:00 EST
Sample Matrix Water Filter (Solid Material used to filter Water)
Chain of Custody Chain of Custody
Comments This vertical plankton tow was conducted during high winds and 2.5 ft seas.

Activity ID 02-91-003-01 / repl 1 Field Msr/Obs **Start** 02/02/1991 10:45:00 EST
Routine Habitat Assessment **Stop** 02/02/1991 11:00:00 EST
Habitat Scheme Manning/King Ecosystem Health
Comments This habitat assessment was conducted during an all day rain shower making positive identifications difficult.

Activity ID XXXXXXXXXXXXX Sample **Start** 02/02/1991 10:15:00 EST
Biological Created from Sample **Stop** 02/02/1991 10:40:00 EST
Tissue
Oncorhynchus Mykiss sp. 1 **Bio Part** Ear

Assigned Parent(s)	Category	Rep #	Start date	Start Time
02-91-003-01	Field Replicate	2	12-03-2001	12:12:01

Comments This vertical plankton tow was conducted during high winds and 2.5 ft seas.

Activity ID ZZZZZZZZZZZZZZ Sample **Start** 02/02/1991 10:15:00 EST
Biological Composite-with Parents **Stop** 02/02/1991 10:40:00 EST
Tissue
Oncorhynchus Mykiss sp. 1 **Bio Part** Ear

Assigned Parent(s)	Category	Rep #	Start date	Start Time
02-91-003-01	Field Replicate	2	12-03-2001	12:12:01
02-91-003-02	Integrated Flow Proportioned		01-05-2000	03:11:00

Comments This vertical plankton tow was conducted during high winds and 2.5 ft seas.

Trip 02-1991-2 Monthly Sampling-February-1

Result Details

Report Description: This report provides detailed information on the results for each characteristic measured for each activity.

The following fields will be hidden if there is no data.

- All Comment fields.
- Medium.
- Sample Matrix.
- Intent.
- Community.
- Bio Part.
- Subject Taxon.
- (QC) (activity indicator).
- Chain of Custody.
- Field Set information (Identified or Assigned).
- Habit.
- Voltinism.
- Document/Graphic.
- Field/Lab Procedure, Lab Sample Prep.
- Detection Condition.
- # of Replicates, Detection Condition, Particle Size Basis.
- Bias, Confidence Corrected for Bias.
- Duration Basis, Weight Basis, Temp. Basis.
- Lab, Lab Batch ID, Lab Date and Time, Certification, Result Limits, Detection Limits, Description.
- Lab Remarks.
- QC Adjustment Factors: Dilution, Correction, Recovery, Type information.
- Data Line Number, Data Line Name.

Special separators:

- 8 inch centered line at the beginning of each Station.
- 7 inch centered line at the beginning of each Activity.
- Hairline above each columnar row.

Selected Projects will be interrogated against Projects assigned to Activities.

Trips with no assigned Stations will not appear on report.

Select Logic: **FD.sql**

```
SELECT
O.ORG_ID,
RTRIM(O.NAME) ORG_NAME,
T.ID_CODE TRP_ID,
```

```
DECODE(T.ID_CODE, NULL, NULL, RTRIM(T.ID_CODE) ||  '       ' ||
RTRIM(T.NAME)) TRP,
DECODE(S.IDENTIFICATION_CD, NULL,NULL, RTRIM(S.IDENTIFICATION_CD)
|| '       ' || RTRIM(S.NAME)) STATION,
V.ID_NUMBER VISIT_ID,
DECODE(TO_CHAR(V.ARRIVAL_DATE, 'MM/DD/YYYY'),'01/01/0001',NULL,(
TO_CHAR( V.ARRIVAL_DATE, 'MM/DD/YYYY') || '  ' ||
(DECODE(TO_CHAR(V.ARRIVAL_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(
V.ARRIVAL_TIME,'HH24:MI:SS'))) || '  ' || V.ARRIVAL_TIME_ZONE)) V_ARRIVAL,
DECODE(TO_CHAR( V.DEPARTURE_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,(
TO_CHAR( V.DEPARTURE_DATE, 'MM/DD/YYYY')  || '  ' ||
(DECODE(TO_CHAR(V.DEPARTURE_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CH
AR(V.DEPARTURE_TIME,'HH24:MI:SS'))) || '  ' || V.DEPRTURE_TIME_ZONE))
V_DEPARTURE,
F.TSRFDACT_IS_NUMBER,
F.TSRFDACT_ORG_ID,
DECODE(F.ID_CODE,  NULL, NULL, RTRIM(F.ID_CODE) ||
DECODE(F.REPLICATE_NUMBER, 0,'', ' / repl '||F.REPLICATE_NUMBER)) FDID,
F.QC_INDICATOR QC,
F.TYPE_NAME ACTTYPE,
DECODE(TO_CHAR(F.START_DATE, 'MM/DD/YYYY'),'01/01/0001',NULL,(
TO_CHAR( F.START_DATE, 'MM/DD/YYYY')  || '  ' ||
(DECODE(TO_CHAR(F.START_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.S
TART_TIME,'HH24:MI:SS'))) || '  ' || F.START_TIME_ZONE)) Strt,
DECODE(TO_CHAR( F.STOP_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,(
TO_CHAR( F.STOP_DATE, 'MM/DD/YYYY')  || '  ' ||
(DECODE(TO_CHAR(F.STOP_TIME,
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.STOP_TIME,'HH24:MI:SS'))) || '  ' ||
F.STOP_TIME_ZONE)) Stp,
F.CATEGORY_TYPE_NAME FDCAT,
F.REPLICATE_NUMBER,
F.INTENT_TYPE_NAME FDINT,
F.MEDIUM_TYPE_NAME FDMDM,
F.COMMUNITY_NAME,
F.COMMENT_TEXT "COMMENT",
F.SPECIES_NUMBER,
F.CHAIN_OF_CUSTODY_ID CUSTODY,
B.NAME BNAME,
J.IDENTIFICATION_CD PRJ_ID,
C.DISPLAY_NAME  SUBJECT_TAXON,
M.NAME SAMPLE_MATRIX

FROM
TSMORGAN O,
TSRTRIP T,
TSRTSA TSA,
TSMSTATN S,
TSRSTVST V,
TSMVSTC STC,
TSRFDACT F,
TSRBIOPT B,
TSRFAPRA A,
TSMPROJ J  ,
```

```
TSRCHAR C,
TSRMATRX M

WHERE
O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER(+)
AND T.TSRTRIP_IS_NUMBER = TSA.TSRTRIP_IS_NUMBER(+)
AND T.TSRTRIP_ORG_ID = TSA.TSRTRIP_ORG_ID(+)
AND O.ORG_ID = S.TSMSTATN_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER(+)
AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID (+)
AND S.TSMVSTC_IS_NUMBER = STC.TSMVSTC_IS_NUMBER(+)
AND S.TSMVSTC_ORG_ID = STC.TSMVSTC_ORG_ID(+)
AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER(+)
AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID(+)
AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER(+)
AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID(+)
AND V.TSRSTVST_IS_NUMBER = F.TSRSTVST_IS_NUMBER(+)
AND V.TSRSTVST_ORG_ID = F.TSRSTVST_ORG_ID(+)
AND F.TSRBIOPT_IS_NUMBER =B.TSRBIOPT_IS_NUMBER(+)
AND F.TSRBIOPT_ORG_ID=B.TSRBIOPT_ORG_ID(+)
AND F.TSRFDACT_IS_NUMBER = A.TSRFDACT_IS_NUMBER(+)
AND F.TSRFDACT_ORG_ID = A.TSRFDACT_ORG_ID(+)
AND F.TSRCHAR_IS_NUMBER = C.TSRCHAR_IS_NUMBER(+)
AND F.TSRCHAR_ORG_ID = C.TSRCHAR_ORG_ID(+)
AND A.TSMPROJ_IS_NUMBER = J.TSMPROJ_IS_NUMBER(+)
AND A.TSMPROJ_ORG_ID = J.TSMPROJ_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER =  M.TSRMATRX_IS_NUMBER(+)
&P_ORG &P_TRP &P_STN &P_PRJ

ORDER BY
O.ORG_ID,
T.ID_CODE,
S.IDENTIFICATION_CD,
V.ID_NUMBER,
F.ID_CODE,
F.REPLICATE_NUMBER
```

ResultDetailPrjsub.sql

```
SELECT  A.TSRFDACT_IS_NUMBER, A.TSRFDACT_ORG_ID,
J.IDENTIFICATION_CD FDPRJ_ID, RTRIM(J.NAME) FDPRJ_NAME
FROM TSRFAPRA A, TSMPROJ J
WHERE A.TSMPROJ_IS_NUMBER= J.TSMPROJ_IS_NUMBER AND
A.TSMPROJ_ORG_ID=J.TSMPROJ_ORG_ID
ORDER BY J.IDENTIFICATION_CD
```

ResultDetailChemsub.sql

```
SELECT
R.TSRFDACT_IS_NUMBER TSRFDACT_IS_NUMBER,
R.TSRFDACT_ORG_ID TSRFDACT_ORG_ID,
C.DISPLAY_NAME DISPLAY_NAME,
R.TSRRSULT_IS_NUMBER TSRRSULT_IS_NUMBER,
R.TSRRSULT_ORG_ID TSRRSULT_ORG_ID,
R.SPECIES_NUMBER SPN,
```

```
RTRIM(R.VALUE_TEXT)  VALUE_TEXT,
RTRIM(U.SHORT_FORM_NAME) UNIT,
PV.FIELD_VALUE SMPL_FRAC,
DECODE(R.VALUE_STATUS,'F','Final','P','Preliminary')  VALUE_STATUS,
RTRIM(R.VALUE_TYPE_NAME) VALUE_TYPE,
R.STATISTIC_TYPE_NM STATISTIC_TYPE_NM,
RTRIM(R.PRECISION_AMT_TEXT) PRECISION,
DECODE(RTRIM(R.CONF_LVL_PCT_MSR), '', '',RTRIM(R.CONF_LVL_PCT_MSR)
|| '%') CONF_PCT,
R.BIAS BIAS,
DECODE(R.CONF_LVL_CORR_BIAS,'N','No','Y','Yes',NULL) CORR_BIAS,

DECODE(RTRIM(AP.PROCEDURE_ID), '', '',RTRIM(AP.SOURCE_ACR) || ' / ' ||
RTRIM(AP.PROCEDURE_ID)) PROC,
DECODE(RTRIM(PP.PREPARATION_ID), '', '', RTRIM(PP.SOURCE_ACR) || ' / ' ||
RTRIM(PP.PREPARATION_ID)) LSP,
R.REPL_ANALYSIS_NUM REPL_ANALYSIS_NUM,
R.DETECT_COND_CD DETECT_COND_CD,
RTRIM(RCI.PARTICLE_SIZE_BASIS)  PARTICLE_SIZE_BASIS,
R.REF_PT_FROM_NAME REF_PT_FROM,
R.REF_PT_TO_NAME REF_PT_TO,
RTRIM(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(R.WT_BASIS_TYPE_NM) WT_BASIS,
RTRIM(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
R.BLOB_TITLE RSLT_DOC,
TXT.DESCRIPTION_TEXT RSLT_COMMENT,

DECODE(L.ID_CODE, NULL,NULL, RTRIM(L.ID_CODE)) LAB_CODE,
RTRIM(L.NAME) LAB,
R.LAB_BATCH_ID_CODE LAB_BATCH,
DECODE(R.LAB_CERT_IND_CODE,'N','No','Y','Yes')  LAB_CERT,
DECODE(TO_CHAR( R.ANALYSIS_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,(
TO_CHAR(R.ANALYSIS_DATE, 'MM/DD/YYYY')  || '  ' ||
(DECODE(TO_CHAR(R.ANALYSIS_TIME,
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(R.ANALYSIS_TIME,'HH24:MI:SS')))|| '  ' ||
R.ANALYSIS_TIME_ZONE)) ANALYSIS_DATE,
DQ.MIN_QUANT_LIMIT MIN_QUANT_LIMIT,
DQ.MAX_QUANT_LIMIT MAX_QUANT_LIMIT,
DECODE(RTRIM(DQ.MIN_DETECT_LIMIT), NULL, NULL,
RTRIM(DQ.MIN_DETECT_LIMIT)) MIN_DETECT_LIMIT,
RTRIM(UDQ.SHORT_FORM_NAME) DETECT_LIMIT_UNIT,
DQ.DESCRIPTION_TEXT DQ_DESCRIPTION,

DECODE(R.DILUTION_IND_CODE,'N','No','Y','Yes') DILUTION_IND_CODE,
DECODE(R.CORRECTION_IND_CD,'N','No','Y','Yes') CORRECTION_IND_CD,
DECODE(R.RECOVERY_IND_CODE,'N','No','Y','Yes') RECOVERY_IND_CODE,

PV1.FIELD_VALUE QCAF_TYPE,
RTRIM(RQCAF.VALUE_TEXT)  QCAF_VALUE,
RTRIM(URQCAF.SHORT_FORM_NAME) QCAF_UNIT,
RQCAF.DESCRIPTION_TEXT QCAF_DESCRIPTION,
C.D_SCR_TYPE_CD TYPE_CD
```

```
FROM
TSRCHAR C,
TSRRSULT R,
TSRUOM U,
TSRANLPR AP,
TSRLSPP PP,
TSMGNTXT TXT,
TSRLAB L,
TSRDQL DQ,
TSRUOM UDQ,
TSRRQCAF RQCAF,
TSRUOM URQCAF ,
TSRRCI RCI,
TSMPRMVL PV,
TSMPRMVL PV1

WHERE
R.TSRCHAR_IS_NUMBER= C.TSRCHAR_IS_NUMBER(+)
AND R.TSRCHAR_ORG_ID = C.TSRCHAR_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER = U.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID = U.TSRUOM_ORG_ID(+)
AND R.TSRANLPR_IS_NUMBER = AP.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID = AP.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER = PP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID = PP.TSRLSPP_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = TXT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = TXT.TSRRSULT_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = DQ.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = DQ.TSRRSULT_ORG_ID(+)
AND DQ.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQ.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = RCI.TSRRSULT_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = RQCAF.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = RQCAF.TSRRSULT_ORG_ID(+)
AND RQCAF.TSRUOM_IS_NUMBER = URQCAF.TSRUOM_IS_NUMBER(+)
AND RQCAF.TSRUOM_ORG_ID = URQCAF.TSRUOM_ORG_ID(+)
AND RQCAF.TSMPRMVL_IS_NUMBER = PV1.TSMPRMVL_IS_NUMBER(+)
AND R.TSRFDACT_IS_NUMBER IS NOT NULL
AND R.TSRFDACT_ORG_ID IS NOT NULL
AND TXT.DESCRIPTION_NAME(+) <> 'PROCEXCP'
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
&P_CHAR

ORDER BY
C.DISPLAY_NAME,
PV1.FIELD_VALUE,
RQCAF.VALUE_TEXT
```

ResultDetailChemLbrmksub.sql

```
SELECT
R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID,
```

```
LBRMK.SHORT_NAME LBRMK_NAME,
LBRMK.DESCRIPTION_TEXT  LBRMK_DESC

FROM
TSRRSULT R,
TSRRLRA RLRA,
TSRLBRMK LBRMK

WHERE
R.TSRRSULT_IS_NUMBER = RLRA.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = RLRA.TSRRSULT_ORG_ID(+)
AND  RLRA.TSRLBRMK_IS_NUMBER =LBRMK.TSRLBRMK_IS_NUMBER(+)
AND RLRA.TSRLBRMK_ORG_ID = LBRMK.TSRLBRMK_ORG_ID(+)

ORDER BY
LBRMK.SHORT_NAME
```

ResultDetailMTCsub.sql

```
SELECT
G.TSRFDACT_IS_NUMBER MTC_TSRFDACT_IS_NUMBER,
G.TSRFDACT_ORG_ID MTC_TSRFDACT_ORG_ID,
LTRIM(RTRIM(G.ID_CODE)) MTC_GID,
G.TYPE_NAME MTC_GTYPE,
G.DESCRIPTION_TEXT MTC_GDESCRIPTION,
--f_char_name(r.tsrchar_is_number,r.tsrchar_org_id) MTC_CHAR,
C.DISPLAY_NAME MTC_CHAR,

R.TSRCHAR_IS_NUMBER MTC_TSRCHAR_IS_NUMBER,
R.TSRCHAR_ORG_ID MTC_TSRCHAR_ORG_ID,
R.TSRRSULT_IS_NUMBER MTC_TSRRSULT_IS_NUMBER,
R.TSRRSULT_ORG_ID MTC_TSRRSULT_ORG_ID,
R.SPECIES_NUMBER MTC_SPN,
RTRIM(R.VALUE_TEXT)  MTC_VALUE,
RTRIM(U.SHORT_FORM_NAME) MTC_UNIT,
DECODE(R.VALUE_STATUS,'F','Final','P','Preliminary') MTC_VALUE_STATUS,
R.VALUE_TYPE_NAME MTC_VALUE_TYPE,
R.STATISTIC_TYPE_NM MTC_STATISTIC_TYPE,
R.FNCTIONAL_FEED_GRP MTC_FNCTIONAL_FEED_GRP,
R.TAXON_POLLUTION MTC_TAXON_POLLUTION,
R.TROPHIC_LEVEL MTC_TROPHIC_LEVEL,
R.BLOB_TITLE MTC_DOC,
PV.FIELD_VALUE HABIT,
PV1.FIELD_VALUE VOLTINISM,
X.DESCRIPTION_TEXT MTC_RSLT_DESC,
DECODE(CL.CELL_TYPE_NM,'<Spaces>',NULL,CL.CELL_TYPE_NM)
MTC_CELL_FORM,
DECODE(CL.CELL_SHAPE_TYPE_NM,'<Spaces>',NULL,CL.CELL_SHAPE_TYPE_
NM) MTC_CELL_SHAPE,
DECODE(RTRIM(AP.PROCEDURE_ID), '', '',RTRIM(AP.SOURCE_ACR) || ' / ' ||
RTRIM(AP.PROCEDURE_ID)) MTC_PROCEDURE,
DECODE(RTRIM(PP.PREPARATION_ID), '', '', RTRIM(PP.SOURCE_ACR) || ' / ' ||
RTRIM(PP.PREPARATION_ID)) MTC_LSP,
```

```
DECODE(L.ID_CODE, NULL,NULL, RTRIM(L.ID_CODE)) MTC_LAB_CODE ,
RTRIM(L.NAME) MTC_LAB,
R.LAB_BATCH_ID_CODE MTC_LAB_BATCH,
DECODE(R.LAB_CERT_IND_CODE,'N','No','Y','Yes', NULL)  MTC_LAB_CERT,
DECODE(TO_CHAR( R.ANALYSIS_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,(
TO_CHAR(R.ANALYSIS_DATE, 'MM/DD/YYYY')  || '  ' ||
(DECODE(TO_CHAR(R.ANALYSIS_TIME,
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(R.ANALYSIS_TIME,'HH24:MI:SS')))|| '  ' ||
R.ANALYSIS_TIME_ZONE)) MTC_ANALYSIS_DATE,
DQ.MIN_QUANT_LIMIT MTC_MIN_QUANT_LIMIT,
DQ.MAX_QUANT_LIMIT MTC_MAX_QUANT_LIMIT,
DECODE(RTRIM(DQ.MIN_DETECT_LIMIT), NULL, NULL,
RTRIM(DQ.MIN_DETECT_LIMIT)) MTC_MIN_DETECT_LIMIT,
RTRIM(UDQ.SHORT_FORM_NAME) MTC_DETECT_LIM_UNIT,
DQ.DESCRIPTION_TEXT MTC_DQ_DESCRIPTION,

DECODE(R.DILUTION_IND_CODE,'N','No','Y','Yes') MTC_DILUTION_IND_CODE,
DECODE(R.CORRECTION_IND_CD,'N','No','Y','Yes')
MTC_CORRECTION_IND_CD,
DECODE(R.RECOVERY_IND_CODE,'N','No','Y','Yes')
MTC_RECOVERY_IND_CODE,
RQCAF.TSRRQCAF_IS_NUMBER, RQCAF.TSRRQCAF_ORG_ID,
PV2.FIELD_VALUE MTC_QCAF_TYPE,
RTRIM(RQCAF.VALUE_TEXT)  MTC_QCAF_VALUE,
RTRIM(URQCAF.SHORT_FORM_NAME) MTC_QCAF_UNIT,
RQCAF.DESCRIPTION_TEXT MTC_QCAF_DESCRIPTION

FROM
TSRCHAR C,
TSRRSULT R,
TSRBRG G,
TSRUOM U,
TSRCLDES CL,
TSMGNTXT X,
TSRANLPR AP,
TSRLSPP PP,
TSRLAB L,
TSRDQL DQ,
TSRUOM UDQ,
TSRRQCAF RQCAF,
TSRUOM URQCAF,
TSMPRMVL PV,
TSMPRMVL PV1,
TSMPRMVL PV2

WHERE
G.TSRBRG_IS_NUMBER = R.TSRBRG_IS_NUMBER(+)
AND G.TSRBRG_ORG_ID = R.TSRBRG_ORG_ID(+)
AND R.TSRCHAR_IS_NUMBER = C.TSRCHAR_IS_NUMBER(+)
AND R.TSRCHAR_ORG_ID = C.TSRCHAR_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER = U.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID = U.TSRUOM_ORG_ID(+)
```

```
AND R.TSRRSULT_IS_NUMBER = CL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = CL.TSRRSULT_ORG_ID(+)

AND R.TSRRSULT_IS_NUMBER = X.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = X.TSRRSULT_ORG_ID(+)
AND R.TSRANLPR_IS_NUMBER = AP.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID = AP.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER = PP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID = PP.TSRLSPP_ORG_ID(+)

AND R.TSRLAB_IS_NUMBER = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID = L.TSRLAB_ORG_ID(+)

AND R.TSRRSULT_IS_NUMBER = DQ.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = DQ.TSRRSULT_ORG_ID(+)
AND DQ.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQ.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = RQCAF.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = RQCAF.TSRRSULT_ORG_ID(+)
AND RQCAF.TSRUOM_IS_NUMBER = URQCAF.TSRUOM_IS_NUMBER(+)
AND RQCAF.TSRUOM_ORG_ID = URQCAF.TSRUOM_ORG_ID(+)
AND RQCAF.TSMPRMVL_IS_NUMBER = PV2.TSMPRMVL_IS_NUMBER(+)
AND R.TSMPRMVL0IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSMPRMVL1IS_NUMBER = PV1.TSMPRMVL_IS_NUMBER(+)
AND X.DESCRIPTION_NAME(+) <> 'PROCEXCP'
AND G.TYPE_NAME(+) = 'Multi-Taxon Population Census'
&P_CHAR

ORDER BY
G.ID_CODE,
PV2.FIELD_VALUE,
RQCAF.VALUE_TEXT
```

ResultDetailMTClabrmk.sql

```
SELECT
R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID,
LBRMK.SHORT_NAME MTC_LBRMK_NAME,
LBRMK.DESCRIPTION_TEXT MTC_LBRMK_DESC

FROM
TSRRSULT R,
TSRRLRA RLRA,
TSRLBRMK LBRMK

WHERE
R.TSRRSULT_IS_NUMBER = RLRA.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = RLRA.TSRRSULT_ORG_ID(+)
AND  RLRA.TSRLBRMK_IS_NUMBER =LBRMK.TSRLBRMK_IS_NUMBER(+)
AND RLRA.TSRLBRMK_ORG_ID = LBRMK.TSRLBRMK_ORG_ID(+)

ORDER BY
LBRMK.SHORT_NAME
```

ResultDetailSTBsub.sql

```
SELECT
G.TSRFDACT_IS_NUMBER STB_TSRFDACT_IS_NUMBER,
G.TSRFDACT_ORG_ID STB_TSRFDACT_ORG_ID,
G.ID_CODE STB_GID,
G.TYPE_NAME STB_GTYPE,
G.DESCRIPTION_TEXT STB_G_DESC,
C.DISPLAY_NAME STB_SUBJECT_TAXON,
G.SPECIES_NUMBER STB_SPN,
f_char_name(nvl(r.tsrchar_is_number,null),nvl(r.tsrchar_org_id,null))
STB_PRM_CLASS,
f_char_name(nvl(r.tsrchar0is_number,null),nvl(r.tsrchar0org_id,null))
STB_SND_CLASS,
R.VALUE_TYPE_NAME STB_COUNT_TYPE,
I.PRIM_CLASS_DESC STB_PRM_CLASS_DESC,
I.SEC_CLASS_DESC STB_SND_CLASS_DESC,
R.VALUE_TEXT STB_COUNT,
DECODE(R.VALUE_STATUS,'F','Final','P','Preliminary') STB_VALUE_STATUS

FROM
TSRCHAR C,
TSRRSULT R,
TSRBRG G,
TSRRCI I

WHERE
G.TSRCHAR_IS_NUMBER =  C.TSRCHAR_IS_NUMBER(+)
AND G.TSRCHAR_ORG_ID = C.TSRCHAR_ORG_ID (+)
AND G.TSRBRG_IS_NUMBER = R.TSRBRG_IS_NUMBER (+)
AND G.TSRBRG_ORG_ID = R.TSRBRG_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = I.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = I.TSRRSULT_ORG_ID(+)
AND G.TYPE_NAME(+)  = 'Single Taxon Frequency Classes'
AND G.TYPE_INDICATOR(+)  ='B'
&P_CHAR
ORDER BY
G.ID_CODE,
C.DISPLAY_NAME,
I.PRIM_CLASS_DESC,
I.SEC_CLASS_DESC
```

ResultDetailSTPsub.sql

```
SELECT
G.TSRFDACT_IS_NUMBER STP_TSRFDACT_IS_NUMBER,
G.TSRFDACT_ORG_ID STP_TSRFDACT_ORG_ID,
G.ID_CODE STP_GID,
G.TYPE_NAME STP_GTYPE,
G.DESCRIPTION_TEXT STP_G_DESC,
C.DISPLAY_NAME STP_SUBJECT_TAXON,
G.LIFE_STAGE_NAME STP_LIFE_STAGE,
DECODE(R.VALUE_STATUS,'F','Final','P','Preliminary') STP_VALUE_STATUS,
DECODE(R.VALUE_TYPE_NAME,' ',
R.VALUE_TYPE_NAME,R.VALUE_TYPE_NAME)  STP_COUNT_TYPE,
RTRIM(G.SEX_NAME) STP_SEX,
```

```
f_char_name(nvl(r.tsrchar_is_number,null),nvl(r.tsrchar_org_id,null)) STP_SUBJECT,
G.SPECIES_NUMBER STP_SPN,
RTRIM(U.SHORT_FORM_NAME) STP_UNIT,
I.LOWER_BND_AMT STP_LOWER,
I.UPPER_BND_AMT STP_UPPER,
R.VALUE_MEASURE STP_COUNT

FROM
TSRCHAR C,
TSRRSULT R,
TSRBRG G,
TSRUOM U

WHERE
G.TSRCHAR_IS_NUMBER = C.TSRCHAR_IS_NUMBER(+)
AND G.TSRCHAR_ORG_ID =C.TSRCHAR_ORG_ID(+)
AND G.TSRBRG_IS_NUMBER = R.TSRBRG_IS_NUMBER (+)
AND G.TSRBRG_ORG_ID = R.TSRBRG_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = I.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = I.TSRRSULT_ORG_ID (+)
AND I.TSRUOM_IS_NUMBER = U.TSRUOM_IS_NUMBER (+)
AND I.TSRUOM_ORG_ID = U.TSRUOM_ORG_ID (+)
AND G.TYPE_NAME(+)  = 'Single Taxon Frequency Classes'
AND G.TYPE_INDICATOR(+)  = 'P'
&P_CHAR
ORDER BY
G.ID_CODE,
C.DISPLAY_NAME,
I.LOWER_BND_AMT
```

ResultDetailSTSsub.sql

```
SELECT
G.TSRFDACT_IS_NUMBER STS_TSRFDACT_IS_NUMBER,
G.TSRFDACT_ORG_ID STS_TSRFDACT_ORG_ID,
G.ID_CODE STS_GID,
G.TYPE_NAME STS_G_TYPE,
G.SUMMARY_GRP_COUNT STS_TOTAL_IN_GRP,
G.DESCRIPTION_TEXT STS_G_DESC,
G.VALUE_TYPE_NAME STS_COUNT_TYPE,
f_char_name(g.tsrchar_is_number,g.tsrchar_org_id) STS_SUBJECT_TAXON,
--GC.DISPLAY_NAME STS_SUBJECT_TAXON,
G.SPECIES_NUMBER STS_SPN,

C.DISPLAY_NAME STS_CHAR,
R.TSRRSULT_IS_NUMBER STS_TSRRSULT_IS_NUMBER,
R.TSRRSULT_ORG_ID STS_TSRRSULT_ORG_ID,
RTRIM(R.VALUE_TEXT) STS_VALUE,
U.SHORT_FORM_NAME STS_UNIT,
DECODE(R.VALUE_STATUS,'F','Final','P','Preliminary') STS_VALUE_STATUS,
R.VALUE_TYPE_NAME STS_VALUE_TYPE,
R.STATISTIC_TYPE_NM STS_STATISTIC_TYPE,
R.WT_BASIS_TYPE_NM STS_WT_BASIS,
decode(c.d_scr_type_cd,'TEXT',txt.description_text,null) sts_txt_comment,
```

```
decode(c.d_scr_type_cd,'TEXT',null,txt.description_text) sts_rslt_comment,
R.BLOB_TITLE STS_DOC,

DECODE(RTRIM(AP.PROCEDURE_ID), '', ',RTRIM(AP.SOURCE_ACR) || ' / ' ||
RTRIM(AP.PROCEDURE_ID)) STS_PROCEDURE,
DECODE(RTRIM(PP.PREPARATION_ID), '', '', RTRIM(PP.SOURCE_ACR) || ' / ' ||
RTRIM(PP.PREPARATION_ID)) STS_LSP,

DECODE(L.ID_CODE, NULL,NULL, RTRIM(L.ID_CODE) ) STS_LAB_CODE,
RTRIM(L.NAME) STS_LAB,
R.LAB_BATCH_ID_CODE STS_LAB_BATCH,
DECODE(R.LAB_CERT_IND_CODE,'N','No','Y','Yes', NULL)  STS_LAB_CERT,
DECODE(TO_CHAR( R.ANALYSIS_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,(
TO_CHAR(R.ANALYSIS_DATE, 'MM/DD/YYYY')  || '  ' ||
(DECODE(TO_CHAR(R.ANALYSIS_TIME,
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(R.ANALYSIS_TIME,'HH24:MI:SS'))) || '  '
|| R.ANALYSIS_TIME_ZONE)) STS_ANALYSIS_DATE,

DQ.MIN_QUANT_LIMIT STS_MIN_QUANT_LIMIT,
DQ.MAX_QUANT_LIMIT STS_MAX_QUANT_LIMIT,
DECODE(RTRIM(DQ.MIN_DETECT_LIMIT), NULL, NULL,
RTRIM(DQ.MIN_DETECT_LIMIT)) STS_MIN_DETECT_LIMIT,
RTRIM(UDQ.SHORT_FORM_NAME) STS_DETECT_LIM_UNIT,
DQ.DESCRIPTION_TEXT STS_DQ_DESCRIPTION,

DECODE(R.DILUTION_IND_CODE,'N','No','Y','Yes') STS_DILUTION_IND_CODE,
DECODE(R.CORRECTION_IND_CD,'N','No','Y','Yes') STS_CORRECTION_IND_CD,
DECODE(R.RECOVERY_IND_CODE,'N','No','Y','Yes')
STS_RECOVERY_IND_CODE,

PV.FIELD_VALUE STS_QCAF_TYPE,
RTRIM(RQCAF.VALUE_TEXT)  STS_QCAF_VALUE,
RTRIM(URQCAF.SHORT_FORM_NAME) STS_QCAF_UNIT,
RQCAF.DESCRIPTION_TEXT STS_QCAF_DESCRIPTION

FROM
TSRCHAR C,
TSRRSULT R,
TSRBRG G,
--TSRCHAR GC,

TSRUOM U,
TSMGNTXT TXT,
TSRANLPR AP,
TSRLSPP PP,
TSRLAB L,
TSRDQL DQ,
TSRUOM UDQ,
TSRRQCAF RQCAF,
TSRUOM URQCAF,
TSMPRMVL PV

WHERE
G.TSRBRG_IS_NUMBER = R.TSRBRG_IS_NUMBER(+)
```

```
AND G.TSRBRG_ORG_ID = R.TSRBRG_ORG_ID(+)
AND R.TSRCHAR_IS_NUMBER = C.TSRCHAR_IS_NUMBER(+)
AND R.TSRCHAR_ORG_ID = C.TSRCHAR_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER = U.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID = U.TSRUOM_ORG_ID(+)

AND R.TSRRSULT_IS_NUMBER = TXT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = TXT.TSRRSULT_ORG_ID(+)

AND R.TSRANLPR_IS_NUMBER = AP.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID = AP.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER = PP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID = PP.TSRLSPP_ORG_ID(+)

AND R.TSRLAB_IS_NUMBER = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID = L.TSRLAB_ORG_ID(+)

AND R.TSRRSULT_IS_NUMBER = DQ.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = DQ.TSRRSULT_ORG_ID(+)
AND DQ.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQ.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = RQCAF.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = RQCAF.TSRRSULT_ORG_ID(+)
AND RQCAF.TSRUOM_IS_NUMBER = URQCAF.TSRUOM_IS_NUMBER(+)
AND RQCAF.TSRUOM_ORG_ID = URQCAF.TSRUOM_ORG_ID(+)
AND RQCAF.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND G.TYPE_NAME(+) = 'Single Taxon Group Summary'
AND  TXT.DESCRIPTION_NAME(+)  <> 'PROCEXCP'

&P_CHAR
ORDER BY
G.ID_CODE,
C.DISPLAY_NAME,
PV.FIELD_VALUE,
RQCAF.VALUE_TEXT
```

ResultDetailSTSLbrmksub.sql

```
SELECT
R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID,
LBRMK.SHORT_NAME STS_LBRMK_NAME,
LBRMK.DESCRIPTION_TEXT  STS_LBRMK_DESC

FROM
TSRRSULT R,
TSRRLRA RLRA,
TSRLBRMK LBRMK

WHERE
R.TSRRSULT_IS_NUMBER = RLRA.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = RLRA.TSRRSULT_ORG_ID(+)
AND  RLRA.TSRLBRMK_IS_NUMBER =LBRMK.TSRLBRMK_IS_NUMBER(+)
AND RLRA.TSRLBRMK_ORG_ID = LBRMK.TSRLBRMK_ORG_ID(+)
```

```
ORDER BY
LBRMK.SHORT_NAME
```

ResultDetailSTIsub.sql

```
SELECT   DISTINCT
G.TSRFDACT_IS_NUMBER STI_TSRFDACT_IS_NUMBER,
G.TSRFDACT_ORG_ID STI_TSRFDACT_ORG_ID,
G.ID_CODE STI_GID,
G.TYPE_NAME STI_GTYPE,
f_char_name(g.tsrchar_is_number,g.tsrchar_org_id) STI_SUBJECT_TAXON,
G.SPECIES_NUMBER STI_SPN,
G.SUMMARY_GRP_COUNT STI_GRP_COUNT,
G.DESCRIPTION_TEXT STI_G_DESC,
GI.INDIVIDUAL_NUMBER STI_INDIVIDUAL_N,
C.DISPLAY_NAME STI_CHAR,
RTRIM(R.VALUE_TEXT) STI_VALUE,
U.SHORT_FORM_NAME STI_UNIT,
DECODE(R.VALUE_STATUS,'F','Final','P','Preliminary') STI_VALUE_STATUS,
R.VALUE_TYPE_NAME STI_VALUE_TYPE,
R.WT_BASIS_TYPE_NM STI_WT_BASIS,
decode(c.d_scr_type_cd,'TEXT',txt.description_text,null) sti_txt_comment,
decode(c.d_scr_type_cd,'TEXT',null,txt.description_text) sti_rslt_comment,

DECODE(RTRIM(AP.PROCEDURE_ID), '', '',RTRIM(AP.SOURCE_ACR) || ' / ' ||
RTRIM(AP.PROCEDURE_ID)) STI_PROCEDURE,
DECODE(RTRIM(PP.PREPARATION_ID), '', '', RTRIM(PP.SOURCE_ACR) || ' / ' ||
RTRIM(PP.PREPARATION_ID)) STI_LSP,
R.BLOB_TITLE STI_DOC

FROM
TSRCHAR C,
TSRRSULT R,
TSRBRG G,
TSRBRGI GI,
TSRUOM U,
TSMGNTXT TXT,
TSRANLPR AP,
TSRLSPP PP

WHERE
G.TSRBRG_IS_NUMBER =  GI.TSRBRG_IS_NUMBER(+)
AND G.TSRBRG_ORG_ID = GI.TSRBRG_ORG_ID(+)
AND R.TSRCHAR_IS_NUMBER =  C.TSRCHAR_IS_NUMBER (+)
AND R.TSRCHAR_ORG_ID = C.TSRCHAR_ORG_ID (+)
AND GI.TSRBRGI_IS_NUMBER = R.TSRBRGI_IS_NUMBER(+)
AND GI.TSRBRGI_ORG_ID = R.TSRBRGI_ORG_ID (+)
AND R.TSRUOM_IS_NUMBER = U.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID = U.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = TXT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = TXT.TSRRSULT_ORG_ID(+)
AND R.TSRANLPR_IS_NUMBER = AP.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID = AP.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER = PP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID = PP.TSRLSPP_ORG_ID(+)
```

```
AND G.TYPE_NAME = 'Single Taxon Individuals'
AND TXT.DESCRIPTION_NAME(+) <> 'PROCEXCP'

&P_CHAR
ORDER BY
G.ID_CODE,
GI.INDIVIDUAL_NUMBER,
C.DISPLAY_NAME
```

ResultDetailHabitatsub.sql

```
SELECT   DISTINCT
p.tsrchgrp_is_number,
p.tsrchgrp_org_id,
F.TSRFDACT_IS_NUMBER,
F.TSRFDACT_ORG_ID,
P.NAME GRPNAME,
H.DESCRIPTION_TEXT,
RTRIM( R.VALUE_TEXT) HABITAT_VALUE,
H.CHARACTERSTC_NAME HABITAT_CHAR,
R.BLOB_TITLE HABITAT_DOC

FROM
TSRFDACT F,
TSRRSULT R,
TSRHCSC H,
TSRCHGRP P

WHERE
F.TSRFDACT_IS_NUMBER=R.TSRFDACT_IS_NUMBER(+)
AND F.TSRFDACT_ORG_ID=R.TSRFDACT_ORG_ID(+)
AND R.TSRHCSC_IS_NUMBER=H.TSRHCSC_IS_NUMBER(+)
AND R.TSRHCSC_ORG_ID=H.TSRHCSC_ORG_ID(+)
AND H.TSRCHGRP_IS_NUMBER= P.TSRCHGRP_IS_NUMBER(+)
AND H.TSRCHGRP_ORG_ID = P.TSRCHGRP_ORG_ID(+)
AND F.TYPE_NAME='Field Msr/Obs'
AND F.MEDIUM_TYPE_NAME<> 'Biological'
AND F.CATEGORY_TYPE_NAME IN('Routine Habitat Assessment', 'Replicate
Habitat Assessment')
and habitat_assess_ind = 'Y'
and p.char_defined_ind = 'U'
ORDER BY H.CHARACTERSTC_NAME
```

ResultDetailPortableDLsub.sql

```
SELECT
C.DISPLAY_NAME DL_CHAR,
C.D_SCR_TYPE_CD DL_TYPE_CD,
R.TSRRSULT_IS_NUMBER DL_TSRRSULT_IS_NUMBER,
R.TSRRSULT_ORG_ID DL_TSRRSULT_ORG_ID,
RTRIM(R.VALUE_TEXT)  DL_VALUE_TEXT,
DECODE(R.VALUE_STATUS,'F','Final','P','Preliminary')  DL_VALUE_STATUS,
RTRIM(R.VALUE_TYPE_NAME) DL_VALUE_TYPE,
RTRIM(U.SHORT_FORM_NAME) DL_UNIT,
RTRIM(PV.FIELD_VALUE) DL_SMPL_FRAC,
R.STATISTIC_TYPE_NM DL_STATISTIC_TYPE_NM,
```

```
RTRIM(R.PRECISION_AMT_TEXT) DL_PRECISION,
DECODE(RTRIM(R.CONF_LVL_PCT_MSR), '', '',RTRIM(R.CONF_LVL_PCT_MSR)
|| '%') DL_CONF_PCT,
R.BIAS DL_BIAS,
DECODE(R.CONF_LVL_CORR_BIAS,'N','No','Y','Yes',NULL) DL_CORR_BIAS,

R.REPL_ANALYSIS_NUM DL_REPL_ANALYSIS_NUM,
R.DETECT_COND_CD DL_DETECT_COND_CD,
RTRIM(RCI.PARTICLE_SIZE_BASIS)  DL_PARTICLE_SIZE_BASIS,
R.REF_PT_FROM_NAME DL_REF_PT_FROM,
R.REF_PT_TO_NAME DL_REF_PT_TO,
RTRIM(R.DUR_BASIS_TYPE_NM) DL_DUR_BASIS,
RTRIM(R.WT_BASIS_TYPE_NM) DL_WT_BASIS,
RTRIM(R.TEMP_BASIS_LVL_NM) DL_TEMP_BASIS,
R.BLOB_TITLE DL_DOC,

DECODE(L.ID_CODE, NULL,NULL, RTRIM(L.ID_CODE)) DL_LAB_CODE,
RTRIM(L.NAME) DL_LAB,
R.LAB_BATCH_ID_CODE DL_LAB_BATCH,
DECODE(R.LAB_CERT_IND_CODE,'N','No','Y','Yes')  DL_LAB_CERT,
DECODE(TO_CHAR( R.ANALYSIS_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,(
TO_CHAR(R.ANALYSIS_DATE, 'MM/DD/YYYY')  || '  ' ||
(DECODE(TO_CHAR(R.ANALYSIS_TIME,
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(R.ANALYSIS_TIME,'HH24:MI:SS')))|| '  ' ||
R.ANALYSIS_TIME_ZONE)) DL_ANALYSIS_DATE,
DQ.MIN_QUANT_LIMIT DL_MIN_QUANT_LIMIT,
DQ.MAX_QUANT_LIMIT DL_MAX_QUANT_LIMIT,
DECODE(RTRIM(DQ.MIN_DETECT_LIMIT), NULL, NULL,
RTRIM(DQ.MIN_DETECT_LIMIT)) DL_MIN_DETECT_LIMIT,
RTRIM(UDQ.SHORT_FORM_NAME) DL_DETECT_LIM_UNIT,
DQ.DESCRIPTION_TEXT DL_DQ_DESCRIPTION,

DECODE(R.DILUTION_IND_CODE,'N','No','Y','Yes') DL_DILUTION_IND_CODE,
DECODE(R.CORRECTION_IND_CD,'N','No','Y','Yes') DL_CORRECTION_IND_CD,
DECODE(R.RECOVERY_IND_CODE,'N','No','Y','Yes')
DL_RECOVERY_IND_CODE,
RQCAF.TSRRQCAF_IS_NUMBER DL_TSRRQCAF_IS_NUMBER,
RQCAF.TSRRQCAF_ORG_ID DL_TSRRQCAF_ORG_ID,
PV1.FIELD_VALUE DL_QCAF_TYPE,
RTRIM(RQCAF.VALUE_TEXT)  DL_QCAF_VALUE,
RTRIM(URQCAF.SHORT_FORM_NAME) DL_QCAF_UNIT,
RQCAF.DESCRIPTION_TEXT DL_QCAF_DESCRIPTION,

DL.LINE_NUMBER LINE_NUMBER,
DL.TSRFDACT_IS_NUMBER DL_TSRFDACT_IS_NUMBER,
DL.TSRFDACT_ORG_ID   DL_TSRFDACT_ORG_ID,
DL.LINE_NAME LINE_NAME,

DECODE(RTRIM(AP.PROCEDURE_ID), '', '',RTRIM(AP.SOURCE_ACR) || ' / ' ||
RTRIM(AP.PROCEDURE_ID)) DL_PROC,
TXT.DESCRIPTION_TEXT DL_RSLT_COMMENT

FROM
TSRCHAR C,
```

```
TSRRSULT R,
TSRDLIN DL,
TSRUOM U,
TSRANLPR AP,
TSMGNTXT TXT,
TSRLAB L,
TSRDQL DQ,
TSRUOM UDQ,
TSRRQCAF RQCAF,
TSRUOM URQCAF,
TSRRCI RCI,
TSMPRMVL PV,
TSMPRMVL PV1

WHERE
DL.TSRDLIN_IS_NUMBER = R.TSRDLIN_IS_NUMBER(+)
AND DL.TSRDLIN_ORG_ID = R.TSRDLIN_ORG_ID(+)
AND R.TSRANLPR_IS_NUMBER = AP.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID = AP.TSRANLPR_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = TXT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = TXT.TSRRSULT_ORG_ID(+)
AND R.TSRCHAR_IS_NUMBER = C.TSRCHAR_IS_NUMBER(+)
AND R.TSRCHAR_ORG_ID = C.TSRCHAR_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER = U.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID = U.TSRUOM_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = DQ.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = DQ.TSRRSULT_ORG_ID(+)
AND DQ.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQ.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = RQCAF.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = RQCAF.TSRRSULT_ORG_ID(+)
AND RQCAF.TSRUOM_IS_NUMBER = URQCAF.TSRUOM_IS_NUMBER(+)
AND RQCAF.TSRUOM_ORG_ID = URQCAF.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = RCI.TSRRSULT_ORG_ID(+)
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND RQCAF.TSMPRMVL_IS_NUMBER = PV1.TSMPRMVL_IS_NUMBER(+)
AND R.TSRFDACT_IS_NUMBER IS NULL
AND R.TSRFDACT_ORG_ID IS NULL
AND TXT.DESCRIPTION_NAME(+) <> 'PROCEXCP'
&P_CHAR

ORDER BY
DL.LINE_NUMBER,
DL.LINE_NAME,
dl_char,
PV1.FIELD_VALUE,
RQCAF.VALUE_TEXT
```

ResultDetailsPortableDLlabrmk.sql

```
SELECT
R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID,
```

```
LBRMK.SHORT_NAME DL_LBRMK_NAME,
LBRMK.DESCRIPTION_TEXT DL_LBRMK_DESC

FROM
TSRRSULT R,
TSRRLRA RLRA,
TSRLBRMK LBRMK

WHERE
R.TSRRSULT_IS_NUMBER = RLRA.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = RLRA.TSRRSULT_ORG_ID(+)
AND  RLRA.TSRLBRMK_IS_NUMBER = LBRMK.TSRLBRMK_IS_NUMBER(+)
AND RLRA.TSRLBRMK_ORG_ID = LBRMK.TSRLBRMK_ORG_ID(+)

ORDER BY
LBRMK.SHORT_NAME
```

Select Options: Organization, Trip, Station, Characteristic
or
Organization, Project, Station, Characteristic

Sort Sequence: By ascending Organization ID, by ascending Trip ID, by ascending Station ID, by ascending Visit Number, by ascending Activity ID, by ascending Activity Replicate Number, by ascending Characteristic.

- **S** by ascending Project ID.
- **S** by ascending Lab Remark Code.
- **S** by ascending QC Adjustment Factor Type, by ascending Value.
- **S** Biological Results (General): by ascending Group Type, by ascending Frequency Analysis, by ascending Group ID.
- **S** Single Taxon Frequency Classes (Physical): by ascending Lower Range of Single Taxon Frequency Classes.
- **S** Single Taxon Frequency Classes (Biological): by ascending Primary Class Descriptor, by ascending Secondary Class Descriptor.
- **S** Single Taxon Individuals: by ascending Individual Number, by ascending Characteristic.
- **S** Habitat Assessments: by ascending User Defined Characteristic Group then Characteristic Category (e.g., Chemical, Physical).
- **S** Portable Data Loggers: by ascending Data Line Number.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
T3 Field Trip Data Entry		TSRTRIP
Trip	ID	ID_CODE

Report Heading	Prompt Name	Oracle Name
	Trip Name	NAME
ST4 Station Data Entry		TSMSTATN
Station	ID	IDENTIFICATION_CD
	Name	NAME
SV3 Station Visit Data Entry		TSRSTVST
Visit #	Visit Number	ID_NUMBER
Arrive	Arrival Date and Time, MM-DD-YYYY	ARRIVAL_DATE
	Arrival Date and Time, HH:MM:SS	ARRIVAL_TIME
	Arrival Date and Time, Zone	ARRIVAL_TIME_ZONE
Depart	Departure Date and Time, MM-DD-YYYY	DEPARTURE_DATE
	Departure Date and Time, HH:MM:SS	DEPARTURE_TIME
	Departure Date and Time, Zone	DEPRTURE_TIME_ZONE
FA3 Field Measurement/Observation Data Entry **FA2 Sample Data Entry** **SV5 Activity Type Selection**		TSRFDACT
Activity ID / Rep #	ID	ID_CODE
	Replicate Number	REPLICATE_NUMBER
Activity Type	Activity Type	TYPE_NAME
Medium	Medium	MEDIUM_TYPE_NAME
Category	Activity Category	CATEGORY_TYPE_NAME
Intent	Intent	INTENT_TYPE_NAME
Community	Community	COMMUNITY_NAME
Activity Start	Start, MM-DD-YYYY, Activity	START_DATE
	Start, HH:MM:SS, Activity	START_TIME
	Start, Zone, Activity	START_TIME_ZONE
Activity Stop	Stop, MM-DD-YYYY, Activity	STOP_DATE
	Stop, HH:MM:SS, Activity	STOP_TIME
	Stop, Zone, Activity	STOP_TIME_ZONE
Species #	Species Number	SPECIES_NUMBER
(QC)	QC	QC_INDICATOR
Chain of Custody	Chain of Custody ID	CHAIN_OF_CUSTODY_ID
Comments	Comments	COMMENT_TEXT
		TSRMATRX
Sample Matrix	Matrix	NAME
		TSRBIOPT
Bio Part	Bio Part	NAME

Report Heading	Prompt Name	Oracle Name
R4 Chemical Result Data Entry **R8 Physical Result Data Entry** **APL2 Result Laboratory Data Entry** **APL4 Result Laboratory Factor Assignment Maintenance List** **RG11 Result Maintenance List - Multi-Taxon Population Census** **RG12 Result Maintenance List - Multi-Taxon Population Census** **RG15 Single Taxon Frequency Class-Physical-Data Entry** **RG15A Single Taxon Frequency Class-Biological-Data Entry** **R7 Result Text Data Entry** **RG23 Single Taxon Individual Result Maintenance List** **P49 Field Activity Scheme Main List - Habitat Classification** **R9 Portable Data Logger Result Maintenance List** **R9A Data Line Name Maintenance**		TSRRSULT
Value Count	Value Count	VALUE_TEXT
Value Type Count Type	Value Type Count Type	VALUE_TYPE_NAME
Statistic Type	Statistic Type	STATISTIC_TYPE_NM
Precision +/-	Precision +/-	PRECISION_AMT_TEXT
Confidence	Confidence Level	CONF_LVL_PCT_MSR
Detection Condition	Detection Condition	DETECT_COND_CD
Value Status	Value Status	VALUE STATUS
Duration Basis	Duration	DUR_BASIS_TYPE_NM
Weight Basis	Weight	WT_BASIS_TYPE_NM
Temp. Basis	Temperature	TEMP_BASIS_LVL_NM
# of Replicates	# of Replicate Analyses	REPL_ANALYSIS_NUM
From	From	REF_PT_FROM_NAME
To	To	REF_PT_TO_NAME
Lab Batch ID	Lab Batch Id	LAB_BATCH_ID_CODE
Certified	Lab Certified for analyte and method...	LAB_CERT_IND_CODE
Date and Time	Analysis Date	ANALYSIS_DATE
	Analysis Time	ANALYSIS_TIME
	Analysis Time Zone	ANALYSIS_TIME_ZONE
Sp. #	Species #	SPECIES_NUMBER
Functional Feeding Group	Functional Feeding Group	FNCTIONAL_FEED_GRP
Taxon Pollution Tolerance	Taxon Pollution Tolerance	TAXON_POLLUTION
Trophic Level	Trophic Level	TROPHIC_LEVEL
Document/Graphic	Document/Graphic	BLOB_TITLE
Bias	Bias	BIAS
Confidence Corrected for Bias	Corrected for Bias	CONF_LVL_CORR_BIAS
		TSMPRMVL
Sample Fraction Type	Sample Fraction Type	SMPL_FRAC_TYPE_NM
Habit Voltinism Type (QC Adjustment Factor)	Habit Voltinism Type (QC Adjustment Factor)	FIELD_VALUE
		TSRCLDES
Cell Form	Cell Form	CELL_TYPE_NM

Report Heading	Prompt Name	Oracle Name
Cell Shape	Cell Shape	CELL_SHAPE_TYPE_NM
		TSRRCI
Particle Size Basis	Particle Size Basis	PARTICLE_SIZE_BASIS
Lower	Lower	LOWER_BND_AMT
Upper	Upper	UPPER_BND_AMT
Primary Class Descriptor	Class Descriptor, Primary	PRIM_CLASS_DESC
Secondary Class Descriptor	Class Descriptor, Secondary	SEC_CLASS_DESC
		TSRDQL
Quantif. Limits, Low	Result Limits, Quantification Low	MIN_QUANT_LIMIT
Quantif. Limits, High	Result Limits, Quantification High	MAX_QUANT_LIMIT
Detection Limt	Result Limits, Detection Limit	MIN_DETECT_LIMIT
QC Adjustment Factors, Dilution	QC Adjustment Factors, Dilution	DILUTION_IND_CODE
QC Adjustment Factors, Correction	QC Adjustment Factors, Correction	CORRECTION_IND_CD
QC Adjustment Factors, Recovery	QC Adjustment Factors, Recovery	RECOVERY_IND_CODE
		TSRRQCAF
Value	Value	VALUE_TEXT
Description	Description	DESCRIPTION_TEXT
		TSRCHAR
Characteristic Subject Taxon Subject	Characteristic Subject Taxon Subject	DISPLAY_NAME
Description	Description	DESCRIPTION_TEXT
Primary Class Descriptor	Biological Condition, Primary	SEARCH_NAME
Secondary Class Descriptor	Biological Condition, Secondary	
Characteristic	Characteristic	
		TSRBRGI
Individual #	Select Individual	INDIVIDUAL_NUMBER
		TSMGNTXT
Comments N/A	Comments Observation Result Text	DESCRIPTION_TEXT
		TSRUOM
Unit	Unit	SHORT_FORM_NAME
		TSRLAB
Lab	Laboratory	ID_CODE
		NAME
		TSRCPV
Sex	Sex	SHORT_NAME
Lifestage	Lifestage	
		TSRHCSC
Characteristic	Habitat Characteristic Name	CHARACTERSTC_NAME
Description	Description	DESCRIPTION_TEXT
		TSRCHGRP
Habitat Scheme	Name	NAME

Report Heading	Prompt Name	Oracle Name
		TSRDLIN
Data Lines	Line Number	LINE_NUMBER
Line Name	Line Name	LINE_NAME
APL1 Result Field/Lab Analytical Procedure Maintenance List		TSRANLPR
Field/Lab Procedure	Assigned Procedure, Source	SOURCE_ACR
	Assigned Procedure, ID	PROCEDURE_ID
APL6 Lab Sample Prep Assignment		TSRLSPP
Lab Sample Prep.	Owner	SOURCE_ACR
	Prep ID	PREPARATION_ID
APL5 Result Lab Remarks Assignment Maintenance List **RT51 Lab Remark Data Entry**		TSRLBRMK
Lab Remarks	Short Name	SHORT_NAME
	Description	DESCRIPTION_TEXT
RG10 Group Maintenance - Multi-Taxon Pop. Census Data Entry **RG2 Result Group Type Selection** **RG17 Single Taxon Group Data Entry** **RG23 Single Taxon Individual Result Maintenance List**		TSRBRG
Group ID	Group ID	ID_CODE
Group Description	Description	DESCRIPTION_TEXT
Group Type	Type Name	TYPE_NAME
Species #	Species Number	SPECIES_NUMBER
Total in Group Total Individuals	Total Number in Group Total Number of Individuals	SUMMARY_GRP_COUNT
Count Type	Count Type	VALUE_TYPE_NAME
T16 Trip Activity Project Assignment		TSMPROJ
Assigned Projects	Project ID	IDENTIFICATION_CD
	Name	NAME

EXAMPLE

Results Details

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Trip 02-1991-1 Monthly Sampling-February-1

Station CBC-001 Easton Public Drinking Supply

Visit # 1 **Arrive** 02/02/1991 10:00:00 EST **Depart** 02/02/1991 10:00:00 EST

Activity ID (QC) 02-91-003-01 / repl 1 **Activity Start** 02/02/1991 10:45:00 EST **Activity Stop** 02/02/1991 11:00:00 EST
Medium Air **Activity Type** Sample **Category** Routine Sample
Sample Matrix Solid Waste Containing greater than or equal to 0.5% Dry Solids
Chain of Custody Chain of Custody
Comments This vertical plankton tow was conducted during high winds and 2.5 ft seas.

Assigned Projects CBCP-001 Water Quality and Biological Health of the Chesapeake Bay
CBCP-002 Sediment Toxicity Study of the Wicomico River

Characteristic	Value	Unit	Sample Fraction	Value Status	Value Type	Statistic Type	Precision +/-	Confidence
Nitrogen, Ammonia	3.543	mg/l	Non-settleable	Preliminary	Calculated	Standard Deviation	0.05	95 %

Field/Lab Procedure USEPA/ORD/200.1 **Bias** XXXXXXXXXXX **Confidence Corrected for Bias** Yes
Lab Sample Prep. DEMOTEST/LSP-002 **# of Replicates** 3 **Duration Basis** 96 Hours
Detection Condition Present, below Quantification Limit **Weight Basis** Ash-free Dry
Temp. Basis 15 Deg C

Document/Graphic Title of Result Picture
Comments Result comments for this characteristic

Lab ER-001 Environmental Reference Laboratory **Quantif. Limits** **Low** XXXXXXXXXXX **High** XXXXXXXXXXX
Lab Batch ID 010211 **Certification** Yes **Detection Limit** .0005 ug/l
Date and Time 02/03/1991 10:00:00 EST **Description** This is a description for the result limits and detection area.

Lab Remarks AL Aldol condensation present. Analyte may not be present.

QC Adjustment Factors **Dilution** Yes **Correction** Yes **Recovery** Yes

Type	Value	Unit	Description
Correction/Comprehensive	200000.0000	kg	This description covers the Result Laboratory Factor Assign
Correction/Comprehensive	44.0000	metric tons	More Description for the next type

Nitrogen, Ammonia	3.543	mg/l	Total		Preliminary	Calculated	Standard Deviation	0.05	95 %

Document/Graphic Title of Result Picture

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Characteristic	Value	Unit	Value Status	Value Type	Statistic Type	Precision +/-	Confidence
Substrate - gravel, fine	15	% by vol	Preliminary	Calculated	Standard Deviation	0.05	95 %

Field/Lab Procedure USEPA/ORD/200.1 **# of Replicates** 3 **Duration Basis** 96 Hours
Lab Sample Prep. DEMOTEST/LSP-002 **Particle Size Basis** xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx **Weight Basis** Ash-free Dry
From xxxxxxxxxxxxxxxxxxx **To** xxxxxxxxxxxxxxxxxxx **Temp. Basis** 15 Deg C

Document/Graphic Title of Result Picture
Comments Result comments for this characteristic

Activity ID 02-91-003-02 / repl 1 **Activity Start** 02/02/1991 10:45:00 EST **Activity Stop** 02/02/1991 11:00:00 EST
Medium Biological **Activity Type** Sample **Category** Integrated Flow Porportioned
Intent Taxon Abundance **Community** Phytoplankton/Zooplankton
Sample Matrix Solid Waste Containing greater than or equal to 0.5% Dry Solids
Chain of Custody Chain of Custody
Comments This vertical plankton tow was conducted during high winds and 2.5 ft seas.

Assigned Projects CBCP-001 Water Quality and Biological Health of the Chesapeake Bay
CBCP-002 Sediment Toxicity Study of the Wicomico River

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Group ID 01 **Group Type** Single Taxon Frequency Classes **Sex** Male **Lifestage** Adult
Group Description This group contains all counts by taxa for the sample. **Value Status** Preliminary
Subject Taxon Cyclops **Species #** sp. 1
Subject Age **Unit** years **Count Type** Actual

Lower	Upper	Count	Value Status
0.01	1.00	15	Preliminary
1.01	2.00	88888888	Final

Group ID 02 **Group Type** Single Taxon Frequency Classes
Group Description This group contains all counts by taxa for the sample.
Subject Taxon Cyclops **Species #** sp. 1
Primary Class Descriptor LIFESTAGE (CHOICE LIST) **Count Type** Calculated
Secondary Class Descriptor SEX (CHOICE LIST)

Primary Class Descriptor	Secondary Class Descriptor	Count	Value Status
FLOWERING	FEMALE	15	Preliminary

FLOWERING	MALE	8	Final

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Group ID 01 **Group Type** Single Taxon Group Summary **Total in Group** 12
Group Description This group contains all counts by taxa for the sample. **Count Type** Actual
Subject Taxon Catastomus **Species #** sp. 1

Characteristic	Value	Unit	Value Status	Value Type	Statistic Type	Weight Basis Type
GENERAL OBSERVATION (TEXT)	*Text		Final	Actual		

Comments for the General Observation Text result information provided which wraps to the end of the margin.

Document/Graphic Title of Result Picture

LENGTH, FORK, (FISH)	2	in	Preliminary	Calculated	Standard Deviation	Ash-free Dry

Field/Lab Procedure USEPA/ORD/200.1
Lab Sample Prep. DEMOTEST/LSP-002
Document/Graphic Title of Result Picture
Comment The fork of fish seemed damaged as if some predator had chased the poor little fish and managed to take a good sized bite from the center of the fork. This created an unusually long fork length.

Lab ER-001 Environmental Reference Laboratory **Quantif. Limits** **Low** XXXXXXXXXXXX **High** XXXXXXXXXXXX
Lab Batch ID 010211 **Certification** Yes **Detection Limit** .00005 ug/l
Date and Time 02/03/1991 10:00:00 EST **Description** This is a description for the result limits and detection area.

Lab Remarks AL Aldol condensation present. Analyte may not be present.

QC Adjustment Factors **Dilution** Yes **Correction** Yes **Recovery** Yes

Type	Value	Unit	Description
Correction/Comprehensive	200000.0000	kg	This description covers the Result Laboratory Factor Assign
Correction/Comprehensive	44.0000	metric tons	More Description for the next type

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Group ID 01 **Group Type** Single Taxon Individuals **Total Individuals** 12
Group Description If you were to construct a group like this for each species, the researcher would be able to create all other result group types outside the STORET system.
Subject Taxon Catastomus **Species #** sp. 1

Individual # 1

Characteristic	Value	Unit	Value Status	Value Type	Statistic Type	Weight Basis Type
GENERAL OBSERVATION (TEXT)	*Text		Final	Actual		

Comments for the General Observation Text or List Choice Comments result information provided which wraps to the end of the margin.

Document/Graphic Title of Result Picture

LENGTH, FORK, (FISH)		2	in	Preliminary	Calculated	Standard Deviation	Ash-free Dry

Field/Lab Procedure USEPA/ORD/200.1
Lab Sample Prep. DEMOTEST/LSP-002
Document/Graphic Title of Result Picture
Comment The fork of fish seemed damaged as if some predator had chased the poor little fish and managed to take a good sized bite from the center of the fork. This created an unusually long fork length.

Individual # 2

Characteristic	Value	Unit	Value Status	Value Type	Statistic Type	Weight Basis Type
GENERAL OBSERVATION (TEXT)	*Text		Final	Actual		

Comments for the General Observation Text or List Choice Comments result information provided which wraps to the end of the margin.

LENGTH, FORK, (FISH)		3	in	Preliminary	Calculated	Standard Deviation	Ash-free Dry

Field/Lab Procedure USEPA/ORD/200.1
Lab Sample Prep. DEMOTEST/LSP-002

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Group ID 01 **Group Type** Multi-Taxon Population Census
Group Description This group contains all counts by taxa for the sample.

Characteristic	Sp. #	Value	Unit	Value Status	Value Type	Statistic Type	Functional Feeding Group	Taxon Polution Tolerance	Trophic Level
Cyclotella	sp.1	231	#/m3	Preliminary	Calculated	Standard Deviation	N/A	N/A	N//A

Habit WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW
Voltinism Facultative Multivoltine

Comments Comments for the characteristic result information provided which wraps to about here **Cell Form** Flagellates **Cell Shape** Teardrop

Melosira	sp.1	150	#/m3	Preliminary	Calculated	Standard Deviation	N/A	N/A	N//A

Field/Lab Procedure USEPA/ORD/200.1
Lab Sample Prep. DEMOTEST/LSP-002
Document/Graphic Title of Result Picture

Lab ER-001 Environmental Reference Laboratory **Quantif. Limits** **Low** XXXXXXXXXXXX **High** XXXXXXXXXXXX
Lab Batch ID 010211 **Certification** Yes **Detection Limit** .00005 ug/l
Date and Time 02/03/1991 10:00:00 EST **Description** This is a description for the result limits and detection area.

Lab Remarks AL Aldol condensation present. Analyte may not be present.

QC Adjustment Factors **Dilution** Yes **Correction** Yes **Recovery** Yes

Type	Value	Unit	Description
Correction/Comprehensive	200000.0000	kg	This description covers the Result Laboratory Factor Assign
Correction/Comprehensive	44.0000	metric tons	More Description for the next type

Activity ID 02-91-003-01 / 1 **Activity Start** 02/02/1991 10:45:00 EST **Activity Stop** 02/02/1991 11:00:00 EST
Medium Biological **Activity Type** Sample **Category** Integrated Flow Porportioned
Intent Tissue **Bio Part** Gill
Subject Taxon Achnanthes conspicua conspicua **Species #** sp.1
Sample Matrix Solid Waste Containing greater than or equal to 0.5% Dry Solids
Chain of Custody Chain of Custody
Comments This vertical plankton tow was conducted during high winds and 2.5 ft seas.

Characteristic	Sp.#	Value	Unit	Sample Fraction	Value Status	Value Type	Statistic Type	Precision +/-	Confidence
Lead		3.543	mg/l	Non-settleable	Preliminary	Calculated	Standard Deviation	0.05	95 %

Field/Lab Procedure USEPA/ORD/200.1 **# of Replicates** 3 **Duration Basis** 96 Hours
Lab Sample Prep. DEMOTEST/LSP-002 **Detection Condition** Present, below Quantification Limit **Weight Basis** Ash-free Dry
Particle Size Basis xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx **Temp. Basis** 15 Deg C
From xxxxxxxxxxxxxxxxxxx **To** xxxxxxxxxxxxxxxxxxx
Document/Graphic Title of Result Picture
Comments Result comments for this characteristic that aggregates all characteristic types.

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Activity ID 02-91-003-01 / repl 1 **Activity Start** 02/02/1991 10:45:00 EST **Activity Stop** 02/02/1991 11:00:00 EST
Activity Type Field Msr/Obs **Category** Routine Habitat Assessment
Habitat Scheme Manning/King Ecosystem Health
Comments This habitat assessment was conducted during an all day rain shower making positive identifications difficult.

Characteristic	Value	Description
Calculated Index	78	This is the calculated index for the habitat evaluation, scores 1-100. 1=no life possible, 100=garden of Eden environment. Based on an old world recipe which focuses on life potential. First introduced by Manning, 1989.

Document/Graphic Title of Result Picture

Bottom Scouring & Deposition	35%	Scored on a 0-100%, 0=completely scoured no deposition, 100=total deposition

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Characteristic	Value	Unit	Value Status	Value Type	Statistic Type	Precision +/-	Confidence
Nitrogen, Ammonia	3.543	mg/l	Preliminary	Calculated	Standard Deviation	0.05	95 %

Field/Lab Procedure USEPA/ORD/200.1 **# of Replicates** 3 **Duration Basis** 96 Hours
Lab Sample Prep. DEMOTEST/LSP-002 **Sample Fraction** Non-settleable **Weight Basis** Ash-free Dry
Detection Condition Present, below Quantification Limit **Temp. Basis** 15 Deg C
Comments Result comments for this characteristic

Lab ER-001 Environmental Reference Laboratory **Quantif. Limits** **Low** XXXXXXXXXXXX **High** XXXXXXXXXXXX
Lab Batch ID 010211 **Certification** Yes **Detection Limit** .0005 ug/l
Date and Time 02/03/1991 10:00:00 EST **Description** This is a description for the result limits and detection area.

Lab Remarks AL Aldol condensation present. Analyte may not be present.

QC Adjustment Factors **Dilution** Yes **Correction** Yes **Recovery** Yes

Type	Value	Unit	Description
Correction/Comprehensive	200000.0000	kg	This description covers the Result Laboratory Factor Assign
Correction/Comprehensive	44.0000	metric tons	More Description for the next type

Characteristic	Value	Unit	Value Status	Value Type	Statistic Type	Precision +/-	Confidence
Substrate - gravel, fine	15	% by vol	Preliminary	Calculated	Standard Deviation	0.05	95 %

Field/Lab Procedure USEPA/ORD/200.1 **# of Replicates** 3 **Duration Basis** 96 Hours
Lab Sample Prep. DEMOTEST/LSP-002 **Particle Size Basis** xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx **Weight Basis** Ash-free Dry
From xxxxxxxxxxxxxxxxxx **To** xxxxxxxxxxxxxxxxxx **Temp. Basis** 15 Deg C
Comments Result comments for this characteristic

Activity ID PDL-01 **Activity Start** 02/02/1991 10:45:00 EST **Activity Stop** 02/02/1991 11:00:00 EST
Medium Water **Activity Type** Field Mst/Obs **Category** Portable Data Logger
Comments This Portable Data Logger was accidently dropped from the bridge, but after retrieval, seems to work fine.

Assigned Projects CBCP-001 Water Quality and Biological Health of the Chesapeake Bay
CBCP-002 Sediment Toxicity Study of the Wicomico River

Data Line 1 Reading 1 ft from surface

Characteristic	Value	Unit	Sample Fraction	Value Status	Value Type	Statistic Type	Precision +/-	Confidence
Chloride	3.543	mg/l	Non-settleable	Preliminary	Calculated	Standard Deviation	0.05	95 %

Field/Lab Procedure USEPA/ORD/200.1 **# of Replicates** 3 **Duration Basis** 96 Hours
Detection Condition Present, below Quantification Limit **Weight Basis** Ash-free Dry
Temp. Basis 15 Deg C
Comments Result comments for this characteristic

Lab ER-001 Environmental Reference Laboratory **Quantif. Limits** **Low** XXXXXXXXXXXX **High** XXXXXXXXXXXX
Lab Batch ID 010211 **Certification** Yes **Detection Limit** .0005 ug/l
Date and Time 02/03/1991 10:00:00 EST **Description** This is a description for the result limits and detection area.
Lab Remarks AL Aldol condensation present. Analyte may not be present.

Temperature, water	15	deg C		Preliminary	Calculated	Standard Deviation	0.05	95 %

Field/Lab Procedure USEPA/ORD/200.1 **# of Replicates** 3 **Duration Basis** 96 Hours
Particle Size Basis xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx **Weight Basis** Ash-free Dry
From xxxxxxxxxxxxxxxxxx **To** xxxxxxxxxxxxxxxxxx **Temp. Basis** 15 Deg C
Comments Result comments for this characteristic

Data Line 2 Reading 5 ft from surface

Characteristic	Value	Unit	Sample Fraction	Value Status	Value Type	Statistic Type	Precision +/-	Confidence
Chloride	3.543	mg/l	Non-settleable	Preliminary	Calculated	Standard Deviation	0.05	95 %
Temperature, water	15	deg C		Preliminary	Calculated	Standard Deviation	0.05	95 %

Result Inventory Summary

Report Description:

This report provides minimum, maximum and average result values for each unique Characteristic, Sample Fraction Type, Value Type, Statistic Type, Unit of Measure, Field/Lab Analytical Procedure Source and ID, and Textual Result combination. The total number of contributing values will be displayed as the number of observations. The oldest and most recent Activity Start Date associated with the contributing values will be displayed.

Concatenate Characteristic, Sample Fraction Type, Value Type, Statistic Type, Unit of Measure, Field/Lab Analytical Procedure Source and ID. All fields will be concatenated with a comma and a space, except for Field/Lab Analytical Procedure Source and ID, which will be concatenated with a space.

Biological results are not included on the report.

Automated Data Logger results are not included on report.

Null values and Characteristics with null values will not be included in the report.

Column headers will be repeated on each page.

The following fields will be hidden if there is no data.

- None.

When the Result Value is a text indicator or textual in nature, display "—" in the Average and Maximum fields.

Special separators:

- Hairline above each columnar row.

Selected Projects will be interrogated against Projects assigned to Activities.

Select Logic:

ResultInvSummary.sql

```
SELECT o.org_id,o.name org_name,
  rtrim(c.display_name)||', '||
      rtrim(pv.field_value)||', '||
       rtrim(r.value_type_name)||', '||
        rtrim(r.statistic_type_nm)||', '||
         rtrim(u.short_form_name)||', '||
          rtrim(p.source_acr)||' '||rtrim(p.procedure_id)    "CHARACTERISTIC",
     count(*)                                              "NUM OBS",
     r.value_text
```

```
                                                    "    MINIMUM",
    '        ---'                                    "    AVERAGE",
    '        ---'                                    "    MAXIMUM",
    to_char(min(a.start_date),'MM/DD/YYYY')          " ACTIVITY_FROM",
    to_char(max(a.start_date),'MM/DD/YYYY')          " ACTIVITY_TO"
FROM
    tsrrsult  r,
    tsruom    u,
    tsrfdact  a,
    tsrchar   c,
    tsmorgan  o,
    TSRTRIP T,
    TSRTSA TSA,
    TSMSTATN S,
    TSRSTVST V,
    tsranlpr  p,
    TSMPRMVL PV
WHERE
     r.tsrchar_is_number=c.tsrchar_is_number
     AND a.medium_type_name<>'Biological'
     AND ((length(ltrim(rtrim(value_text,'0123456789-+. '),'0123456789-+. ')) > 0) OR
length(ltrim(rtrim(value_text,'-+. '),'-+. ')) is null) AND value_text <> ' '
     AND r.tsruom_is_number=u.tsruom_is_number(+)
     AND (r.tsrfdact_is_number=a.tsrfdact_is_number AND
r.tsrfdact_org_id=a.tsrfdact_org_id)
     AND (r.tsranlpr_is_number=p.tsranlpr_is_number(+) AND
r.tsranlpr_org_id=p.tsranlpr_org_id(+))
     AND o.org_id=a.tsrfdact_org_id
     AND  O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER(+)
     AND  T.TSRTRIP_IS_NUMBER = TSA.TSRTRIP_IS_NUMBER(+)
     AND T.TSRTRIP_ORG_ID = TSA.TSRTRIP_ORG_ID(+)
     AND O.ORG_ID = S.TSMSTATN_ORG_ID
     AND TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER(+)
     AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID (+)
     AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER(+)
     AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID(+)
     AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER(+)
     AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID(+)
     AND V.TSRSTVST_IS_NUMBER = a.TSRSTVST_IS_NUMBER(+)
     AND V.TSRSTVST_ORG_ID = a.TSRSTVST_ORG_ID(+)
     AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
&P_ORG  &P_TRP &P_STN &P_ACT &P_CHAR &P_ADATE
GROUP BY
      o.org_id,o.name,
        c.display_name,
          pv.field_value,
            r.value_type_name,
              rtrim(r.statistic_type_nm),
                u.short_form_name,
                  p.source_acr,p.procedure_id,
                    r.value_text
```

SELECT 2

```
UNION
SELECT o.org_id, o.name org_name,
  rtrim(c.display_name)||', '||
      rtrim(pv.field_value)||', '||
       rtrim(r.value_type_name)||', '||
        rtrim(r.statistic_type_nm)||', '||
         rtrim(u.short_form_name)||', '||
          rtrim(p.source_acr)||' '||rtrim(p.procedure_id)
   "CHARACTERISTIC",
     count(*)                                          "NUM OBS",
     ltrim(rtrim(min(to_number(r.value_text))))              "    MINIMUM",
     ltrim(rtrim(to_char(round(avg(to_number(r.value_text)),5))))              "
AVERAGE",
     ltrim(rtrim(max(to_number(r.value_text))))              "    MAXIMUM",
     to_char(min(a.start_date),'MM/DD/YYYY')          " ACTIVITY_FROM",
     to_char(max(a.start_date),'MM/DD/YYYY')          " ACTIVITY_TO"
FROM
     tsrrsult  r,
     tsruom    u,
     tsrfdact  a,
     tsrchar   c,
     tsmorgan  o,
     TSRTRIP T,
     TSRTSA TSA,
     TSMSTATN S,
     TSRSTVST V,
     tsranlpr  p,
     TSMPRMVL PV
WHERE
      r.tsrchar_is_number=c.tsrchar_is_number
      AND a.medium_type_name<>'Biological'
      AND (length(ltrim(rtrim(value_text,'0123456789-+. '),'0123456789-+. ')) is null) AND
length(ltrim(rtrim(value_text,'-+. '),'-+. ')) > 0 AND value_text <> ' '
      AND r.tsruom_is_number=u.tsruom_is_number(+)
      AND (r.tsrfdact_is_number=a.tsrfdact_is_number AND
r.tsrfdact_org_id=a.tsrfdact_org_id)
      AND (r.tsranlpr_is_number=p.tsranlpr_is_number(+) AND
r.tsranlpr_org_id=p.tsranlpr_org_id(+))
      AND o.org_id=a.tsrfdact_org_id
      AND  O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER(+)
      AND  T.TSRTRIP_IS_NUMBER = TSA.TSRTRIP_IS_NUMBER(+)
      AND T.TSRTRIP_ORG_ID = TSA.TSRTRIP_ORG_ID(+)
      AND O.ORG_ID = S.TSMSTATN_ORG_ID
      AND TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER(+)
      AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID (+)
      AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER(+)
      AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID(+)
      AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER(+)
      AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID(+)
      AND V.TSRSTVST_IS_NUMBER = a.TSRSTVST_IS_NUMBER(+)
      AND V.TSRSTVST_ORG_ID = a.TSRSTVST_ORG_ID(+)
      AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
&P_ORG  &P_TRP &P_STN &P_ACT &P_CHAR &P_ADATE
```

```
GROUP BY
      o.org_id,o.name,
       c.display_name,
         pv.field_value,
           r.value_type_name,
            rtrim(r.statistic_type_nm),
              u.short_form_name,
                p.source_acr,p.procedure_id

SELECT 3
UNION
SELECT o.org_id,o.name org_name,
 rtrim(H.CHARACTERSTC_NAME)||', '||
     rtrim(pv.field_value)||', '||
      rtrim(r.value_type_name)||', '||
       rtrim(r.statistic_type_nm)||', '||
        rtrim(u.short_form_name)||', '||
         rtrim(p.source_acr)||' '||rtrim(p.procedure_id)   "CHARACTERISTIC",
    count(*)                                              "NUM OBS",
    r.value_text
                                                         "    MINIMUM",
    '        ---'                                         "    AVERAGE",
    '        ---'                                         "    MAXIMUM",
    to_char(min(a.start_date),'MM/DD/YYYY')          " ACTIVITY_FROM",
    to_char(max(a.start_date),'MM/DD/YYYY')          " ACTIVITY_TO"
FROM
    tsrrsult  r,
    tsruom    u,
    tsrfdact  a,
    TSRHCSC H,
    tsmorgan  o,
   TSRTRIP T,
   TSRTSA TSA,
   TSMSTATN S,
   TSRSTVST V,
    tsranlpr  p,
    TSMPRMVL PV
WHERE
    R.TSRHCSC_IS_NUMBER=H.TSRHCSC_IS_NUMBER AND
R.TSRHCSC_ORG_ID=H.TSRHCSC_ORG_ID
    AND a.medium_type_name<>'Biological'
    AND ((length(ltrim(rtrim(value_text,'0123456789-+. '),'0123456789-+. ')) > 0) OR
length(ltrim(rtrim(value_text,'-+. '),'-+. ')) is null) AND value_text <> ' '
    AND r.tsruom_is_number=u.tsruom_is_number(+)
    AND (r.tsrfdact_is_number=a.tsrfdact_is_number AND
r.tsrfdact_org_id=a.tsrfdact_org_id)
    AND (r.tsranlpr_is_number=p.tsranlpr_is_number(+) AND
r.tsranlpr_org_id=p.tsranlpr_org_id(+))
    AND o.org_id=a.tsrfdact_org_id
    AND  O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER(+)
    AND  T.TSRTRIP_IS_NUMBER = TSA.TSRTRIP_IS_NUMBER(+)
    AND T.TSRTRIP_ORG_ID = TSA.TSRTRIP_ORG_ID(+)
    AND O.ORG_ID = S.TSMSTATN_ORG_ID
```

```
    AND TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER(+)
    AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID (+)
    AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER(+)
    AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID(+)
    AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER(+)
    AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID(+)
    AND V.TSRSTVST_IS_NUMBER = a.TSRSTVST_IS_NUMBER(+)
    AND V.TSRSTVST_ORG_ID = a.TSRSTVST_ORG_ID(+)
    AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
&P_ORG  &P_TRP &P_STN &P_ACT &P_USER_CHAR &P_ADATE
GROUP BY
      o.org_id,o.name,
        H.CHARACTERSTC_NAME,
          pv.field_value,
            r.value_type_name,
              rtrim(r.statistic_type_nm),
                u.short_form_name,
                  p.source_acr,p.procedure_id,
                    r.value_text

SELECT 4
UNION
SELECT o.org_id, o.name org_name,
  rtrim(H.CHARACTERSTC_NAME)||', '||
      rtrim(pv.field_value)||', '||
       rtrim(r.value_type_name)||', '||
        rtrim(r.statistic_type_nm)||', '||
         rtrim(u.short_form_name)||', '||
          rtrim(p.source_acr)||' '||rtrim(p.procedure_id)    "CHARACTERISTIC",
    count(*)                                                "NUM OBS",
    ltrim(rtrim(min(to_number(r.value_text))))                 "    MINIMUM",
    ltrim(rtrim(to_char(round(avg(to_number(r.value_text)),5))))                "
AVERAGE",
    ltrim(rtrim(max(to_number(r.value_text))))                 "    MAXIMUM",
    to_char(min(a.start_date),'MM/DD/YYYY')          " ACTIVITY_FROM",
    to_char(max(a.start_date),'MM/DD/YYYY')          " ACTIVITY_TO"
FROM
    tsrrsult  r,
    tsruom    u,
    tsrfdact  a,
    TSRHCSC H,
    tsmorgan  o,
    TSRTRIP T,
    TSRTSA TSA,
    TSMSTATN S,
    TSRSTVST V,
    tsranlpr  p,
    TSMPRMVL PV
WHERE
     R.TSRHCSC_IS_NUMBER=H.TSRHCSC_IS_NUMBER AND
R.TSRHCSC_ORG_ID=H.TSRHCSC_ORG_ID
     AND a.medium_type_name<>'Biological'
```

```
    AND (length(ltrim(rtrim(value_text,'0123456789-+. '),'0123456789-+. ')) is null) AND
length(ltrim(rtrim(value_text,'-+. '),'-+. ')) > 0 AND value_text <> ' '
    AND r.tsruom_is_number=u.tsruom_is_number(+)
    AND (r.tsrfdact_is_number=a.tsrfdact_is_number AND
r.tsrfdact_org_id=a.tsrfdact_org_id)
    AND (r.tsranlpr_is_number=p.tsranlpr_is_number(+) AND
r.tsranlpr_org_id=p.tsranlpr_org_id(+))
    AND o.org_id=a.tsrfdact_org_id
    AND  O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER(+)
    AND  T.TSRTRIP_IS_NUMBER = TSA.TSRTRIP_IS_NUMBER(+)
    AND T.TSRTRIP_ORG_ID = TSA.TSRTRIP_ORG_ID(+)
    AND O.ORG_ID = S.TSMSTATN_ORG_ID
    AND TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER(+)
    AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID (+)
    AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER(+)
    AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID(+)
    AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER(+)
    AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID(+)
    AND V.TSRSTVST_IS_NUMBER = a.TSRSTVST_IS_NUMBER(+)
    AND V.TSRSTVST_ORG_ID = a.TSRSTVST_ORG_ID(+)
    AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
    &P_ORG  &P_TRP &P_STN &P_ACT &P_USER_CHAR &P_ADATE
GROUP BY
    o.org_id,o.name,
      H.CHARACTERSTC_NAME,
       pv.field_value,
         r.value_type_name,
           rtrim(r.statistic_type_nm),
             u.short_form_name,
               p.source_acr,p.procedure_id
```

Select Options: Organization, Trip, Station, Activity Date, Characteristic
or
Organization, Project, Station, Activity Date, Characteristic

Sort Sequence: By ascending Organization ID, by ascending Characteristic, by ascending Sample Fraction Type, by ascending Value Type, by ascending Statistic Type, by ascending Unit of Measure, by ascending Field/Lab Analytical Procedure Source and ID.

- Textual Results - by ascending Result Value.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME

Report Heading	Prompt Name	Oracle Name
FA3 Field Measurement/Observation Data Entry **FA2 Sample Data Entry** **FA22 Sample form Sample Data Entry** **FA5 Composite from Sample data Entry**		TSRFDACT
Activity From Activity To	Start, MM-DD-YYYY, Activity	START_DATE
R4 Chemical Result Data Entry **R8 Physical Result Data Entry** **R7 Result Text Data Entry** **R6 Result Permitted Value Selection List** **P49 Field Activity Scheme Main List - Habitat Classification**		TSRRSULT
Minimum Average (calculated) Maximum	Value Count	VALUE_TEXT
N/A	Value Type Count Type	VALUE_TYPE_NAME
N/A	Statistic Type	STATISTIC_TYPE_NM
		TSMPRMVL
N/A	Sample Fraction Type	SMPL_FRAC_TYPE_NM
		TSRCHAR
Characteristic	Characteristic	DISPLAY_NAME
		TSRUOM
Unit	Unit	SHORT_FORM_NAME
		TSRHCSC
Characteristic	Habitat Characteristic Name	CHARACTERSTC_NAME
APL1 Result Field/Lab Analytical Procedure Maintenance List		TSRANLPR
N/A	Assigned Procedure, Source	SOURCE_ACR
	Assigned Procedure, ID	PROCEDURE_ID

EXAMPLE

Result Inventory Summary

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Characteristic	# of Obs.	Minimum	Average	Maximum	Activity From	Activity To
2,4-D,Total,Actual ,ug/l,USEPA/OPPTS/PMD-DCA(GC2)	1	.013	.013	.013	02/02/1991	02/02/1991
Alkalinity, Carbonate as CaCO3,Total,Actual ,mg/l,HACH/8226	6	60.000	74.000	98.000	02/02/1991	03/01/1991
Arsenic,Dissolved,Calculated ,,USEPA/ORD/200.1	1	*Non-detect	---	---	02/02/1991	02/02/1991
Cloud cover (choice list),, ,,DEMOTEST/WEATHER-001	1	BROKEN	---	---	02/02/1991	02/02/1991
Cloud cover (choice list),, ,,DEMOTEST/WEATHER-001	3	CLEAR	---	---	02/02/1991	03/01/1991
Flow, stream stage (code list),, ,,	1	ABOVE NORMAL	---	---	02/02/1991	02/02/1991
General Observation (text),, ,,	3	*Text	---	---	02/02/1991	03/01/1991
Immitation Malathion,,SAMPLEFRACTIONV,Calculated Standard Deviation,metric ton,ORG1/ORG1:PROCEDURE1	1	88888888.888	88888888.888	88888888.888	02/02/1991	02/02/1991

Result Inventory Summary by Station

Report Description:

This report provides minimum, maximum and average result values for each unique Characteristic, Sample Fraction Type, Value Type, Statistic Type, Unit of Measure, Field/Lab Analytical Procedure Source and ID, and Textual Result combination. The total number of contributing values will be displayed as the number of observations. The oldest and most recent Activity Start Date associated with the contributing values will be displayed. The results are grouped by Station.

Concatenate Characteristic, Sample Fraction Type, Value Type, Statistic Type, Unit of Measure, Field/Lab Analytical Procedure Source and ID. All fields will be concatenated with a comma and a space, except for Field/Lab Analytical Procedure Source and ID, which will be concatenated with a space.

Biological results are not included on the report.

Automated Data Logger results are not included on report.

Null values and Characteristics with null values will not be included in the report.

Column headers will be repeated on each page.

The following fields will be hidden if there is no data.

- None.

When the Result Value is a text indicator or textual in nature, display "—" in the Average and Maximum fields.

Special separators:

- Hairline above each columnar row.

Selected Projects will be interrogated against Projects assigned to Activities.

Select Logic:

ResultInvSumByStation.sql

```
SELECT o.org_id,o.name org_name, s.identification_cd,s.name,
  rtrim(c.display_name)||', '||
      rtrim(pv.field_value)||', '||
       rtrim(r.value_type_name)||', '||
        rtrim(r.statistic_type_nm)||', '||
         rtrim(u.short_form_name)||', '||
          rtrim(p.source_acr)||' '||rtrim(p.procedure_id)    "CHARACTERISTIC",
     count(*)                                              "NUM OBS",
     r.value_text
```

```
                                                    "    MINIMUM",
    '        ---'                                    "    AVERAGE",
    '        ---'                                    "    MAXIMUM",
    to_char(min(a.start_date),'MM/DD/YYYY')          " ACTIVITY_FROM",
    to_char(max(a.start_date),'MM/DD/YYYY')          " ACTIVITY_TO"
FROM
    tsrrsult  r,
    tsruom    u,
    tsrfdact  a,
    tsrchar   c,
    tsmorgan  o,
    TSRTRIP T,
    TSRTSA TSA,
    TSMSTATN S,
    TSRSTVST V,
    tsranlpr  p,
    TSMPRMVL PV
WHERE
     r.tsrchar_is_number=c.tsrchar_is_number
     AND a.medium_type_name<>'Biological'
     AND ((length(ltrim(rtrim(value_text,'0123456789-+. '),'0123456789-+. ')) > 0) OR
length(ltrim(rtrim(value_text,'-+. '),'-+. ')) is null) AND value_text <> ' '
     AND r.tsruom_is_number=u.tsruom_is_number(+)
     AND (r.tsrfdact_is_number=a.tsrfdact_is_number AND
r.tsrfdact_org_id=a.tsrfdact_org_id)
     AND (r.tsranlpr_is_number=p.tsranlpr_is_number(+) AND
r.tsranlpr_org_id=p.tsranlpr_org_id(+))
     AND o.org_id=a.tsrfdact_org_id
     AND  O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER(+)
     AND  T.TSRTRIP_IS_NUMBER = TSA.TSRTRIP_IS_NUMBER(+)
     AND T.TSRTRIP_ORG_ID = TSA.TSRTRIP_ORG_ID(+)
     AND O.ORG_ID = S.TSMSTATN_ORG_ID
     AND TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER(+)
     AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID (+)
     AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER(+)
     AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID(+)
     AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER(+)
     AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID(+)
     AND V.TSRSTVST_IS_NUMBER = a.TSRSTVST_IS_NUMBER(+)
     AND V.TSRSTVST_ORG_ID = a.TSRSTVST_ORG_ID(+)
     AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
     &P_ORG  &P_TRP &P_STN &P_ACT &P_CHAR &P_ADATE
GROUP BY
      o.org_id,o.name,s.identification_cd,s.name,
        c.display_name,
          pv.field_value,
            r.value_type_name,
              rtrim(r.statistic_type_nm),
                u.short_form_name,
                  p.source_acr,p.procedure_id,
                    r.value_text
```

SELECT 2

```
UNION
SELECT o.org_id, o.name org_name, s.identification_cd,s.name,
  rtrim(c.display_name)||', '||
      rtrim(pv.field_value)||', '||
       rtrim(r.value_type_name)||', '||
        rtrim(r.statistic_type_nm)||', '||
         rtrim(u.short_form_name)||', '||
          rtrim(p.source_acr)||' '||rtrim(p.procedure_id)    "CHARACTERISTIC",
     count(*)                                              "NUM OBS",
     ltrim(rtrim(min(to_number(r.value_text))))                  "    MINIMUM",
     ltrim(rtrim(to_char(round(avg(to_number(r.value_text)),5))))                 "
AVERAGE",
     ltrim(rtrim(max(to_number(r.value_text))))                   "    MAXIMUM",
     to_char(min(a.start_date),'MM/DD/YYYY')          " ACTIVITY_FROM",
     to_char(max(a.start_date),'MM/DD/YYYY')           " ACTIVITY_TO"
FROM
     tsrrsult  r,
     tsruom    u,
     tsrfdact  a,
     tsrchar   c,
     tsmorgan  o,
     TSRTRIP T,
     TSRTSA TSA,
     TSMSTATN S,
     TSRSTVST V,
     tsranlpr  p,
     TSMPRMVL PV
WHERE
      r.tsrchar_is_number=c.tsrchar_is_number
      AND a.medium_type_name<>'Biological'
      AND (length(ltrim(rtrim(value_text,'0123456789-+. '),'0123456789-+. ')) is null) AND
length(ltrim(rtrim(value_text,'-+. '),'-+. ')) > 0 AND value_text <> ' '
      AND r.tsruom_is_number=u.tsruom_is_number(+)
      AND (r.tsrfdact_is_number=a.tsrfdact_is_number AND
r.tsrfdact_org_id=a.tsrfdact_org_id)
      AND (r.tsranlpr_is_number=p.tsranlpr_is_number(+) AND
r.tsranlpr_org_id=p.tsranlpr_org_id(+))
      AND o.org_id=a.tsrfdact_org_id
      AND  O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER(+)
      AND  T.TSRTRIP_IS_NUMBER = TSA.TSRTRIP_IS_NUMBER(+)
      AND T.TSRTRIP_ORG_ID = TSA.TSRTRIP_ORG_ID(+)
      AND O.ORG_ID = S.TSMSTATN_ORG_ID
      AND TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER(+)
      AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID (+)
      AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER(+)
      AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID(+)
      AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER(+)
      AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID(+)
      AND V.TSRSTVST_IS_NUMBER = a.TSRSTVST_IS_NUMBER(+)
      AND V.TSRSTVST_ORG_ID = a.TSRSTVST_ORG_ID(+)
      AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
      &P_ORG  &P_TRP &P_STN &P_ACT &P_CHAR &P_ADATE
```

```
GROUP BY
      o.org_id,o.name,s.identification_cd,s.name,
        c.display_name,
          pv.field_value,
            r.value_type_name,
              rtrim(r.statistic_type_nm),
                u.short_form_name,
                  p.source_acr,p.procedure_id

SELECT 3
UNION
SELECT o.org_id,o.name org_name,s.identification_cd,s.name,
 rtrim(H.CHARACTERSTC_NAME)||', '||
     rtrim(pv.field_value)||', '||
      rtrim(r.value_type_name)||', '||
       rtrim(r.statistic_type_nm)||', '||
        rtrim(u.short_form_name)||', '||
         rtrim(p.source_acr)||' '||rtrim(p.procedure_id)    "CHARACTERISTIC",
    count(*)                                               "NUM OBS",
  r.value_text
                                                          "    MINIMUM",
    '        ---'                                          "    AVERAGE",
    '        ---'                                          "    MAXIMUM",
    to_char(min(a.start_date),'MM/DD/YYYY')          " ACTIVITY_FROM",
    to_char(max(a.start_date),'MM/DD/YYYY')          " ACTIVITY_TO"
FROM
    tsrrsult  r,
    tsruom    u,
    tsrfdact  a,
    TSRHCSC H,
    tsmorgan  o,
    TSRTRIP T,
    TSRTSA TSA,
    TSMSTATN S,
    TSRSTVST V,
    tsranlpr  p,
    TSMPRMVL PV
WHERE
    R.TSRHCSC_IS_NUMBER=H.TSRHCSC_IS_NUMBER AND
R.TSRHCSC_ORG_ID=H.TSRHCSC_ORG_ID
    AND a.medium_type_name<>'Biological'
    AND ((length(ltrim(rtrim(value_text,'0123456789-+. '),'0123456789-+. ')) > 0) OR
length(ltrim(rtrim(value_text,'-+. '),'-+. ')) is null) AND value_text <> ' '
    AND r.tsruom_is_number=u.tsruom_is_number(+)
    AND (r.tsrfdact_is_number=a.tsrfdact_is_number AND
r.tsrfdact_org_id=a.tsrfdact_org_id)
    AND (r.tsranlpr_is_number=p.tsranlpr_is_number(+) AND
r.tsranlpr_org_id=p.tsranlpr_org_id(+))
    AND o.org_id=a.tsrfdact_org_id
    AND  O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER(+)
    AND  T.TSRTRIP_IS_NUMBER = TSA.TSRTRIP_IS_NUMBER(+)
    AND T.TSRTRIP_ORG_ID = TSA.TSRTRIP_ORG_ID(+)
    AND O.ORG_ID = S.TSMSTATN_ORG_ID
```

```
    AND TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER(+)
    AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID (+)
    AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER(+)
    AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID(+)
    AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER(+)
    AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID(+)
    AND V.TSRSTVST_IS_NUMBER = a.TSRSTVST_IS_NUMBER(+)
    AND V.TSRSTVST_ORG_ID = a.TSRSTVST_ORG_ID(+)
    AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
    &P_ORG  &P_TRP &P_STN &P_ACT &P_USER_CHAR &P_ADATE
GROUP BY
      o.org_id,o.name,s.identification_cd,s.name,
        H.CHARACTERSTC_NAME,
          pv.field_value,
           r.value_type_name,
             rtrim(r.statistic_type_nm),
               u.short_form_name,
                 p.source_acr,p.procedure_id,
                   r.value_text

SELECT 4
UNION
SELECT o.org_id, o.name org_name, s.identification_cd,s.name,
  rtrim(H.CHARACTERSTC_NAME)||', '||
      rtrim(pv.field_value)||', '||
       rtrim(r.value_type_name)||', '||
        rtrim(r.statistic_type_nm)||', '||
         rtrim(u.short_form_name)||', '||
          rtrim(p.source_acr)||' '||rtrim(p.procedure_id)     "CHARACTERISTIC",
    count(*)                                                  "NUM OBS",
    ltrim(rtrim(min(to_number(r.value_text))))                  "    MINIMUM",
    ltrim(rtrim(to_char(round(avg(to_number(r.value_text)),5))))                "
AVERAGE",
    ltrim(rtrim(max(to_number(r.value_text))))                  "    MAXIMUM",
    to_char(min(a.start_date),'MM/DD/YYYY')          " ACTIVITY_FROM",
    to_char(max(a.start_date),'MM/DD/YYYY')          " ACTIVITY_TO"
FROM
    tsrrsult  r,
    tsruom    u,
    tsrfdact  a,
    TSRHCSC H,
    tsmorgan  o,
    TSRTRIP T,
    TSRTSA TSA,
    TSMSTATN S,
    TSRSTVST V,
    tsranlpr  p,
    TSMPRMVL PV
WHERE
    R.TSRHCSC_IS_NUMBER=H.TSRHCSC_IS_NUMBER AND
R.TSRHCSC_ORG_ID=H.TSRHCSC_ORG_ID
    AND a.medium_type_name<>'Biological'
```

```
    AND (length(ltrim(rtrim(value_text,'0123456789-+. '),'0123456789-+. ')) is null) AND
length(ltrim(rtrim(value_text,'-+. '),'-+. ')) > 0 AND value_text <> ' '
    AND r.tsruom_is_number=u.tsruom_is_number(+)
    AND (r.tsrfdact_is_number=a.tsrfdact_is_number AND
r.tsrfdact_org_id=a.tsrfdact_org_id)
    AND (r.tsranlpr_is_number=p.tsranlpr_is_number(+) AND
r.tsranlpr_org_id=p.tsranlpr_org_id(+))
    AND o.org_id=a.tsrfdact_org_id
    AND  O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER(+)
    AND  T.TSRTRIP_IS_NUMBER = TSA.TSRTRIP_IS_NUMBER(+)
    AND T.TSRTRIP_ORG_ID = TSA.TSRTRIP_ORG_ID(+)
    AND O.ORG_ID = S.TSMSTATN_ORG_ID
    AND TSA.TSMSTATN_IS_NUMBER = S.TSMSTATN_IS_NUMBER(+)
    AND TSA.TSMSTATN_ORG_ID = S.TSMSTATN_ORG_ID (+)
    AND TSA.TSRTRIP_IS_NUMBER = V.TSRTRIP_IS_NUMBER(+)
    AND TSA.TSRTRIP_ORG_ID = V.TSRTRIP_ORG_ID(+)
    AND TSA.TSMSTATN_IS_NUMBER = V.TSMSTATN_IS_NUMBER(+)
    AND TSA.TSMSTATN_ORG_ID = V.TSMSTATN_ORG_ID(+)
    AND V.TSRSTVST_IS_NUMBER = a.TSRSTVST_IS_NUMBER(+)
    AND V.TSRSTVST_ORG_ID = a.TSRSTVST_ORG_ID(+)
    AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
    &P_ORG  &P_TRP &P_STN &P_ACT &P_USER_CHAR &P_ADATE
GROUP BY
     o.org_id,o.name,s.identification_cd,s.name,
        H.CHARACTERSTC_NAME,
          pv.field_value,
            r.value_type_name,
              rtrim(r.statistic_type_nm),
                u.short_form_name,
                  p.source_acr,p.procedure_id
ORDER BY 1,2,3,4
```

Select Options: Organization, Trip, Station, Activity Date, Characteristic
or
Organization, Project, Station, Activity Date, Characteristic

Sort Sequence: By ascending Organization ID, by Station, by ascending Characteristic, by ascending Sample Fraction Type, by ascending Value Type, by ascending Statistic Type, by ascending Unit of Measure, by ascending Field/Lab Analytical Procedure Source and ID.

- Textual Results - by ascending Result Value.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME

Report Heading	Prompt Name	Oracle Name
FA3 Field Measurement/Observation Data Entry **FA2 Sample Data Entry** **FA22 Sample form Sample Data Entry** **FA5 Composite from Sample data Entry**		TSRFDACT
Activity From Activity To	Start, MM-DD-YYYY, Activity	START_DATE
R4 Chemical Result Data Entry **R8 Physical Result Data Entry** **R7 Result Text Data Entry** **R6 Result Permitted Value Selection List** **P49 Field Activity Scheme Main List - Habitat Classification**		TSRRSULT
N/A	Value Count	VALUE_TEXT
N/A	Value Type Count Type	VALUE_TYPE_NAME
N/A	Statistic Type	STATISTIC_TYPE_NM
		TSMPRMVL
N/A	Sample Fraction Type	SMPL_FRAC_TYPE_NM
		TSRCHAR
Characteristic	Characteristic	DISPLAY_NAME
		TSRUOM
Unit	Unit	SHORT_FORM_NAME
		TSRHCSC
Characteristic	Habitat Characteristic Name	CHARACTERSTC_NAME
APL1 Result Field/Lab Analytical Procedure Maintenance List		TSRANLPR
N/A	Assigned Procedure, Source	SOURCE_ACR
	Assigned Procedure, ID	PROCEDURE_ID
ST4 Station Data Entry		TSMSTATN
Station	ID	IDENTIFICATION_CD
	Name	NAME

EXAMPLE

Result Inventory Summary by Station

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Station CBC-001 Easton Public Drinking Supply

Characteristic	# of Obs.	Minimum	Average	Maximum	Activity From	Activity To
2,4-D,Total,Actual ,ug/l,USEPA/OPPTS/PMD-DCA(GC2)	1	.013	.013	.013	02/02/1991	02/02/1991
Alkalinity, Carbonate as CaCO3,Total,Actual ,mg/l,HACH/8226	6	60.000	74.000	98.000	02/02/1991	03/01/1991
Arsenic,Dissolved,Calculated ,,USEPA/ORD/200.1	1	*Non-detect	---	---	02/02/1991	02/02/1991
Cloud cover (choice list),, ,,DEMOTEST/WEATHER-001	1	BROKEN	---	---	02/02/1991	02/02/1991
Cloud cover (choice list),, ,,DEMOTEST/WEATHER-001	3	CLEAR	---	---	02/02/1991	03/01/1991
Flow, stream stage (code list),, ,,	1	ABOVE NORMAL	---	---	02/02/1991	02/02/1991
General Observation (text),, ,,	3	*Text	---	---	02/02/1991	03/01/1991
Immitation Malathion,,SAMPLEFRACTIONV,Calculated Standard Deviation,metric ton,ORG1/ORG1:PROCEDURE1	1	88888888.888	88888888.888	88888888.888	02/02/1991	02/02/1991

Station CBC-002 Babbleback River Mouth

Characteristic	# of Obs.	Minimum	Average	Maximum	Activity From	Activity To
2,4-D,Total,Actual ,ug/l,USEPA/OPPTS/PMD-DCA(GC2)	1	.013	.013	.013	02/02/1991	02/02/1991
Alkalinity, Carbonate as CaCO3,Total,Actual ,mg/l,HACH/8226	6	60.000	74.000	98.000	02/02/1991	03/01/1991

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Automated Data Logger Summary

Report Description: This report provides information on Automated Data Logger Installations and Operating Periods including Station ID, Installation and Removal Dates, Data Logger IDs, Start, Stop, Interval Dates and Times, and Assigned Projects.

The following fields will be hidden if no data is present:

- Sample Matrix.
- Automated Logger Data File.

Special Separators:

- Line beginning each series of Log Files/Operating Periods.
- Hairline separating each Log File/Operating Period.

Select Logic: **AutoLog.sql**

```
SELECT
RTRIM(O.ORG_ID)  ORG_ID,
RTRIM(O.NAME) ORG,
L.ID_CODE LID,
RTRIM(S.IDENTIFICATION_CD) || ' / ' || RTRIM(S.NAME) STATION,

DECODE(TO_CHAR(L.INSTALL_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(L.INSTALL_DATE, 'MM/DD/YYYY'))   || '  ' ||
(DECODE(TO_CHAR(L.INSTALL_TIME,
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(L.INSTALL_TIME,'HH24:MI:SS')))  INST,

DECODE(TO_CHAR(L.DEPARTURE_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(L.DEPARTURE_DATE, 'MM/DD/YYYY')) || '  ' ||
(DECODE(TO_CHAR(L.REMOVAL_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR
(L.REMOVAL_TIME,'HH24:MI:SS'))) RMVL,
L.MEDIUM_TYPE_NAME,
M.NAME SAMPLE_MATRIX,
D.LOG_FILE_NAME,
D.INTERVAL_HOURS,
D.INTERVAL_MINUTES,
D.INTERVAL_SECONDS,

DECODE(TO_CHAR(D.START_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(D.START_DATE, 'MM/DD/YYYY')) || '  ' ||
(DECODE(TO_CHAR(D.START_TIME,
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(D.START_TIME,'HH24:MI:SS')))
STARTDATE,
D.BLOB_TITLE BLOB_TITLE,

DECODE(TO_CHAR(D.STOP_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(D.STOP_DATE, 'MM/DD/YYYY')) || '  ' ||
(DECODE(TO_CHAR(D.STOP_TIME,
```

```
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(D.STOP_TIME,'HH24:MI:SS')))
STOPTDATE,
P.IDENTIFICATION_CD PROJ_ID ,

F.ID_CODE  FDID,
F.START_DATE FSRT

FROM
TSMORGAN O,
TSMPROJ P,
TSRPOPA A,
TSROPPRD D,
TSRADL L,
TSMSTATN S ,
TSRFDACT F,
TSRMATRX M

WHERE
O.TSMORGAN_IS_NUMBER = S.TSMORGAN_IS_NUMBER(+)
AND S.TSMSTATN_IS_NUMBER = L.TSMSTATN_IS_NUMBER
AND S.TSMSTATN_ORG_ID =  L.TSMSTATN_ORG_ID
AND L.TSRADL_IS_NUMBER = D.TSRADL_IS_NUMBER(+)
AND L.TSRADL_ORG_ID = D.TSRADL_ORG_ID(+)
AND D.TSROPPRD_IS_NUMBER = A.TSROPPRD_IS_NUMBER (+)
AND D.TSROPPRD_ORG_ID = A.TSROPPRD_ORG_ID(+)
AND A.TSMPROJ_IS_NUMBER = P.TSMPROJ_IS_NUMBER(+)
AND A.TSMPROJ_ORG_ID = P.TSMPROJ_ORG_ID(+)
AND D.TSROPPRD_IS_NUMBER = F.TSROPPRD_IS_NUMBER(+)
AND D.TSROPPRD_ORG_ID = F.TSROPPRD_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
&P_ORG &P_ADL &P_OPPRD &P_ADATE

ORDER BY
O.ORG_ID,
L.ID_CODE,
D.LOG_FILE_NAME,
P.IDENTIFICATION_CD,
F.START_DATE
```

Select Options: Organizations

Sort Sequence: By ascending Organization ID, by ascending Installation ID, by ascending Log File Name.

C Assigned Projects - By ascending Project ID.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
ADL2 Automated Data Logger Data Entry		TSRADL
Data Logger ID	Installation ID	ID_CODE
Install Date	Install Date/Time	INSTALL_DATE
		INSTALL_TIME
Removal Date	Removal Date/Time	DEPARTURE_DATE
		REMOVAL_TIME
Medium	Medium	MEDIUM_TYPE_NAME
		TSRMATRX
Sample Matrix	Matrix	NAME
		TSMSTATN
Station	Station	IDENTIFICATION_CD
	N/A	NAME
OP2 Operating Period Data Entry		TSROPPRD
Log File Name	Log File Name	LOG_FILE_NAME
Start Date	Start Date/Time	START_DATE
		START_TIME
Stop Date	Stop Date/Time	STOP_DATE
		STOP_TIME
Sampling Interval, Hours	Sampling Interval, Hours	INTERVAL_HOURS
Sampling Interval, Minutes	Sampling Interval, Minutes	INTERVAL_MINUTES
Sampling Interval, Seconds	Sampling Interval, Seconds	INTERVAL_SECONDS
Automated Logger Data File	Automated Logger Data File	BLOB_TITLE
OP3 Operating Period Project Assignment		TSMPROJ
Project(s) Assigned	Project ID	IDENTIFICATION_CD

EXAMPLE

Automated Data Logger Summary

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Installation ID CBCDL-01 **Station** CBC-022 / Wicomico River Mouth **Install Date** 01/10/1992 10:00:00
Medium Sediment **Removal Date** 02/10/1992 12:00:00
Sample Matrix Water Filter (Solid Material used to filter Water)

Log File Name	Sampling Interval Hours	Minutes	Seconds	Start Date	Stop Date	Project(s) Assigned
022-001	4	0	0	01/10/1992 10:00:00	01/20/1992 10:00:00	CBCP-001 CBCP-002
Automated Logger Data File	Raw Data for Log File 022-001					
022-002	2	0	0	01/10/1992 10:10:10	01/12/1992 12:10:10	CBCP-001
Automated Logger Data File	WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWE ND					

Installation ID CBCDL-02 **Station** CBC-022 / Wicomico River Mouth **Install Date** 01/10/1992 10:00:00
Medium Sediment **Removal Date** 02/10/1992 12:00:00

Log File Name	Sampling Interval Hours	Minutes	Seconds	Start Date	Stop Date	Project(s) Assigned
022-001	4	0	0	01/10/1992 10:00:00	01/20/1992 10:00:00	CBCP-001 CBCP-002
022-002	2	0	0	01/10/1992 10:10:10	01/12/1992 12:10:10	CBCP-001

Automated Data Logger Detail

Report Description: This report provides detailed information on the Automated Data Loggers for the selected Organizations.

The following fields will not appear if there is no data present:

- Sample Matrix.
- Automated Logger Data File.
- Comments.
- Calibration Info/Comments.

Log File Header will repeat for each Log File.

Special Separators:

- Line beginning each Log File/Operating Period.

Select Logic: **AutoLog.sql**

```
SELECT
O.ORG_ID,
RTRIM(O.NAME) ORG,
L.ID_CODE LID,
RTRIM(S.IDENTIFICATION_CD) || ' / ' || RTRIM(S.NAME) STATION,
DECODE(TO_CHAR(L.INSTALL_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(L.INSTALL_DATE, 'MM/DD/YYYY') || '  ' ||
DECODE(TO_CHAR(L.INSTALL_TIME,
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(L.INSTALL_TIME,'HH24:MI:SS')))
LG_INST,
DECODE( TO_CHAR(L.DEPARTURE_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(L.DEPARTURE_DATE, 'MM/DD/YYYY') || '  ' ||
DECODE(TO_CHAR(L.REMOVAL_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(
L.REMOVAL_TIME,'HH24:MI:SS'))) LG_RMVL,
L.MEDIUM_TYPE_NAME,
L.MAKE,
L.MODEL,
L.SERIAL_NUMBER,
RTRIM(L.COMMENT_TEXT) LG_CMMT,
M.NAME SAMPLE_MATRIX,
RTRIM(D.LOG_FILE_NAME) LOG_FILE_NAME,
D.INTERVAL_HOURS,
D.INTERVAL_MINUTES,
D.INTERVAL_SECONDS,

DECODE(TO_CHAR(D.START_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(D.START_DATE, 'MM/DD/YYYY') || '  ' ||
DECODE(TO_CHAR(D.START_TIME,
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(D.START_TIME,'HH24:MI:SS'))) PDStart,

DECODE(TO_CHAR(D.STOP_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(D.STOP_DATE, 'MM/DD/YYYY') || '  ' ||
```

```
DECODE(TO_CHAR(D.STOP_TIME,
'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(D.STOP_TIME,'HH24:MI:SS'))) PDStop,
D.BLOB_TITLE BLOB_TITLE,

RTRIM(D.COMMENT_TEXT) PD_CMMT,
D.TSROPPRD_IS_NUMBER,
D.TSROPPRD_ORG_ID

FROM
TSMORGAN O,
TSRADL L,
TSROPPRD D,
TSMSTATN S ,
TSRMATRX M

WHERE
O.TSMORGAN_IS_NUMBER = S.TSMORGAN_IS_NUMBER
AND   S.TSMSTATN_IS_NUMBER = L.TSMSTATN_IS_NUMBER
AND S.TSMSTATN_ORG_ID =  L.TSMSTATN_ORG_ID
AND L.TSRADL_IS_NUMBER = D.TSRADL_IS_NUMBER(+)
AND L.TSRADL_ORG_ID = D.TSRADL_ORG_ID(+)
AND L.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
&P_ORG &P_ADL &P_OPPRD

ORDER BY
O.ORG_ID,
L.ID_CODE,
D.LOG_FILE_NAME
```

AutomatedDataLoggerDetailProjectsub.sql

```
SELECT
A.TSROPPRD_IS_NUMBER,
A.TSROPPRD_ORG_ID,
P.IDENTIFICATION_CD PRJ_ID

FROM
TSRPOPA A,
TSMPROJ P

WHERE
A.TSMPROJ_IS_NUMBER=P.TSMPROJ_IS_NUMBER
AND A.TSMPROJ_ORG_ID=P.TSMPROJ_ORG_ID

ORDER BY
PRJ_ID
```

AutomatedDataLoggerDetailResultsub.sql

```
SELECT
F.TSROPPRD_IS_NUMBER,
F.TSROPPRD_ORG_ID,

F.ID_CODE FDID,
DECODE(TO_CHAR(F.START_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(F.START_DATE, 'MM/DD/YYYY') || '  ' ||
```

```
DECODE(TO_CHAR(F.START_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.
START_TIME,'HH24:MI:SS'))|| '  ' || F.START_TIME_ZONE) FDStart,

RTRIM(C.DISPLAY_NAME) DISPLAY_NAME,
RTRIM(R.VALUE_TEXT) VALUE_TEXT,
RTRIM(U.SHORT_FORM_NAME) UNIT,
RTRIM(R.VALUE_TYPE_NAME) VALUE_TYPE,
RTRIM(R.STATISTIC_TYPE_NM) STATISTIC_TYPE,
DECODE(R.VALUE_STATUS,'F', 'Final', 'P','Preliminary', Null)  VALUE_STATUS,
RTRIM(PV.FIELD_VALUE) SMPL_FRAC

FROM
TSRFDACT F,
TSRRSULT R,
TSRCHAR C,
TSRUOM U,
TSMPRMVL PV

WHERE
F.TSRFDACT_IS_NUMBER=R.TSRFDACT_IS_NUMBER
AND F.TSRFDACT_ORG_ID=R.TSRFDACT_ORG_ID
AND R.TSRCHAR_IS_NUMBER=C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID = C.TSRCHAR_ORG_ID
AND R.TSRUOM_IS_NUMBER = U.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID = U.TSRUOM_ORG_ID(+)
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND F.TSROPPRD_IS_NUMBER IS NOT NULL
AND  F.TSROPPRD_ORG_ID IS NOT NULL
&P_ADATE

ORDER BY
C.DISPLAY_NAME
```

Select Options: Organizations

Sort Sequence: By ascending Organization ID, by ascending Installation ID, by ascending Log File Name, by Activity Start Date, by Activity Start Time, by “User Defined” Characteristic.

C Assigned Projects - By ascending Project ID.

Page Break: Before beginning a new Organization.

Report Heading	**Prompt Name**	**Oracle Name**
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
ADL2 Automated Data Logger Data Entry		TSRADL
Data Logger ID	Installation ID	ID_CODE
Install Date	Install Date/Time	INSTALL_DATE

Report Heading	Prompt Name	Oracle Name
		INSTALL_TIME
Removal Date	Removal Date/Time	DEPARTURE_DATE
		REMOVAL_TIME
Medium	Medium	MEDIUM_TYPE_NAME
Make	Data Recorder, Make	MAKE
Model	Data Recorder, Model	MODEL
Serial Number	Data Recorder, Serial Number	SERIAL_NUMBER
Comment	Comment	COMMENT_TEXT
		TSRMATRX
Sample Matrix	Matrix	NAME
		TSMSTATN
Station	Station	IDENTIFICATION_CD
	N/A	NAME
OP2 Operating Period Data Entry		TSROPPRD
Log File Name	Log File Name	LOG_FILE_NAME
Start Date	Start Date/Time	START_DATE
		START_TIME
Stop Date	Stop Date/Time	STOP_DATE
		STOP_TIME
Sampling Interval, Hours	Sampling Interval, Hours	INTERVAL_HOURS
Sampling Interval, Minutes	Sampling Interval, Minutes	INTERVAL_MINUTES
Sampling Interval, Seconds	Sampling Interval, Seconds	INTERVAL_SECONDS
Calibration Info/Comments	Calibration Info/Comments	COMMENT_TEXT
Automated Logger Data File	Automated Logger Data File	BLOB_TITLE
OP3 Operating Period Project Assignment		TSMPROJ
Project(s) Assigned	Project ID	IDENTIFICATION_CD
OP6 Operating Period Characteristic Maintenance List		TSRCHAR
Characteristic (Probe)	Display Name	DISPLAY_NAME
OP7 Operating Period Result Data Entry		TSRFDACT
N/A	Select Field Activity, Date	START_DATE
	Select Field Activity, Time	START_TIME
R4 Chemical Result Data Entry **R8 Physical Result Data Entry**		TSRRSULT
N/A	Value	VALUE_TEXT
Value Type	Value Type	VALUE_TYPE_NAME
Statistic Type	Statistic Type	STATISTIC_TYPE_NM
Value Status	Value Status	VALUE STATUS
		TSMPRMVL
Sample Fraction	Sample Fraction Type	SMPL_FRAC_TYPE_NM
		TSRUOM
N/A	Unit	SHORT_FORM_NAME

EXAMPLE

Automated Data Logger Detail

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Installation ID	CBCDL-01	**Station**	CBC-022 / Wicomico River Mouth	**Install Date**	01/10/1992 10:00:00	**Removal Date**	02/10/1992 12:00:00
Medium	Sediment	**Make**	Manning & King Co.	**Model**	Water Master 2000	**Serial Number**	0987-wm-01
Sample Matrix	Water Filter (Solid Material used to filter Water)						
Comment	This logger had to be removed because an internal explosion occured in the recording unit.						

	Sampling Interval					
Log File Name	**Hours**	**Minutes**	**Seconds**	**Start Date**	**Stop Date**	**Project(s) Assigned**
022-001	4	0	0	01/10/1992 10:00:00	01/20/1992 10:00:00	CBCP-001 CBCP-002

Automated Logger Data File Raw Data for Log File 022-001

Calibration Info/Comments All probes were calibrated at the factory and tested at the Chesapeake Bay Test Facility prior to deployment.

01/10/1992	10:00:00 EST			**Sample Fraction**	**Value Type**	**Statistic Type**	**Value Status**
Nitrogen, Ammonia		3.543	mg/l	Non-settleable	Calculated	Standard Deviation	Final
Temperature, Water		8.34	deg C		Calculated	Mean	Preliminary
01/10/1992	14:00:00 EST			**Sample Fraction**	**Value Type**	**Statistic Type**	**Value Status**
Nitrogen, Ammonia		3.543	mg/l	Non-settleable	Calculated	Standard Deviation	Final
Temperature, Water		8.34	deg C		Calculated	Mean	Preliminary

Automated Data Logger Result Inventory Summary

Report Description:

This report provides minimum, maximum and average result values for each unique Characteristic, Sample Fraction Type, Value Type, Statistic Type, Unit of Measure, and Textual Result combination. The total number of contributing values will be displayed as the number of observations. The oldest and most recent Activity Start Date associated with the contributing values will be displayed.

Concatenate Characteristic, Sample Fraction Type, Value Type, Statistic Type, and Unit of Measure. All fields will be concatenated with a comma and a space.

Biological results are not included on the report.

Non-Automated Data Logger results are not included on report.

Null values and Characteristics with null values will not be included in the report.

When the Result Value is a text indicator or textual in nature, display "—" in the Average and Maximum fields.

Column headers will be repeated on each page.

The following fields will be hidden if there is no data.

- None.

Special separators:

- Hairline above each columnar row.

Select Logic:

ADLInvSummary.sql

```
SELECT o.org_id, o.name org_name,
  rtrim(c.display_name)||', '||
    rtrim(pv.field_value)||', '||
     rtrim(r.value_type_name)||', '||
      rtrim(r.statistic_type_nm)||', '||
       rtrim(u.short_form_name)
                                                  "CHARACTERISTIC",
    count(*)                                       "NUM OBS",
    r.value_text                                  "    MINIMUM",
    '        ---'                                 "    AVERAGE",
    '        ---'                                 "    MAXIMUM",
    to_char(min(a.start_date),'MM/DD/YYYY')        " ACTIVITY_FROM",
    to_char(max(a.start_date),'MM/DD/YYYY')        " ACTIVITY_TO"
FROM
    tsrrsult  r,
    tsruom    u,
```

```
    tsrfdact  a,
    tsrchar c,
    tsmorgan  o,
    TSROPPRD D,
    TSRADL L,
    TSMSTATN S,
    TSMPRMVL PV
WHERE
     r.tsrchar_is_number=c.tsrchar_is_number
     AND a.medium_type_name<>'Biological'
     AND ((length(ltrim(rtrim(value_text,'0123456789-+. '),'0123456789-+. ')) > 0) OR
length(ltrim(rtrim(value_text,'-+. '),'-+. ')) is null) AND value_text <> ' '
     AND r.tsruom_is_number=u.tsruom_is_number(+)
     AND (r.tsrfdact_is_number=a.tsrfdact_is_number AND
r.tsrfdact_org_id=a.tsrfdact_org_id)
     AND o.org_id=a.tsrfdact_org_id
     AND O.TSMORGAN_IS_NUMBER = S.TSMORGAN_IS_NUMBER(+)
     AND S.TSMSTATN_IS_NUMBER = L.TSMSTATN_IS_NUMBER
     AND S.TSMSTATN_ORG_ID =  L.TSMSTATN_ORG_ID
     AND L.TSRADL_IS_NUMBER = D.TSRADL_IS_NUMBER(+)
     AND L.TSRADL_ORG_ID = D.TSRADL_ORG_ID(+)
     AND D.TSROPPRD_IS_NUMBER = A.TSROPPRD_IS_NUMBER
     AND D.TSROPPRD_ORG_ID = A.TSROPPRD_ORG_ID
     AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
    &P_ORG  &P_ADL &P_OPPRD &P_ADATE
GROUP BY
      o.org_id,o.name,
        c.display_name,
          pv.field_value,
            r.value_type_name,
              rtrim(r.statistic_type_nm),
                u.short_form_name,
                  r.value_text

SELECT 2
UNION
SELECT o.org_id, o.name org_name,
  rtrim(c.display_name)||', '||
     rtrim(pv.field_value)||', '||
      rtrim(r.value_type_name)||', '||
       rtrim(r.statistic_type_nm)||', '||
        rtrim(u.short_form_name)
                                                  "CHARACTERISTIC",
    count(*)                                       "NUM OBS",
    ltrim(rtrim(min(to_number(r.value_text))))          "    MINIMUM",
    ltrim(rtrim(to_char(round(avg(to_number(r.value_text)),5))))          "
AVERAGE",
    ltrim(rtrim(max(to_number(r.value_text))))          "    MAXIMUM",
    to_char(min(a.start_date),'MM/DD/YYYY')     " ACTIVITY_FROM",
    to_char(max(a.start_date),'MM/DD/YYYY')     " ACTIVITY_TO"
FROM
    tsrrsult  r,
    tsruom    u,
    tsrfdact  a,
```

```
    tsrchar c,
    tsmorgan  o,
    TSROPPRD D,
    TSRADL L,
    TSMSTATN S,
     TSMPRMVL PV
WHERE
     r.tsrchar_is_number=c.tsrchar_is_number
     AND a.medium_type_name<>'Biological'
     AND (length(ltrim(rtrim(value_text,'0123456789-+. '),'0123456789-+. ')) is null)
AND length(ltrim(rtrim(value_text,'-+. '),'-+. ')) > 0 AND value_text <> ' '
     AND r.tsruom_is_number=u.tsruom_is_number(+)
     AND (r.tsrfdact_is_number=a.tsrfdact_is_number AND
r.tsrfdact_org_id=a.tsrfdact_org_id)
     AND o.org_id=a.tsrfdact_org_id
     AND O.TSMORGAN_IS_NUMBER = S.TSMORGAN_IS_NUMBER(+)
     AND S.TSMSTATN_IS_NUMBER = L.TSMSTATN_IS_NUMBER
     AND S.TSMSTATN_ORG_ID =  L.TSMSTATN_ORG_ID
     AND L.TSRADL_IS_NUMBER = D.TSRADL_IS_NUMBER(+)
     AND L.TSRADL_ORG_ID = D.TSRADL_ORG_ID(+)
     AND D.TSROPPRD_IS_NUMBER = A.TSROPPRD_IS_NUMBER
     AND D.TSROPPRD_ORG_ID = A.TSROPPRD_ORG_ID
     AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
    &P_ORG  &P_ADL &P_OPPRD &P_ADATE
GROUP BY
      o.org_id,o.name,
        c.display_name,
          pv.field_value,
            r.value_type_name,
              rtrim(r.statistic_type_nm),
                u.short_form_name
```

Select Options: Organization, Installations, Operating Periods, Activity Date

Sort Sequence: By ascending Organization ID, by ascending Characteristic, by ascending Sample Fraction Type, by ascending Value Type, by ascending Statistic Type, by ascending Unit of Measure.

- Textual Results - by ascending Result Value.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
OP2 Operating Period Data Entry Data Entry		TSRFDACT
Activity From Activity to	Start, MM-DD-YYYY, Activity	START_DATE
R4 Chemical Result Data Entry **R8 Physical Result Data Entry**		TSRRSULT

Report Heading	Prompt Name	Oracle Name
Minimum Average Maximum	Value	VALUE_TEXT
N/A	Value Type	VALUE_TYPE_NAME
N/A	Statistic Type	STATISTIC_TYPE_NM
		TSMPRMVL
N/A	Sample Fraction Type	SMPL_FRAC_TYPE_NM
		TSRCHAR
Characteristic	Characteristic	DISPLAY_NAME
		TSRUOM
N/A	Unit	SHORT_FORM_NAME

EXAMPLE

Automated Data Logger Result Inventory Summary

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DEMOTEST The Commission for a Good Clean Chesapeake Bay

Characteristic	# of Obs.	Minimum	Average	Maximum	Activity From	Activity To
Dissolved Oxygen-D,Total,Actual ,ug/l	1	.013	.013	.013	02/02/1991	02/02/1991
Temperature, Water,Total,Actual ,deg C	6	60.000	74.000	98.000	02/02/1991	03/01/1991
Temperature, Water,,Actual Mean, deg K	1	88888888.888	88888888.888	88888888.888	02/02/1991	02/02/1991

Automated Data Logger Result Inventory Summary by Station

Report Description:

This report provides minimum, maximum and average result values for each unique Characteristic, Sample Fraction Type, Value Type, Statistic Type, Unit of Measure, and Textual Result combination. The total number of contributing values will be displayed as the number of observations. The oldest and most recent Activity Start Date associated with the contributing values will be displayed. Data is grouped by Station and Installation.

Concatenate Characteristic, Sample Fraction Type, Value Type, Statistic Type, and Unit of Measure. All fields will be concatenated with a comma and a spaces.

Biological results are not included on the report.

Non-Automated Data Logger results are not included on report.

Null values and Characteristics with null values will not be included in the report.

When the Result Value is a text indicator or textual in nature, display "—" in the Average and Maximum fields.

Column headers will be repeated on each page.

The following fields will be hidden if there is no data.

- None.

Special separators:

- Hairline above each columnar row.

Select Logic:

ADLInvSumByStation.sql

```
SELECT o.org_id, o.name org_name,s.identification_cd,s.name,l.id_code,
  rtrim(c.display_name)||', '||
    rtrim(pv.field_value)||', '||
     rtrim(r.value_type_name)||', '||
      rtrim(r.statistic_type_nm)||', '||
       rtrim(u.short_form_name)
                                                  "CHARACTERISTIC",
   count(*)                                        "NUM OBS",
   rtrim(r.value_text)                           "   MINIMUM",
   '       ---'                                  "   AVERAGE",
   '       ---'                                  "   MAXIMUM",
   to_char(min(a.start_date),'MM/DD/YYYY')        " ACTIVITY_FROM",
   to_char(max(a.start_date),'MM/DD/YYYY')        " ACTIVITY_TO"
FROM
   tsrrsult  r,
```

```
    tsruom    u,
    tsrfdact  a,
    tsrchar c,
    tsmorgan  o,
    TSROPPRD D,
    TSRADL L,
    TSMSTATN S,
    TSMPRMVL PV
WHERE
     r.tsrchar_is_number=c.tsrchar_is_number
     AND a.medium_type_name<>'Biological'
     AND ((length(ltrim(rtrim(value_text,'0123456789-+. '),'0123456789-+. ')) > 0) OR
length(ltrim(rtrim(value_text,'-+. '),'-+. ')) is null) AND value_text <> ' '
     AND r.tsruom_is_number=u.tsruom_is_number(+)
     AND (r.tsrfdact_is_number=a.tsrfdact_is_number AND
r.tsrfdact_org_id=a.tsrfdact_org_id)
     AND o.org_id=a.tsrfdact_org_id
     AND O.TSMORGAN_IS_NUMBER = S.TSMORGAN_IS_NUMBER(+)
     AND S.TSMSTATN_IS_NUMBER = L.TSMSTATN_IS_NUMBER
     AND S.TSMSTATN_ORG_ID =  L.TSMSTATN_ORG_ID
     AND L.TSRADL_IS_NUMBER = D.TSRADL_IS_NUMBER(+)
     AND L.TSRADL_ORG_ID = D.TSRADL_ORG_ID(+)
     AND D.TSROPPRD_IS_NUMBER = A.TSROPPRD_IS_NUMBER
     AND D.TSROPPRD_ORG_ID = A.TSROPPRD_ORG_ID
     AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
    &P_ORG  &P_ADL &P_OPPRD &P_ADATE
GROUP BY
      o.org_id,o.name,s.identification_cd,s.name,l.id_code,
        c.display_name,
          pv.field_value,
            r.value_type_name,
              rtrim(r.statistic_type_nm),
                u.short_form_name,
                  r.value_text

SELECT 2
UNION
SELECT o.org_id, o.name org_name,s.identification_cd,s.name,l.id_code,
  rtrim(c.display_name)||', '||
     rtrim(pv.field_value)||', '||
      rtrim(r.value_type_name)||', '||
       rtrim(r.statistic_type_nm)||', '||
        rtrim(u.short_form_name)
                                                "CHARACTERISTIC",
    count(*)                                     "NUM OBS",
    ltrim(rtrim(min(to_number(r.value_text))))          "    MINIMUM",
    ltrim(rtrim(to_char(round(avg(to_number(r.value_text)),5))))          "
AVERAGE",
    ltrim(rtrim(max(to_number(r.value_text))))          "    MAXIMUM",
    to_char(min(a.start_date),'MM/DD/YYYY')        " ACTIVITY_FROM",
    to_char(max(a.start_date),'MM/DD/YYYY')        " ACTIVITY_TO"
FROM
    tsrrsult  r,
```

```
    tsruom    u,
    tsrfdact  a,
    tsrchar c,
    tsmorgan  o,
    TSROPPRD D,
    TSRADL L,
    TSMSTATN S,
    TSMPRMVL PV
WHERE
     r.tsrchar_is_number=c.tsrchar_is_number
     AND a.medium_type_name<>'Biological'
     AND (length(ltrim(rtrim(value_text,'0123456789-+. '),'0123456789-+. ')) is null) AND
length(ltrim(rtrim(value_text,'-+. '),'-+. ')) > 0 AND value_text <> ' '
     AND r.tsruom_is_number=u.tsruom_is_number(+)
     AND (r.tsrfdact_is_number=a.tsrfdact_is_number AND
r.tsrfdact_org_id=a.tsrfdact_org_id)
     AND o.org_id=a.tsrfdact_org_id
     AND O.TSMORGAN_IS_NUMBER = S.TSMORGAN_IS_NUMBER(+)
     AND S.TSMSTATN_IS_NUMBER = L.TSMSTATN_IS_NUMBER
     AND S.TSMSTATN_ORG_ID =  L.TSMSTATN_ORG_ID
     AND L.TSRADL_IS_NUMBER = D.TSRADL_IS_NUMBER(+)
     AND L.TSRADL_ORG_ID = D.TSRADL_ORG_ID(+)
     AND D.TSROPPRD_IS_NUMBER = A.TSROPPRD_IS_NUMBER
     AND D.TSROPPRD_ORG_ID = A.TSROPPRD_ORG_ID
     AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
    &P_ORG  &P_ADL &P_OPPRD &P_ADATE
GROUP BY
      o.org_id,o.name,s.identification_cd,s.name,l.id_code,
        c.display_name,
          pv.field_value,
            r.value_type_name,
              rtrim(r.statistic_type_nm),
                u.short_form_name
```

Select Options: Organization, Installations, Operating Periods, Activity Date

Sort Sequence: By ascending Organization ID, by ascending Station ID, by ascending Installation ID, by ascending Characteristic, by ascending Sample Fraction Type, by ascending Value Type, by ascending Statistic Type, by ascending Unit of Measure.

- Textual Results - by ascending Result Value.

Page Break: Before beginning a new Organization.

Report Heading	**Prompt Name**	**Oracle Name**
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME

Report Heading	Prompt Name	Oracle Name
OP2 Operating Period Data Entry Data Entry		TSRFDACT
Activity From Activity to	Start, MM-DD-YYYY, Activity	START_DATE
R4 Chemical Result Data Entry **R8 Physical Result Data Entry**		TSRRSULT
Minimum Average Maximum	Value	VALUE_TEXT
N/A	Value Type	VALUE_TYPE_NAME
N/A	Statistic Type	STATISTIC_TYPE_NM
		TSMPRMVL
N/A	Sample Fraction Type	SMPL_FRAC_TYPE_NM
		TSRCHAR
Characteristic	Characteristic	DISPLAY_NAME
		TSRUOM
N/A	Unit	SHORT_FORM_NAME
ADL2 Automated Data Logger Data Entry		TSRADL
Data Logger ID	Installation ID	ID_CODE
		TSMSTATN
Station	ID	IDENTIFICATION_CD
	Name	NAME

EXAMPLE

Automated Data Logger Result Inventory Summary by Station

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Station CBC-002 Patapsco River Mouth

Installation CBCDL-002

Characteristic	# of Obs.	Minimum	Average	Maximum	Activity From	Activity To
Dissolved Oxygen-D,Total,Actual ,ug/l	1	.013	.013	.013	02/02/1991	02/02/1991
Temperature, Water,Total,Actual ,deg C	6	60.000	74.000	98.000	02/02/1991	03/01/1991
Temperature, Water,,Actual Mean, deg K	1	88888888.888	88888888.888	88888888.888	02/02/1991	02/02/1991

Unassigned Activities to Projects

Report Description: This report provides a listing of Activities that do not have assigned Projects.

The following fields will be hidden if no data is present:
C / rep.

Column header repeats on each page.

Consecutive repetitions of Trips and Stations will be suppressed.

Special Separators
C Horizontal line from margin to margin under column header.

Select Logic:

UnassignedActivities.sql

```
SELECT distinct
O.ORG_ID,
RTRIM(O.NAME) ORG_NAME,
DECODE(T.ID_CODE, NULL, NULL, RTRIM(T.ID_CODE) ) TRP,
DECODE(S.IDENTIFICATION_CD, NULL,NULL, RTRIM(S.IDENTIFICATION_CD))
STATION,
V.ID_NUMBER VISIT_ID,
DECODE(F.ID_CODE,  NULL, NULL, RTRIM(F.ID_CODE) ||
DECODE(F.REPLICATE_NUMBER, 0,'', ' / repl '||F.REPLICATE_NUMBER)) FDID
from
tsmorgan o,
tsrtrip t,
tsrtpa p,
tsrtsa tsa,
tsmstatn s,
tsrstvst v,
tsrfdact f,
tsmproj j
where
O.TSMORGAN_IS_NUMBER =T.TSMORGAN_IS_NUMBER
AND t.TSrtrip_IS_NUMBER = p.TSrtrip_IS_NUMBER
AND t.Tsrtrip_ORG_ID = p.TSrtrip_ORG_ID
AND p.TSmproj_IS_NUMBER = j.TSmproj_IS_NUMBER
AND p.Tsmproj_ORG_ID = j.TSmproj_ORG_ID
AND t.TSrtrip_IS_NUMBER = tsa.TSrtrip_IS_NUMBER
AND t.Tsrtrip_ORG_ID = tsa.TSrtrip_ORG_ID
and tsa.tsmstatn_is_number = s.tsmstatn_is_number
and tsa.tsmstatn_org_id = s.tsmstatn_org_id
and tsa.tsrtrip_is_number = v.tsrtrip_is_number
and tsa.tsrtrip_org_id = v.tsrtrip_org_id
and tsa.tsmstatn_is_number = v.tsmstatn_is_number
and tsa.tsmstatn_org_id = v.tsmstatn_org_id
and v.tsrstvst_is_number = f.tsrstvst_is_number
and v.tsrstvst_org_id = f.tsrstvst_org_id
```

```
and not exists (select 'x' from tsrfapra a
        where f.tsrfdact_is_number = a.tsrfdact_is_number
          and f.tsrfdact_org_id = a.tsrfdact_org_id)
&P_ORG &P_TRP &P_ADATE
```

Select Options: Organizations, Trips, Activity Date Range

Sort Sequence: By ascending Organization ID, by ascending Trip ID, by ascending Station ID, by ascending Visit Number, by ascending Activity ID, by ascending Activity Replicate Number.

Page Break: Before beginning a new Organization.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
N/A	ID	ORG_ID
N/A	Name	NAME
T3 Field Trip Data Entry		TSRTRIP
Trip ID	ID	ID_CODE
ST4 Station Data Entry		TSMSTATN
Station ID	ID	IDENTIFICATION_CD
SV3 Station Visit Data Entry		TSRSTVST
Visit #	Visit Number	ID_NUMBER
FA3 Field Measurement/Observation Data Entry **FA2 Sample Data Entry** **SV5 Activity Type Selection**		TSRFDACT
Activity ID /repl	ID	ID_CODE
	Replicate Number	REPLICATE_NUMBER

EXAMPLE

Unassigned Activities to Projects

June 18, 2002 15:37:20

DEMOTEST The Commission for a Good Clean Chesapeake Bay

Trip ID	Station ID	Visit #	Activity ID
02-1991-1	CBC-001	1	02-91-003-03
02-1991-2	CBC-001	1	02-91-003-03
	CBC-002	1	02-91-003-03
		2	02-91-003-03
		2	02-91-003-04
		2	02-91-003-04 / repl 1
		2	02-91-003-04 / repl 2
02-1991-3	CBC-001	1	02-91-003-03
		2	02-91-003-03
		3	02-91-003-03
		4	02-91-003-03
		5	02-91-003-03
		6	02-91-003-03
		7	02-91-003-03
		8	02-91-003-03
		9	02-91-003-03
		10	02-91-003-03
		11	02-91-003-03
		12	02-91-003-03
	CBC-002	1	02-91-003-03
		2	02-91-003-03
		3	02-91-003-03
		4	02-91-003-03
		5	02-91-003-03
WWWWWWWWWWWWWW	WWWWWWWWWWWWWW	WWW	WWWWWWWWWWWW / repl WWW

Export: Automated Data Logger Detail

Report Description: This tilde-delimited export file report provides a summary of data associated with each selected Organization including Data Logger ID information, Log File Information, and Activity Information including Results for each Characteristic.

Suppress result rows when no Characteristics have been assigned.

Select Logic:

```
SELECT rtrim(O.ORG_ID) ORG_ID,
RTRIM(O.NAME) ORGANIZATION,
rtrim(L.ID_CODE) ID_CODE,
DECODE(TO_CHAR(L.INSTALL_DATE,'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(L.INSTALL_DATE,'MM/DD/YYYY')) INSTALL_DATE,
DECODE(TO_CHAR(L.INSTALL_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(L.
INSTALL_TIME,'HH24:MI:SS')) INSTALL_TIME,
DECODE(TO_CHAR(L.DEPARTURE_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(L.DEPARTURE_DATE, 'MM/DD/YYYY')) DEPARTURE_DATE,
DECODE(TO_CHAR(L.REMOVAL_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(
L.REMOVAL_TIME,'HH24:MI:SS')) REMOVAL_TIME,
rtrim(L.MEDIUM_TYPE_NAME) MEDIUM_TYPE_NAME,
M.NAME SAMPLE_MATRIX,
rtrim(L.MAKE) MAKE,
rtrim(L.MODEL) MODEL,
rtrim(L.SERIAL_NUMBER) SERIAL_NUMBER,
RTRIM(L.COMMENT_TEXT) COMMENT_TEXT,
RTRIM(S.IDENTIFICATION_CD) STATION_ID,
RTRIM(S.NAME) STATION_NAME,
RTRIM(D.LOG_FILE_NAME) LOG_FILE_NAME,
rtrim(DECODE(TO_CHAR(D.START_DATE,'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(D.START_DATE, 'MM/DD/YYYY'))) START_DATE,
rtrim(DECODE(TO_CHAR(D.START_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHA
R(D.START_TIME,'HH24:MI:SS'))) START_TIME,
rtrim(DECODE(TO_CHAR(D.STOP_DATE, 'MM/DD/YYYY'),'01/01/0001', NULL,
TO_CHAR(D.STOP_DATE, 'MM/DD/YYYY'))) STOP_DATE,
rtrim(DECODE(TO_CHAR(D.STOP_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(
D.STOP_TIME,'HH24:MI:SS'))) STOP_TIME,
D.INTERVAL_HOURS INTERVAL_HOURS,
D.INTERVAL_MINUTES INTERVAL_MINUTES,
D.INTERVAL_SECONDS INTERVAL_SECONDS,
RTRIM(D.COMMENT_TEXT)
OP_COMMENT_TEXT,rtrim(P.IDENTIFICATION_CD) PROJECT_ID,
RTRIM(C.DISPLAY_NAME) DISPLAY_NAME,
rtrim(DECODE(TO_CHAR(F.START_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(F.START_DATE, 'MM/DD/YYYY'))) FA_START_DATE,
rtrim(DECODE(TO_CHAR(F.START_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR
(F.START_TIME,'HH24:MI:SS')) F.START_TIME_ZONE) FA_START_TIME,
RTRIM(R.VALUE_TEXT) VALUE_TEXT,
R.VALUE_MEASURE VALUE_MEASURE,
rtrim(PV.FIELD_VALUE) SAMPLE_FRACTION,
RTRIM(U.SHORT_FORM_NAME) SHORT_FORM_NAME,
```

```
RTRIM(R.VALUE_TYPE_NAME) VALUE_TYPE_NAME,
RTRIM(R.STATISTIC_TYPE_NM) STATISTIC_TYPE,
rtrim(DECODE(R.VALUE_STATUS,'F', 'Final', 'P','Preliminary', Null))
VALUE_STATUS,
rtrim(R.PRECISION_AMT_TEXT) PRECISION_AMT_TEXT,
rtrim(R.CONF_LVL_PCT_MSR) CONFIDENCE_LEVEL,
rtrim(R.DETECT_COND_CD) DETECTION_CODE,
rtrim(R.DUR_BASIS_TYPE_NM) DURATION_BASIS,
rtrim(R.WT_BASIS_TYPE_NM) WEIGHT_BASIS,
rtrim(R.TEMP_BASIS_LVL_NM) TEMP_LEVEL,
R.REPL_ANALYSIS_NUM REPL_ANALYSIS,
rtrim(R.REF_PT_FROM_NAME) REFERENCE_FROM,
rtrim(R.REF_PT_TO_NAME) REF_TO,
rtrim(CI.PARTICLE_SIZE_BASIS) PARTICLE_SIZE,
rtrim(T.DESCRIPTION_TEXT) DESC_TEXT
FROM
TSMORGAN O,
TSRADL L,
TSROPPRD D,
TSMSTATN S,
TSRPOPA A,
TSMPROJ P,
TSRFDACT F,
TSRRSULT R,
TSRCHAR C,
TSRUOM U,
TSRRCI CI,
TSMGNTXT T,
TSMPRMVL PV,
TSRMATRX M
WHERE
O.TSMORGAN_IS_NUMBER = S.TSMORGAN_IS_NUMBER
AND S.TSMSTATN_IS_NUMBER = L.TSMSTATN_IS_NUMBER
AND S.TSMSTATN_ORG_ID =  L.TSMSTATN_ORG_ID
AND L.TSRADL_IS_NUMBER = D.TSRADL_IS_NUMBER(+)
AND L.TSRADL_ORG_ID = D.TSRADL_ORG_ID(+)
AND D.TSROPPRD_IS_NUMBER = A.TSROPPRD_IS_NUMBER
AND D.TSROPPRD_ORG_ID = A.TSROPPRD_ORG_ID
AND A.TSMPROJ_IS_NUMBER=P.TSMPROJ_IS_NUMBER
AND A.TSMPROJ_ORG_ID=P.TSMPROJ_ORG_ID
AND D.TSROPPRD_IS_NUMBER = F.TSROPPRD_IS_NUMBER
AND D.TSROPPRD_ORG_ID = F.TSROPPRD_ORG_ID
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND F.TSRFDACT_IS_NUMBER=R.TSRFDACT_IS_NUMBER
AND F.TSRFDACT_ORG_ID=R.TSRFDACT_ORG_ID
AND R.TSRCHAR_IS_NUMBER=C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID = C.TSRCHAR_ORG_ID
AND R.TSRRSULT_IS_NUMBER = CI.TSRRSULT_IS_NUMBER(+)
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = CI.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = T.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = T.TSRRSULT_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER = U.TSRUOM_IS_NUMBER(+)
```

```
AND R.TSRUOM_ORG_ID = U.TSRUOM_ORG_ID(+)
AND F.TSROPPRD_IS_NUMBER IS NOT NULL
AND F.TSROPPRD_ORG_ID IS NOT NULL
ORDER BY
O.ORG_ID,
L.ID_CODE, D.LOG_FILE_NAME,
P.IDENTIFICATION_CD,
F.START_DATE,
F.START_TIME,
R.D_ASSND_SEQ_NUM
```

Select Options: Organization, Installations, Log Files, Activity Dates

Sort Sequence: By ascending Organization ID, by ascending Installation ID, by ascending Log File Name, by Activity Start Date, by Activity Start Time, by "User Defined" Characteristic.

C Assigned Projects - By ascending Project ID.

Page Break: None.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
	ID	ORG_ID
	Name	NAME
ADL2 Automated Data Logger Data Entry		TSRADL
	Installation ID	ID_CODE
	Install Date/Time	INSTALL_DATE
		INSTALL_TIME
	Removal Date/Time	DEPARTURE_DATE
		REMOVAL_TIME
	Medium	MEDIUM_TYPE_NAME
	Data Recorder, Make	MAKE
	Data Recorder, Model	MODEL
	Data Recorder, Serial Number	SERIAL_NUMBER
	Comment	COMMENT_TEXT
		TSRMATRX
	Matrix	NAME
		TSMSTATN
	Station	IDENTIFICATION_CD
	N/A	NAME
OP2 Operating Period Data Entry		TSROPPRD
	Log File Name	LOG_FILE_NAME
	Start Date/Time	START_DATE
		START_TIME
	Stop Date/Time	STOP_DATE

Report Heading	Prompt Name	Oracle Name
		STOP_TIME
	Sampling Interval, Hours	INTERVAL_HOURS
	Sampling Interval, Minutes	INTERVAL_MINUTES
	Sampling Interval, Seconds	INTERVAL_SECONDS
	Calibration Info/Comments	COMMENT_TEXT
OP3 Operating Period Project Assignment		TSMPROJ
	Project ID	IDENTIFICATION_CD
OP6 Operating Period Characteristic Maintenance List		TSRCHAR
	Display Name	DISPLAY_NAME
OP7 Operating Period Result Data Entry		TSRFDACT
	Select Field Activity, Date	START_DATE
	Select Field Activity, Time	START_TIME
R4 Chemical Result Data Entry **R8 Physical Result Data Entry**		TSRRSULT
	Value	VALUE_TEXT
		VALUE_MEASURE
	Value Type	VALUE_TYPE_NAME
	Statistic Type	STATISTIC_TYPE_NM
	Precision +/-	PRECISION_AMT_TEXT
	Confidence Level	CONF_LVL_PCT_MSR
	Detection Condition	DETECT_COND_CD
	Value Status	VALUE STATUS
	Duration	DUR_BASIS_TYPE_NM
	Weight	WT_BASIS_TYPE_NM
	Temperature	TEMP_BASIS_LVL_NM
	# of Replicate Analyses	REPL_ANALYSIS_NUM
	From	REF_PT_FROM_NAME
	To	REF_PT_TO_NAME
		TSMPRMVL
	Sample Fraction Type	SMPL_FRAC_TYPE_NM
		TSRRCI
	Particle Size Basis	PARTICLE_SIZE_BASIS
		TSMGNTXT
	Comments	DESCRIPTION_TEXT
		TSRUOM
	Unit	SHORT_FORM_NAME

EXAMPLE

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
	NAME	Org Name
TSRADL	IDENTIFICATION CODE	Installation ID
	INSTALL_DATE	Install Date
	INSTALL_TIME	Install Time
	DEPARTURE_DATE	Removal Date
	REMOVAL_TIME	Removal Time
	MEDIUM_TYPE_NAME	Medium
TSRMATRX	NAME	Sample Matrix
TSRADL (cont.)	MAKE	Make
	MODEL	Model
	SERIAL_NUMBER	Serial Number
	COMMENT_TEXT	Comment
TSMSTATN	IDENTIFICATION_CD	Station ID
	NAME	Station Name
TSROPPRD	LOG_FILE_NAME	Log File Name
	START_DATE	Start Date
	START_TIME	Start Time
	STOP_DATE	Stop Date
	STOP_TIME	Stop Time
	INTERVAL_HOURS	SI Hrs
	INTERVAL_MINUTES	SI Min
	INTERVAL_SECONDS	SI Sec
	COMMENT_TEXT	Calibration Info
TSMPROJ	IDENTIFICATION_CD	Project ID
TSRCHAR	DISPLAY_NAME	Characteristic
TSRFDACT	START_DATE	Activity Date
	START_TIME	Activity Time
TSRRSULT	VALUE_TEXT	Value Text
	VALUE_MEASURE	Value Measure
TSMPRMVL	SMPL_FRAC_TYPE_NM	Sample Fraction
TSRUOM	SHORT_FORM_NAME	Units
TSRRSULT (cont.)	VALUE_TYPE_NAME	Value Type
	STATISTIC_TYPE_NM	Statistic Type
	VALUE STATUS	Value Status
	PRECISION_AMT_TEXT	Precision
	CONF_LVL_PCT_MSR	Confidence Level
	DETECT_COND_CD	Detection Condition
	DUR_BASIS_TYPE_NM	Duration
	WT_BASIS_TYPE_NM	Weight

Table	Attribute	Column Name
	TEMP_BASIS_LVL_NM	Temperature
	REPL_ANALYSIS_NUM	# of Replicate Analyses
	REF_PT_FROM_NAME	From
	REF_PT_TO_NAME	To
TSRRCI	PARTICLE_SIZE_BASIS	Particle Size Basis
TSMGNTXT	DESCRIPTION_TEXT	Comments

Export: Station Summary

Report Description: This tilde-delimited export file report provides a summary of data associated with each selected Organization including Organization ID and name, Station codes and names, Station types, locations, embodied wells and pipes with locations.

Select Logic:

```
SELECT DISTINCT
rtrim(O.ORG_ID) ORG_ID,
rtrim(O.NAME) ORGANIZATION,
ltrim(rtrim(S.IDENTIFICATION_CD)) ID_CD,
ltrim(RTRIM(S.NAME)) STN_NAME,
rtrim(V.PRIMARY_TYPE_CD) P_TYPE_CD,
rtrim(V.SECONDARY_TYPE_CD) S_TYPE_CD,
rtrim(A.TYPE_CODE) TYPE_CD,
(A.SEQUENCE_NUMBER) SEQ_NUM,
A.POINT_NAME,
rtrim(A.LAT_DEGREE_MSR) LAT_DEG,
rtrim(A.LAT_MINUTE_MSR) LAT_MIN,
rtrim(A.LAT_SECOND_MSR) LAT_SEC,
rtrim(A.LAT_DIRECTION) LAT_DIR,
TO_CHAR(A.LAT_DEC_DEG_MSR,'||""||'99.9999999'||""||') LATITUDE,
rtrim(A.LONG_DEGREE_MSR) LONG_DEG,
rtrim(A.LONG_MINUTE_MSR) LONG_MIN,
rtrim(A.LONG_SECOND_MSR) LONG_SEC,
rtrim(A.LONG_DIRECTION) LONG_DIR,
TO_CHAR(A.LONG_DEC_DEG_MSR,'||""||'999.9999999'||""||') LONGITUDE,
rtrim(A.GEOPSTNG_METHOD_CD) G_METHOD_CD,
rtrim(GM.DESCRIPTION) GM_DESC,
rtrim(A.GEOPSTNG_DATUM_CD) G_DATUM_CD,
rtrim(GD.DESCRIPTION) GD_DESC,
rtrim(A.ELEVATION_MSR) ELEVATION,
rtrim(A.ELVTN_UNT_CD) ELVTN_UNIT_CD,
rtrim(A.ELVTN_METHOD_CD) ELVTN_METHOD_CD,
rtrim(EM.DESCRIPTION) EM_DESC,
rtrim(A.ELEVATION_DATUM_CD) ELVTN_DATUM_CD,
rtrim(ED.DESCRIPTION) ED_DESC,
rtrim(U.HYDROLOGIC_UNIT_CD) HUC_CD,
rtrim(U.NAME) HU_NAME,
rtrim(GP.COUNTRY_CODE) COUNTRY,
rtrim(GP.STATE_POSTAL_CODE) STATE,
rtrim(GP.STATE_NAME) STATE_NAME,
rtrim(GP.COUNTY_NAME) COUNTY,
(W.ID_NUMBER) W_ID_NUM,
(PIP.ID_NUMBER) PIP_ID_NUM,
rtrim(N.TSMNAL_CD) TSMNAL_CD,
rtrim(N.NAME) N_NAME,
rtrim(R.SEGMENT_CODE) SEGMENT_CD,
rtrim(R.NAME) R_NAME
FROM
TSMORGAN      O,
TSMPROJ                  J,
```

```
TSMPSA                  PS,
TSMSTATN    S,
TSMVSTC     V,
TSMALP      A,
TSMRRR      R,
TSMGEOPA    GP,
TSMNAL      N,
TSMFHU                  U,
TSMMAD                  GM,
TSMMAD                  GD,
TSMMAD                  EM,
TSMMAD                  ED,
TSMWELL  W,
TSMPIPE  PIP
WHERE
O.TSMORGAN_IS_NUMBER    = S.TSMORGAN_IS_NUMBER(+) AND
PS.TSMPROJ_IS_NUMBER    = J.TSMPROJ_IS_NUMBER(+) AND
PS.TSMPROJ_ORG_ID       = J.TSMPROJ_ORG_ID(+) AND
S.TSMSTATN_IS_NUMBER    = PS.TSMSTATN_IS_NUMBER(+) AND
S.TSMSTATN_ORG_ID       = PS.TSMSTATN_ORG_ID(+) AND
S.TSMVSTC_IS_NUMBER     = V.TSMVSTC_IS_NUMBER(+)  AND
S.TSMVSTC_ORG_ID        = V.TSMVSTC_ORG_ID(+) AND
S.TSMSTATN_IS_NUMBER    = A.TSMSTATN0IS_NUMBER(+) AND
S.TSMSTATN_ORG_ID       = A.TSMSTATN0ORG_ID(+) AND
A.TSMRRR_IS_NUMBER      = R.TSMRRR_IS_NUMBER(+) AND
A.TSMRRR_ORG_ID         = R.TSMRRR_ORG_ID(+) AND
A.TSMGEOPA_IS_NUMBER    = GP.TSMGEOPA_IS_NUMBER(+)  AND
A.TSMGEOPA_ORG_ID               = GP.TSMGEOPA_ORG_ID(+) AND
A.TSMFHU_IS_NUMBER      = U.TSMFHU_IS_NUMBER(+) AND
A.TSMFHU_ORG_ID         = U.TSMFHU_ORG_ID(+) AND
A.TSMNAL_CD             = N.TSMNAL_CD(+) AND
A.TSMNAL_STATE          = N.TSMNAL_STATE (+) AND
A.TSMNAL_ORG_ID         = N.TSMNAL_ORG_ID(+) AND
A.TSMWELL_IS_NUMBER     = W.TSMWELL_IS_NUMBER(+) AND
A.TSMWELL_ORG_ID        = W.TSMWELL_ORG_ID(+) AND
A.TSMPIPE_IS_NUMBER     = PIP.TSMPIPE_IS_NUMBER(+) AND
A.TSMPIPE_ORG_ID        = PIP.TSMPIPE_ORG_ID(+) AND
A.GEOPSTNG_DATUM_CD = GD.id_code(+) AND
GD.category(+) = 'HORIZONTAL' AND
GD.subcategory(+) = 'DATUM' AND
A.GEOPSTNG_METHOD_CD = GM.id_code(+) AND
GM.category(+) = 'HORIZONTAL' AND
GM.subcategory(+) = 'METHOD' AND
A.ELEVATION_DATUM_CD  = ED.id_code (+) AND
ED.category (+) = 'VERTICAL' AND
ED.subcategory (+) = 'DATUM' AND
A.ELVTN_METHOD_CD  = EM.id_code (+) AND
EM.category (+) = 'VERTICAL' AND
EM.subcategory (+) = 'METHOD'
AND D_COMPLETE_FLAG = 'N'
UNION
SELECT DISTINCT
rtrim(O.ORG_ID),
```

```
rtrim(O.NAME),
ltrim(rtrim(S.IDENTIFICATION_CD)),
ltrim(RTRIM(S.NAME)),
rtrim(V.PRIMARY_TYPE_CD),
rtrim(V.SECONDARY_TYPE_CD),
rtrim(A.TYPE_CODE),
(A.SEQUENCE_NUMBER),
A.POINT_NAME,
rtrim(A.LAT_DEGREE_MSR),
rtrim(A.LAT_MINUTE_MSR),
rtrim(A.LAT_SECOND_MSR),
rtrim(A.LAT_DIRECTION),
TO_CHAR(A.LAT_DEC_DEG_MSR,'||""||'99.9999999'||""||'),
rtrim(A.LONG_DEGREE_MSR),
rtrim(A.LONG_MINUTE_MSR),
rtrim(A.LONG_SECOND_MSR),
rtrim(A.LONG_DIRECTION),
TO_CHAR(A.LONG_DEC_DEG_MSR,'||""||'999.9999999'||""||'),
rtrim(A.GEOPSTNG_METHOD_CD),
rtrim(GM.DESCRIPTION),
rtrim(A.GEOPSTNG_DATUM_CD),
rtrim(GD.DESCRIPTION),
rtrim(A.ELEVATION_MSR),
rtrim(A.ELVTN_UNT_CD),
rtrim(A.ELVTN_METHOD_CD),
rtrim(EM.DESCRIPTION),
rtrim(A.ELEVATION_DATUM_CD),
rtrim(ED.DESCRIPTION),
rtrim(U.HYDROLOGIC_UNIT_CD),
rtrim(U.NAME),
rtrim(GP.COUNTRY_CODE),
rtrim(GP.STATE_POSTAL_CODE),
rtrim(GP.STATE_NAME),
rtrim(GP.COUNTY_NAME),
W.ID_NUMBER ,
PIP.ID_NUMBER ,
rtrim(N.TSMNAL_CD),
rtrim(N.NAME),
rtrim(R.SEGMENT_CODE),
rtrim(R.NAME)
FROM
TSMORGAN     O,
TSMPROJ              J,
TSMPSA               PS,
TSMSTATN     S,
TSMVSTC      V,
TSMALP       A,
TSMRRR       R,
TSMGEOPA     GP,
TSMNAL       N,
TSMFHU               U,
TSMMAD               GM,
TSMMAD               GD,
```

```
TSMMAD                  EM,
TSMMAD                  ED,
TSMWELL   W,
TSMPIPE  PIP
WHERE
O.TSMORGAN_IS_NUMBER      = S.TSMORGAN_IS_NUMBER(+) AND
PS.TSMPROJ_IS_NUMBER      = J.TSMPROJ_IS_NUMBER(+) AND
PS.TSMPROJ_ORG_ID         = J.TSMPROJ_ORG_ID(+) AND
S.TSMSTATN_IS_NUMBER      = PS.TSMSTATN_IS_NUMBER(+) AND
S.TSMSTATN_ORG_ID         = PS.TSMSTATN_ORG_ID(+) AND
S.TSMVSTC_IS_NUMBER       = V.TSMVSTC_IS_NUMBER(+)  AND
S.TSMVSTC_ORG_ID          = V.TSMVSTC_ORG_ID(+) AND
S.TSMSTATN_IS_NUMBER      = A.TSMSTATN0IS_NUMBER(+) AND
S.TSMSTATN_ORG_ID         = A.TSMSTATN0ORG_ID(+) AND
A.TSMRRR_IS_NUMBER        = R.TSMRRR_IS_NUMBER(+) AND
A.TSMRRR_ORG_ID           = R.TSMRRR_ORG_ID(+) AND
A.TSMGEOPA_IS_NUMBER      = GP.TSMGEOPA_IS_NUMBER(+)  AND
A.TSMGEOPA_ORG_ID                 = GP.TSMGEOPA_ORG_ID(+) AND
A.TSMFHU_IS_NUMBER        = U.TSMFHU_IS_NUMBER(+) AND
A.TSMFHU_ORG_ID           = U.TSMFHU_ORG_ID(+) AND
A.TSMNAL_CD               = N.TSMNAL_CD(+) AND
A.TSMNAL_STATE            = N.TSMNAL_STATE (+) AND
A.TSMNAL_ORG_ID           = N.TSMNAL_ORG_ID(+) AND
A.TSMWELL_IS_NUMBER       = W.TSMWELL_IS_NUMBER(+) AND
A.TSMWELL_ORG_ID          = W.TSMWELL_ORG_ID(+) AND
A.TSMPIPE_IS_NUMBER       = PIP.TSMPIPE_IS_NUMBER(+) AND
A.TSMPIPE_ORG_ID          = PIP.TSMPIPE_ORG_ID(+) AND
A.GEOPSTNG_DATUM_CD = GD.id_code(+) AND
GD.category(+) = 'HORIZONTAL' AND
GD.subcategory(+) = 'DATUM' AND
A.GEOPSTNG_METHOD_CD = GM.id_code(+) AND
GM.category(+) = 'HORIZONTAL' AND
GM.subcategory(+) = 'METHOD' AND
A.ELEVATION_DATUM_CD  = ED.id_code (+) AND
ED.category (+) = 'VERTICAL' AND
ED.subcategory (+) = 'DATUM' AND
A.ELVTN_METHOD_CD  = EM.id_code (+) AND
EM.category (+) = 'VERTICAL' AND
EM.subcategory (+) = 'METHOD' AND
A.TYPE_CODE NOT IN('WELL HEAD', 'END OF PIPE')
UNION
SELECT DISTINCT
rtrim(O.ORG_ID),
rtrim(O.NAME),
ltrim(rtrim(S.IDENTIFICATION_CD)),
ltrim(RTRIM(S.NAME)),
rtrim(V.PRIMARY_TYPE_CD),
rtrim(V.SECONDARY_TYPE_CD),
rtrim(A.TYPE_CODE),
(A.SEQUENCE_NUMBER),
A.POINT_NAME,
rtrim(A.LAT_DEGREE_MSR),
rtrim(A.LAT_MINUTE_MSR),
```

```
rtrim(A.LAT_SECOND_MSR),
rtrim(A.LAT_DIRECTION),
TO_CHAR(A.LAT_DEC_DEG_MSR,'||""||'99.9999999'||""||'),
rtrim(A.LONG_DEGREE_MSR),
rtrim(A.LONG_MINUTE_MSR),
rtrim(A.LONG_SECOND_MSR),
rtrim(A.LONG_DIRECTION),
TO_CHAR(A.LONG_DEC_DEG_MSR,'||""||'999.9999999'||""||'),
rtrim(A.GEOPSTNG_METHOD_CD),
rtrim(GM.DESCRIPTION),
rtrim(A.GEOPSTNG_DATUM_CD),
rtrim(GD.DESCRIPTION),
rtrim(A.ELEVATION_MSR),
rtrim(A.ELVTN_UNT_CD),
rtrim(A.ELVTN_METHOD_CD),
rtrim(EM.DESCRIPTION),
rtrim(A.ELEVATION_DATUM_CD),
rtrim(ED.DESCRIPTION),
rtrim(U.HYDROLOGIC_UNIT_CD),
rtrim(U.NAME),
rtrim(GP.COUNTRY_CODE),
rtrim(GP.STATE_POSTAL_CODE),
rtrim(GP.STATE_NAME),
rtrim(GP.COUNTY_NAME),
W.ID_NUMBER,
PIP.ID_NUMBER ,
rtrim(N.TSMNAL_CD),
rtrim(N.NAME),
rtrim(R.SEGMENT_CODE),
rtrim(R.NAME)
FROM
TSMORGAN     O,
TSMPROJ          J,
TSMPSA           PS,
TSMSTATN     S,
TSMVSTC      V,
TSMALP       A,
TSMRRR       R,
TSMGEOPA     GP,
TSMNAL       N,
TSMWELL          W,
TSMFHU           U,
TSMMAD           GM,
TSMMAD           GD,
TSMMAD           EM,
TSMMAD           ED,
TSMPIPE          PIP
WHERE
S.TSMORGAN_IS_NUMBER     = O.TSMORGAN_IS_NUMBER(+) AND
PS.TSMPROJ_IS_NUMBER     = J.TSMPROJ_IS_NUMBER(+) AND
PS.TSMPROJ_ORG_ID        = J.TSMPROJ_ORG_ID(+) AND
S.TSMSTATN_IS_NUMBER     = PS.TSMSTATN_IS_NUMBER(+) AND
S.TSMSTATN_ORG_ID        = PS.TSMSTATN_ORG_ID(+) AND
```

```
S.TSMVSTC_IS_NUMBER        = V.TSMVSTC_IS_NUMBER (+) AND
S.TSMVSTC_ORG_ID           = V.TSMVSTC_ORG_ID (+) AND
S.TSMSTATN_IS_NUMBER       = W.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID          = W.TSMSTATN_ORG_ID AND
W.TSMWELL_IS_NUMBER        = A.TSMWELL_IS_NUMBER(+) AND
W.TSMWELL_ORG_ID           = A.TSMWELL_ORG_ID(+) AND
A.TSMRRR_IS_NUMBER         = R.TSMRRR_IS_NUMBER (+) AND
A.TSMRRR_ORG_ID            = R.TSMRRR_ORG_ID (+) AND
A.TSMGEOPA_IS_NUMBER       = GP.TSMGEOPA_IS_NUMBER (+) AND
A.TSMGEOPA_ORG_ID                  = GP.TSMGEOPA_ORG_ID (+) AND
A.TSMFHU_IS_NUMBER         = U.TSMFHU_IS_NUMBER (+) AND
A.TSMFHU_ORG_ID            = U.TSMFHU_ORG_ID (+) AND
A.TSMNAL_CD                = N.TSMNAL_CD (+) AND
A.TSMNAL_STATE             = N.TSMNAL_STATE (+) AND
A.TSMNAL_ORG_ID            = N.TSMNAL_ORG_ID (+) AND
A.TSMPIPE_IS_NUMBER        = PIP.TSMPIPE_IS_NUMBER(+) AND
A.TSMPIPE_ORG_ID           = PIP.TSMPIPE_ORG_ID(+) AND
A.GEOPSTNG_DATUM_CD = GD.id_code(+) AND
GD.category(+) = 'HORIZONTAL' AND
GD.subcategory(+) = 'DATUM' AND
A.GEOPSTNG_METHOD_CD = GM.id_code(+) AND
GM.category(+) = 'HORIZONTAL' AND
GM.subcategory(+) = 'METHOD' AND
A.ELEVATION_DATUM_CD  = ED.id_code (+) AND
ED.category (+) = 'VERTICAL' AND
ED.subcategory (+) = 'DATUM' AND
A.ELVTN_METHOD_CD  = EM.id_code (+) AND
EM.category (+) = 'VERTICAL' AND
EM.subcategory (+) = 'METHOD'
UNION
SELECT DISTINCT
rtrim(O.ORG_ID),
rtrim(O.NAME),
ltrim(rtrim(S.IDENTIFICATION_CD)),
ltrim(RTRIM(S.NAME)),
rtrim(V.PRIMARY_TYPE_CD),
rtrim(V.SECONDARY_TYPE_CD),
rtrim(A.TYPE_CODE),
(A.SEQUENCE_NUMBER),
A.POINT_NAME,
rtrim(A.LAT_DEGREE_MSR),
rtrim(A.LAT_MINUTE_MSR),
rtrim(A.LAT_SECOND_MSR),
rtrim(A.LAT_DIRECTION),
TO_CHAR(A.LAT_DEC_DEG_MSR,'||""||'99.9999999'||""||'),
rtrim(A.LONG_DEGREE_MSR),
rtrim(A.LONG_MINUTE_MSR),
rtrim(A.LONG_SECOND_MSR),
rtrim(A.LONG_DIRECTION),
TO_CHAR(A.LONG_DEC_DEG_MSR,'||""||'999.9999999'||""||'),
rtrim(A.GEOPSTNG_METHOD_CD),
rtrim(GM.DESCRIPTION),
rtrim(A.GEOPSTNG_DATUM_CD),
```

```
rtrim(GD.DESCRIPTION),
rtrim(A.ELEVATION_MSR) ELEVATION,
rtrim(A.ELVTN_UNT_CD) ELVTN_UNIT_CD,
rtrim(A.ELVTN_METHOD_CD),
NULL,
rtrim(A.ELEVATION_DATUM_CD),
NULL,
rtrim(U.HYDROLOGIC_UNIT_CD),
rtrim(U.NAME),
rtrim(GP.COUNTRY_CODE),
rtrim(GP.STATE_POSTAL_CODE),
rtrim(GP.STATE_NAME),
rtrim(GP.COUNTY_NAME),
W.ID_NUMBER,
PIP.ID_NUMBER,
rtrim(N.TSMNAL_CD),
rtrim(N.NAME),
rtrim(R.SEGMENT_CODE),
rtrim(R.NAME)
FROM
TSMORGAN     O,
TSMPROJ              J,
TSMPSA               PS,
TSMSTATN     S,
TSMVSTC      V,
TSMALP       A,
TSMRRR       R,
TSMGEOPA     GP,
TSMNAL       N,
TSMFCLTY     FC,
TSMPIPE           PIP,
TSMWELL W,
TSMFHU               U,
TSMMAD               GM,
TSMMAD               GD
WHERE
S.TSMORGAN_IS_NUMBER     = O.TSMORGAN_IS_NUMBER(+) AND
PS.TSMPROJ_IS_NUMBER     = J.TSMPROJ_IS_NUMBER(+) AND
PS.TSMPROJ_ORG_ID        = J.TSMPROJ_ORG_ID(+) AND
S.TSMSTATN_IS_NUMBER     = PS.TSMSTATN_IS_NUMBER(+) AND
S.TSMSTATN_ORG_ID        = PS.TSMSTATN_ORG_ID(+) AND
S.TSMVSTC_IS_NUMBER      = V.TSMVSTC_IS_NUMBER (+) AND
S.TSMVSTC_ORG_ID         = V.TSMVSTC_ORG_ID (+) AND
S.TSMSTATN_IS_NUMBER     = FC.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID        = FC.TSMSTATN_ORG_ID AND
FC.TSMSTATN_IS_NUMBER    = PIP.TSMSTATN_IS_NUMBER AND
FC.TSMSTATN_ORG_ID       = PIP.TSMSTATN_ORG_ID AND
PIP.TSMPIPE_IS_NUMBER    = A.TSMPIPE_IS_NUMBER(+) AND
PIP.TSMPIPE_ORG_ID       = A.TSMPIPE_ORG_ID(+) AND
A.TSMRRR_IS_NUMBER       = R.TSMRRR_IS_NUMBER (+) AND
A.TSMRRR_ORG_ID          = R.TSMRRR_ORG_ID (+) AND
A.TSMGEOPA_IS_NUMBER     = GP.TSMGEOPA_IS_NUMBER (+) AND
A.TSMGEOPA_ORG_ID                = GP.TSMGEOPA_ORG_ID (+) AND
```

```
A.TSMFHU_IS_NUMBER      = U.TSMFHU_IS_NUMBER (+) AND
A.TSMFHU_ORG_ID         = U.TSMFHU_ORG_ID (+) AND
A.TSMNAL_CD             = N.TSMNAL_CD (+) AND
A.TSMNAL_STATE          = N.TSMNAL_STATE (+) AND
A.TSMNAL_ORG_ID         = N.TSMNAL_ORG_ID (+) AND
A.TSMWELL_IS_NUMBER     = W.TSMWELL_IS_NUMBER(+) AND
A.TSMWELL_ORG_ID        = W.TSMWELL_ORG_ID(+) AND
A.GEOPSTNG_DATUM_CD = GD.id_code(+) AND
GD.category(+) = 'HORIZONTAL' AND
GD.subcategory(+) = 'DATUM' AND
A.GEOPSTNG_METHOD_CD = GM.id_code(+) AND
GM.category(+) = 'HORIZONTAL' AND
GM.subcategory(+) = 'METHOD'
ORDER BY 1,2,3,4,5,6,7,8,36,37
```

Select Options: Organizations, Projects, Stations

Sort Sequence: By ascending Organization ID by ascending Station ID by ascending Location Type by ascending Location Type Sequence Number.

- Wells by ascending Well Number.
- Pipes by ascending Pipe Number.

Page Break: None.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
	ID	ORG_ID
	Name	NAME
ST4 Station Data Entry		TSMSTATN
	ID	IDENTIFICATION_CD
	Name	NAME
RT31 Valid Station Type Data Entry		TSMVSTC
	Primary Type Code	PRIMARY_TYPE_CD
	Secondary Type Code	SECONDARY_TYPE_CD
AL2 Absolute Location Data Entry **WL4 Well Absolute Location Data Entry** **PI3 Pipe Absolute Location Data Entry** **AL4 Absolute Location Elevation Data Entry** **WL5 Well Absolute Location Elevation Data Entry** **PT2 Absolute Location Data Entry** **PG2 Permanent Grid Absolute Location Maintenance**		TSMALP
	Type	TYPE_CODE
	Sequence No.	SEQUENCE_NUMBER
	Point Name	POINT_NAME
	Latitude	LAT_DEGREE_MSR
		LAT_MINUTE_MSR
		LAT_SECOND_MSR

Report Heading	Prompt Name	Oracle Name
		LAT_DIRECTION
	Decimal Minute Latitude	GPS_LAT_DEGREE_MSR
		GPS_LAT_MINUTE_MSR
	Longitude	LONG_DEGREE_MSR
		LONG_MINUTE_MSR
		LONG_SECOND_MSR
		LONG_DIRECTION
	Decimal Degree Longitude	GPS_LONG_DEG_MSR
		GPS_LONG_MIN_MSR
	Measure	ELEVATION_MSR
		ELVTN_UNT_CD
		TSMMAD
	Geopositioning, Method Geopositioning, Datum Method Datum	DESCRIPTION
	N/A	ID_CODE
HU1 FIPS HUC Assignment Data Entry		TSMFHU
	Code	HYDROLOGIC_UNIT_CD
	Name	NAME
GP1 Geopolitical Area Data Entry		TSMGEOPA
	Country	COUNTRY_CODE
	State	STATE_POSTAL_CODE
	N/A	STATE_NAME
	County	COUNTY_NAME
WL3 Well Data Entry		TSMWELL
	Well Number	ID_NUMBER
PI2 Pipe Data Entry		TSMPIPE
	Pipe Number	ID_NUMBER
NA3 Native American Land Assignment Data Entry		TSMNAL
	Code	TSMNAL_CD
	Name	NAME
RF1 Selection List (No Data Entry)		TSMRRR
	Segment Code	SEGMENT_CODE
	Name	NAME

EXAMPLE

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
	NAME	Org Name
TSMSTATN	IDENTIFICATION_CD	Station ID
	NAME	Station Name
TSMVSTC	PRIMARY_TYPE_CD	Primary Type
	SECONDARY_TYPE_CD	Secondary Type
TSMALP	TYPE_CODE	Location Point Type
	SEQUENCE_NUMBER	Seq Num
	POINT_NAME	Point Name
	LAT_DEGREE_MSR	Lat Degree
	LAT_MINUTE_MSR	Lat Minutes
	LAT_SECOND_MSR	Lat Seconds
	LAT_DIRECTION	Lat Direction
	GPS_LAT_DEGREE_MSR and GPS_LAT_MINUTE_MSR with translation	Latitude
	LONG_DEGREE_MSR	Long Degree
	LONG_MINUTE_MSR	Long Minutes
	LONG_SECOND_MSR	Long Seconds
	LONG_DIRECTION	Long Direction
	GPS_LONG_DEG_MSR and GPS_LONG_MIN_MSR with translation	Longitude
TSMMAD	ID_CODE	G Method Code
	DESCRIPTION (Horiz Method)	Geopositioning Method
	ID_CODE	G Datum Code
	DESCRIPTION (Horiz. Datum)	Geopositioning Datum
TSMALP (cont.)	ELEVATION_MSR	Elevation
	ELVTN_UNT_CD	Elev Unit Code
TSMMAD (cont.)	ID_CODE	Elev Method Code
	DESCRIPTION (Elev. Method)	Elev Method Desc
	ID_CODE	Elev Datum Code
	DESCRIPTION (Elev. Datum)	Elev Datum Desc
TSMFHU	HYDROLOGIC_UNIT_CD	HUC Code
	NAME	HUC Name
TSMGEOPA	COUNTRY_CODE	Country
	STATE_POSTAL_CODE	State
	STATE_NAME	State Name
	COUNTY_NAME	County

Table	Attribute	Column Name
TSMWELL	ID_NUMBER	Well Number
TSMPIPE	ID_NUMBER	Pipe Number
TSMNAL	TSMNAL_CD	NAL Code
	NAME	NAL Name
TSMRRR	SEGMENT_CODE	RF1 Code
	NAME	RF1 Name

Export: Result Details

Report Description: NOTE: This report was removed from list of available export reports beginning with STORET Report Module v2.0.2.

This tilde-delimited export file report provides detailed information regarding the results obtained for field sampling and measurement activities.

Activities without assigned Characteristics will not be shown.

Location Points are the Station's Point of Record.

Select Logic:

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
rtrim(O.ORG_ID) ORG_ID,
rtrim(O.NAME) ORGANIZATION,
rtrim(S.IDENTIFICATION_CD) STN_CD,
ltrim(RTRIM(S.NAME)) STN_NAME,
DECODE(TO_CHAR(F.START_DATE, 'MM/DD/YYYY'),'01/01/0001',
NULL,TO_CHAR(F.START_DATE, 'MM/DD/YYYY')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.ST
ART_TIME,'HH24:MI:SS')) FSTIME,
rtrim(F.START_TIME_ZONE) FSTZONE,
rtrim(T.ID_CODE) TRIP,
rtrim(V.ID_NUMBER) VISIT,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
F.TYPE_NAME FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.QC_INDICATOR QC,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.COMMUNITY_NAME COMM_NAME,
M.NAME SAMPLE_MATRIX,
NULL SBJTXN_NAME,
NULL BIOPT_NAME,
A.POINT_NAME,
TRANSLATE(A.LAT_DIRECTION,'NS','+-')||
(LTRIM(TO_CHAR(A.GPS_LAT_DEGREE_MSR+A.GPS_LAT_MINUTE_MSR/60.00
0,'99.999999'))) LATITUDE,
TRANSLATE(A.LONG_DIRECTION,'EW','+-')||
(LTRIM(TO_CHAR(A.GPS_LONG_DEG_MSR+A.GPS_LONG_MIN_MSR/60.000,'999
.999999'))) LONGITUDE,
rtrim(MAD_HD.DESCRIPTION) HD_DESC,
rtrim(MAD_HM.DESCRIPTION) HM_DESC,
DECODE(TO_CHAR(F.STOP_DATE,'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(
F.STOP_DATE,'MM/DD/YYYY')) FSTP,
DECODE(TO_CHAR(F.STOP_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.ST
OP_TIME,'HH24:MI:SS')) FSTPTIME,
rtrim(F.STOP_TIME_ZONE) FSTPZONE,
rtrim(F.RELTV_DEPTH_NAME) DEPTH_NAME,
rtrim(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
```

```
rtrim(F.DEPTH_TO_ACT_UN_CD) UN_CD,
rtrim(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
rtrim(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
rtrim(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
(DECODE(BRG.TYPE_INDICATOR,'B',RCI.PRIM_CLASS_DESC
||' '||RCI.SEC_CLASS_DESC,
'P',C.DISPLAY_NAME||' '||RCI.LOWER_BND_AMT
||' ->'||RCI.UPPER_BND_AMT
||' '||RCIUOM.SHORT_FORM_NAME,C.DISPLAY_NAME
||' '||R.SPECIES_NUMBER)) BRG_TYPE_IND,
rtrim(R.VALUE_MEASURE) VAL_MEASURE,
(DECODE(BRG.TYPE_INDICATOR,'B','count',RUOM.SHORT_FORM_NAME))
TYPE_IND,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
decode(c.d_scr_type_cd,'TEXT',RDESC.description_text,null) RDESC_DESC,
PV.FIELD_VALUE SMPL_FRAC,
rtrim(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
rtrim(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'TEXT',null,RCMNT.description_text) RCMNT_DESC,
rtrim(R.VALUE_STATUS) VAL_STAT,
rtrim(R.WT_BASIS_TYPE_NM) WT_BASIS,
rtrim(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
rtrim(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
rtrim(R.FNCTIONAL_FEED_GRP) FEED_GRP,
rtrim(R.TAXON_POLLUTION) TAXON,
rtrim(R.TROPHIC_LEVEL) TROPHIC,
PV0.FIELD_VALUE HABIT,
PV1.FIELD_VALUE VOLTINISM,
rtrim(CLDES.CELL_SHAPE_TYPE_NM) CELL_SHAPE,
rtrim(CLDES.CELL_TYPE_NM) CELL_TYPE,
rtrim(LSPP.SOURCE_ACR) SOURCE_ACR,
rtrim(LSPP.NAME) LSPPNAME,
rtrim(ANLPR.SOURCE_ACR) ASOURCE,
rtrim(ANLPR.PROCEDURE_ID) APROC_ID,
rtrim(ANLPR.NAME) ANAME,
PROCEX.DESCRIPTION_TEXT PDESC,
rtrim(L.ID_CODE) LAB_ID,
rtrim(L.NAME) LAB_NAME,
rtrim(R.LAB_CERT_IND_CODE) LAB_CERT,
rtrim(R.LAB_BATCH_ID_CODE) LAB_BATCH,
DECODE(TO_CHAR(R.ANALYSIS_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(R.ANALYSIS_DATE, 'MM/DD/YYYY')) ADATE,
DECODE(TO_CHAR(R.ANALYSIS_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(
R.ANALYSIS_TIME,'HH24:MI:SS')) ATIME,
rtrim(R.ANALYSIS_TIME_ZONE) AZONE,
rtrim(DQL.MIN_QUANT_LIMIT) MIN_LIMIT,
rtrim(DQL.MAX_QUANT_LIMIT) MAX_LIMIT,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
rtrim(DQL.DESCRIPTION_TEXT) DQL_DESC,
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID) LBRMK_NAME,
rtrim(R.REF_PT_FROM_NAME) REF_FROM,
rtrim(R.REF_PT_TO_NAME) REF_TO,
```

```
rtrim(RCI.PARTICLE_SIZE_BASIS) PART_BASIS,
rtrim(R.REPL_ANALYSIS_NUM) REPL_NUM,
rtrim(R.PRECISION_AMT_TEXT) PRECISION,
RTRIM(R.CONF_LVL_PCT_MSR) CONF_MSR,
R.CONF_LVL_CORR_BIAS CORR_BIAS,
RTRIM(R.BIAS) BIAS,
RTRIM(R.DILUTION_IND_CODE) DIL_CD,
RTRIM(R.RECOVERY_IND_CODE) REC_CD,
RTRIM(R.CORRECTION_IND_CD) CORR_CD,
RTRIM(BRG.ID_CODE) BRG_CODE,
RTRIM(BRG.TYPE_NAME) BRG_NAME,
(f_char_name(nvl(brg.tsrchar_is_number,null),nvl(brg.tsrchar_org_id,null))
||' '||BRG.SPECIES_NUMBER) BIOCHAR_NAME,
RTRIM(BRG.TYPE_INDICATOR) BRG_TYPE,
RTRIM(BRG.DESCRIPTION_TEXT) BRG_DESC,
RTRIM(BRG.SEX_NAME) SEX,
RTRIM(BRG.LIFE_STAGE_NAME) STAGE_NAME,
RTRIM(BRGI.INDIVIDUAL_NUMBER) INV_NUM,
(DECODE(brg.type_indicator,'P',f_char_name(nvl(r.tsrchar_is_number,null),nvl(r.tsrchar_
org_id,null)),'B',' ')) BRG_TYPE_INDICATOR ,
RTRIM(RCI.PRIM_CLASS_DESC) PRIM_DESC,
RTRIM(RCI.SEC_CLASS_DESC) SEC_DESC,
RTRIM(RCI.LOWER_BND_AMT) LOWER_AMT,
RTRIM(RCI.UPPER_BND_AMT) UPPER_AMT,
RTRIM(RCIUOM.SHORT_FORM_NAME) UOM_NAME,
RTRIM(BRG.SUMMARY_GRP_COUNT) GRP_COUNT,
RTRIM(BRG.VALUE_TYPE_NAME) BRG_VAL,
NULL HDESC_TEXT,
NULL LINE_NUM,
NULL LINE_NAME
FROM
TSRCHAR C,
TSRRSULT R,
TSRFDACT F,
TSMORGAN O,
TSMPSA          PS,
TSMPROJ J,
TSMSTATN S,
TSRTRIP T,
TSRMATRX M,
TSMPRMVL PV,
TSMPRMVL PV0,
TSMPRMVL PV1,
TSMGNTXT RDESC,
TSMGNTXT RCMNT,
TSMGNTXT PROCEX,
TSRRCI          RCI,
TSRUOM          RUOM,
TSRUOM          RCIUOM,
TSRUOM  UDQ,
TSRDQL          DQL,
TSRANLPR ANLPR,
TSRLSPP         LSPP,
```

```
TSRLAB L,
TSRBRG          BRG,
TSRBRGI         BRGI,
TSRCLDES CLDES,
TSRSTVST V,
TSRTSA          TSA,
TSMALP  A,
TSMMAD MAD_HD,
TSMMAD MAD_HM
WHERE
PS.TSMPROJ_IS_NUMBER                = J.TSMPROJ_IS_NUMBER(+) AND
PS.TSMPROJ_ORG_ID           = J.TSMPROJ_ORG_ID(+) AND
S.TSMSTATN_IS_NUMBER                = PS.TSMSTATN_IS_NUMBER(+) AND
S.TSMSTATN_ORG_ID           = PS.TSMSTATN_ORG_ID(+) AND
F.TSRSTVST_IS_NUMBER                = V.TSRSTVST_IS_NUMBER(+)
AND F.TSRSTVST_ORG_ID               = V.TSRSTVST_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND V.TSMSTATN_IS_NUMBER            = TSA.TSMSTATN_IS_NUMBER(+)
AND V.TSMSTATN_ORG_ID               = TSA.TSMSTATN_ORG_ID(+)
AND V.TSRTRIP_IS_NUMBER             = TSA.TSRTRIP_IS_NUMBER(+)
AND V.TSRTRIP_ORG_ID                = TSA.TSRTRIP_ORG_ID(+)
AND TSA.TSRTRIP_IS_NUMBER           = T.TSRTRIP_IS_NUMBER(+)
AND TSA.TSRTRIP_ORG_ID              = T.TSRTRIP_ORG_ID(+)
AND TSA.TSMSTATN_IS_NUMBER          = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID             = S.TSMSTATN_ORG_ID
AND S.TSMSTATN_ORG_ID                = O.ORG_ID
AND R.TSRCHAR_IS_NUMBER             = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID                = C.TSRCHAR_ORG_ID
AND R.TSRUOM_IS_NUMBER              = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                 = RUOM.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER            = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RCI.TSRRSULT_ORG_ID(+)
AND RCI.TSRUOM_IS_NUMBER            = RCIUOM.TSRUOM_IS_NUMBER(+)
AND RCI.TSRUOM_ORG_ID               = RCIUOM.TSRUOM_ORG_ID(+)
AND R.TSRANLPR_IS_NUMBER            = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID               = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER             = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID                = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER              = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID                 = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER            = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER            = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+)   = 'DESCRIPT'
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSMPRMVL0IS_NUMBER = PV0.TSMPRMVL_IS_NUMBER(+)
AND R.TSMPRMVL1IS_NUMBER = PV1.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER            = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)  = 'RSLTCMNT'
```

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AND R.TSRRSULT_IS_NUMBER          = PROCEX.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = PROCEX.TSRRSULT_ORG_ID(+)
AND PROCEX.DESCRIPTION_NAME(+)= 'PROCEXCP'
AND R.TSRRSULT_IS_NUMBER          = CLDES.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = CLDES.TSRRSULT_ORG_ID(+)
AND ((BRG.TSRBRG_IS_NUMBER        = R.TSRBRG_IS_NUMBER
AND BRG.TSRBRG_ORG_ID             = R.TSRBRG_ORG_ID
AND BRG.TYPE_NAME                 <> 'Single Taxon Individuals')
OR (R.TSRBRGI_IS_NUMBER           = BRGI.TSRBRGI_IS_NUMBER
AND R.TSRBRGI_ORG_ID              = BRGI.TSRBRGI_ORG_ID
AND BRG.TYPE_NAME                 = 'Single Taxon Individuals'))
AND BRG.TSRFDACT_IS_NUMBER        = F.TSRFDACT_IS_NUMBER
AND BRG.TSRFDACT_ORG_ID           = F.TSRFDACT_ORG_ID
AND BRG.TSRBRG_IS_NUMBER          = BRGI.TSRBRG_IS_NUMBER(+)
AND BRG.TSRBRG_ORG_ID             = BRGI.TSRBRG_ORG_ID(+)
AND S.TSMSTATN_IS_NUMBER          = A.TSMSTATN0IS_NUMBER
AND S.TSMSTATN_ORG_ID             = A.TSMSTATN0ORG_ID
AND A.TYPE_CODE = '*POINT OF RECORD'
AND A.GEOPSTNG_DATUM_CD           = MAD_HD.id_code(+)
AND MAD_HD.category(+)          = 'HORIZONTAL'
AND MAD_HD.subcategory(+)     = 'DATUM'
AND MAD_HM.category(+)            = 'HORIZONTAL'
AND MAD_HM.subcategory(+)     = 'METHOD'
AND A.GEOPSTNG_METHOD_CD          = MAD_HM.id_code(+)
UNION
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID),
RTRIM(O.NAME),
RTRIM(S.IDENTIFICATION_CD),
RTRIM(S.NAME),
DECODE(TO_CHAR(F.START_DATE, 'MM/DD/YYYY'),'01/01/0001',
NULL,TO_CHAR(F.START_DATE, 'MM/DD/YYYY')),
DECODE(TO_CHAR(F.START_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.ST
ART_TIME,'HH24:MI:SS')),
RTRIM(F.START_TIME_ZONE),
RTRIM(T.ID_CODE),
RTRIM(V.ID_NUMBER),
RTRIM(F.ID_CODE),
RTRIM(F.REPLICATE_NUMBER),
F.MEDIUM_TYPE_NAME,
F.TYPE_NAME,
F.CATEGORY_TYPE_NAME,
F.QC_INDICATOR,
F.INTENT_TYPE_NAME,
NULL,
NULL,
(f_char_name(nvl(F.tsrchar_is_number,null),nvl(F.tsrchar_org_id,null))
||' '||F.SPECIES_NUMBER),
RTRIM(BIOPT.NAME),
A.POINT_NAME,
TRANSLATE(A.LAT_DIRECTION,'NS','+-')||
(LTRIM(TO_CHAR(A.GPS_LAT_DEGREE_MSR+A.GPS_LAT_MINUTE_MSR/60.00
0,'99.999999'))),
```

```
TRANSLATE(A.LONG_DIRECTION,'EW','+-')||
(LTRIM(TO_CHAR(A.GPS_LONG_DEG_MSR+A.GPS_LONG_MIN_MSR/60.000,'999
.999999'))),
RTRIM(MAD_HD.DESCRIPTION),
RTRIM(MAD_HM.DESCRIPTION),
DECODE(TO_CHAR(F.STOP_DATE,'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(
F.STOP_DATE,'MM/DD/YYYY')),
DECODE(TO_CHAR(F.STOP_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.ST
OP_TIME,'HH24:MI:SS')),
RTRIM(F.STOP_TIME_ZONE),
RTRIM(F.RELTV_DEPTH_NAME),
RTRIM(F.DEPTH_TO_ACTIVITY),
RTRIM(F.DEPTH_TO_ACT_UN_CD),
RTRIM(F.UPPER_DEPTH_TO_ACT),
RTRIM(F.LOWER_DEPTH_TO_ACT),
RTRIM(F.DEPTH_MSR_UNT_CD),
(C.DISPLAY_NAME||' '||R.SPECIES_NUMBER),
RTRIM(R.VALUE_MEASURE),
RTRIM(RUOM.SHORT_FORM_NAME),
RTRIM(R.VALUE_TEXT),
RTRIM(RDESC.DESCRIPTION_TEXT),
PV.FIELD_VALUE,
RTRIM(R.VALUE_TYPE_NAME),
RTRIM(R.STATISTIC_TYPE_NM),
RTRIM(RCMNT.DESCRIPTION_TEXT),
RTRIM(R.VALUE_STATUS),
RTRIM(R.WT_BASIS_TYPE_NM),
RTRIM(R.TEMP_BASIS_LVL_NM),
RTRIM(R.DUR_BASIS_TYPE_NM),
RTRIM(R.FNCTIONAL_FEED_GRP),
RTRIM(R.TAXON_POLLUTION),
RTRIM(R.TROPHIC_LEVEL),
NULL,
NULL,
RTRIM(CLDES.CELL_SHAPE_TYPE_NM),
RTRIM(CLDES.CELL_TYPE_NM),
RTRIM(LSPP.SOURCE_ACR),
RTRIM(LSPP.NAME),
RTRIM(ANLPR.SOURCE_ACR),
RTRIM(ANLPR.PROCEDURE_ID),
RTRIM(ANLPR.NAME),
RTRIM(PROCEX.DESCRIPTION_TEXT),
RTRIM(L.ID_CODE),
RTRIM(L.NAME),
RTRIM(R.LAB_CERT_IND_CODE),
RTRIM(R.LAB_BATCH_ID_CODE),
DECODE(TO_CHAR(R.ANALYSIS_DATE,'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(R.ANALYSIS_DATE, 'MM/DD/YYYY')),
DECODE(TO_CHAR(R.ANALYSIS_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(
R.ANALYSIS_TIME,'HH24:MI:SS')),
RTRIM(R.ANALYSIS_TIME_ZONE),
RTRIM(DQL.MIN_QUANT_LIMIT),
RTRIM(DQL.MAX_QUANT_LIMIT),
```

```
RTRIM(DQL.MIN_DETECT_LIMIT),
RTRIM(UDQ.SHORT_FORM_NAME),
RTRIM(DQL.DESCRIPTION_TEXT),
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID),
RTRIM(R.REF_PT_FROM_NAME),
RTRIM(R.REF_PT_TO_NAME),
RTRIM(RCI.PARTICLE_SIZE_BASIS),
RTRIM(R.REPL_ANALYSIS_NUM),
RTRIM(R.PRECISION_AMT_TEXT),
RTRIM(R.CONF_LVL_PCT_MSR),
R.CONF_LVL_CORR_BIAS CORR_BIAS,
RTRIM(R.BIAS) BIAS,
RTRIM(R.DILUTION_IND_CODE),
RTRIM(R.RECOVERY_IND_CODE),
RTRIM(R.CORRECTION_IND_CD),
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
f_char_name(nvl(r.tsrchar0is_number,null),nvl(r.tsrchar0org_id,null)),
RTRIM(RCI.PRIM_CLASS_DESC),
RTRIM(RCI.SEC_CLASS_DESC),
RTRIM(RCI.LOWER_BND_AMT),
RTRIM(RCI.UPPER_BND_AMT),
RTRIM(RCIUOM.SHORT_FORM_NAME),
NULL,
NULL,
NULL,
NULL,
NULL
FROM
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSMORGAN                O,
TSMPSA                      PS,
TSMPROJ                     J,
TSMSTATN                S,
TSRTRIP                     T,
TSMPRMVL    PV,
TSMGNTXT                RDESC,
TSMGNTXT                RCMNT,
TSMGNTXT                PROCEX,
TSRRCI                      RCI,
TSRUOM                  RUOM,
TSRUOM                  RCIUOM,
TSRDQL                      DQL,
TSRUOM      UDQ,
TSRANLPR                ANLPR,
```

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TSRLSPP                         LSPP,
TSRLAB                          L,
TSRCLDES                CLDES,
TSRSTVST                V,
TSRTSA                          TSA,
TSMALP          A,
TSMMAD                  MAD_HD,
TSMMAD                  MAD_HM,
TSRBIOPT            BIOPT
WHERE
PS.TSMPROJ_IS_NUMBER            = J.TSMPROJ_IS_NUMBER(+) AND
PS.TSMPROJ_ORG_ID       = J.TSMPROJ_ORG_ID(+) AND
S.TSMSTATN_IS_NUMBER            = PS.TSMSTATN_IS_NUMBER(+) AND
S.TSMSTATN_ORG_ID       = PS.TSMSTATN_ORG_ID(+) AND
F.TSRSTVST_IS_NUMBER            = V.TSRSTVST_IS_NUMBER(+)
AND F.TSRSTVST_ORG_ID           = V.TSRSTVST_ORG_ID(+)
AND V.TSMSTATN_IS_NUMBER        = TSA.TSMSTATN_IS_NUMBER(+)
AND V.TSMSTATN_ORG_ID           = TSA.TSMSTATN_ORG_ID(+)
AND V.TSRTRIP_IS_NUMBER         = TSA.TSRTRIP_IS_NUMBER(+)
AND V.TSRTRIP_ORG_ID            = TSA.TSRTRIP_ORG_ID(+)
AND TSA.TSRTRIP_IS_NUMBER       = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID          = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER      = S.TSMSTATN_IS_NUMBER(+)
AND TSA.TSMSTATN_ORG_ID         = S.TSMSTATN_ORG_ID(+)
AND S.TSMSTATN_ORG_ID           = O.ORG_ID
AND R.TSRCHAR_IS_NUMBER         = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID            = C.TSRCHAR_ORG_ID
AND R.TSRUOM_IS_NUMBER          = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID             = RUOM.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER        = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = RCI.TSRRSULT_ORG_ID(+)
AND RCI.TSRUOM_IS_NUMBER        = RCIUOM.TSRUOM_IS_NUMBER(+)
AND RCI.TSRUOM_ORG_ID           = RCIUOM.TSRUOM_ORG_ID(+)
AND R.TSRANLPR_IS_NUMBER        = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID           = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER         = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID            = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER          = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID             = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER        = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER        = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+)   = 'DESCRIPT'
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER        = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)  = 'RCMNT'
AND R.TSRRSULT_IS_NUMBER        = PROCEX.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = PROCEX.TSRRSULT_ORG_ID(+)
AND PROCEX.DESCRIPTION_NAME(+)= 'PROCEXCP'
```

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AND R.TSRRSULT_IS_NUMBER          = CLDES.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = CLDES.TSRRSULT_ORG_ID(+)
AND r.TSRFDACT_IS_NUMBER          = F.TSRFDACT_IS_NUMBER
AND r.TSRFDACT_ORG_ID             = F.TSRFDACT_ORG_ID
AND f.medium_type_name            = 'Biological'
AND S.TSMSTATN_IS_NUMBER          = A.TSMSTATN0IS_NUMBER
AND S.TSMSTATN_ORG_ID             = A.TSMSTATN0ORG_ID
AND A.TYPE_CODE = '*POINT OF RECORD'
AND A.GEOPSTNG_DATUM_CD           = MAD_HD.id_code(+)
AND MAD_HD.category (+)       = 'HORIZONTAL'
AND MAD_HD.subcategory (+)    = 'DATUM'
AND A.GEOPSTNG_METHOD_CD          = MAD_HM.id_code(+)
AND MAD_HM.category (+)           = 'HORIZONTAL'
AND MAD_HM.subcategory (+)    = 'METHOD'
AND F.TSRBIOPT_IS_NUMBER = BIOPT.TSRBIOPT_IS_NUMBER(+)
AND F.TSRBIOPT_ORG_ID             = BIOPT.TSRBIOPT_ORG_ID(+)
UNION
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID),
RTRIM(O.NAME),
RTRIM(S.IDENTIFICATION_CD),
RTRIM(S.NAME),
DECODE(TO_CHAR(F.START_DATE, 'MM/DD/YYYY'),'01/01/0001',
NULL,TO_CHAR(F.START_DATE, 'MM/DD/YYYY')),
DECODE(TO_CHAR(F.START_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.ST
ART_TIME,'HH24:MI:SS')),
RTRIM(F.START_TIME_ZONE),
RTRIM(T.ID_CODE),
RTRIM(V.ID_NUMBER),
RTRIM(F.ID_CODE),
RTRIM(F.REPLICATE_NUMBER),
F.MEDIUM_TYPE_NAME,
F.TYPE_NAME,
F.CATEGORY_TYPE_NAME,
F.QC_INDICATOR,
NULL,
NULL,
M.NAME,
NULL,
NULL,
A.POINT_NAME,
TRANSLATE(A.LAT_DIRECTION,'NS','+-')||
(LTRIM(TO_CHAR(A.GPS_LAT_DEGREE_MSR+A.GPS_LAT_MINUTE_MSR/60.00
0,'99.999999'))),
TRANSLATE(A.LONG_DIRECTION,'EW','+-')||
(LTRIM(TO_CHAR(A.GPS_LONG_DEG_MSR+A.GPS_LONG_MIN_MSR/60.000,'999
.999999'))),
RTRIM(MAD_HD.DESCRIPTION),
RTRIM(MAD_HM.DESCRIPTION),
DECODE(TO_CHAR(F.STOP_DATE,'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(
F.STOP_DATE,'MM/DD/YYYY')),
DECODE(TO_CHAR(F.STOP_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.ST
OP_TIME,'HH24:MI:SS')),
```

```
RTRIM(F.STOP_TIME_ZONE),
RTRIM(F.RELTV_DEPTH_NAME),
RTRIM(F.DEPTH_TO_ACTIVITY),
RTRIM(F.DEPTH_TO_ACT_UN_CD),
RTRIM(F.UPPER_DEPTH_TO_ACT),
RTRIM(F.LOWER_DEPTH_TO_ACT),
RTRIM(F.DEPTH_MSR_UNT_CD),
NVL(C.DISPLAY_NAME,HCSC.CHARACTERSTC_NAME),
RTRIM(R.VALUE_MEASURE),
RTRIM(RUOM.SHORT_FORM_NAME),
RTRIM(R.VALUE_TEXT),
RTRIM(RDESC.DESCRIPTION_TEXT),
PV.FIELD_VALUE,
RTRIM(R.VALUE_TYPE_NAME),
RTRIM(R.STATISTIC_TYPE_NM),
RTRIM(RCMNT.DESCRIPTION_TEXT),
RTRIM(R.VALUE_STATUS),
RTRIM(R.WT_BASIS_TYPE_NM),
RTRIM(R.TEMP_BASIS_LVL_NM),
RTRIM(R.DUR_BASIS_TYPE_NM),
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
RTRIM(LSPP.SOURCE_ACR),
RTRIM(LSPP.NAME),
RTRIM(ANLPR.SOURCE_ACR),
RTRIM(ANLPR.PROCEDURE_ID),
RTRIM(ANLPR.NAME),
RTRIM(PROCEX.DESCRIPTION_TEXT),
RTRIM(L.ID_CODE),
RTRIM(L.NAME),
RTRIM(R.LAB_CERT_IND_CODE),
RTRIM(R.LAB_BATCH_ID_CODE),
DECODE(TO_CHAR(R.ANALYSIS_DATE,'MM/DD/YYYY'),'01/01/0001',NULL,TO_C
HAR(R.ANALYSIS_DATE,'MM/DD/YYYY')),
DECODE(TO_CHAR(R.ANALYSIS_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(
R.ANALYSIS_TIME,'HH24:MI:SS')),
RTRIM(R.ANALYSIS_TIME_ZONE),
RTRIM(DQL.MIN_QUANT_LIMIT),
RTRIM(DQL.MAX_QUANT_LIMIT),
RTRIM(DQL.MIN_DETECT_LIMIT),
RTRIM(UDQ.SHORT_FORM_NAME),
RTRIM(DQL.DESCRIPTION_TEXT),
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID),
RTRIM(R.REF_PT_FROM_NAME),
RTRIM(R.REF_PT_TO_NAME),
NULL,
RTRIM(R.REPL_ANALYSIS_NUM),
RTRIM(R.PRECISION_AMT_TEXT),
```

```
RTRIM(R.CONF_LVL_PCT_MSR),
R.CONF_LVL_CORR_BIAS CORR_BIAS,
RTRIM(R.BIAS) BIAS,
RTRIM(R.DILUTION_IND_CODE),
RTRIM(R.RECOVERY_IND_CODE),
RTRIM(R.CORRECTION_IND_CD),
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
HCSC.DESCRIPTION_TEXT,
NULL,
NULL
FROM
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSMORGAN                O,
TSMPSA     PS,
TSMPROJ                         J,
TSMSTATN                S,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSRHCSC                         HCSC,
TSMALP          A,
TSRMATRX    M,
TSMPRMVL    PV,
TSMGNTXT                RDESC,
TSMGNTXT                RCMNT,
TSMGNTXT                PROCEX,
TSRUOM                  RUOM,
TSRDQL                          DQL,
TSRUOM     UDQ,
TSRANLPR                ANLPR,
TSRLSPP                         LSPP,
TSRLAB                          L,
TSMMAD                  MAD_HD,
TSMMAD                  MAD_HM
WHERE
PS.TSMPROJ_IS_NUMBER                = J.TSMPROJ_IS_NUMBER(+) AND
```

```
PS.TSMPROJ_ORG_ID           = J.TSMPROJ_ORG_ID(+) AND
S.TSMSTATN_IS_NUMBER              = PS.TSMSTATN_IS_NUMBER(+) AND
S.TSMSTATN_ORG_ID           = PS.TSMSTATN_ORG_ID(+) AND
R.TSRFDACT_IS_NUMBER              = F.TSRFDACT_IS_NUMBER
AND R.TSRFDACT_ORG_ID             = F.TSRFDACT_ORG_ID
AND F.TSRSTVST_IS_NUMBER          = V.TSRSTVST_IS_NUMBER(+)
AND F.TSRSTVST_ORG_ID             = V.TSRSTVST_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND V.TSMSTATN_IS_NUMBER          = TSA.TSMSTATN_IS_NUMBER(+)
AND V.TSMSTATN_ORG_ID             = TSA.TSMSTATN_ORG_ID(+)
AND V.TSRTRIP_IS_NUMBER           = TSA.TSRTRIP_IS_NUMBER(+)
AND V.TSRTRIP_ORG_ID              = TSA.TSRTRIP_ORG_ID(+)
AND TSA.TSRTRIP_IS_NUMBER         = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID            = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER        = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID           = S.TSMSTATN_ORG_ID
AND S.TSMSTATN_ORG_ID             = O.ORG_ID
AND R.TSRHCSC_IS_NUMBER           = HCSC.TSRHCSC_IS_NUMBER(+)
AND R.TSRHCSC_ORG_ID              = HCSC.TSRHCSC_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER            = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID               = RUOM.TSRUOM_ORG_ID(+)
AND R.TSRANLPR_IS_NUMBER          = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID             = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER           = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID              = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER            = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID               = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER          = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER          = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+)   = 'DESCRIPT'
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER          = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)  = 'RSLTCMNT'
AND R.TSRRSULT_IS_NUMBER          = PROCEX.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = PROCEX.TSRRSULT_ORG_ID(+)
AND PROCEX.DESCRIPTION_NAME (+)= 'PROCEXCP'
AND F.TYPE_NAME                 = 'Field Msr/Obs'
AND f.category_type_name          LIKE '%Habitat%'
and c.tsrchar_is_number (+)       = r.tsrchar_is_number
and c.tsrchar_org_id (+)     = r.tsrchar_org_id
AND S.TSMSTATN_IS_NUMBER          = A.TSMSTATN0IS_NUMBER
AND S.TSMSTATN_ORG_ID             = A.TSMSTATN0ORG_ID
AND A.TYPE_CODE = '*POINT OF RECORD'
AND A.GEOPSTNG_DATUM_CD           = MAD_HD.id_code(+)
AND MAD_HD.category (+)         = 'HORIZONTAL'
AND MAD_HD.subcategory (+)     = 'DATUM'
AND MAD_HM.category (+)                 = 'HORIZONTAL'
AND MAD_HM.subcategory (+)     = 'METHOD'
```

```
AND A.GEOPSTNG_METHOD_CD          = MAD_HM.id_code(+)
UNION
SELECT /*+ index(tsrchar ichar01) */
RTRIM(O.ORG_ID),
RTRIM(O.NAME),
RTRIM(S.IDENTIFICATION_CD),
RTRIM(S.NAME),
DECODE(TO_CHAR(F.START_DATE,'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHA
R(F.START_DATE, 'MM/DD/YYYY')),
DECODE(TO_CHAR(F.START_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.ST
ART_TIME,'HH24:MI:SS')),
RTRIM(F.START_TIME_ZONE),
RTRIM(T.ID_CODE),
RTRIM(V.ID_NUMBER),
RTRIM(F.ID_CODE),
RTRIM(F.REPLICATE_NUMBER),
F.MEDIUM_TYPE_NAME,
F.TYPE_NAME,
F.CATEGORY_TYPE_NAME,
F.QC_INDICATOR,
NULL,
NULL,
M.NAME,
NULL,
NULL,
A.POINT_NAME,
TRANSLATE(A.LAT_DIRECTION,'NS','+-')||
(LTRIM(TO_CHAR(A.GPS_LAT_DEGREE_MSR+A.GPS_LAT_MINUTE_MSR/60.00
0,'99.999999'))),
TRANSLATE(A.LONG_DIRECTION,'EW','+-')||
(LTRIM(TO_CHAR(A.GPS_LONG_DEG_MSR+A.GPS_LONG_MIN_MSR/60.000,'999
.999999'))),
RTRIM(MAD_HD.DESCRIPTION),
RTRIM(MAD_HM.DESCRIPTION),
DECODE(TO_CHAR(F.STOP_DATE,'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(
F.STOP_DATE,'MM/DD/YYYY')),
DECODE(TO_CHAR(F.STOP_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.ST
OP_TIME,'HH24:MI:SS')),
RTRIM(F.STOP_TIME_ZONE),
RTRIM(F.RELTV_DEPTH_NAME),
RTRIM(F.DEPTH_TO_ACTIVITY),
RTRIM(F.DEPTH_TO_ACT_UN_CD),
RTRIM(F.UPPER_DEPTH_TO_ACT),
RTRIM(F.LOWER_DEPTH_TO_ACT),
RTRIM(F.DEPTH_MSR_UNT_CD),
RTRIM(C.DISPLAY_NAME),
RTRIM(R.VALUE_MEASURE),
RTRIM(RUOM.SHORT_FORM_NAME),
RTRIM(R.VALUE_TEXT),
RTRIM(RDESC.DESCRIPTION_TEXT),
PV.FIELD_VALUE,
RTRIM(R.VALUE_TYPE_NAME),
RTRIM(R.STATISTIC_TYPE_NM),
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RTRIM(RCMNT.DESCRIPTION_TEXT),
RTRIM(R.VALUE_STATUS),
RTRIM(R.WT_BASIS_TYPE_NM),
RTRIM(R.TEMP_BASIS_LVL_NM),
RTRIM(R.DUR_BASIS_TYPE_NM),
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
RTRIM(LSPP.SOURCE_ACR),
RTRIM(LSPP.NAME),
RTRIM(ANLPR.SOURCE_ACR),
RTRIM(ANLPR.PROCEDURE_ID),
RTRIM(ANLPR.NAME),
RTRIM(PROCEX.DESCRIPTION_TEXT),
RTRIM(L.ID_CODE),
RTRIM(L.NAME),
RTRIM(R.LAB_CERT_IND_CODE),
RTRIM(R.LAB_BATCH_ID_CODE),
DECODE(TO_CHAR(R.ANALYSIS_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(R.ANALYSIS_DATE, 'MM/DD/YYYY')),
DECODE(TO_CHAR(R.ANALYSIS_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(
R.ANALYSIS_TIME,'HH24:MI:SS')),
RTRIM(R.ANALYSIS_TIME_ZONE),
RTRIM(DQL.MIN_QUANT_LIMIT),
RTRIM(DQL.MAX_QUANT_LIMIT),
RTRIM(DQL.MIN_DETECT_LIMIT),
RTRIM(UDQ.SHORT_FORM_NAME),
RTRIM(DQL.DESCRIPTION_TEXT),
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID),
RTRIM(R.REF_PT_FROM_NAME),
RTRIM(R.REF_PT_TO_NAME),
RTRIM(RCI.PARTICLE_SIZE_BASIS),
RTRIM(R.REPL_ANALYSIS_NUM),
RTRIM(R.PRECISION_AMT_TEXT),
RTRIM(R.CONF_LVL_PCT_MSR),
R.CONF_LVL_CORR_BIAS CORR_BIAS,
RTRIM(R.BIAS) BIAS,
RTRIM(R.DILUTION_IND_CODE),
RTRIM(R.RECOVERY_IND_CODE),
RTRIM(R.CORRECTION_IND_CD),
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
```

```
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL
FROM
TSRCHAR              C,
TSRRSULT             R,
TSRFDACT             F,
TSMORGAN             O,
TSMPSA                    PS,
TSMPROJ                   J,
TSMSTATN             S,
TSRTRIP                   T,
TSRLAB                    L,
TSRSTVST             V,
TSRTSA                    TSA,
TSMALP          A,
TSRMATRX    M,
TSMPRMVL    PV,
TSMGNTXT             RDESC,
TSMGNTXT             RCMNT,
TSMGNTXT             PROCEX,
TSRBIOPT             BIOPT,
TSRRCI                    RCI,
TSRUOM          RUOM,
TSRUOM                    RCIUOM,
TSRDQL                    DQL,
TSRUOM     UDQ,
TSRANLPR             ANLPR,
TSRLSPP                   LSPP,
TSMMAD               MAD_HD,
TSMMAD               MAD_HM
WHERE
PS.TSMPROJ_IS_NUMBER          = J.TSMPROJ_IS_NUMBER(+) AND
PS.TSMPROJ_ORG_ID        = J.TSMPROJ_ORG_ID(+) AND
S.TSMSTATN_IS_NUMBER          = PS.TSMSTATN_IS_NUMBER(+) AND
S.TSMSTATN_ORG_ID        = PS.TSMSTATN_ORG_ID(+) AND
R.TSRFDACT_IS_NUMBER          = F.TSRFDACT_IS_NUMBER
AND R.TSRFDACT_ORG_ID         = F.TSRFDACT_ORG_ID
AND F.TSRSTVST_IS_NUMBER      = V.TSRSTVST_IS_NUMBER(+)
AND F.TSRSTVST_ORG_ID         = V.TSRSTVST_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND V.TSMSTATN_IS_NUMBER      = TSA.TSMSTATN_IS_NUMBER(+)
AND V.TSMSTATN_ORG_ID         = TSA.TSMSTATN_ORG_ID(+)
AND V.TSRTRIP_IS_NUMBER       = TSA.TSRTRIP_IS_NUMBER(+)
AND V.TSRTRIP_ORG_ID          = TSA.TSRTRIP_ORG_ID(+)
AND TSA.TSRTRIP_IS_NUMBER     = T.TSRTRIP_IS_NUMBER
```

```
AND TSA.TSRTRIP_ORG_ID              = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER      = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID         = S.TSMSTATN_ORG_ID
AND S.TSMSTATN_ORG_ID           = O.ORG_ID
AND R.TSRCHAR_IS_NUMBER         = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID            = C.TSRCHAR_ORG_ID
AND F.TSRBIOPT_IS_NUMBER = BIOPT.TSRBIOPT_IS_NUMBER(+)
AND F.TSRBIOPT_ORG_ID           = BIOPT.TSRBIOPT_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER          = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID             = RUOM.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER        = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = RCI.TSRRSULT_ORG_ID(+)
AND RCI.TSRUOM_IS_NUMBER        = RCIUOM.TSRUOM_IS_NUMBER(+)
AND RCI.TSRUOM_ORG_ID           = RCIUOM.TSRUOM_ORG_ID(+)
AND R.TSRANLPR_IS_NUMBER        = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID           = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER         = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID            = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER          = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID             = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER        = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER        = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+)   ='DESCRIPT'
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER        = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)  = 'RSLTCMNT'
AND R.TSRRSULT_IS_NUMBER        = PROCEX.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = PROCEX.TSRRSULT_ORG_ID(+)
AND PROCEX.DESCRIPTION_NAME(+)= 'PROCEXCP'
AND f.medium_type_name              <> 'Biological'
and f.type_name             <> 'Data Logger'
and f.category_type_name NOT LIKE '%Habitat%'
AND S.TSMSTATN_IS_NUMBER        = A.TSMSTATN0IS_NUMBER
AND S.TSMSTATN_ORG_ID           = A.TSMSTATN0ORG_ID
AND A.TYPE_CODE = '*POINT OF RECORD'
AND A.GEOPSTNG_DATUM_CD         = MAD_HD.id_code(+)
AND MAD_HD.category (+)         = 'HORIZONTAL'
AND MAD_HD.subcategory (+)    = 'DATUM'
AND MAD_HM.category (+)             = 'HORIZONTAL'
AND MAD_HM.subcategory (+)    = 'METHOD'
AND A.GEOPSTNG_METHOD_CD        = MAD_HM.id_code(+)
UNION
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID),
RTRIM(O.NAME),
RTRIM(S.IDENTIFICATION_CD),
RTRIM(S.NAME),
```

```
DECODE(TO_CHAR(F.START_DATE, 'MM/DD/YYYY'),'01/01/0001',
NULL,TO_CHAR(F.START_DATE, 'MM/DD/YYYY')),
DECODE(TO_CHAR(F.START_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.ST
ART_TIME,'HH24:MI:SS')),
RTRIM(F.START_TIME_ZONE),
RTRIM(T.ID_CODE),
RTRIM(V.ID_NUMBER),
RTRIM(F.ID_CODE),
RTRIM(F.REPLICATE_NUMBER),
F.MEDIUM_TYPE_NAME,
F.TYPE_NAME,
F.CATEGORY_TYPE_NAME,
F.QC_INDICATOR,
NULL,
NULL,
M.NAME,
NULL,
NULL,
A.POINT_NAME,
TRANSLATE(A.LAT_DIRECTION,'NS','+-')||
(LTRIM(TO_CHAR(A.GPS_LAT_DEGREE_MSR+A.GPS_LAT_MINUTE_MSR/60.00
0,'99.999999'))),
TRANSLATE(A.LONG_DIRECTION,'EW','+-')||
(LTRIM(TO_CHAR(A.GPS_LONG_DEG_MSR+A.GPS_LONG_MIN_MSR/60.000,'999
.999999'))),
RTRIM(MAD_HD.DESCRIPTION),
RTRIM(MAD_HM.DESCRIPTION),
DECODE(TO_CHAR(F.STOP_DATE,'MM/DD/YYYY'),'01/01/0001',NULL,TO_CHAR(
F.STOP_DATE,'MM/DD/YYYY')),
DECODE(TO_CHAR(F.STOP_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(F.ST
OP_TIME,'HH24:MI:SS')),
RTRIM(F.STOP_TIME_ZONE),
RTRIM(F.RELTV_DEPTH_NAME),
RTRIM(F.DEPTH_TO_ACTIVITY),
RTRIM(F.DEPTH_TO_ACT_UN_CD),
RTRIM(F.UPPER_DEPTH_TO_ACT),
RTRIM(F.LOWER_DEPTH_TO_ACT),
RTRIM(F.DEPTH_MSR_UNT_CD),
RTRIM(C.DISPLAY_NAME),
RTRIM(R.VALUE_MEASURE),
RTRIM(RUOM.SHORT_FORM_NAME),
RTRIM(R.VALUE_TEXT),
RTRIM(RDESC.DESCRIPTION_TEXT),
RTRIM(PV.FIELD_VALUE),
RTRIM(R.VALUE_TYPE_NAME),
RTRIM(R.STATISTIC_TYPE_NM),
RTRIM(RCMNT.DESCRIPTION_TEXT),
RTRIM(R.VALUE_STATUS),
RTRIM(R.WT_BASIS_TYPE_NM),
RTRIM(R.TEMP_BASIS_LVL_NM),
RTRIM(R.DUR_BASIS_TYPE_NM),
NULL,
NULL,
```

```
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
RTRIM(ANLPR.SOURCE_ACR),
RTRIM(ANLPR.PROCEDURE_ID),
RTRIM(ANLPR.NAME),
RTRIM(PROCEX.DESCRIPTION_TEXT),
rtrim(L.ID_CODE),
rtrim(L.NAME),
rtrim(R.LAB_CERT_IND_CODE),
rtrim(R.LAB_BATCH_ID_CODE),
DECODE(TO_CHAR(R.ANALYSIS_DATE, 'MM/DD/YYYY'), '01/01/0001', NULL,
TO_CHAR(R.ANALYSIS_DATE, 'MM/DD/YYYY')),
DECODE(TO_CHAR(R.ANALYSIS_TIME,'HH24:MI:SS'),'00:00:00',NULL,TO_CHAR(
R.ANALYSIS_TIME,'HH24:MI:SS')),
rtrim(R.ANALYSIS_TIME_ZONE),
rtrim(DQL.MIN_QUANT_LIMIT),
rtrim(DQL.MAX_QUANT_LIMIT),
rtrim(DQL.MIN_DETECT_LIMIT),
rtrim(UDQ.SHORT_FORM_NAME),
rtrim(DQL.DESCRIPTION_TEXT),
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID),
RTRIM(R.REF_PT_FROM_NAME),
RTRIM(R.REF_PT_TO_NAME),
RTRIM(RCI.PARTICLE_SIZE_BASIS),
RTRIM(R.REPL_ANALYSIS_NUM),
RTRIM(R.PRECISION_AMT_TEXT),
RTRIM(R.CONF_LVL_PCT_MSR),
R.CONF_LVL_CORR_BIAS CORR_BIAS,
RTRIM(R.BIAS) BIAS,
RTRIM(R.DILUTION_IND_CODE),
RTRIM(R.RECOVERY_IND_CODE),
RTRIM(R.CORRECTION_IND_CD),
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
NULL,
```

```
NULL,
TO_CHAR(DL.LINE_NUMBER,'99999999'),
DL.LINE_NAME
FROM
TSRCHAR              C,
TSRRSULT             R,
TSRFDACT             F,
TSMORGAN             O,
TSMPSA     PS,
TSMPROJ                    J,
TSMSTATN             S,
TSRTRIP                    T,
TSRSTVST             V,
TSRTSA                     TSA,
TSRDLIN    DL,
TSMALP           A,
TSRMATRX   M,
TSMPRMVL   PV,
TSMGNTXT             RDESC,
TSMGNTXT             RCMNT,
TSMGNTXT             PROCEX,
TSRRCI     RCI,
TSRUOM               RUOM,
TSRUOM               UDQ,
TSRDQL                     DQL,
TSRANLPR             ANLPR,
TSRLAB                     L,
TSMMAD               MAD_HD,
TSMMAD               MAD_HM
WHERE
PS.TSMPROJ_IS_NUMBER          = J.TSMPROJ_IS_NUMBER(+) AND
PS.TSMPROJ_ORG_ID             = J.TSMPROJ_ORG_ID(+) AND
S.TSMSTATN_IS_NUMBER          = PS.TSMSTATN_IS_NUMBER(+) AND
S.TSMSTATN_ORG_ID             = PS.TSMSTATN_ORG_ID(+) AND
DL.TSRFDACT_IS_NUMBER         = F.TSRFDACT_IS_NUMBER
AND DL.TSRFDACT_ORG_ID        = F.TSRFDACT_ORG_ID
AND R.TSRDLIN_IS_NUMBER   = DL.TSRDLIN_IS_NUMBER
AND R.TSRDLIN_ORG_ID      = DL.TSRDLIN_ORG_ID
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND F.TSRSTVST_IS_NUMBER      = V.TSRSTVST_IS_NUMBER(+)
AND F.TSRSTVST_ORG_ID         = V.TSRSTVST_ORG_ID(+)
AND V.TSMSTATN_IS_NUMBER      = TSA.TSMSTATN_IS_NUMBER(+)
AND V.TSMSTATN_ORG_ID         = TSA.TSMSTATN_ORG_ID(+)
AND V.TSRTRIP_IS_NUMBER       = TSA.TSRTRIP_IS_NUMBER(+)
AND V.TSRTRIP_ORG_ID          = TSA.TSRTRIP_ORG_ID(+)
AND TSA.TSRTRIP_IS_NUMBER     = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID        = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER    = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID       = S.TSMSTATN_ORG_ID
AND S.TSMSTATN_ORG_ID         = O.ORG_ID
AND R.TSRUOM_IS_NUMBER        = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID           = RUOM.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER      = RCI.TSRRSULT_IS_NUMBER(+)
```

```
AND R.TSRRSULT_ORG_ID                = RCI.TSRRSULT_ORG_ID(+)
AND R.TSRANLPR_IS_NUMBER             = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID                = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER               = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID                  = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER             = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER             = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+)   = 'DESCRIPT'
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER             = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)  = 'RSLTCMNT'
AND R.TSRRSULT_IS_NUMBER             = PROCEX.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = PROCEX.TSRRSULT_ORG_ID(+)
AND PROCEX.DESCRIPTION_NAME (+)= 'PROCEXCP'
AND F.TYPE_NAME                 = 'Field Msr/Obs'
AND f.category_type_name        LIKE '%Data Log%'
and c.tsrchar_is_number (+)     = r.tsrchar_is_number
and c.tsrchar_org_id (+)    = r.tsrchar_org_id
AND S.TSMSTATN_IS_NUMBER        = A.TSMSTATN0IS_NUMBER
AND S.TSMSTATN_ORG_ID           = A.TSMSTATN0ORG_ID
AND A.TYPE_CODE = '*POINT OF RECORD'
AND A.GEOPSTNG_DATUM_CD          = MAD_HD.id_code(+)
AND MAD_HD.category (+)         = 'HORIZONTAL'
AND MAD_HD.subcategory (+)    = 'DATUM'
AND MAD_HM.category (+)                = 'HORIZONTAL'
AND MAD_HM.subcategory (+)    = 'METHOD'
AND A.GEOPSTNG_METHOD_CD         = MAD_HM.id_code(+)
ORDER BY 1
```

Select Options: Organizations, Projects, Stations, Characteristics, Location Area, Activity Dates

Sort Sequence: By ascending Organization ID, by ascending Station ID, by Activity Start Date, Start Time, Time Zone.

Page Break: None.

Report Heading	Prompt Name	Oracle Name
O4 Organization Data Entry		TSMORGAN
	ID	ORG_ID
	Name	NAME
T3 Field Trip Data Entry		TSRTRIP
	ID	ID_CODE
ST4 Station Data Entry		TSMSTATN
	ID	IDENTIFICATION_CD

Report Heading	Prompt Name	Oracle Name
	Name	NAME
SV3 Station Visit Data Entry		TSRSTVST
	Visit Number	ID_NUMBER
FA3 Field Measurement/Observation Data Entry **FA2 Sample Data Entry** **SV5 Activity Type Selection** **FA16 Field Activity Depth and Stratification Data Entry**		TSRFDACT
	ID	ID_CODE
	Replicate Number	REPLICATE_NUMBER
	Activity Type	TYPE_NAME
	Medium	MEDIUM_TYPE_NAME
	Activity Category	CATEGORY_TYPE_NAME
	Intent	INTENT_TYPE_NAME
	Community	COMMUNITY_NAME
	Start, MM-DD-YYYY, Activity	START_DATE
	Start, HH:MM:SS, Activity	START_TIME
	Start, Zone, Activity	START_TIME_ZONE
	Stop, MM-DD-YYYY, Activity	STOP_DATE
	Stop, HH:MM:SS, Activity	STOP_TIME
	Stop, Zone, Activity	STOP_TIME_ZONE
	Species Number	SPECIES_NUMBER
	QC	QC_INDICATOR
	Depth to Activity, Depth	DEPTH_TO_ACTIVITY
		DEPTH_TO_ACT_UN_CD
	Depth to Activity , Relative Depth	RELTV_DEPTH_NAME
	Depth Range for Activity, Upper Depth	UPPER_DEPTH_TO_ACT
	Depth Range for Activity, Lower Depth	LOWER_DEPTH_TO_ACT
	N/A (Unit for Upper Lower Depth)	DEPTH_MSR_UNT_CD
		TSRMATRX
	Matrix	NAME
		TSRBIOPT
	Bio Part	NAME
AL2 Absolute Location Data Entry		TSMALP
	Point Name	POINT_NAME
	Decimal Minute Latitude	LAT_DIRECTION
		GPS_LAT_DEGREE_MSR
		GPS_LAT_MINUTE_MSR
	Decimal Minute Longitude	LONG_DIRECTION
		GPS_LONG_DEG_MSR
		GPS_LONG_MIN_MSR
		TSMMAD

Report Heading	Prompt Name	Oracle Name
	Geopositioning, Method Geopositioning, Datum Method Datum	DESCRIPTION
R4 Chemical Result Data Entry **R8 Physical Result Data Entry** **APL2 Result Laboratory Data Entry** **APL4 Result Laboratory Factor Assignment Maintenance List** **RG11 Result Maintenance List - Multi-Taxon Population Census** **RG12 Result Maintenance List - Multi-Taxon Population Census** **RG15 Single Taxon Frequency Class-Physical-Data Entry** **RG15A Single Taxon Frequency Class-Biological-Data Entry** **R7 Result Text Data Entry** **RG23 Single Taxon Individual Result Maintenance List** **P49 Field Activity Scheme Main List - Habitat Classification** **P9 Portable Data Logger Result Maintenance List** **P9A Data Line Name Maintenance**		TSRRSULT
	Value Count	VALUE_TEXT
	N/A	VALUE_MEASURE
	Value Type Count Type	VALUE_TYPE_NAME
	Statistic Type	STATISTIC_TYPE_NM
	Precision +/-	PRECISION_AMT_TEXT
	Confidence Level	CONF_LVL_PCT_MSR
	Corrected for Bias	CONF_LVL_CORR_BIAS
	Bias	BIAS
	Value Status	VALUE STATUS
	Duration	DUR_BASIS_TYPE_NM
	Weight	WT_BASIS_TYPE_NM
	Temperature	TEMP_BASIS_LVL_NM
	# of Replicate Analyses	REPL_ANALYSIS_NUM
	From	REF_PT_FROM_NAME
	To	REF_PT_TO_NAME
	Lab Batch Id	LAB_BATCH_ID_CODE
	Lab Certified for analyte and method...	LAB_CERT_IND_CODE
	Analysis Date	ANALYSIS_DATE
	Analysis Time	ANALYSIS_TIME
	Analysis Time Zone	ANALYSIS_TIME_ZONE
	Species #	SPECIES_NUMBER
	Functional Feeding Group	FNCTIONAL_FEED_GRP
	Taxon Pollution Tolerance	TAXON_POLLUTION
	Trophic Level	TROPHIC_LEVEL
		TSMPRMVL
	Sample Fraction Type	SMPL_FRAC_TYPE_NM
	Habit Voltinism	FIELD_VALUE
		TSRCLDES

Report Heading	Prompt Name	Oracle Name
	Cell Form	CELL_TYPE_NM
	Cell Shape	CELL_SHAPE_TYPE_NM
		TSRRCI
	Particle Size Basis	PARTICLE_SIZE_BASIS
	Lower	LOWER_BND_AMT
	Upper	UPPER_BND_AMT
	Class Descriptor, Primary	PRIM_CLASS_DESC
	Class Descriptor, Secondary	SEC_CLASS_DESC
		TSRDQL
	Result Limits, Quantification Low	MIN_QUANT_LIMIT
	Result Limits, Qunatification High	MAX_QUANT_LIMIT
	Result Limits, Detection Limit	MIN_DETECT_LIMIT
	Description	DESCRIPTION_TEXT
	QC Adjustment Factors, Dilution	DILUTION_IND_CODE
	QC Adjustment Factors, Correction	CORRECTION_IND_CD
	QC Adjustment Factors, Recovery	RECOVERY_IND_CODE
		TSRCHAR
	Characteristic Subject Subject Taxon	DISPLAY_NAME
		TSRBRGI
	Select Individual	INDIVIDUAL_NUMBER
		TSMGNTXT
	Comments Observation Result Text	DESCRIPTION_TEXT
		TSRUOM
	Unit	SHORT_FORM_NAME
		TSRLAB
	Laboratory	ID_CODE
		NAME
		TSRCPV
	Sex	SHORT_NAME
	Lifestage	
		TSRHCSC
	Habitat Characteristic Name	CHARACTERSTC_NAME
	Description	DESCRIPTION_TEXT
		TSRDLIN
	Line Number	LINE_NUMBER
	Line Name	LINE_NAME
APL1 Result Field/Lab Analytical Procedure Maintenance List		TSRANLPR
	Assigned Procedure, Source	SOURCE_ACR
	Name	NAME
	Assigned Procedure, ID	PROCEDURE_ID
APL6 Lab Sample Prep Assignment		TSRLSPP

Report Heading	Prompt Name	Oracle Name
	Owner	SOURCE_ACR
	Name	NAME
	Prep ID	PREPARATION_ID
APL5 Result Lab Remarks Assignment Maintenance List **RT51 Lab Remark Data Entry**		TSRLBRMK
	Short Name	SHORT_NAME
RG10 Group Maintenance - Multi-Taxon Pop. Census Data Entry **RG2 Result Group Type Selection** **RG17 Single Taxon Group Data Entry** **RG14 Single Taxon Frequency Class Group Data Entry** **RG23 Single Taxon Individual Result Maintenance List**		TSRBRG
	Group ID	ID_CODE
	Description	DESCRIPTION_TEXT
	Type Name	TYPE_NAME
	Frequency Analysis by Physical Measures Frequency Analysis by Biological Condition	TYPE INDICATOR
	Species Number	SPECIES_NUMBER
	Total Number in Group Total number of Individuals	SUMMARY_GRP_COUNT
	Count Type	VALUE_TYPE_NAME

EXAMPLE

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
	NAME	Org Name
TSMSTATN	IDENTIFICATION_CD	Station ID
	NAME	Station Name
TSRFDACT	START_DATE	Act Start
	START_TIME	N/A
	START_TIME_ZONE	N/A
TSRTRIP	ID_CODE	Trip ID
TSRSTVST	ID_NUMBER	Vst#
TSRFDACT (cont.)	ID_CODE	Activity ID
	REPLICATE_NUMBER	Rep#
	MEDIUM_TYPE_NAME	Act Medium
TSRMATRX	NAME	Sample Matrix
TSRFDACT (cont.)	TYPE_NAME	Act Type
	CATEGORY_TYPE_NAME	Act Category
	QC_INDICATOR	QC Activity
	INTENT_TYPE_NAME	Act Intent
	COMMUNITY_NAME	Act Community
TSRCHAR TSRFDACT (cont.)	DISPLAY_NAME SPECIES_NUMBER	Act Subj Taxon (concatenated with taxon)
TSRBIOPT	NAME	Biopart Name
TSMALP	POINT_NAME	Point Name
	LAT_DIRECTION GPS_LAT_DEGREE_MSR GPS_LATMINUTE_MSR w/ translation	Latitude
	LONG_DIRECTION GPS_LONG_DEG_MSR GPS_LONG_MIN_MSR w/ translation	Longitude
TSMMAD	DESCRIPTION	Horizontal Datum
		Geopositioning Method
TSRFDACT (cont.)	STOP_DATE	Act Stop
	STOP_TIME	N/A
	STOP_TIME_ZONE	N/A
	RELTV_DEPTH_NAME	Activity Rel Depth
	DEPTH_TO_ACTIVITY	Activity Depth
	DEPTH_TO_ACT_UN_CD	Activity Depth Unit
	UPPER_DEPTH_TO_ACT	Activity Upper Depth
	LOWER_DEPTH_TO_ACT	Activity Lower Depth

Table	Attribute	Column Name
	DEPTH_MSR_UNT_CD	Upr Lwr Depth Unit
TSRDLIN	LINE_NUMBER	Line #
	LINE_NAME	Line Name
TSRCHAR (cont.) or TSRHCSC	DISPLAY_NAME or CHARACTERISTIC_NAME	Characteristic Name
TSRRSULT	SPECIES_NUMBER	(concatenated with taxon)
	VALUE_MEASURE	Res Val
TSRUOM	SHORT_FORM_NAME	Res Unit
TSRRSULT (cont.)	VALUE_TEXT	Result Val Text
TSMGNTXT	DESCRIPTION_TEXT	Text Result
TSMPRMVL	SMPL_FRAC_TYPE_NM	Sampl Frac Type
TSRRSULT (cont.)	VALUE_TYPE_NAME	Res Type
	STATISTIC_TYPE_NM	Statistic Type
TSMGNTXT (cont.)	DESCRIPTION_TEXT	Result Comment
TSRRSULT (cont.)	VALUE_STATUS	Res Stat
	WT_BASIS_TYPE_NM	Weight
	TEMP_BASIS_LVL_NM	Temp
	DUR_BASIS_TYPE_NM	Duration
	FNCTIONAL_FEED_GRP	Feeding Group
	TAXON_POLLUTION	Pollution Tolerance
	TROPHIC_LEVEL	Trophic Level
TSMPRMVL (cont.)	FIELD_VALUE	Habit
		Voltinism
TSRCLDES	CELL_SHAPE_TYPE_NM	Cell Shape
	CELL_TYPE_NM	Cell Form
TSRLSPP	SOURCE_ACR	Smp Prep Src
	NAME	Smp Prep Name
TSRANLPR	SOURCE_ACR	An Proc Src
	PROCEDURE_ID	An Proc ID
	NAME	An Proc Name
TSMGNTXT (cont.)	DESCRIPTION	Anal Proc Exception
TSRLAB	ID_CODE	Lab ID
	NAME	Lab Name
TSRRSULT (cont.)	LAB_CERT_IND_CODE	Crt
	LAB_BATCH_ID_CODE	Lab Batch ID
	ANALYSIS_DATE	Anal Date
	ANALYSIS_TIME	N/A
	ANALYSIS_TIME_ZONE	N/A
TSRDQL	MIN_QUANT_LIMIT	Lwr Quan Lmt
	MAX_QUANT_LIMIT	Upr Quan Lmt

Table	Attribute	Column Name
	MIN_DETECT_LIMIT	Detectn Lmt
TSRUOM	SHORT_FORM_NAME	Detectn Lmt Unit
TSRDQL (cont.)	DESCRIPTION_TEXT	Detection Lmt Desc
TSRLBRMK	SHORT_NAME	Lab Remarks
TSRRSULT (cont.)	REF_PT_FROM_NAME	Dist Meas From
	REF_PT_TO_NAME	Dist Meas To
TSRRCI	PARTICLE_SIZE_BASIS	Particle Size
TSRRSULT (cont.)	REPL_ANALYSIS_NUM	Repl Ct
	PRECISION_AMT_TEXT	Precision
	CONF_LVL_PCT_MSR	Conf Level (CL)
	CONF_LVL_CORR_BIAS	CL Corrected for Bias
	BIAS	Bias
	DILUTION_IND_CODE	Dilution Ind
	RECOVERY_IND_CODE	Recovery Ind
	CORRECTION_IND_CD	Correction Ind
TSRBRG	ID_CODE	BRG ID
	TYPE_NAME	Bio Group Type
TSRCHAR (cont.)	DISPLAY_NAME	Bio Group Subj Txn
TSRBRG (cont.)	SPECIES_NUMBER	(concatenated with taxon)
	TYPE_INDICATOR	P/B
	DESCRIPTION_TEXT	Bio Group Description
TSRCPV	SHORT_NAME	Group Desc Sex
	SHORT_NAME	Group Desc Lifestage
TSRBRGI	INDIVIDUAL_NUMBER	Ind#
TSRCHAR (cont.)	DISPLAY_NAME	Common Class Desc
TSRRCI (cont.)	PRIM_CLASS_DESC	Pri Cls Desc
	SEC_CLASS_DESC	Sec Cls Desc
	LOWER_BND_AMT	Lwr Bnd Amt
	UPPER_BND_AMT	Upr Bnd Amt
TSRUOM (cont.)	SHORT_FORM_NAME	Bio RCI Unt
	SUMMARY_GRP_COUNT	# Grp
TSRBRG (cont.)	VALUE_TYPE_NAME	BRG Cnt Ty
TSRHCSC	DESCRIPTION_TEXT	Habitat Class Desc

Export: Results Physical/Chemical Small Export

Report Description: This tilde-delimited export file report provides information regarding the results obtained for physical and chemical measurement activities including those obtained with Portable Data Loggers.

Activities without assigned Characteristics will not be shown.

Location Points are the Station's Point of Record.

Select Logic: **PhysChem.sql**

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.QC_INDICATOR QC,
M.NAME SAMPLE_MATRIX,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
C.DISPLAY_NAME CHR,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
PV.FIELD_VALUE SMPL_FRAC
FROM
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSRMATRX    M,
TSMPRMVL    PV,
TSRUOM          RUOM
WHERE
PS.TSMPROJ_IS_NUMBER            = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID               = J.TSMPROJ_ORG_ID AND
```

```
S.TSMSTATN_IS_NUMBER              = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID                 = PS.TSMSTATN_ORG_ID AND
R.TSRFDACT_IS_NUMBER              = F.TSRFDACT_IS_NUMBER
AND R.TSRFDACT_ORG_ID             = F.TSRFDACT_ORG_ID
AND F.TSRSTVST_IS_NUMBER          = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID             = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER          = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID             = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER           = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID              = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER         = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID            = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER        = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                   = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                  = O.TSMORGAN_IS_NUMBER
AND f.medium_type_name            <> '||""||'Biological'||""||'
and f.type_name                   <> '||""||'Data Logger'||""||'
and f.category_type_name NOT LIKE '||""||'%Habitat%'||""||'
AND R.TSRCHAR_IS_NUMBER                   = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID              = C.TSRCHAR_ORG_ID
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRUOM_IS_NUMBER            = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID               = RUOM.TSRUOM_ORG_ID(+)
```

PDL.sql

```
SELECT /*+ index(tsrchar ichar01) */  DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.QC_INDICATOR QC,
M.NAME SAMPLE_MATRIX,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
RTRIM(DL.LINE_NUMBER) DL_NUM,
DL.LINE_NAME DL_NAME,
C.DISPLAY_NAME CHR,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
PV.FIELD_VALUE SMPL_FRAC
FROM
TSRCHAR                   C,
```

```
TSRRSULT                R,
TSRFDACT                F,
TSRDLIN    DL,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSRMATRX    M,
TSMPRMVL    PV,
TSRUOM              RUOM
WHERE
PS.TSMPROJ_IS_NUMBER                = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID           = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER                = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID                   = PS.TSMSTATN_ORG_ID AND
DL.TSRFDACT_IS_NUMBER               = F.TSRFDACT_IS_NUMBER
AND DL.TSRFDACT_ORG_ID              = F.TSRFDACT_ORG_ID
AND R.TSRDLIN_IS_NUMBER  = DL.TSRDLIN_IS_NUMBER
AND R.TSRDLIN_ORG_ID                = DL.TSRDLIN_ORG_ID
AND F.TSRSTVST_IS_NUMBER            = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID               = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER            = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID               = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER             = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID                = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER           = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID              = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER          = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                     = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                    = O.TSMORGAN_IS_NUMBER
AND f.medium_type_name              <> '||""||'Biological'||""||'
and f.type_name                 <> '||""||'Data Logger'||""||'
and f.category_type_name NOT LIKE '||""||'%Habitat%'||""||'
AND R.TSRCHAR_IS_NUMBER                     = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID                = C.TSRCHAR_ORG_ID
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRUOM_IS_NUMBER              = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                 = RUOM.TSRUOM_ORG_ID(+)
```

Select Options: Organizations, Projects, Stations, Characteristics, Activity Dates

Sort Sequence: None

Page Break: None.

Export Contents

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
	NAME	Org Name
TSMSTATN	IDENTIFICATION_CD	Station ID
	NAME	Station Name
TSRFDACT	START_DATE	Act Start
	START_TIME	N/A
	START_TIME_ZONE	N/A
	ID_CODE	Activity ID
	REPLICATE_NUMBER	Rep #
	MEDIUM_TYPE_NAME	Act Medium
TSRMATRX	NAME	Sample Matrix
TSRFDACT (cont.)	TYPE_NAME	Act Type
	CATEGORY_TYPE_NAME	Act Category
	QC_INDICATOR	QC Activity
	DEPTH_TO_ACTIVITY	Activity Depth
	DEPTH_TO_ACT_UN_CD	Activity Depth Unit
TSRDLIN	LINE_NUMBER	Line #
	LINE_NAME	Line Name
TSRCHAR	DISPLAY_NAME	Characteristic Name
TSRRSULT	VALUE_TEXT	Res Val Text
TSRUOM	SHORT_FORM_NAME	Res Unit
TSMPRMVL	SMPL_FRAC_TYPE_NM	Sampl Frac Type

Export: Results Physical/Chemical Medium Export

Report Description: This tilde-delimited export file report provides information regarding the results obtained for physical and chemical measurement activities including those obtained with Portable Data Loggers.

Activities without assigned Characteristics will not be shown.

Location Points are the Station's Point of Record.

Select Logic: **PhysChem.sql**

```
SELECT /*+ index(tsrchar ichar01) */  DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
RTRIM(T.ID_CODE) TRIP,
RTRIM(V.ID_NUMBER) VISIT,
RTRIM(F.ID_CODE) FDID,
RTRIM(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.QC_INDICATOR QC,
M.NAME SAMPLE_MATRIX,
DECODE(TO_CHAR(F.START_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.START_DATE,'||""||'
MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
RTRIM(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
RTRIM(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
RTRIM(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
C.DISPLAY_NAME CHR,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',RDESC.description_text,null)RDESC_DESC,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text)RCMNT_DESC,
PV.FIELD_VALUE SMPL_FRAC,
RTRIM(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
RTRIM(R.STATISTIC_TYPE_NM) STAT_TYPE,
R.VALUE_STATUS VAL_STAT,
RTRIM(R.WT_BASIS_TYPE_NM) WT_BASIS,
RTRIM(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
RTRIM(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
```

```
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT
FROM
TSRCHAR              C,
TSRRSULT             R,
TSRFDACT             F,
TSMORGAN             O,
TSMPSA                    PS,
TSMPROJ                   J,
TSMSTATN             S,
TSRTRIP                   T,
TSRSTVST             V,
TSRTSA                    TSA,
TSRUOM          RUOM,
TSRUOM     UDQ,
TSRMATRX    M,
TSMPRMVL    PV,
TSMGNTXT    RDESC,
TSMGNTXT    RCMNT,
TSRANLPR             ANLPR,
TSRLSPP                   LSPP,
TSRDQL     DQL
WHERE
PS.TSMPROJ_IS_NUMBER          = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID             = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER          = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID             = PS.TSMSTATN_ORG_ID AND
R.TSRFDACT_IS_NUMBER          = F.TSRFDACT_IS_NUMBER
AND R.TSRFDACT_ORG_ID         = F.TSRFDACT_ORG_ID
AND F.TSRSTVST_IS_NUMBER      = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID         = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER      = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID         = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER       = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID          = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER     = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID        = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER    = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID             = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER            = O.TSMORGAN_IS_NUMBER
AND R.TSRANLPR_IS_NUMBER      = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID         = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER       = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID          = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER      = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID         = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER      = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID         = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+)   = '||""||'DESCRIPT'||""||'
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER      = RCMNT.TSRRSULT_IS_NUMBER(+)
```

```
AND R.TSRRSULT_ORG_ID                = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)  = '||""||'RSLTCMNT'||""||'
AND f.medium_type_name               <> '||""||'Biological'||""||'
and f.type_name                  <> '||""||'Data Logger'||""||'
and f.category_type_name NOT LIKE '||""||'%Habitat%'||""||'
AND R.TSRCHAR_IS_NUMBER                      = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID                 = C.TSRCHAR_ORG_ID
AND R.TSRUOM_IS_NUMBER               = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                  = RUOM.TSRUOM_ORG_ID(+)
```

PDL.sql

```
SELECT /*+ index(tsrchar ichar01) */  DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
RTRIM(T.ID_CODE) TRIP,
RTRIM(V.ID_NUMBER) VISIT,
RTRIM(F.ID_CODE) FDID,
RTRIM(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.QC_INDICATOR QC,
M.NAME SAMPLE_MATRIX,
DECODE(TO_CHAR(F.START_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.START_DATE,'||""||'
MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
RTRIM(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
RTRIM(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
RTRIM(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
RTRIM(DL.LINE_NUMBER) DL_NUM,
DL.LINE_NAME DL_NAME,
C.DISPLAY_NAME CHR,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',RDESC.description_text,null)RDESC_DESC,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text)RCMNT_DESC,
PV.FIELD_VALUE SMPL_FRAC,
RTRIM(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
RTRIM(R.STATISTIC_TYPE_NM) STAT_TYPE,
R.VALUE_STATUS VAL_STAT,
RTRIM(R.WT_BASIS_TYPE_NM) WT_BASIS,
RTRIM(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
RTRIM(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
```

```
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT
FROM
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSRDLIN    DL,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSRUOM             RUOM,
TSRUOM     UDQ,
TSRMATRX    M,
TSMPRMVL    PV,
TSMGNTXT    RDESC,
TSMGNTXT    RCMNT,
TSRANLPR                ANLPR,
TSRLSPP                         LSPP,
TSRDQL     DQL
WHERE
PS.TSMPROJ_IS_NUMBER                = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID           = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER                = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID                   = PS.TSMSTATN_ORG_ID AND
DL.TSRFDACT_IS_NUMBER               = F.TSRFDACT_IS_NUMBER
AND DL.TSRFDACT_ORG_ID              = F.TSRFDACT_ORG_ID
AND R.TSRDLIN_IS_NUMBER  = DL.TSRDLIN_IS_NUMBER
AND R.TSRDLIN_ORG_ID                = DL.TSRDLIN_ORG_ID
AND F.TSRSTVST_IS_NUMBER            = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID               = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER            = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID               = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER             = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID                = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER           = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID              = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER          = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                     = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                    = O.TSMORGAN_IS_NUMBER
AND R.TSRANLPR_IS_NUMBER            = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID               = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER             = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID                = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER            = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER            = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RDESC.TSRRSULT_ORG_ID(+)
```

```
AND RDESC.DESCRIPTION_NAME(+)    = '||""||'DESCRIPT'||""||'
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER          = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)  = '||""||'RSLTCMNT'||""||'
AND f.medium_type_name            <> '||""||'Biological'||""||'
and f.type_name                <> '||""||'Data Logger'||""||'
and f.category_type_name NOT LIKE '||""||'%Habitat%'||""||'
AND R.TSRCHAR_IS_NUMBER                    = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID              = C.TSRCHAR_ORG_ID
AND R.TSRUOM_IS_NUMBER            = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID               = RUOM.TSRUOM_ORG_ID(+)
```

Select Options: Organizations, Projects, Stations, Characteristics, Activity Dates

Sort Sequence: None

Page Break: None.

Export Contents

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
TSMSTATN	IDENTIFICATION_CD	Station ID
TSRFDACT	START_DATE	Act Start
	START_TIME	N/A
	START_TIME_ZONE	N/A
TSRTRIP	ID_CODE	Trip ID
TSRSTVST	ID_NUMBER	Vst #
TSRFDACT (cont.)	ID_CODE	Activity ID
	REPLICATE_NUMBER	Rep #
	MEDIUM_TYPE_NAME	Act Medium
TSRMATRX	NAME	Sample Matrix
TSRFDACT (cont.)	TYPE_NAME	Act Type
	CATEGORY_TYPE_NAME	Act Category
	QC_INDICATOR	QC Activity
	RELTV_DEPTH_NAME	Activity Rel Depth
	DEPTH_TO_ACTIVITY	Activity Depth
	DEPTH_TO_ACT_UN_CD	Activity Depth Unit
	UPPER_DEPTH_TO_ACT	Activity Upper Depth
	LOWER_DEPTH_TO_ACT	Activity Lower Depth
	DEPTH_MSR_UNT_CD	Upr Lwr Depth Unit
TSRDLIN	LINE_NUMBER	Line #
	LINE_NAME	Line Name
TSRCHAR	DISPLAY_NAME	Characteristic Name

Table	Attribute	Column Name
TSRRSULT	VALUE_TEXT	Res Val Text
TSRUOM	SHORT_FORM_NAME	Res Unit
TSMGNTXT	DESCRIPTION_TEXT	Text Result
TSMPRMVL	SMPL_FRAC_TYPE_NM	Sampl Frac Type
TSRRSULT (cont.)	VALUE_TYPE_NAME	Res Type
	STATISTIC_TYPE_NM	Statistic Type
TSMGNTXT (cont.)	DESCRIPTION_TEXT	Result Comment
TSRRSULT (cont.)	VALUE_STATUS	Res Stat
	WT_BASIS_TYPE_NM	Weight
	TEMP_BASIS_LVL_NM	Temp
	DUR_BASIS_TYPE_NM	Duration
TSRLSPP	SOURCE_ACR	Samp Prep Src
	PREPARATION_ID	Samp Prep ID
TSRANLPR	SOURCE_ACR	An Proc Src
	PROCEDURE_ID	An Proc ID
TSRDQL	MIN_DETECT_LIMIT	Detectn Lmt
TSRUOM (cont.)	SHORT_FORM_NAME	Detectn Lmt Unit

Export: Results Physical/Chemical Large Export

Report Description: This tilde-delimited export file report provides information regarding the results obtained for physical and chemical measurement activities including those obtained with Portable Data Loggers.

Activities without assigned Characteristics will not be shown.

Location Points are the Station's Point of Record.

Field Sets retrieve the first four occurrences found in the database, and report them concatenated together in a single column separated by commas.

Laboratory Remarks retrieve the first four occurrences found in the database, and report them concatenated together in a single column separated by commas.

Select Logic:

PhysChem.sql

```
SELECT /*+ index(tsrchar ichar01) */  DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
RTRIM(T.ID_CODE) TRIP,
RTRIM(V.ID_NUMBER) VISIT,
RTRIM(F.ID_CODE) FDID,
RTRIM(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.QC_INDICATOR QC,
M.NAME SAMPLE_MATRIX,
DECODE(TO_CHAR(F.STOP_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.STOP_DATE,'||""||'M
M/DD/YYYY'||""||')) FSTP,
DECODE(TO_CHAR(F.STOP_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.STOP_TIME,'||""||'HH24:MI:S
S'||""||')) FSTPTIME,
RTRIM(F.STOP_TIME_ZONE) FSTPZONE,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
RTRIM(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
RTRIM(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
```

```
RTRIM(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
C.DISPLAY_NAME CHR,
R.VALUE_MEASURE VAL_MEASURE,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
PV.FIELD_VALUE SMPL_FRAC,
RTRIM(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
RTRIM(R.STATISTIC_TYPE_NM) STAT_TYPE,
R.VALUE_STATUS VAL_STAT,
RTRIM(R.WT_BASIS_TYPE_NM) WT_BASIS,
RTRIM(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
RTRIM(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
rtrim(L.ID_CODE) LAB_ID,
L.NAME LAB_NAME,
rtrim(R.LAB_CERT_IND_CODE) LAB_CERT,
rtrim(R.LAB_BATCH_ID_CODE) LAB_BATCH,
DECODE(TO_CHAR(R.ANALYSIS_DATE, '||""||'MM/DD/YYYY'||""||'),
'||""||'01/01/0001'||""||', NULL, TO_CHAR(R.ANALYSIS_DATE,'||""||
'MM/DD/YYYY'||""||')) ADATE,
DECODE(TO_CHAR(R.ANALYSIS_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(R.ANALYSIS_TIME,'||""||'HH24
:MI:SS'||""||')) ATIME,
rtrim(R.ANALYSIS_TIME_ZONE) AZONE,
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID) LBRMK_NAME,
fldset(F.TSRFDACT_IS_NUMBER,F.TSRFDACT_ORG_ID) FLDSET_ID,
rtrim(DQL.MIN_QUANT_LIMIT) MIN_LIMIT,
rtrim(DQL.MAX_QUANT_LIMIT) MAX_LIMIT,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
DQL.DESCRIPTION_TEXT DQL_DESC
FROM
TSRCHAR          C,
TSRRSULT         R,
TSRFDACT         F,
TSMORGAN         O,
TSMPSA                PS,
TSMPROJ               J,
TSMSTATN         S,
TSRTRIP               T,
TSRSTVST         V,
TSRTSA                TSA,
TSRUOM      RUOM,
TSRUOM  UDQ,
TSRMATRX  M,
TSMPRMVL  PV,
TSMGNTXT  RCMNT,
TSRANLPR         ANLPR,
TSRLSPP               LSPP,
TSRLAB  L,
```

```
TSRDQL     DQL
WHERE
PS.TSMPROJ_IS_NUMBER                = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID           = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER                = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID                   = PS.TSMSTATN_ORG_ID AND
R.TSRFDACT_IS_NUMBER                = F.TSRFDACT_IS_NUMBER
AND R.TSRFDACT_ORG_ID               = F.TSRFDACT_ORG_ID
AND F.TSRSTVST_IS_NUMBER            = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID               = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER            = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID               = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER             = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID                = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER           = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID              = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER          = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                     = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                    = O.TSMORGAN_IS_NUMBER
AND R.TSRANLPR_IS_NUMBER            = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID               = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER             = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID                = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER              = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID                 = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER            = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER            = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)  = '||""||'RSLTCMNT'||""||'
AND f.medium_type_name                      <> '||""||'Biological'||""||'
and f.type_name                     <> '||""||'Data Logger'||""||'
and f.category_type_name NOT LIKE '||""||'%Habitat%'||""||'
AND R.TSRCHAR_IS_NUMBER                     = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID                = C.TSRCHAR_ORG_ID
AND R.TSRUOM_IS_NUMBER              = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                 = RUOM.TSRUOM_ORG_ID(+)
```

PDL.sql

```
SELECT /*+ index(tsrchar ichar01) */  DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
```

```
RTRIM(T.ID_CODE) TRIP,
RTRIM(V.ID_NUMBER) VISIT,
RTRIM(F.ID_CODE) FDID,
RTRIM(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.QC_INDICATOR QC,
M.NAME SAMPLE_MATRIX,
DECODE(TO_CHAR(F.STOP_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.STOP_DATE,'||""||'M
M/DD/YYYY'||""||')) FSTP,
DECODE(TO_CHAR(F.STOP_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.STOP_TIME,'||""||'HH24:MI:S
S'||""||')) FSTPTIME,
RTRIM(F.STOP_TIME_ZONE) FSTPZONE,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
RTRIM(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
RTRIM(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
RTRIM(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
RTRIM(DL.LINE_NUMBER) DL_NUM,
DL.LINE_NAME DL_NAME,
C.DISPLAY_NAME CHR,
R.VALUE_MEASURE VAL_MEASURE,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
PV.FIELD_VALUE SMPL_FRAC,
RTRIM(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
RTRIM(R.STATISTIC_TYPE_NM) STAT_TYPE,
R.VALUE_STATUS VAL_STAT,
RTRIM(R.WT_BASIS_TYPE_NM) WT_BASIS,
RTRIM(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
RTRIM(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
rtrim(L.ID_CODE) LAB_ID,
L.NAME LAB_NAME,
rtrim(R.LAB_CERT_IND_CODE) LAB_CERT,
rtrim(R.LAB_BATCH_ID_CODE) LAB_BATCH,
DECODE(TO_CHAR(R.ANALYSIS_DATE, '||""||'MM/DD/YYYY'||""||'),
'||""||'01/01/0001'||""||', NULL, TO_CHAR(R.ANALYSIS_DATE,'||""||
'MM/DD/YYYY'||""||')) ADATE,
DECODE(TO_CHAR(R.ANALYSIS_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(R.ANALYSIS_TIME,'||""||'HH24
:MI:SS'||""||')) ATIME,
rtrim(R.ANALYSIS_TIME_ZONE) AZONE,
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID) LBRMK_NAME,
fldset(F.TSRFDACT_IS_NUMBER,F.TSRFDACT_ORG_ID) FLDSET_ID,
rtrim(DQL.MIN_QUANT_LIMIT) MIN_LIMIT,
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```
rtrim(DQL.MAX_QUANT_LIMIT) MAX_LIMIT,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
DQL.DESCRIPTION_TEXT DQL_DESC
FROM
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSRDLIN    DL,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSRUOM          RUOM,
TSRUOM     UDQ,
TSRMATRX   M,
TSMPRMVL   PV,
TSMGNTXT   RCMNT,
TSRANLPR                ANLPR,
TSRLSPP                         LSPP,
TSRLAB     L,
TSRDQL     DQL
WHERE
PS.TSMPROJ_IS_NUMBER            = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID          = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER            = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID               = PS.TSMSTATN_ORG_ID AND
DL.TSRFDACT_IS_NUMBER           = F.TSRFDACT_IS_NUMBER
AND DL.TSRFDACT_ORG_ID          = F.TSRFDACT_ORG_ID
AND R.TSRDLIN_IS_NUMBER  = DL.TSRDLIN_IS_NUMBER
AND R.TSRDLIN_ORG_ID            = DL.TSRDLIN_ORG_ID
AND F.TSRSTVST_IS_NUMBER        = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID           = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER        = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID           = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER         = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID            = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER       = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID          = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER      = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                 = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                = O.TSMORGAN_IS_NUMBER
AND R.TSRANLPR_IS_NUMBER        = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID           = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER         = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID            = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER          = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID             = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER        = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
```

```
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER          = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)  = '||""||'RSLTCMNT'||""||'
AND f.medium_type_name            <> '||""||'Biological'||""||'
and f.type_name                <> '||""||'Data Logger'||""||'
and f.category_type_name NOT LIKE '||""||'%Habitat%'||""||'
AND R.TSRCHAR_IS_NUMBER                 = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID              = C.TSRCHAR_ORG_ID
AND R.TSRUOM_IS_NUMBER            = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID               = RUOM.TSRUOM_ORG_ID(+)
```

Select Options: Organizations, Projects, Stations, Characteristics, Activity Dates

Sort Sequence: None

Page Break: None.

Export Contents

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
	NAME	Org Name
TSMSTATN	IDENTIFICATION_CD	Station ID
	NAME	Station Name
TSRFDACT	START_DATE	Act Start
	START_TIME	N/A
	START_TIME_ZONE	N/A
TSRTRIP	ID_CODE	Trip ID
TSRSTVST	ID_NUMBER	Vst #
TSRFDACT (cont.)	ID_CODE	Activity ID
	REPLICATE_NUMBER	Rep #
	MEDIUM_TYPE_NAME	Act Medium
TSRMATRX	NAME	Sample Matrix
TSRFDACT (cont.)	TYPE_NAME	Act Type
	CATEGORY_TYPE_NAME	Act Category
	QC_INDICATOR	QC Activity
	STOP_DATE	Act Stop
	STOP_TIME	N/A
	STOP_TIME_ZONE	N/A
	RELTV_DEPTH_NAME	Activity Rel Depth
	DEPTH_TO_ACTIVITY	Activity Depth
	DEPTH_TO_ACT_UN_CD	Activity Depth Unit

Table	Attribute	Column Name
	UPPER_DEPTH_TO_ACT	Activity Upper Depth
	LOWER_DEPTH_TO_ACT	Activity Lower Depth
	DEPTH_MSR_UNT_CD	Upr Lwr Depth Unit
TSRFDSET	ID_CODE	Field Sets
TSRDLIN	LINE_NUMBER	Line #
	LINE_NAME	Line Name
TSRCHAR	DISPLAY_NAME	Characteristic Name
TSRRSULT	VALUE_TEXT	Res Val Text
	VALUE_MEASURE	Res Val
TSRUOM	SHORT_FORM_NAME	Res Unit
TSMPRMVL	SMPL_FRAC_TYPE_NM	Sampl Frac Type
TSRRSULT (cont.)	VALUE_TYPE_NAME	Res Type
	STATISTIC_TYPE_NM	Statistic Type
TSMGNTXT	DESCRIPTION_TEXT	Result Comment
TSRRSULT (cont.)	VALUE_STATUS	Res Stat
	WT_BASIS_TYPE_NM	Weight
	TEMP_BASIS_LVL_NM	Temp
	DUR_BASIS_TYPE_NM	Duration
TSRLSPP	SOURCE_ACR	Samp Prep Src
	PREPARATION_ID	Samp Prep ID
TSRANLPR	SOURCE_ACR	An Proc Src
	PROCEDURE_ID	An Proc ID
TSRLAB	ID_CODE	Lab ID
	NAME	Lab Name
TSRRSULT (cont.)	LAB_CERT_IND_CODE	Crt
	LAB_BATCH_ID_CODE	Lab Batch ID
	ANALYSIS_DATE	Anal Date
	ANALYSIS_TIME	N/A
	ANALYSIS_TIME_ZONE	N/A
TSRDQL	MIN_QUANT_LIMIT	Lwr Quan Lmt
	MAX_QUANT_LIMIT	Upr Quan Lmt
	MIN_DETECT_LIMIT	Detectn Lmt
TSRUOM (cont.)	SHORT_FORM_NAME	Detectn Lmt Unit
TSRDQL (cont.)	DESCRIPTION_TEXT	Detection Lmt Desc
TSRLBRMK	SHORT_NAME	Lab Remarks

Export: Results Physical/Chemical Giant Export

Report Description: This tilde-delimited export file report provides information regarding the results obtained for physical and chemical measurement activities including those obtained with Portable Data Loggers.

Activities without assigned Characteristics will not be shown.

Location Points are the Station's Point of Record.

Field Sets retrieves the first four assigned to each activity, and reports them concatenated together in a single column separated by commas.

Laboratory Remarks retrieves the first four assigned to each result, and reports them concatenated together in a single column separated by commas.

Select Logic:

PhysChem.sql

```
SELECT /*+ index(tsrchar ichar01) */  DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
RTRIM(T.ID_CODE) TRIP,
RTRIM(V.ID_NUMBER) VISIT,
RTRIM(F.ID_CODE) FDID,
RTRIM(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
M.NAME SAMPLE_MATRIX,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.QC_INDICATOR QC,
A.POINT_NAME,
TO_CHAR(A.LAT_DEC_DEG_MSR,'||""||'99.9999999'||""||') LATITUDE,
TO_CHAR(A.LONG_DEC_DEG_MSR,'||""||'999.9999999'||""||') LONGITUDE,
MAD_HD.DESCRIPTION HD_DESC,
MAD_HM.DESCRIPTION HM_DESC,
DECODE(TO_CHAR(F.STOP_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.STOP_DATE,'||""||'M
M/DD/YYYY'||""||')) FSTP,
DECODE(TO_CHAR(F.STOP_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.STOP_TIME,'||""||'HH24:MI:S
S'||""||')) FSTPTIME,
RTRIM(F.STOP_TIME_ZONE) FSTPZONE,
```

```
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
RTRIM(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
RTRIM(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
RTRIM(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
C.DISPLAY_NAME CHR,
R.VALUE_MEASURE VAL_MEASURE,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',RDESC.description_text,null)RDESC_DESC,
PV.FIELD_VALUE SMPL_FRAC,
RTRIM(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
RTRIM(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text)RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
RTRIM(R.WT_BASIS_TYPE_NM) WT_BASIS,
RTRIM(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
RTRIM(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
LSPP.NAME LSPPNAME,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
ANLPR.NAME ANAME,
PROCEX.DESCRIPTION_TEXT PDESC,
rtrim(L.ID_CODE) LAB_ID,
L.NAME LAB_NAME,
R.LAB_CERT_IND_CODE LAB_CERT,
rtrim(R.LAB_BATCH_ID_CODE) LAB_BATCH,
DECODE(TO_CHAR(R.ANALYSIS_DATE, '||""||'MM/DD/YYYY'||""||'),
'||""||'01/01/0001'||""||', NULL, TO_CHAR(R.ANALYSIS_DATE,'||""||
'MM/DD/YYYY'||""||')) ADATE,
DECODE(TO_CHAR(R.ANALYSIS_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(R.ANALYSIS_TIME,'||""||'HH24
:MI:SS'||""||')) ATIME,
rtrim(R.ANALYSIS_TIME_ZONE) AZONE,
rtrim(DQL.MIN_QUANT_LIMIT) MIN_LIMIT,
rtrim(DQL.MAX_QUANT_LIMIT) MAX_LIMIT,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
DQL.DESCRIPTION_TEXT DQL_DESC,
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID) LBRMK_NAME,
fldset(F.TSRFDACT_IS_NUMBER,F.TSRFDACT_ORG_ID) FLDSET_ID,
rtrim(R.REF_PT_FROM_NAME) REF_FROM,
rtrim(R.REF_PT_TO_NAME) REF_TO,
rtrim(RCI.PARTICLE_SIZE_BASIS) PART_BASIS,
rtrim(R.REPL_ANALYSIS_NUM) REPL_NUM,
rtrim(R.PRECISION_AMT_TEXT) PRECISION,
RTRIM(R.CONF_LVL_PCT_MSR) CONF_MSR,
R.CONF_LVL_CORR_BIAS CORR_BIAS,
RTRIM(R.BIAS) BIAS,
R.DILUTION_IND_CODE DIL_CD,
R.RECOVERY_IND_CODE REC_CD,
```

```
R.CORRECTION_IND_CD CORR_CD
FROM
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSRUOM          RUOM,
TSRRCI    RCI,
TSRMATRX   M,
TSRUOM    UDQ,
TSMPRMVL   PV,
TSMGNTXT   RDESC,
TSMGNTXT   RCMNT,
TSMGNTXT   PROCEX,
TSRANLPR                ANLPR,
TSRLSPP                         LSPP,
TSRLAB    L,
TSRDQL    DQL,
TSMALP    A,
TSMMAD    MAD_HD,
TSMMAD    MAD_HM
WHERE
PS.TSMPROJ_IS_NUMBER            = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID         = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER            = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID               = PS.TSMSTATN_ORG_ID AND
R.TSRFDACT_IS_NUMBER            = F.TSRFDACT_IS_NUMBER
AND R.TSRFDACT_ORG_ID           = F.TSRFDACT_ORG_ID
AND F.TSRSTVST_IS_NUMBER        = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID           = V.TSRSTVST_ORG_ID
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND V.TSMSTATN_IS_NUMBER        = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID           = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER         = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID            = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER       = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID          = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER      = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                 = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                = O.TSMORGAN_IS_NUMBER
AND R.TSRANLPR_IS_NUMBER        = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID           = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER         = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID            = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER          = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID             = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER        = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = DQL.TSRRSULT_ORG_ID(+)
```

```
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER          = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+)     = '||""||'DESCRIPT'||""||'
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER          = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)  = '||""||'RSLTCMNT'||""||'
AND R.TSRRSULT_IS_NUMBER          = PROCEX.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = PROCEX.TSRRSULT_ORG_ID(+)
AND PROCEX.DESCRIPTION_NAME(+)          = '||""||'PROCEXCP'||""||'
AND f.medium_type_name            <> '||""||'Biological'||""||'
and f.type_name                <> '||""||'Data Logger'||""||'
and f.category_type_name NOT LIKE '||""||'%Habitat%'||""||'
AND S.TSMSTATN_IS_NUMBER          = A.TSMSTATN0IS_NUMBER
AND S.TSMSTATN_ORG_ID             = A.TSMSTATN0ORG_ID
AND A.TYPE_CODE = '||""||'*POINT OF RECORD'||""||'
AND A.GEOPSTNG_DATUM_CD           = MAD_HD.id_code(+)
AND MAD_HD.category(+)         = '||""||'HORIZONTAL'||""||'
AND MAD_HD.subcategory(+)      = '||""||'DATUM'||""||'
AND MAD_HM.category(+)            = '||""||'HORIZONTAL'||""||'
AND MAD_HM.subcategory(+)      = '||""||'METHOD'||""||'
AND A.GEOPSTNG_METHOD_CD          = MAD_HM.id_code(+)
AND R.TSRCHAR_IS_NUMBER                 = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID              = C.TSRCHAR_ORG_ID
AND R.TSRUOM_IS_NUMBER            = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID               = RUOM.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = RCI.TSRRSULT_ORG_ID(+)
```

PDL.sql

```
SELECT /*+ index(tsrchar ichar01) */  DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
RTRIM(T.ID_CODE) TRIP,
RTRIM(V.ID_NUMBER) VISIT,
RTRIM(F.ID_CODE) FDID,
RTRIM(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
M.NAME SAMPLE_MATRIX,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.QC_INDICATOR QC,
A.POINT_NAME,
TO_CHAR(A.LAT_DEC_DEG_MSR,'||""||'99.9999999'||""||') LATITUDE,
```

```
TO_CHAR(A.LONG_DEC_DEG_MSR,'||""||'999.9999999'||""||') LONGITUDE,
MAD_HD.DESCRIPTION HD_DESC,
MAD_HM.DESCRIPTION HM_DESC,
DECODE(TO_CHAR(F.STOP_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.STOP_DATE,'||""||'M
M/DD/YYYY'||""||')) FSTP,
DECODE(TO_CHAR(F.STOP_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.STOP_TIME,'||""||'HH24:MI:S
S'||""||')) FSTPTIME,
RTRIM(F.STOP_TIME_ZONE) FSTPZONE,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
RTRIM(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
RTRIM(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
RTRIM(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
RTRIM(DL.LINE_NUMBER) DL_NUM,
DL.LINE_NAME DL_NAME,
C.DISPLAY_NAME CHR,
R.VALUE_MEASURE VAL_MEASURE,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',RDESC.description_text,null)RDESC_DESC,
PV.FIELD_VALUE SMPL_FRAC,
RTRIM(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
RTRIM(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text)RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
RTRIM(R.WT_BASIS_TYPE_NM) WT_BASIS,
RTRIM(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
RTRIM(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
LSPP.NAME LSPPNAME,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
ANLPR.NAME ANAME,
PROCEX.DESCRIPTION_TEXT PDESC,
rtrim(L.ID_CODE) LAB_ID,
L.NAME LAB_NAME,
R.LAB_CERT_IND_CODE LAB_CERT,
rtrim(R.LAB_BATCH_ID_CODE) LAB_BATCH,
DECODE(TO_CHAR(R.ANALYSIS_DATE, '||""||'MM/DD/YYYY'||""||'),
'||""||'01/01/0001'||""||', NULL, TO_CHAR(R.ANALYSIS_DATE,'||""||
'MM/DD/YYYY'||""||')) ADATE,
DECODE(TO_CHAR(R.ANALYSIS_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(R.ANALYSIS_TIME,'||""||'HH24
:MI:SS'||""||')) ATIME,
rtrim(R.ANALYSIS_TIME_ZONE) AZONE,
rtrim(DQL.MIN_QUANT_LIMIT) MIN_LIMIT,
rtrim(DQL.MAX_QUANT_LIMIT) MAX_LIMIT,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
DQL.DESCRIPTION_TEXT DQL_DESC,
```

```
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID) LBRMK_NAME,
fldset(F.TSRFDACT_IS_NUMBER,F.TSRFDACT_ORG_ID) FLDSET_ID,
rtrim(R.REF_PT_FROM_NAME) REF_FROM,
rtrim(R.REF_PT_TO_NAME) REF_TO,
rtrim(RCI.PARTICLE_SIZE_BASIS) PART_BASIS,
rtrim(R.REPL_ANALYSIS_NUM) REPL_NUM,
rtrim(R.PRECISION_AMT_TEXT) PRECISION,
RTRIM(R.CONF_LVL_PCT_MSR) CONF_MSR,
R.CONF_LVL_CORR_BIAS CORR_BIAS,
RTRIM(R.BIAS) BIAS,
R.DILUTION_IND_CODE DIL_CD,
R.RECOVERY_IND_CODE REC_CD,
R.CORRECTION_IND_CD CORR_CD
FROM
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSRDLIN    DL,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSRUOM             RUOM,
TSRRCI     RCI,
TSRMATRX    M,
TSRUOM     UDQ,
TSMPRMVL    PV,
TSMGNTXT    RDESC,
TSMGNTXT    RCMNT,
TSMGNTXT    PROCEX,
TSRANLPR                ANLPR,
TSRLSPP                         LSPP,
TSRLAB     L,
TSRDQL     DQL,
TSMALP     A,
TSMMAD     MAD_HD,
TSMMAD     MAD_HM
WHERE
PS.TSMPROJ_IS_NUMBER            = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID          = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER            = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID               = PS.TSMSTATN_ORG_ID AND
DL.TSRFDACT_IS_NUMBER           = F.TSRFDACT_IS_NUMBER
AND DL.TSRFDACT_ORG_ID          = F.TSRFDACT_ORG_ID
AND R.TSRDLIN_IS_NUMBER  = DL.TSRDLIN_IS_NUMBER
AND R.TSRDLIN_ORG_ID            = DL.TSRDLIN_ORG_ID
AND F.TSRSTVST_IS_NUMBER        = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID           = V.TSRSTVST_ORG_ID
AND F.TSRMATRX_IS_NUMBER = M.TSRMATRX_IS_NUMBER(+)
AND V.TSMSTATN_IS_NUMBER        = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID           = TSA.TSMSTATN_ORG_ID
```

```
AND V.TSRTRIP_IS_NUMBER             = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID                = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER           = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID              = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER          = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                     = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                    = O.TSMORGAN_IS_NUMBER
AND R.TSRANLPR_IS_NUMBER            = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID               = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER             = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID                = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER              = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID                 = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER            = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER            = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+)   = '||""||'DESCRIPT'||""||'
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER            = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)  = '||""||'RSLTCMNT'||""||'
AND R.TSRRSULT_IS_NUMBER            = PROCEX.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = PROCEX.TSRRSULT_ORG_ID(+)
AND PROCEX.DESCRIPTION_NAME(+)              = '||""||'PROCEXCP'||""||'
AND f.medium_type_name                  <> '||""||'Biological'||""||'
and f.type_name                 <> '||""||'Data Logger'||""||'
and f.category_type_name NOT LIKE '||""||'%Habitat%'||""||'
AND S.TSMSTATN_IS_NUMBER            = A.TSMSTATN0IS_NUMBER
AND S.TSMSTATN_ORG_ID               = A.TSMSTATN0ORG_ID
AND A.TYPE_CODE = '||""||'*POINT OF RECORD'||""||'
AND A.GEOPSTNG_DATUM_CD             = MAD_HD.id_code(+)
AND MAD_HD.category(+)          = '||""||'HORIZONTAL'||""||'
AND MAD_HD.subcategory(+)       = '||""||'DATUM'||""||'
AND MAD_HM.category(+)                  = '||""||'HORIZONTAL'||""||'
AND MAD_HM.subcategory(+)       = '||""||'METHOD'||""||'
AND A.GEOPSTNG_METHOD_CD            = MAD_HM.id_code(+)
AND R.TSRCHAR_IS_NUMBER                     = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID                = C.TSRCHAR_ORG_ID
AND R.TSRUOM_IS_NUMBER              = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                 = RUOM.TSRUOM_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID = RCI.TSRRSULT_ORG_ID(+)
```

Select Options: Organizations, Projects, Stations, Characteristics, Location Area, Activity Dates

Sort Sequence: None

Page Break: None.

Export Contents

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
	NAME	Org Name
TSMSTATN	IDENTIFICATION_CD	Station ID
	NAME	Station Name
TSRFDACT	START_DATE	Act Start
	START_TIME	N/A
	START_TIME_ZONE	N/A
TSRTRIP	ID_CODE	Trip ID
TSRSTVST	ID_NUMBER	Vst #
TSRFDACT (cont.)	ID_CODE	Activity ID
	REPLICATE_NUMBER	Rep #
	MEDIUM_TYPE_NAME	Act Medium
TSRMATRX	NAME	Sample Matrix
TSRFDACT (cont.)	TYPE_NAME	Act Type
	CATEGORY_TYPE_NAME	Act Category
	QC_INDICATOR	QC Activity
TSMALP	POINT_NAME	Point Name
	LAT_DIRECTION GPS_LAT_DEGREE_MSR GPS_LATMINUTE_MSR w/ translation	Latitude
	LONG_DIRECTION GPS_LONG_DEG_MSR GPS_LONG_MIN_MSR w/ translation	Longitude
TSMMAD	DESCRIPTION	Horizontal Datum
		Geopositioning Method
TSRFDACT (cont.)	STOP_DATE	Act Stop
	STOP_TIME	N/A
	STOP_TIME_ZONE	N/A
	RELTV_DEPTH_NAME	Activity Rel Depth
	DEPTH_TO_ACTIVITY	Activity Depth
	DEPTH_TO_ACT_UN_CD	Activity Depth Unit
	UPPER_DEPTH_TO_ACT	Activity Upper Depth
	LOWER_DEPTH_TO_ACT	Activity Lower Depth
	DEPTH_MSR_UNT_CD	Upr Lwr Depth Unit
TSRFDSET	ID_CODE	Field Sets
TSRDLIN	LINE_NUMBER	Line #
	LINE_NAME	Line Name
TSRCHAR	DISPLAY_NAME	Characteristic Name

Table	Attribute	Column Name
TSRRSULT	VALUE_TEXT	Res Val Text
	VALUE_MEASURE	Res Val
TSRUOM	SHORT_FORM_NAME	Res Unit
TSMGNTXT	DESCRIPTION_TEXT	Text Result
TSMPRMVL	SMPL_FRAC_TYPE_NM	Sampl Frac Type
TSRRSULT (cont.)	VALUE_TYPE_NAME	Res Type
	STATISTIC_TYPE_NM	Statistic Type
TSMGNTXT (cont.)	DESCRIPTION_TEXT	Result Comment
TSRRSULT (cont.)	VALUE_STATUS	Res Stat
	WT_BASIS_TYPE_NM	Weight
	TEMP_BASIS_LVL_NM	Temp
	DUR_BASIS_TYPE_NM	Duration
TSRLSPP	SOURCE_ACR	Samp Prep Src
	PREPARATION_ID	Samp Prep ID
	NAME	Samp Prep Name
TSRANLPR	SOURCE_ACR	An Proc Src
	PROCEDURE_ID	An Proc ID
	NAME	An Proc Name
TSMGNTXT (cont.)	DESCRIPTION	Anal Proc Exception
TSRLAB	ID_CODE	Lab ID
	NAME	Lab Name
TSRRSULT (cont.)	LAB_CERT_IND_CODE	Crt
	LAB_BATCH_ID_CODE	Lab Batch ID
	ANALYSIS_DATE	Anal Date
	ANALYSIS_TIME	N/A
	ANALYSIS_TIME_ZONE	N/A
TSRDQL	MIN_QUANT_LIMIT	Lwr Quan Lmt
	MAX_QUANT_LIMIT	Upr Quan Lmt
	MIN_DETECT_LIMIT	Detectn Lmt
TSRUOM (cont.)	SHORT_FORM_NAME	Detectn Lmt Unit
TSRDQL (cont.)	DESCRIPTION_TEXT	Detection Lmt Desc
TSRLBRMK	SHORT_NAME	Lab Remarks
TSRRSULT (cont.)	REF_PT_FROM_NAME	Dist Meas From
	REF_PT_TO_NAME	Dist Meas To
TSRRCI	PARTICLE_SIZE_BASIS	Particle Size
TSRRSULT (cont.)	REPL_ANALYSIS_NUM	Repl Ct
	PRECISION_AMT_TEXT	Precision
	CONF_LVL_PCT_MSR	Conf Level (CL)
	CONF_LVL_CORR_BIAS	CL Corrected for Bias
	BIAS	Bias

Table	Attribute	Column Name
	DILUTION_IND_CODE	Dilution Ind
	RECOVERY_IND_CODE	Recovery Ind
	CORRECTION_IND_CD	Correction Ind

Export: Results Biological Small Export

Report Description: This tilde-delimited export file report provides information regarding results obtained for biological activities including Taxon Abundance result groups (i.e., Multi-Taxon Population Census, Single Taxon Group Summary, Single Taxon Frequency Class, Single Taxon Individual), Individual results, and Tissue results.

Activities without assigned Characteristics will not be shown.

Location Points are the Station's Point of Record.

Select Logic:

BioResultGroups.sql

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.COMMUNITY_NAME COMM_NAME,
F.QC_INDICATOR QC,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
(DECODE(BRG.TYPE_INDICATOR,'||""||'B'||""||',RCI.PRIM_CLASS_DESC||'||""||'
'||""||'||RCI.SEC_CLASS_DESC,'||""||'P'||""||',C.DISPLAY_NAME||'||""||'
'||""||'||RCI.LOWER_BND_AMT||'||""||' -> '||""||
'||RCI.UPPER_BND_AMT||'||""||'
'||""||'||RTRIM(RCIUOM.SHORT_FORM_NAME),C.DISPLAY_NAME||'||""||'
'||""||'||R.SPECIES_NUMBER)) CHR,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
(DECODE(BRG.TYPE_INDICATOR,'||""||'B'||""||','||""||'count'||""||',RTRIM(RUOM.SHORT
_FORM_NAME))) UOM,
RTRIM(BRG.ID_CODE) BRG_CODE,
BRG.TYPE_NAME BRG_NAME,
(f_char_name(nvl(brg.tsrchar_is_number,null),nvl(brg.tsrchar_org_id,null))||'||""||'
'||""||'||BRG.SPECIES_NUMBER) BIOCHAR_NAME,
RTRIM(BRG.TYPE_INDICATOR) BRG_TYPE,
BRG.DESCRIPTION_TEXT BRG_DESC,
RTRIM(BRG.SEX_NAME) SEX,
RTRIM(BRG.LIFE_STAGE_NAME) STAGE_NAME,
RTRIM(BRGI.INDIVIDUAL_NUMBER) INV_NUM,
```

```
(DECODE(brg.type_indicator,'||""||'P'||""||',f_char_name(nvl(r.tsrchar_is_number,null),nvl(
r.tsrchar_org_id,null)),'||""||'B'||""||',||""||' '||""||')) COMM_CLASS_DESC,
RTRIM(RCI.PRIM_CLASS_DESC) PRIM_DESC,
RTRIM(RCI.SEC_CLASS_DESC) SEC_DESC,
RTRIM(RCI.LOWER_BND_AMT) LOWER_AMT,
RTRIM(RCI.UPPER_BND_AMT) UPPER_AMT,
RTRIM(RCIUOM.SHORT_FORM_NAME) UOM_NAME,
RTRIM(BRG.SUMMARY_GRP_COUNT) GRP_COUNT
FROM
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSRBRG     BRG,
TSRBRGI    BRGI,
TSRRCI     RCI,
TSRUOM     RCIUOM,
TSRUOM             RUOM
WHERE
PS.TSMPROJ_IS_NUMBER            = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID           = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER                = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID                   = PS.TSMSTATN_ORG_ID
AND F.TSRSTVST_IS_NUMBER            = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID               = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER            = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID               = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER             = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID                = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER           = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID              = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER          = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                     = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                    = O.TSMORGAN_IS_NUMBER
AND ((BRG.TSRBRG_IS_NUMBER          = R.TSRBRG_IS_NUMBER
AND BRG.TSRBRG_ORG_ID               = R.TSRBRG_ORG_ID
AND BRG.TYPE_NAME                   <> '||""||'Single Taxon Individuals'||""||')
OR (R.TSRBRGI_IS_NUMBER             = BRGI.TSRBRGI_IS_NUMBER
AND R.TSRBRGI_ORG_ID                = BRGI.TSRBRGI_ORG_ID
AND BRG.TYPE_NAME                   = '||""||'Single Taxon Individuals'||""||'))
AND BRG.TSRFDACT_IS_NUMBER          = F.TSRFDACT_IS_NUMBER
AND BRG.TSRFDACT_ORG_ID                     = F.TSRFDACT_ORG_ID
AND BRG.TSRBRG_IS_NUMBER            = BRGI.TSRBRG_IS_NUMBER(+)
AND BRG.TSRBRG_ORG_ID               = BRGI.TSRBRG_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER            = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RCI.TSRRSULT_ORG_ID(+)
AND RCI.TSRUOM_IS_NUMBER            = RCIUOM.TSRUOM_IS_NUMBER(+)
AND RCI.TSRUOM_ORG_ID               = RCIUOM.TSRUOM_ORG_ID(+)
```

```
AND R.TSRCHAR_IS_NUMBER                 = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID            = C.TSRCHAR_ORG_ID
AND R.TSRUOM_IS_NUMBER          = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID             = RUOM.TSRUOM_ORG_ID(+)
```

BioResults.sql

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.QC_INDICATOR QC,
(f_char_name(nvl(F.tsrchar_is_number,null),nvl(F.tsrchar_org_id,null))||'||""||'
'||""||'||F.SPECIES_NUMBER) SBJTXN_NAME,
RTRIM(BIOPT.NAME) BIOPT_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
(C.DISPLAY_NAME||'||""||' '||""||'||R.SPECIES_NUMBER) CHR,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
PV.FIELD_VALUE SMPL_FRAC
FROM
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSMPRMVL    PV,
TSRBIOPT    BIOPT,
TSRUOM              RUOM
WHERE
PS.TSMPROJ_IS_NUMBER                    = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID               = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER                    = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID                       = PS.TSMSTATN_ORG_ID
AND F.TSRSTVST_IS_NUMBER        = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID           = V.TSRSTVST_ORG_ID
```

```
AND V.TSMSTATN_IS_NUMBER        = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID           = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER         = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID            = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER       = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID          = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER      = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                 = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                = O.TSMORGAN_IS_NUMBER
AND R.TSRFDACT_IS_NUMBER        = F.TSRFDACT_IS_NUMBER
AND R.TSRFDACT_ORG_ID           = F.TSRFDACT_ORG_ID
AND F.medium_type_name          = '||""||'Biological'||""||'
AND R.TSRCHAR_IS_NUMBER                 = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID            = C.TSRCHAR_ORG_ID
AND F.TSRBIOPT_IS_NUMBER        = BIOPT.TSRBIOPT_IS_NUMBER(+)
AND F.TSRBIOPT_ORG_ID           = BIOPT.TSRBIOPT_ORG_ID(+)
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRUOM_IS_NUMBER          = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID             = RUOM.TSRUOM_ORG_ID(+)
```

Select Options: Organizations, Projects, Stations, Characteristics, Activity Dates

Sort Sequence: None

Page Break: None.

Export Contents

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
	NAME	Org Name
TSMSTATN	IDENTIFICATION_CD	Station ID
	NAME	Station Name
TSRFDACT	START_DATE	Act Start
	START_TIME	N/A
	START_TIME_ZONE	N/A
	ID_CODE	Activity ID
	REPLICATE_NUMBER	Rep #
	MEDIUM_TYPE_NAME	Act Medium
	TYPE_NAME	Act Type
	CATEGORY_TYPE_NAME	Act Category
	INTENT_TYPE_NAME	Act Intent
	COMMUNITY_NAME	Act Community
	QC_INDICATOR	QC Activity
TSRCHAR TSRFDACT (cont.)	DISPLAY_NAME SPECIES_NUMBER	Act Subj Taxon (concatenated with taxon)
TSRBIOPT	NAME	Biopart Name

Table	Attribute	Column Name
TSRFDACT (cont.)	DEPTH_TO_ACTIVITY	Activity Depth
	DEPTH_TO_ACT_UN_CD	Activity Depth Unit
TSRCHAR (cont.)	DISPLAY_NAME	Characteristic Name
TSRRSULT	SPECIES_NUMBER	(concatenated with taxon)
	VALUE_TEXT	Res Val Text
TSRUOM	SHORT_FORM_NAME	Res Unit
TSMPRMVL	SMPL_FRAC_TYPE_NM	Sampl Frac Type
TSRBRG	ID_CODE	BRG ID
	TYPE_NAME	Bio Group Type
TSRCHAR (cont.)	DISPLAY_NAME	Bio Group Subj Txn
TSRBRG (cont.)	SPECIES_NUMBER	(concatenated with taxon)
	TYPE_INDICATOR	P/B
	DESCRIPTION_TEXT	Bio Group Description
TSRCPV	SHORT_NAME	Group Desc Sex
	SHORT_NAME	Group Desc Lifestage
TSRBRGI	INDIVIDUAL_NUMBER	Ind #
TSRCHAR (cont.)	DISPLAY_NAME	Common Class Desc
TSRRCI	PRIM_CLASS_DESC	Pri Cls Desc
	SEC_CLASS_DESC	Sec Cls Desc
	LOWER_BND_AMT	Lwr Bnd Amt
	UPPER_BND_AMT	Upr Bnd Amt
TSRUOM (cont.)	SHORT_FORM_NAME	Bio RCI Unit
TSRBRG (cont.)	SUMMARY_GRP_COUNT	# Grp

Export: Results Biological Medium Export

Report Description: This tilde-delimited export file report provides information regarding results obtained for biological activities including Taxon Abundance result groups (i.e., Multi-Taxon Population Census, Single Taxon Group Summary, Single Taxon Frequency Class, Single Taxon Individual), Individual results, and Tissue results.

Activities without assigned Characteristics will not be shown.

Location Points are the Station's Point of Record.

Select Logic: **MTPC/STGS/STFC.sql**

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(T.ID_CODE) TRIP,
rtrim(V.ID_NUMBER) VISIT,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.COMMUNITY_NAME COMM_NAME,
F.QC_INDICATOR QC,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
rtrim(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
rtrim(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
rtrim(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
(DECODE(BRG.TYPE_INDICATOR,'||""||'B'||""||',RCI.PRIM_CLASS_DESC||'||""||'
'||""||'||RCI.SEC_CLASS_DESC,'||""||'P'||""||',C.DISPLAY_NAME||'||""||'
'||""||'||RCI.LOWER_BND_AMT||'||""||' -> '||""||
'||RCI.UPPER_BND_AMT||'||""||'
'||""||'||RTRIM(RCIUOM.SHORT_FORM_NAME),C.DISPLAY_NAME||'||""||'
'||""||'||R.SPECIES_NUMBER)) CHR,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
(DECODE(BRG.TYPE_INDICATOR,'||""||'B'||""||',','||""||'count'||""||',RTRIM(RUOM.SHORT
_FORM_NAME))) UOM,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',RDESC.description_text,null) RDESC_DESC,
rtrim(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
rtrim(R.STATISTIC_TYPE_NM) STAT_TYPE,
```

```
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
rtrim(R.WT_BASIS_TYPE_NM) WT_BASIS,
rtrim(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
rtrim(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
RTRIM(BRG.ID_CODE) BRG_CODE,
BRG.TYPE_NAME BRG_NAME,
(f_char_name(nvl(brg.tsrchar_is_number,null),nvl(brg.tsrchar_org_id,null))||'||""||'
'||""||'||BRG.SPECIES_NUMBER) BIOCHAR_NAME,
RTRIM(BRG.TYPE_INDICATOR) BRG_TYPE,
BRG.DESCRIPTION_TEXT BRG_DESC,
RTRIM(BRG.SEX_NAME) SEX,
RTRIM(BRG.LIFE_STAGE_NAME) STAGE_NAME,
(DECODE(brg.type_indicator,'||""||'P'||""||',f_char_name(nvl(r.tsrchar_is_number,null),nvl(
r.tsrchar_org_id,null)),'||""||'B'||""||','||""||' '||""||')) COMM_CLASS_DESC,
RTRIM(RCI.PRIM_CLASS_DESC) PRIM_DESC,
RTRIM(RCI.SEC_CLASS_DESC) SEC_DESC,
RTRIM(RCI.LOWER_BND_AMT) LOWER_AMT,
RTRIM(RCI.UPPER_BND_AMT) UPPER_AMT,
RTRIM(RCIUOM.SHORT_FORM_NAME) UOM_NAME,
RTRIM(BRG.SUMMARY_GRP_COUNT) GRP_COUNT,
RTRIM(BRG.VALUE_TYPE_NAME) BRG_VAL
FROM
TSRCHAR              C,
TSRRSULT             R,
TSRFDACT             F,
TSMORGAN             O,
TSMPSA                    PS,
TSMPROJ                   J,
TSMSTATN             S,
TSRTRIP                   T,
TSRSTVST             V,
TSRTSA                    TSA,
TSRBRG    BRG,
TSMGNTXT  RDESC,
TSMGNTXT  RCMNT,
TSRRCI    RCI,
TSRANLPR             ANLPR,
TSRLSPP                   LSPP,
TSRDQL    DQL,
TSRUOM    RCIUOM,
TSRUOM    UDQ,
TSRUOM         RUOM
WHERE
PS.TSMPROJ_IS_NUMBER          = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID             = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER          = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID             = PS.TSMSTATN_ORG_ID
```

```
AND F.TSRSTVST_IS_NUMBER          = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID             = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER          = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID             = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER           = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID              = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER         = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID            = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER        = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                 = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                = O.TSMORGAN_IS_NUMBER
AND BRG.TSRBRG_IS_NUMBER          = R.TSRBRG_IS_NUMBER
AND BRG.TSRBRG_ORG_ID             = R.TSRBRG_ORG_ID
AND BRG.TYPE_NAME                 <> '||""||'Single Taxon Individuals'||""||'
AND BRG.TSRFDACT_IS_NUMBER        = F.TSRFDACT_IS_NUMBER
AND BRG.TSRFDACT_ORG_ID                 = F.TSRFDACT_ORG_ID
AND R.TSRRSULT_IS_NUMBER          = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = RCI.TSRRSULT_ORG_ID(+)
AND RCI.TSRUOM_IS_NUMBER          = RCIUOM.TSRUOM_IS_NUMBER(+)
AND RCI.TSRUOM_ORG_ID             = RCIUOM.TSRUOM_ORG_ID(+)
AND R.TSRCHAR_IS_NUMBER                 = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID              = C.TSRCHAR_ORG_ID
AND R.TSRRSULT_IS_NUMBER          = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+) = '||""||'DESCRIPT'||""||'
AND R.TSRRSULT_IS_NUMBER          = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+) = '||""||'RSLTCMNT'||""||'
AND R.TSRANLPR_IS_NUMBER          = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID             = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER           = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID              = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER          = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID             = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER            = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID               = RUOM.TSRUOM_ORG_ID(+)
```

STI.sql

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(T.ID_CODE) TRIP,
rtrim(V.ID_NUMBER) VISIT,
rtrim(F.ID_CODE) FDID,
```

```
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.COMMUNITY_NAME COMM_NAME,
F.QC_INDICATOR QC,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
rtrim(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
rtrim(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
rtrim(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
(C.DISPLAY_NAME||'||""||' '||""||'||R.SPECIES_NUMBER) CHR,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',RDESC.description_text,null) RDESC_DESC,
rtrim(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
rtrim(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
rtrim(R.WT_BASIS_TYPE_NM) WT_BASIS,
rtrim(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
rtrim(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
RTRIM(BRG.ID_CODE) BRG_CODE,
BRG.TYPE_NAME BRG_NAME,
(f_char_name(nvl(brg.tsrchar_is_number,null),nvl(brg.tsrchar_org_id,null))||'||""||'
'||""||'||BRG.SPECIES_NUMBER) BIOCHAR_NAME,
RTRIM(BRG.TYPE_INDICATOR) BRG_TYPE,
BRG.DESCRIPTION_TEXT BRG_DESC,
RTRIM(BRGI.INDIVIDUAL_NUMBER) INV_NUM,
RTRIM(BRG.SUMMARY_GRP_COUNT) GRP_COUNT
FROM
TSRCHAR              C,
TSRRSULT             R,
TSRFDACT             F,
TSMORGAN             O,
TSMPSA                    PS,
TSMPROJ                   J,
TSMSTATN             S,
TSRTRIP                   T,
TSRSTVST             V,
TSRTSA                    TSA,
TSRBRG    BRG,
TSRBRGI   BRGI,
TSMGNTXT  RDESC,
TSMGNTXT  RCMNT,
TSRANLPR             ANLPR,
```

```
TSRLSPP                         LSPP,
TSRDQL     DQL,
TSRUOM     UDQ,
TSRUOM             RUOM
WHERE
PS.TSMPROJ_IS_NUMBER                = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID           = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER                = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID                   = PS.TSMSTATN_ORG_ID
AND F.TSRSTVST_IS_NUMBER            = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID               = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER            = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID               = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER             = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID                = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER           = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID              = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER          = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                     = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                    = O.TSMORGAN_IS_NUMBER
AND R.TSRBRGI_IS_NUMBER             = BRGI.TSRBRGI_IS_NUMBER
AND R.TSRBRGI_ORG_ID                = BRGI.TSRBRGI_ORG_ID
AND BRG.TYPE_NAME                   = '||""||'Single Taxon Individuals'||""||'
AND BRG.TSRFDACT_IS_NUMBER          = F.TSRFDACT_IS_NUMBER
AND BRG.TSRFDACT_ORG_ID                     = F.TSRFDACT_ORG_ID
AND BRG.TSRBRG_IS_NUMBER            = BRGI.TSRBRG_IS_NUMBER(+)
AND BRG.TSRBRG_ORG_ID               = BRGI.TSRBRG_ORG_ID(+)
AND R.TSRCHAR_IS_NUMBER                     = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID                = C.TSRCHAR_ORG_ID
AND R.TSRRSULT_IS_NUMBER            = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+) = '||""||'DESCRIPT'||""||'
AND R.TSRRSULT_IS_NUMBER            = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+) = '||""||'RSLTCMNT'||""||'
AND R.TSRANLPR_IS_NUMBER            = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID               = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER             = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID                = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER            = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER              = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                 = RUOM.TSRUOM_ORG_ID(+)
```

BioResults.sql

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
```

```
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(T.ID_CODE) TRIP,
rtrim(V.ID_NUMBER) VISIT,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.QC_INDICATOR QC,
(f_char_name(nvl(F.tsrchar_is_number,null),nvl(F.tsrchar_org_id,null))||'||""||'
'||""||'||F.SPECIES_NUMBER) SBJTXN_NAME,
RTRIM(BIOPT.NAME) BIOPT_NAME,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
rtrim(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
rtrim(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
rtrim(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
(C.DISPLAY_NAME||'||""||' '||""||'||R.SPECIES_NUMBER) CHR,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',RDESC.description_text,null) RDESC_DESC,
PV.FIELD_VALUE SMPL_FRAC,
rtrim(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
rtrim(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
rtrim(R.WT_BASIS_TYPE_NM) WT_BASIS,
rtrim(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
rtrim(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT
FROM
TSRCHAR          C,
TSRRSULT         R,
TSRFDACT         F,
TSMORGAN         O,
TSMPSA                PS,
TSMPROJ               J,
TSMSTATN         S,
TSRTRIP               T,
TSRSTVST         V,
TSRTSA                TSA,
TSMPRMVL    PV,
TSRBIOPT    BIOPT,
TSMGNTXT    RDESC,
```

```
TSMGNTXT    RCMNT,
TSRANLPR                ANLPR,
TSRLSPP                         LSPP,
TSRDQL      DQL,
TSRUOM              RUOM,
TSRUOM      UDQ
WHERE
PS.TSMPROJ_IS_NUMBER                = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID             = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER                = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID                   = PS.TSMSTATN_ORG_ID
AND F.TSRSTVST_IS_NUMBER            = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID               = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER            = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID               = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER             = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID                = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER           = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID              = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER          = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                     = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                    = O.TSMORGAN_IS_NUMBER
AND R.TSRFDACT_IS_NUMBER            = F.TSRFDACT_IS_NUMBER
AND R.TSRFDACT_ORG_ID               = F.TSRFDACT_ORG_ID
AND F.medium_type_name              = '||""||'Biological'||""||'
AND R.TSRCHAR_IS_NUMBER                     = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID                = C.TSRCHAR_ORG_ID
AND F.TSRBIOPT_IS_NUMBER            = BIOPT.TSRBIOPT_IS_NUMBER(+)
AND F.TSRBIOPT_ORG_ID               = BIOPT.TSRBIOPT_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER            = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+)       = '||""||'DESCRIPT'||""||'
AND R.TSRRSULT_IS_NUMBER            = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)       = '||""||'RSLTCMNT'||""||'
AND R.TSRANLPR_IS_NUMBER            = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID               = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER             = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID                = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER            = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRUOM_IS_NUMBER              = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                 = RUOM.TSRUOM_ORG_ID(+)
```

Select Options: Organizations, Projects, Stations, Characteristics, Activity Dates

Sort Sequence: None

Page Break: None.

Export Contents

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
TSMSTATN	IDENTIFICATION_CD	Station ID
TSRFDACT	START_DATE	Act Start
	START_TIME	N/A
	START_TIME_ZONE	N/A
TSRTRIP	ID_CODE	Trip ID
TSRSTVST	ID_NUMBER	Vst #
TSRFDACT (cont.)	ID_CODE	Activity ID
	REPLICATE_NUMBER	Rep #
	MEDIUM_TYPE_NAME	Act Medium
	TYPE_NAME	Act Type
	CATEGORY_TYPE_NAME	Act Category
	INTENT_TYPE_NAME	Act Intent
	COMMUNITY_NAME	Act Community
	QC_INDICATOR	QC Activity
TSRCHAR TSRFDACT (cont.)	DISPLAY_NAME SPECIES_NUMBER	Act Subj Taxon (concatenated with taxon)
TSRBIOPT	NAME	Biopart Name
TSRFDACT (cont.)	RELTV_DEPTH_NAME	Activity Rel Depth
	DEPTH_TO_ACTIVITY	Activity Depth
	DEPTH_TO_ACT_UN_CD	Activity Depth Unit
	UPPER_DEPTH_TO_ACT	Activity Upper Depth
	LOWER_DEPTH_TO_ACT	Activity Lower Depth
	DEPTH_MSR_UNT_CD	Upr Lwr Depth Unit
TSRCHAR (cont.)	DISPLAY_NAME	Characteristic Name
TSRRSULT	SPECIES_NUMBER	(concatenated with taxon)
	VALUE_TEXT	Res Val Text
TSRUOM	SHORT_FORM_NAME	Res Unit
TSMGNTXT	DESCRIPTION_TEXT	Text Result
TSMPRMVL	SMPL_FRAC_TYPE_NM	Sampl Frac Type
TSRRSULT (cont.)	VALUE_TYPE_NAME	Res Type
	STATISTIC_TYPE_NM	Statistic Type
TSMGNTXT (cont.)	DESCRIPTION_TEXT	Result Comment
TSRRSULT (cont.)	VALUE_STATUS	Res Stat
	WT_BASIS_TYPE_NM	Weight
	TEMP_BASIS_LVL_NM	Temp
	DUR_BASIS_TYPE_NM	Duration
TSRLSPP	SOURCE_ACR	Samp Prep Src
	PREPARATION_ID	Samp Prep ID

Table	Attribute	Column Name
TSRANLPR	SOURCE_ACR	An Proc Src
	PROCEDURE_ID	An Proc ID
TSRDQL	MIN_DETECT_LIMIT	Detectn Lmt
TSRUOM (cont.)	SHORT_FORM_NAME	Detectn Lmt Unit
TSRBRG	ID_CODE	BRG ID
	TYPE_NAME	Bio Group Type
TSRCHAR (cont.)	DISPLAY_NAME	Bio Group Subj Txn
TSRBRG (cont.)	SPECIES_NUMBER	(concatenated with taxon)
	TYPE_INDICATOR	P/B
	DESCRIPTION_TEXT	Bio Group Description
TSRCPV	SHORT_NAME	Group Desc Sex
	SHORT_NAME	Group Desc Lifestage
TSRBRGI	INDIVIDUAL_NUMBER	Ind #
TSRCHAR (cont.)	DISPLAY_NAME	Common Class Desc
TSRRCI	PRIM_CLASS_DESC	Pri Cls Desc
	SEC_CLASS_DESC	Sec Cls Desc
	LOWER_BND_AMT	Lwr Bnd Amt
	UPPER_BND_AMT	Upr Bnd Amt
TSRUOM (cont.)	SHORT_FORM_NAME	Bio RCI Unit
TSRBRG (cont.)	SUMMARY_GRP_COUNT	# Grp
	VALUE_TYPE_NAME	BRG Cnt Type

Export: Results Biological Large Export

Report Description: This tilde-delimited export file report provides information regarding results obtained for biological activities including Taxon Abundance result groups (i.e., Multi-Taxon Population Census, Single Taxon Group Summary, Single Taxon Frequency Class, Single Taxon Individual), Individual results, and Tissue results.

Activities without assigned Characteristics will not be shown.

Location Points are the Station's Point of Record.

Select Logic: **MTPC/STGS/STFC.sql**

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(T.ID_CODE) TRIP,
rtrim(V.ID_NUMBER) VISIT,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.COMMUNITY_NAME COMM_NAME,
F.QC_INDICATOR QC,
DECODE(TO_CHAR(F.STOP_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.STOP_DATE,'||""||'M
M/DD/YYYY'||""||')) FSTP,
DECODE(TO_CHAR(F.STOP_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.STOP_TIME,'||""||'HH24:MI:S
S'||""||')) FSTPTIME,
RTRIM(F.STOP_TIME_ZONE) FSTPZONE,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
rtrim(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
rtrim(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
rtrim(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
fldset(F.TSRFDACT_IS_NUMBER,F.TSRFDACT_ORG_ID) FLDSET_ID,
(DECODE(BRG.TYPE_INDICATOR,'||""||'B'||""||',RCI.PRIM_CLASS_DESC||'||""||'
'||""||'||RCI.SEC_CLASS_DESC,'||""||'P'||""||',C.DISPLAY_NAME||'||""||'
'||""||'||RCI.LOWER_BND_AMT||'||""||' -> '||""||
```

```
'||RCI.UPPER_BND_AMT||'||""||'
'||""||'||RTRIM(RCIUOM.SHORT_FORM_NAME),C.DISPLAY_NAME||'||""||'
'||""||'||R.SPECIES_NUMBER)) CHR,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
R.VALUE_MEASURE VAL_MEASURE,
(DECODE(BRG.TYPE_INDICATOR,'||""||'B'||""||',''||""||'count'||""||',RTRIM(RUOM.SHORT
_FORM_NAME))) UOM,
rtrim(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
rtrim(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
rtrim(R.WT_BASIS_TYPE_NM) WT_BASIS,
rtrim(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
rtrim(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
rtrim(L.ID_CODE) LAB_ID,
L.NAME LAB_NAME,
rtrim(R.LAB_CERT_IND_CODE) LAB_CERT,
rtrim(R.LAB_BATCH_ID_CODE) LAB_BATCH,
DECODE(TO_CHAR(R.ANALYSIS_DATE, '||""||'MM/DD/YYYY'||""||'),
'||""||'01/01/0001'||""||', NULL, TO_CHAR(R.ANALYSIS_DATE,'||""||
'MM/DD/YYYY'||""||')) ADATE,
DECODE(TO_CHAR(R.ANALYSIS_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(R.ANALYSIS_TIME,'||""||'HH24
:MI:SS'||""||')) ATIME,
rtrim(R.ANALYSIS_TIME_ZONE) AZONE,
rtrim(DQL.MIN_QUANT_LIMIT) MIN_LIMIT,
rtrim(DQL.MAX_QUANT_LIMIT) MAX_LIMIT,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
DQL.DESCRIPTION_TEXT DQL_DESC,
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID) LBRMK_NAME,
RTRIM(BRG.ID_CODE) BRG_CODE,
BRG.TYPE_NAME BRG_NAME,
(f_char_name(nvl(brg.tsrchar_is_number,null),nvl(brg.tsrchar_org_id,null))||'||""||'
'||""||'||BRG.SPECIES_NUMBER) BIOCHAR_NAME,
RTRIM(BRG.TYPE_INDICATOR) BRG_TYPE,
BRG.DESCRIPTION_TEXT BRG_DESC,
RTRIM(BRG.SEX_NAME) SEX,
RTRIM(BRG.LIFE_STAGE_NAME) STAGE_NAME,
(DECODE(brg.type_indicator,'||""||'P'||""||',f_char_name(nvl(r.tsrchar_is_number,null),nvl(
r.tsrchar_org_id,null)),'||""||'B'||""||','||""||' '||""||')) COMM_CLASS_DESC,
RTRIM(RCI.PRIM_CLASS_DESC) PRIM_DESC,
RTRIM(RCI.SEC_CLASS_DESC) SEC_DESC,
RTRIM(RCI.LOWER_BND_AMT) LOWER_AMT,
RTRIM(RCI.UPPER_BND_AMT) UPPER_AMT,
RTRIM(RCIUOM.SHORT_FORM_NAME) UOM_NAME,
RTRIM(BRG.SUMMARY_GRP_COUNT) GRP_COUNT,
RTRIM(BRG.VALUE_TYPE_NAME) BRG_VAL
FROM
TSRCHAR                 C,
```

```
TSRRSULT                R,
TSRFDACT                F,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSRBRG     BRG,
TSMGNTXT   RCMNT,
TSRRCI     RCI,
TSRANLPR                ANLPR,
TSRLSPP                         LSPP,
TSRLAB     L,
TSRDQL     DQL,
TSRUOM     RCIUOM,
TSRUOM     UDQ,
TSRUOM          RUOM
WHERE
PS.TSMPROJ_IS_NUMBER            = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID               = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER            = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID               = PS.TSMSTATN_ORG_ID
AND F.TSRSTVST_IS_NUMBER        = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID           = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER        = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID           = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER         = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID            = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER       = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID          = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER      = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                 = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                = O.TSMORGAN_IS_NUMBER
AND BRG.TSRBRG_IS_NUMBER        = R.TSRBRG_IS_NUMBER
AND BRG.TSRBRG_ORG_ID           = R.TSRBRG_ORG_ID
AND BRG.TYPE_NAME               <> '||""||'Single Taxon Individuals'||""||'
AND BRG.TSRFDACT_IS_NUMBER      = F.TSRFDACT_IS_NUMBER
AND BRG.TSRFDACT_ORG_ID                 = F.TSRFDACT_ORG_ID
AND R.TSRRSULT_IS_NUMBER        = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = RCI.TSRRSULT_ORG_ID(+)
AND RCI.TSRUOM_IS_NUMBER        = RCIUOM.TSRUOM_IS_NUMBER(+)
AND RCI.TSRUOM_ORG_ID           = RCIUOM.TSRUOM_ORG_ID(+)
AND R.TSRCHAR_IS_NUMBER                 = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID            = C.TSRCHAR_ORG_ID
AND R.TSRRSULT_IS_NUMBER        = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+) = '||""||'RSLTCMNT'||""||'
AND R.TSRANLPR_IS_NUMBER        = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID           = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER         = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID            = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER          = L.TSRLAB_IS_NUMBER(+)
```

```
AND R.TSRLAB_ORG_ID                = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER           = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID              = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER             = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                = RUOM.TSRUOM_ORG_ID(+)
```

STI.sql

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(T.ID_CODE) TRIP,
rtrim(V.ID_NUMBER) VISIT,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.COMMUNITY_NAME COMM_NAME,
F.QC_INDICATOR QC,
DECODE(TO_CHAR(F.STOP_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.STOP_DATE,'||""||'M
M/DD/YYYY'||""||')) FSTP,
DECODE(TO_CHAR(F.STOP_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.STOP_TIME,'||""||'HH24:MI:S
S'||""||')) FSTPTIME,
RTRIM(F.STOP_TIME_ZONE) FSTPZONE,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
rtrim(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
rtrim(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
rtrim(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
fldset(F.TSRFDACT_IS_NUMBER,F.TSRFDACT_ORG_ID) FLDSET_ID,
(C.DISPLAY_NAME||'||""||' '||""||'||R.SPECIES_NUMBER) CHR,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
R.VALUE_MEASURE VAL_MEASURE,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
rtrim(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
rtrim(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
rtrim(R.WT_BASIS_TYPE_NM) WT_BASIS,
rtrim(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
```

```
rtrim(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
RTRIM(BRG.ID_CODE) BRG_CODE,
BRG.TYPE_NAME BRG_NAME,
(f_char_name(nvl(brg.tsrchar_is_number,null),nvl(brg.tsrchar_org_id,null))||'||""||'
'||""||'||BRG.SPECIES_NUMBER) BIOCHAR_NAME,
RTRIM(BRG.TYPE_INDICATOR) BRG_TYPE,
BRG.DESCRIPTION_TEXT BRG_DESC,
RTRIM(BRGI.INDIVIDUAL_NUMBER) INV_NUM,
RTRIM(BRG.SUMMARY_GRP_COUNT) GRP_COUNT
FROM
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSRBRG     BRG,
TSRBRGI    BRGI,
TSMGNTXT   RCMNT,
TSRANLPR                ANLPR,
TSRLSPP                         LSPP,
TSRUOM             RUOM
WHERE
PS.TSMPROJ_IS_NUMBER            = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID               = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER            = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID               = PS.TSMSTATN_ORG_ID
AND F.TSRSTVST_IS_NUMBER        = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID           = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER        = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID           = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER         = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID            = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER       = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID          = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER      = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                 = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                = O.TSMORGAN_IS_NUMBER
AND R.TSRBRGI_IS_NUMBER         = BRGI.TSRBRGI_IS_NUMBER
AND R.TSRBRGI_ORG_ID            = BRGI.TSRBRGI_ORG_ID
AND BRG.TYPE_NAME               = '||""||'Single Taxon Individuals'||""||'
AND BRG.TSRFDACT_IS_NUMBER      = F.TSRFDACT_IS_NUMBER
AND BRG.TSRFDACT_ORG_ID                 = F.TSRFDACT_ORG_ID
AND BRG.TSRBRG_IS_NUMBER        = BRGI.TSRBRG_IS_NUMBER(+)
AND BRG.TSRBRG_ORG_ID           = BRGI.TSRBRG_ORG_ID(+)
AND R.TSRCHAR_IS_NUMBER                 = C.TSRCHAR_IS_NUMBER
```

```
AND R.TSRCHAR_ORG_ID                = C.TSRCHAR_ORG_ID
AND R.TSRRSULT_IS_NUMBER            = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+) = '||""||'RSLTCMNT'||""||'
AND R.TSRANLPR_IS_NUMBER            = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID               = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER             = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID                = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER              = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                 = RUOM.TSRUOM_ORG_ID(+)
```

BioResults.sql

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(T.ID_CODE) TRIP,
rtrim(V.ID_NUMBER) VISIT,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.QC_INDICATOR QC,
(f_char_name(nvl(F.tsrchar_is_number,null),nvl(F.tsrchar_org_id,null))||'||""||'
'||""||'||F.SPECIES_NUMBER) SBJTXN_NAME,
RTRIM(BIOPT.NAME) BIOPT_NAME,
DECODE(TO_CHAR(F.STOP_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.STOP_DATE,'||""||'M
M/DD/YYYY'||""||')) FSTP,
DECODE(TO_CHAR(F.STOP_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.STOP_TIME,'||""||'HH24:MI:S
S'||""||')) FSTPTIME,
RTRIM(F.STOP_TIME_ZONE) FSTPZONE,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
rtrim(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
rtrim(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
rtrim(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
fldset(F.TSRFDACT_IS_NUMBER,F.TSRFDACT_ORG_ID) FLDSET_ID,
(C.DISPLAY_NAME||'||""||' '||""||'||R.SPECIES_NUMBER) CHR,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
R.VALUE_MEASURE VAL_MEASURE,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
PV.FIELD_VALUE SMPL_FRAC,
```

```
rtrim(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
rtrim(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
rtrim(R.WT_BASIS_TYPE_NM) WT_BASIS,
rtrim(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
rtrim(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
rtrim(L.ID_CODE) LAB_ID,
L.NAME LAB_NAME,
rtrim(R.LAB_CERT_IND_CODE) LAB_CERT,
rtrim(R.LAB_BATCH_ID_CODE) LAB_BATCH,
DECODE(TO_CHAR(R.ANALYSIS_DATE, '||""||'MM/DD/YYYY'||""||'),
'||""||'01/01/0001'||""||', NULL, TO_CHAR(R.ANALYSIS_DATE,'||""||
'MM/DD/YYYY'||""||')) ADATE,
DECODE(TO_CHAR(R.ANALYSIS_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(R.ANALYSIS_TIME,'||""||'HH24
:MI:SS'||""||')) ATIME,
rtrim(R.ANALYSIS_TIME_ZONE) AZONE,
rtrim(DQL.MIN_QUANT_LIMIT) MIN_LIMIT,
rtrim(DQL.MAX_QUANT_LIMIT) MAX_LIMIT,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
DQL.DESCRIPTION_TEXT DQL_DESC,
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID) LBRMK_NAME
FROM
TSRCHAR              C,
TSRRSULT             R,
TSRFDACT             F,
TSMORGAN             O,
TSMPSA                    PS,
TSMPROJ                   J,
TSMSTATN             S,
TSRTRIP                   T,
TSRSTVST             V,
TSRTSA                    TSA,
TSMPRMVL   PV,
TSRBIOPT   BIOPT,
TSMGNTXT   RCMNT,
TSRANLPR             ANLPR,
TSRLSPP                   LSPP,
TSRLAB     L,
TSRDQL     DQL,
TSRUOM          RUOM,
TSRUOM     UDQ
WHERE
PS.TSMPROJ_IS_NUMBER          = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID             = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER          = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID             = PS.TSMSTATN_ORG_ID
AND F.TSRSTVST_IS_NUMBER      = V.TSRSTVST_IS_NUMBER
```

```
AND F.TSRSTVST_ORG_ID                = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER             = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID                = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER              = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID                 = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER            = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID               = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER           = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                    = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                   = O.TSMORGAN_IS_NUMBER
AND R.TSRFDACT_IS_NUMBER             = F.TSRFDACT_IS_NUMBER
AND R.TSRFDACT_ORG_ID                = F.TSRFDACT_ORG_ID
AND F.medium_type_name               = '||""||'Biological'||""||'
AND R.TSRCHAR_IS_NUMBER                    = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID                 = C.TSRCHAR_ORG_ID
AND F.TSRBIOPT_IS_NUMBER             = BIOPT.TSRBIOPT_IS_NUMBER(+)
AND F.TSRBIOPT_ORG_ID                = BIOPT.TSRBIOPT_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER             = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)        = '||""||'RSLTCMNT'||""||'
AND R.TSRANLPR_IS_NUMBER             = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID                = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER              = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID                 = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER               = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID                  = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER             = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRUOM_IS_NUMBER               = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                  = RUOM.TSRUOM_ORG_ID(+)
```

Select Options: Organizations, Projects, Stations, Characteristics, Activity Dates

Sort Sequence: None

Page Break: None.

Export Contents

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
	NAME	Org Name
TSMSTATN	IDENTIFICATION_CD	Station ID
	NAME	Station Name
TSRFDACT	START_DATE	Act Start
	START_TIME	N/A
	START_TIME_ZONE	N/A

Table	Attribute	Column Name
TSRTRIP	ID_CODE	Trip ID
TSRSTVST	ID_NUMBER	Vst #
TSRFDACT (cont.)	ID_CODE	Activity ID
	REPLICATE_NUMBER	Rep #
	MEDIUM_TYPE_NAME	Act Medium
	TYPE_NAME	Act Type
	CATEGORY_TYPE_NAME	Act Category
	INTENT_TYPE_NAME	Act Intent
	COMMUNITY_NAME	Act Community
	QC_INDICATOR	QC Activity
TSRCHAR TSRFDACT (cont.)	DISPLAY_NAME SPECIES_NUMBER	Act Subj Taxon (concatenated with taxon)
TSRBIOPT	NAME	Biopart Name
TSRFDACT (cont.)	STOP_DATE	Act Stop
	STOP_TIME	N/A
	STOP_TIME_ZONE	N/A
	RELTV_DEPTH_NAME	Activity Rel Depth
	DEPTH_TO_ACTIVITY	Activity Depth
	DEPTH_TO_ACT_UN_CD	Activity Depth Unit
	UPPER_DEPTH_TO_ACT	Activity Upper Depth
	LOWER_DEPTH_TO_ACT	Activity Lower Depth
	DEPTH_MSR_UNT_CD	Upr Lwr Depth Unit
TSRFDSET	ID_CODE	Field Sets
TSRCHAR (cont.)	DISPLAY_NAME	Characteristic Name
TSRRSULT	SPECIES_NUMBER	(concatenated with taxon)
	VALUE_TEXT	Res Val Text
	VALUE_MEASURE	Res Val
TSRUOM	SHORT_FORM_NAME	Res Unit
TSMPRMVL	SMPL_FRAC_TYPE_NM	Sampl Frac Type
TSRRSULT (cont.)	VALUE_TYPE_NAME	Res Type
	STATISTIC_TYPE_NM	Statistic Type
TSMGNTXT	DESCRIPTION_TEXT	Result Comment
TSRRSULT (cont.)	VALUE_STATUS	Res Stat
	WT_BASIS_TYPE_NM	Weight
	TEMP_BASIS_LVL_NM	Temp
	DUR_BASIS_TYPE_NM	Duration
TSRLSPP	SOURCE_ACR	Samp Prep Src
	PREPARATION_ID	Samp Prep ID
TSRANLPR	SOURCE_ACR	An Proc Src
	PROCEDURE_ID	An Proc ID

Table	Attribute	Column Name
TSRLAB	ID_CODE	Lab ID
	NAME	Lab Name
TSRRSULT (cont.)	LAB_CERT_IND_CODE	Crt
	LAB_BATCH_ID_CODE	Lab Batch ID
	ANALYSIS_DATE	Anal Date
	ANALYSIS_TIME	N/A
	ANALYSIS_TIME_ZONE	N/A
TSRDQL	MIN_QUANT_LIMIT	Lwr Quan Lmt
	MAX_QUANT_LIMIT	Upr Quan Lmt
	MIN_DETECT_LIMIT	Detectn Lmt
TSRUOM (cont.)	SHORT_FORM_NAME	Detectn Lmt Unit
TSRDQL (cont.)	DESCRIPTION_TEXT	Detection Lmt Desc
TSRLBRMK	SHORT_NAME	Lab Remarks
TSRBRG	ID_CODE	BRG ID
	TYPE_NAME	Bio Group Type
TSRCHAR (cont.)	DISPLAY_NAME	Bio Group Subj Txn
TSRBRG (cont.)	SPECIES_NUMBER	(concatenated with taxon)
	TYPE_INDICATOR	P/B
	DESCRIPTION_TEXT	Bio Group Description
TSRCPV	SHORT_NAME	Group Desc Sex
	SHORT_NAME	Group Desc Lifestage
TSRBRGI	INDIVIDUAL_NUMBER	Ind #
TSRCHAR (cont.)	DISPLAY_NAME	Common Class Desc
TSRRCI	PRIM_CLASS_DESC	Pri Cls Desc
	SEC_CLASS_DESC	Sec Cls Desc
	LOWER_BND_AMT	Lwr Bnd Amt
	UPPER_BND_AMT	Upr Bnd Amt
TSRUOM (cont.)	SHORT_FORM_NAME	Bio RCI Unit
TSRBRG (cont.)	SUMMARY_GRP_COUNT	# Grp
	VALUE_TYPE_NAME	BRG Cnt Type

Export: Results Biological Giant Export

Report Description: This tilde-delimited export file report provides information regarding results obtained for biological activities including Taxon Abundance result groups (i.e., Multi-Taxon Population Census, Single Taxon Group Summary, Single Taxon Frequency Class, Single Taxon Individual), Individual results, and Tissue results.

Activities without assigned Characteristics will not be shown.

Location Points are the Station's Point of Record.

Field Sets retrieves the first four assigned to each activity, and reports them concatenated together in a single column separated by commas.

Laboratory Remarks retrieves the first four assigned to each result, and reports them concatenated together in a single column separated by commas.

Select Logic: **MTPC/STGS/STFC.sql**

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(T.ID_CODE) TRIP,
rtrim(V.ID_NUMBER) VISIT,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.COMMUNITY_NAME COMM_NAME,
F.QC_INDICATOR QC,
A.POINT_NAME,
TO_CHAR(A.LAT_DEC_DEG_MSR,'||""||'99.9999999'||""||') LATITUDE,
TO_CHAR(A.LONG_DEC_DEG_MSR,'||""||'999.9999999'||""||') LONGITUDE,
MAD_HD.DESCRIPTION HD_DESC,
MAD_HM.DESCRIPTION HM_DESC,
DECODE(TO_CHAR(F.STOP_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.STOP_DATE,'||""||'M
M/DD/YYYY'||""||')) FSTP,
```

```
DECODE(TO_CHAR(F.STOP_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.STOP_TIME,'||""||'HH24:MI:S
S'||""||')) FSTPTIME,
RTRIM(F.STOP_TIME_ZONE) FSTPZONE,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
rtrim(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
rtrim(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
rtrim(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
fldset(F.TSRFDACT_IS_NUMBER,F.TSRFDACT_ORG_ID) FLDSET_ID,
(DECODE(BRG.TYPE_INDICATOR,'||""||'B'||""||',RCI.PRIM_CLASS_DESC||'||""||'
'||""||'||RCI.SEC_CLASS_DESC,'||""||'P'||""||',C.DISPLAY_NAME||'||""||'
'||""||'||RCI.LOWER_BND_AMT||'||""||' -> '||""||
'||RCI.UPPER_BND_AMT||'||""||'
'||""||'||RTRIM(RCIUOM.SHORT_FORM_NAME),C.DISPLAY_NAME||'||""||'
'||""||'||R.SPECIES_NUMBER)) CHR,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
R.VALUE_MEASURE VAL_MEASURE,
(DECODE(BRG.TYPE_INDICATOR,'||""||'B'||""||','||""||'count'||""||',RTRIM(RUOM.SHORT
_FORM_NAME))) UOM,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',RDESC.description_text,null) RDESC_DESC,
rtrim(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
rtrim(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
rtrim(R.WT_BASIS_TYPE_NM) WT_BASIS,
rtrim(R.FNCTIONAL_FEED_GRP) FEED_GRP,
rtrim(R.TAXON_POLLUTION) TAXON,
rtrim(R.TROPHIC_LEVEL) TROPHIC,
PV0.FIELD_VALUE HABIT,
PV1.FIELD_VALUE VOLTINISM,
DECODE(rtrim(CLDES.CELL_SHAPE_TYPE_NM),'||""||'<Spaces>'||""||',null,rtrim(CLD
ES.CELL_SHAPE_TYPE_NM)) CELL_SHAPE,
DECODE(rtrim(CLDES.CELL_TYPE_NM),'||""||'<Spaces>'||""||',null,rtrim(CLDES.CELL
_TYPE_NM)) CELL_TYPE,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
LSPP.NAME LSPPNAME,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
ANLPR.NAME ANAME,
PROCEX.DESCRIPTION_TEXT PDESC,
rtrim(L.ID_CODE) LAB_ID,
L.NAME LAB_NAME,
rtrim(R.LAB_CERT_IND_CODE) LAB_CERT,
rtrim(R.LAB_BATCH_ID_CODE) LAB_BATCH,
DECODE(TO_CHAR(R.ANALYSIS_DATE, '||""||'MM/DD/YYYY'||""||'),
'||""||'01/01/0001'||""||', NULL, TO_CHAR(R.ANALYSIS_DATE,'||""||
'MM/DD/YYYY'||""||')) ADATE,
DECODE(TO_CHAR(R.ANALYSIS_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(R.ANALYSIS_TIME,'||""||'HH24
:MI:SS'||""||')) ATIME,
rtrim(R.ANALYSIS_TIME_ZONE) AZONE,
```

```
rtrim(DQL.MIN_QUANT_LIMIT) MIN_LIMIT,
rtrim(DQL.MAX_QUANT_LIMIT) MAX_LIMIT,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
DQL.DESCRIPTION_TEXT DQL_DESC,
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID) LBRMK_NAME,
R.DILUTION_IND_CODE DIL_CD,
R.RECOVERY_IND_CODE REC_CD,
R.CORRECTION_IND_CD CORR_CD,
RTRIM(BRG.ID_CODE) BRG_CODE,
BRG.TYPE_NAME BRG_NAME,
(f_char_name(nvl(brg.tsrchar_is_number,null),nvl(brg.tsrchar_org_id,null))||'||""||'
'||""||'||BRG.SPECIES_NUMBER) BIOCHAR_NAME,
RTRIM(BRG.TYPE_INDICATOR) BRG_TYPE,
BRG.DESCRIPTION_TEXT BRG_DESC,
RTRIM(BRG.SEX_NAME) SEX,
RTRIM(BRG.LIFE_STAGE_NAME) STAGE_NAME,
(DECODE(brg.type_indicator,'||""||'P'||""||',f_char_name(nvl(r.tsrchar_is_number,null),nvl(
r.tsrchar_org_id,null)),'||""||'B'||""||','||""||' '||""||')) COMM_CLASS_DESC,
RTRIM(RCI.PRIM_CLASS_DESC) PRIM_DESC,
RTRIM(RCI.SEC_CLASS_DESC) SEC_DESC,
RTRIM(RCI.LOWER_BND_AMT) LOWER_AMT,
RTRIM(RCI.UPPER_BND_AMT) UPPER_AMT,
RTRIM(RCIUOM.SHORT_FORM_NAME) UOM_NAME,
RTRIM(BRG.SUMMARY_GRP_COUNT) GRP_COUNT,
RTRIM(BRG.VALUE_TYPE_NAME) BRG_VAL
FROM
TSRCHAR          C,
TSRRSULT         R,
TSRFDACT         F,
TSMORGAN         O,
TSMPSA                PS,
TSMPROJ               J,
TSMSTATN         S,
TSMALP     A,
TSMMAD     MAD_HD,
TSMMAD     MAD_HM,
TSRTRIP               T,
TSRSTVST         V,
TSRTSA                TSA,
TSRBRG     BRG,
TSMGNTXT   RDESC,
TSMGNTXT   RCMNT,
TSMGNTXT   PROCEX,
TSRRCI     RCI,
TSRANLPR         ANLPR,
TSRLSPP               LSPP,
TSRLAB     L,
TSRDQL     DQL,
TSRUOM     RCIUOM,
TSRUOM     UDQ,
TSRUOM          RUOM,
TSMPRMVL   PV0,
TSMPRMVL   PV1,
```

```
TSRCLDES    CLDES
WHERE
PS.TSMPROJ_IS_NUMBER                = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID           = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER                = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID                   = PS.TSMSTATN_ORG_ID
AND F.TSRSTVST_IS_NUMBER            = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID               = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER            = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID               = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER             = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID                = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER           = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID              = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER          = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                     = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                    = O.TSMORGAN_IS_NUMBER
AND S.TSMSTATN_IS_NUMBER            = A.TSMSTATN0IS_NUMBER
AND S.TSMSTATN_ORG_ID               = A.TSMSTATN0ORG_ID
AND A.TYPE_CODE = '||""||'*POINT OF RECORD'||""||'
AND A.GEOPSTNG_DATUM_CD             = MAD_HD.id_code
AND MAD_HD.category             = '||""||'HORIZONTAL'||""||'
AND MAD_HD.subcategory          = '||""||'DATUM'||""||'
AND A.GEOPSTNG_METHOD_CD            = MAD_HM.id_code
AND MAD_HM.category                 = '||""||'HORIZONTAL'||""||'
AND MAD_HM.subcategory          = '||""||'METHOD'||""||'
AND BRG.TSRBRG_IS_NUMBER            = R.TSRBRG_IS_NUMBER
AND BRG.TSRBRG_ORG_ID               = R.TSRBRG_ORG_ID
AND BRG.TYPE_NAME                   <> '||""||'Single Taxon Individuals'||""||'
AND BRG.TSRFDACT_IS_NUMBER          = F.TSRFDACT_IS_NUMBER
AND BRG.TSRFDACT_ORG_ID                     = F.TSRFDACT_ORG_ID
AND R.TSRRSULT_IS_NUMBER            = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RCI.TSRRSULT_ORG_ID(+)
AND RCI.TSRUOM_IS_NUMBER            = RCIUOM.TSRUOM_IS_NUMBER(+)
AND RCI.TSRUOM_ORG_ID               = RCIUOM.TSRUOM_ORG_ID(+)
AND R.TSRCHAR_IS_NUMBER                     = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID                = C.TSRCHAR_ORG_ID
AND R.TSRRSULT_IS_NUMBER            = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+) = '||""||'DESCRIPT'||""||'
AND R.TSRRSULT_IS_NUMBER            = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+) = '||""||'RSLTCMNT'||""||'
AND R.TSRRSULT_IS_NUMBER            = PROCEX.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = PROCEX.TSRRSULT_ORG_ID(+)
AND PROCEX.DESCRIPTION_NAME(+)              = '||""||'PROCEXCP'||""||'
AND R.TSRANLPR_IS_NUMBER            = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID               = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER             = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID                = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER              = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID                 = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER            = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID               = DQL.TSRRSULT_ORG_ID(+)
```

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AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSMPRMVL0IS_NUMBER = PV0.TSMPRMVL_IS_NUMBER(+)
AND R.TSMPRMVL1IS_NUMBER = PV1.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER        = CLDES.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID           = CLDES.TSRRSULT_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER          = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID             = RUOM.TSRUOM_ORG_ID(+)
```

STI.sql

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(T.ID_CODE) TRIP,
rtrim(V.ID_NUMBER) VISIT,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.COMMUNITY_NAME COMM_NAME,
F.QC_INDICATOR QC,
A.POINT_NAME,
TO_CHAR(A.LAT_DEC_DEG_MSR,'||""||'99.9999999'||""||') LATITUDE,
TO_CHAR(A.LONG_DEC_DEG_MSR,'||""||'999.9999999'||""||') LONGITUDE,
MAD_HD.DESCRIPTION HD_DESC,
MAD_HM.DESCRIPTION HM_DESC,
DECODE(TO_CHAR(F.STOP_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.STOP_DATE,'||""||'M
M/DD/YYYY'||""||')) FSTP,
DECODE(TO_CHAR(F.STOP_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.STOP_TIME,'||""||'HH24:MI:S
S'||""||')) FSTPTIME,
RTRIM(F.STOP_TIME_ZONE) FSTPZONE,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
rtrim(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
rtrim(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
rtrim(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
fldset(F.TSRFDACT_IS_NUMBER,F.TSRFDACT_ORG_ID) FLDSET_ID,
(C.DISPLAY_NAME||'||""||' '||""||'||R.SPECIES_NUMBER) CHR,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
R.VALUE_MEASURE VAL_MEASURE,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
```

```
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',RDESC.description_text,null) RDESC_DESC,
rtrim(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
rtrim(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
rtrim(R.WT_BASIS_TYPE_NM) WT_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
LSPP.NAME LSPPNAME,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
ANLPR.NAME ANAME,
PROCEX.DESCRIPTION_TEXT PDESC,
RTRIM(BRG.ID_CODE) BRG_CODE,
BRG.TYPE_NAME BRG_NAME,
(f_char_name(nvl(brg.tsrchar_is_number,null),nvl(brg.tsrchar_org_id,null))||'||""||'
'||""||'||BRG.SPECIES_NUMBER) BIOCHAR_NAME,
RTRIM(BRG.TYPE_INDICATOR) BRG_TYPE,
BRG.DESCRIPTION_TEXT BRG_DESC,
RTRIM(BRGI.INDIVIDUAL_NUMBER) INV_NUM,
RTRIM(BRG.SUMMARY_GRP_COUNT) GRP_COUNT
FROM
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSMALP     A,
TSMMAD     MAD_HD,
TSMMAD     MAD_HM,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSRBRG     BRG,
TSRBRGI    BRGI,
TSMGNTXT   RDESC,
TSMGNTXT   RCMNT,
TSMGNTXT   PROCEX,
TSRANLPR                ANLPR,
TSRLSPP                         LSPP,
TSRUOM          RUOM
WHERE
PS.TSMPROJ_IS_NUMBER            = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID           = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER            = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID               = PS.TSMSTATN_ORG_ID
AND F.TSRSTVST_IS_NUMBER        = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID           = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER        = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID           = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER         = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID            = TSA.TSRTRIP_ORG_ID
```

```
AND TSA.TSRTRIP_IS_NUMBER          = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID             = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER         = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                    = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                   = O.TSMORGAN_IS_NUMBER
AND S.TSMSTATN_IS_NUMBER           = A.TSMSTATN0IS_NUMBER
AND S.TSMSTATN_ORG_ID              = A.TSMSTATN0ORG_ID
AND A.TYPE_CODE = '||""||'*POINT OF RECORD'||""||'
AND A.GEOPSTNG_DATUM_CD            = MAD_HD.id_code
AND MAD_HD.category          = '||""||'HORIZONTAL'||""||'
AND MAD_HD.subcategory       = '||""||'DATUM'||""||'
AND A.GEOPSTNG_METHOD_CD           = MAD_HM.id_code
AND MAD_HM.category                = '||""||'HORIZONTAL'||""||'
AND MAD_HM.subcategory       = '||""||'METHOD'||""||'
AND R.TSRBRGI_IS_NUMBER            = BRGI.TSRBRGI_IS_NUMBER
AND R.TSRBRGI_ORG_ID               = BRGI.TSRBRGI_ORG_ID
AND BRG.TYPE_NAME                  = '||""||'Single Taxon Individuals'||""||'
AND BRG.TSRFDACT_IS_NUMBER         = F.TSRFDACT_IS_NUMBER
AND BRG.TSRFDACT_ORG_ID                    = F.TSRFDACT_ORG_ID
AND BRG.TSRBRG_IS_NUMBER           = BRGI.TSRBRG_IS_NUMBER(+)
AND BRG.TSRBRG_ORG_ID              = BRGI.TSRBRG_ORG_ID(+)
AND R.TSRCHAR_IS_NUMBER                    = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID               = C.TSRCHAR_ORG_ID
AND R.TSRRSULT_IS_NUMBER           = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID              = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+) = '||""||'DESCRIPT'||""||'
AND R.TSRRSULT_IS_NUMBER           = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID              = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+) = '||""||'RSLTCMNT'||""||'
AND R.TSRRSULT_IS_NUMBER           = PROCEX.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID              = PROCEX.TSRRSULT_ORG_ID(+)
AND PROCEX.DESCRIPTION_NAME(+)             = '||""||'PROCEXCP'||""||'
AND R.TSRANLPR_IS_NUMBER           = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID              = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER            = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID               = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER             = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                = RUOM.TSRUOM_ORG_ID(+)
```

BioResults.sql

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(T.ID_CODE) TRIP,
rtrim(V.ID_NUMBER) VISIT,
rtrim(F.ID_CODE) FDID,
```

```
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.QC_INDICATOR QC,
(f_char_name(nvl(F.tsrchar_is_number,null),nvl(F.tsrchar_org_id,null))||'||""||'
'||""||'||F.SPECIES_NUMBER) SBJTXN_NAME,
RTRIM(BIOPT.NAME) BIOPT_NAME,
A.POINT_NAME,
TO_CHAR(A.LAT_DEC_DEG_MSR,'||""||'99.9999999'||""||') LATITUDE,
TO_CHAR(A.LONG_DEC_DEG_MSR,'||""||'999.9999999'||""||') LONGITUDE,
MAD_HD.DESCRIPTION HD_DESC,
MAD_HM.DESCRIPTION HM_DESC,
DECODE(TO_CHAR(F.STOP_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.STOP_DATE,'||""||'M
M/DD/YYYY'||""||')) FSTP,
DECODE(TO_CHAR(F.STOP_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.STOP_TIME,'||""||'HH24:MI:S
S'||""||')) FSTPTIME,
RTRIM(F.STOP_TIME_ZONE) FSTPZONE,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
rtrim(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
rtrim(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
rtrim(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
fldset(F.TSRFDACT_IS_NUMBER,F.TSRFDACT_ORG_ID) FLDSET_ID,
(C.DISPLAY_NAME||'||""||' '||""||'||R.SPECIES_NUMBER) CHR,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
R.VALUE_MEASURE VAL_MEASURE,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',RDESC.description_text,null) RDESC_DESC,
PV.FIELD_VALUE SMPL_FRAC,
rtrim(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
rtrim(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
rtrim(R.WT_BASIS_TYPE_NM) WT_BASIS,
rtrim(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
rtrim(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
LSPP.NAME LSPPNAME,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
ANLPR.NAME ANAME,
PROCEX.DESCRIPTION_TEXT PDESC,
rtrim(L.ID_CODE) LAB_ID,
L.NAME LAB_NAME,
rtrim(R.LAB_CERT_IND_CODE) LAB_CERT,
rtrim(R.LAB_BATCH_ID_CODE) LAB_BATCH,
```

```
DECODE(TO_CHAR(R.ANALYSIS_DATE, '||""||'MM/DD/YYYY'||""||'),
'||""||'01/01/0001'||""||', NULL, TO_CHAR(R.ANALYSIS_DATE,'||""||
'MM/DD/YYYY'||""||')) ADATE,
DECODE(TO_CHAR(R.ANALYSIS_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(R.ANALYSIS_TIME,'||""||'HH24
:MI:SS'||""||')) ATIME,
rtrim(R.ANALYSIS_TIME_ZONE) AZONE,
rtrim(DQL.MIN_QUANT_LIMIT) MIN_LIMIT,
rtrim(DQL.MAX_QUANT_LIMIT) MAX_LIMIT,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
DQL.DESCRIPTION_TEXT DQL_DESC,
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID) LBRMK_NAME,
rtrim(R.REF_PT_FROM_NAME) REF_FROM,
rtrim(R.REF_PT_TO_NAME) REF_TO,
rtrim(RCI.PARTICLE_SIZE_BASIS) PART_BASIS,
rtrim(R.REPL_ANALYSIS_NUM) REPL_NUM,
rtrim(R.PRECISION_AMT_TEXT) PRECISION,
RTRIM(R.CONF_LVL_PCT_MSR) CONF_MSR,
R.CONF_LVL_CORR_BIAS CORR_BIAS,
RTRIM(R.BIAS) BIAS,
R.DILUTION_IND_CODE DIL_CD,
R.RECOVERY_IND_CODE REC_CD,
R.CORRECTION_IND_CD CORR_CD
FROM
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSMALP     A,
TSMMAD     MAD_HD,
TSMMAD     MAD_HM,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSMPRMVL    PV,
TSRBIOPT    BIOPT,
TSMGNTXT    RDESC,
TSMGNTXT    RCMNT,
TSMGNTXT    PROCEX,
TSRRCI     RCI,
TSRANLPR                ANLPR,
TSRLSPP                         LSPP,
TSRLAB     L,
TSRDQL     DQL,
TSRUOM             RUOM,
TSRUOM     UDQ
WHERE
PS.TSMPROJ_IS_NUMBER                = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID           = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER                = PS.TSMSTATN_IS_NUMBER AND
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S.TSMSTATN_ORG_ID                    = PS.TSMSTATN_ORG_ID
AND F.TSRSTVST_IS_NUMBER             = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID                = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER             = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID                = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER              = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID                 = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER            = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID               = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER           = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                      = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                     = O.TSMORGAN_IS_NUMBER
AND S.TSMSTATN_IS_NUMBER             = A.TSMSTATN0IS_NUMBER
AND S.TSMSTATN_ORG_ID                = A.TSMSTATN0ORG_ID
AND A.TYPE_CODE = '||""||'*POINT OF RECORD'||""||'
AND A.GEOPSTNG_DATUM_CD              = MAD_HD.id_code
AND MAD_HD.category          = '||""||'HORIZONTAL'||""||'
AND MAD_HD.subcategory       = '||""||'DATUM'||""||'
AND A.GEOPSTNG_METHOD_CD             = MAD_HM.id_code
AND MAD_HM.category                  = '||""||'HORIZONTAL'||""||'
AND MAD_HM.subcategory       = '||""||'METHOD'||""||'
AND R.TSRFDACT_IS_NUMBER             = F.TSRFDACT_IS_NUMBER
AND R.TSRFDACT_ORG_ID                = F.TSRFDACT_ORG_ID
AND F.medium_type_name               = '||""||'Biological'||""||'
AND R.TSRCHAR_IS_NUMBER                      = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID                 = C.TSRCHAR_ORG_ID
AND F.TSRBIOPT_IS_NUMBER             = BIOPT.TSRBIOPT_IS_NUMBER(+)
AND F.TSRBIOPT_ORG_ID                = BIOPT.TSRBIOPT_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER             = RDESC.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+) = '||""||'DESCRIPT'||""||'
AND R.TSRRSULT_IS_NUMBER             = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+)  = '||""||'RSLTCMNT'||""||'
AND R.TSRRSULT_IS_NUMBER             = PROCEX.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = PROCEX.TSRRSULT_ORG_ID(+)
AND PROCEX.DESCRIPTION_NAME(+)               = '||""||'PROCEXCP'||""||'
AND R.TSRANLPR_IS_NUMBER             = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID                = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER              = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID                 = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER             = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = RCI.TSRRSULT_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER               = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID                  = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER             = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRUOM_IS_NUMBER               = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                  = RUOM.TSRUOM_ORG_ID(+)
```

Select Options: Organizations, Projects, Stations, Characteristics, Location Area, Activity Dates

Sort Sequence: None

Page Break: None.

Export Contents

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
	NAME	Org Name
TSMSTATN	IDENTIFICATION_CD	Station ID
	NAME	Station Name
TSRFDACT	START_DATE	Act Start
	START_TIME	N/A
	START_TIME_ZONE	N/A
TSRTRIP	ID_CODE	Trip ID
TSRSTVST	ID_NUMBER	Vst #
TSRFDACT (cont.)	ID_CODE	Activity ID
	REPLICATE_NUMBER	Rep #
	MEDIUM_TYPE_NAME	Act Medium
	TYPE_NAME	Act Type
	CATEGORY_TYPE_NAME	Act Category
	INTENT_TYPE_NAME	Act Intent
	COMMUNITY_NAME	Act Community
	QC_INDICATOR	QC Activity
TSRCHAR TSRFDACT (cont.)	DISPLAY_NAME SPECIES_NUMBER	Act Subj Taxon (concatenated with taxon)
TSRBIOPT	NAME	Biopart Name
TSMALP	POINT_NAME	Point Name
	LAT_DIRECTION GPS_LAT_DEGREE_MSR GPS_LATMINUTE_MSR w/ translation	Latitude
	LONG_DIRECTION GPS_LONG_DEG_MSR GPS_LONG_MIN_MSR w/ translation	Longitude
TSMMAD	DESCRIPTION	Horizontal Datum
		Geopositioning Method
TSRFDACT (cont.)	STOP_DATE	Act Stop
	STOP_TIME	N/A
	STOP_TIME_ZONE	N/A
	RELTV_DEPTH_NAME	Activity Rel Depth
	DEPTH_TO_ACTIVITY	Activity Depth

Table	Attribute	Column Name
	DEPTH_TO_ACT_UN_CD	Activity Depth Unit
	UPPER_DEPTH_TO_ACT	Activity Upper Depth
	LOWER_DEPTH_TO_ACT	Activity Lower Depth
	DEPTH_MSR_UNT_CD	Upr Lwr Depth Unit
TSRFDSET	ID_CODE	Field Sets
TSRCHAR (cont.)	DISPLAY_NAME	Characteristic Name
TSRRSULT	SPECIES_NUMBER	(concatenated with taxon)
	VALUE_TEXT	Res Val Text
	VALUE_MEASURE	Res Val
TSRUOM	SHORT_FORM_NAME	Res Unit
TSMGNTXT	DESCRIPTION_TEXT	Text Result
TSMPRMVL	SMPL_FRAC_TYPE_NM	Sampl Frac Type
TSRRSULT (cont.)	VALUE_TYPE_NAME	Res Type
	STATISTIC_TYPE_NM	Statistic Type
TSMGNTXT (cont.)	DESCRIPTION_TEXT	Result Comment
TSRRSULT (cont.)	VALUE_STATUS	Res Stat
	WT_BASIS_TYPE_NM	Weight
	TEMP_BASIS_LVL_NM	Temp
	DUR_BASIS_TYPE_NM	Duration
	FNCTIONAL_FEED_GRP	Feeding Group
	TAXON_POLLUTION	Pollution Tolerance
	TROPHIC_LEVEL	Trophic Level
TSMPRMVL (cont.)	FIELD_VALUE	Habit
		Voltinism
TSRCLDES	CELL_SHAPE_TYPE_NM	Cell Shape
	CELL_TYPE_NM	Cell Form
TSRLSPP	SOURCE_ACR	Samp Prep Src
	PREPARATION_ID	Samp Prep ID
	NAME	Samp Prep Name
TSRANLPR	SOURCE_ACR	An Proc Src
	PROCEDURE_ID	An Proc ID
	NAME	An Proc Name
TSMGNTXT (cont.)	DESCRIPTION	Anal Proc Exception
TSRLAB	ID_CODE	Lab ID
	NAME	Lab Name
TSRRSULT (cont.)	LAB_CERT_IND_CODE	Crt
	LAB_BATCH_ID_CODE	Lab Batch ID
	ANALYSIS_DATE	Anal Date
	ANALYSIS_TIME	N/A
	ANALYSIS_TIME_ZONE	N/A

Table	Attribute	Column Name
TSRDQL	MIN_QUANT_LIMIT	Lwr Quan Lmt
	MAX_QUANT_LIMIT	Upr Quan Lmt
	MIN_DETECT_LIMIT	Detectn Lmt
TSRUOM (cont.)	SHORT_FORM_NAME	Detectn Lmt Unit
TSRDQL (cont.)	DESCRIPTION_TEXT	Detection Lmt Desc
TSRLBRMK	SHORT_NAME	Lab Remarks
TSRRSULT (cont.)	REF_PT_FROM_NAME	Dist Meas From
	REF_PT_TO_NAME	Dist Meas To
TSRRCI	PARTICLE_SIZE_BASIS	Particle Size
TSRRSULT (cont.)	REPL_ANALYSIS_NUM	Repl Ct
	PRECISION_AMT_TEXT	Precision
	CONF_LVL_PCT_MSR	Conf Level (CL)
	CONF_LVL_CORR_BIAS	CL Corrected for Bias
	BIAS	Bias
	DILUTION_IND_CODE	Dilution Ind
	RECOVERY_IND_CODE	Recovery Ind
	CORRECTION_IND_CD	Correction Ind
TSRBRG	ID_CODE	BRG ID
	TYPE_NAME	Bio Group Type
TSRCHAR (cont.)	DISPLAY_NAME	Bio Group Subj Txn
TSRBRG (cont.)	SPECIES_NUMBER	(concatenated with taxon)
	TYPE_INDICATOR	P/B
	DESCRIPTION_TEXT	Bio Group Description
TSRCPV	SHORT_NAME	Group Desc Sex
	SHORT_NAME	Group Desc Lifestage
TSRBRGI	INDIVIDUAL_NUMBER	Ind #
TSRCHAR (cont.)	DISPLAY_NAME	Common Class Desc
TSRRCI (cont.)	PRIM_CLASS_DESC	Pri Cls Desc
	SEC_CLASS_DESC	Sec Cls Desc
	LOWER_BND_AMT	Lwr Bnd Amt
	UPPER_BND_AMT	Upr Bnd Amt
TSRUOM (cont.)	SHORT_FORM_NAME	Bio RCI Unit
TSRBRG (cont.)	SUMMARY_GRP_COUNT	# Grp
	VALUE_TYPE_NAME	BRG Cnt Type

Export: Results Multi-Taxon Population Census Export

Report Description: This tilde-delimited export file report provides information regarding Multi-Taxon Population Census results.

Activities without assigned Characteristics will not be shown.

Location Points are the Station's Point of Record.

Field Sets retrieves the first four assigned to each activity, and reports them concatenated together in a single column separated by commas.

Laboratory Remarks retrieves the first four assigned to each result, and reports them concatenated together in a single column separated by commas.

Select Logic:

MTPC.sql

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(T.ID_CODE) TRIP,
rtrim(V.ID_NUMBER) VISIT,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
F.MEDIUM_TYPE_NAME MEDIUM_TYPE,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.INTENT_TYPE_NAME INTENT_TYPE,
F.COMMUNITY_NAME COMM_NAME,
F.QC_INDICATOR QC,
A.POINT_NAME,
TO_CHAR(A.LAT_DEC_DEG_MSR,'||""||'99.9999999'||""||') LATITUDE,
TO_CHAR(A.LONG_DEC_DEG_MSR,'||""||'999.9999999'||""||') LONGITUDE,
MAD_HD.DESCRIPTION HD_DESC,
MAD_HM.DESCRIPTION HM_DESC,
DECODE(TO_CHAR(F.STOP_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.STOP_DATE,'||""||'M
M/DD/YYYY'||""||')) FSTP,
DECODE(TO_CHAR(F.STOP_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.STOP_TIME,'||""||'HH24:MI:S
S'||""||')) FSTPTIME,
RTRIM(F.STOP_TIME_ZONE) FSTPZONE,
RTRIM(F.RELTV_DEPTH_NAME) DEPTH_NAME,
```

```
RTRIM(F.DEPTH_TO_ACTIVITY) DEPTH_ACT,
RTRIM(F.DEPTH_TO_ACT_UN_CD) UN_CD,
rtrim(F.UPPER_DEPTH_TO_ACT) UPPER_ACT,
rtrim(F.LOWER_DEPTH_TO_ACT) LOWER_ACT,
rtrim(F.DEPTH_MSR_UNT_CD) DEPTH_UNT,
fldset(F.TSRFDACT_IS_NUMBER,F.TSRFDACT_ORG_ID) FLDSET_ID,
(C.DISPLAY_NAME||'||""||' '||""||'||R.SPECIES_NUMBER) CHR,
RTRIM(R.VALUE_TEXT) VAL_TEXT,
R.VALUE_MEASURE VAL_MEASURE,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
rtrim(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
rtrim(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
rtrim(R.FNCTIONAL_FEED_GRP) FEED_GRP,
rtrim(R.TAXON_POLLUTION) TAXON,
rtrim(R.TROPHIC_LEVEL) TROPHIC,
PV0.FIELD_VALUE HABIT,
PV1.FIELD_VALUE VOLTINISM,
DECODE(rtrim(CLDES.CELL_SHAPE_TYPE_NM),'||""||'<Spaces>'||""||',null,rtrim(CLD
ES.CELL_SHAPE_TYPE_NM)) CELL_SHAPE,
DECODE(rtrim(CLDES.CELL_TYPE_NM),'||""||'<Spaces>'||""||',null,rtrim(CLDES.CELL
_TYPE_NM)) CELL_TYPE,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
LSPP.NAME LSPPNAME,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
ANLPR.NAME ANAME,
PROCEX.DESCRIPTION_TEXT PDESC,
rtrim(L.ID_CODE) LAB_ID,
L.NAME LAB_NAME,
rtrim(R.LAB_CERT_IND_CODE) LAB_CERT,
rtrim(R.LAB_BATCH_ID_CODE) LAB_BATCH,
DECODE(TO_CHAR(R.ANALYSIS_DATE, '||""||'MM/DD/YYYY'||""||'),
'||""||'01/01/0001'||""||', NULL, TO_CHAR(R.ANALYSIS_DATE,'||""||
'MM/DD/YYYY'||""||')) ADATE,
DECODE(TO_CHAR(R.ANALYSIS_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(R.ANALYSIS_TIME,'||""||'HH24
:MI:SS'||""||')) ATIME,
rtrim(R.ANALYSIS_TIME_ZONE) AZONE,
rtrim(DQL.MIN_QUANT_LIMIT) MIN_LIMIT,
rtrim(DQL.MAX_QUANT_LIMIT) MAX_LIMIT,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
DQL.DESCRIPTION_TEXT DQL_DESC,
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID) LBRMK_NAME,
R.DILUTION_IND_CODE DIL_CD,
R.RECOVERY_IND_CODE REC_CD,
R.CORRECTION_IND_CD CORR_CD,
RTRIM(BRG.ID_CODE) BRG_CODE,
BRG.TYPE_NAME BRG_NAME,
BRG.DESCRIPTION_TEXT BRG_DESC
FROM
```

```
TSRCHAR                 C,
TSRRSULT                R,
TSRFDACT                F,
TSMORGAN                O,
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN                S,
TSMALP      A,
TSMMAD      MAD_HD,
TSMMAD      MAD_HM,
TSRTRIP                         T,
TSRSTVST                V,
TSRTSA                          TSA,
TSRBRG      BRG,
TSMGNTXT    RCMNT,
TSMGNTXT    PROCEX,
TSRANLPR                ANLPR,
TSRLSPP                         LSPP,
TSRLAB      L,
TSRDQL      DQL,
TSRUOM      UDQ,
TSRUOM              RUOM,
TSMPRMVL    PV0,
TSMPRMVL    PV1,
TSRCLDES    CLDES
WHERE
PS.TSMPROJ_IS_NUMBER                = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID           = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER                = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID                   = PS.TSMSTATN_ORG_ID
AND F.TSRSTVST_IS_NUMBER            = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID               = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER            = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID               = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER             = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID                = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER           = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID              = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER          = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                     = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                    = O.TSMORGAN_IS_NUMBER
AND S.TSMSTATN_IS_NUMBER            = A.TSMSTATN0IS_NUMBER
AND S.TSMSTATN_ORG_ID               = A.TSMSTATN0ORG_ID
AND A.TYPE_CODE = '||""||'*POINT OF RECORD'||""||'
AND A.GEOPSTNG_DATUM_CD             = MAD_HD.id_code
AND MAD_HD.category             = '||""||'HORIZONTAL'||""||'
AND MAD_HD.subcategory          = '||""||'DATUM'||""||'
AND A.GEOPSTNG_METHOD_CD            = MAD_HM.id_code
AND MAD_HM.category                 = '||""||'HORIZONTAL'||""||'
AND MAD_HM.subcategory          = '||""||'METHOD'||""||'
AND BRG.TSRBRG_IS_NUMBER            = R.TSRBRG_IS_NUMBER
AND BRG.TSRBRG_ORG_ID               = R.TSRBRG_ORG_ID
AND BRG.TYPE_NAME                   = '||""||'Multi-Taxon Population Census'||""||'
AND BRG.TSRFDACT_IS_NUMBER          = F.TSRFDACT_IS_NUMBER
```

```
AND BRG.TSRFDACT_ORG_ID                    = F.TSRFDACT_ORG_ID
AND R.TSRCHAR_IS_NUMBER                    = C.TSRCHAR_IS_NUMBER
AND R.TSRCHAR_ORG_ID               = C.TSRCHAR_ORG_ID
AND R.TSRRSULT_IS_NUMBER           = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID              = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+) = '||""||'RSLTCMNT'||""||'
AND R.TSRRSULT_IS_NUMBER           = PROCEX.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID              = PROCEX.TSRRSULT_ORG_ID(+)
AND PROCEX.DESCRIPTION_NAME(+)             = '||""||'PROCEXCP'||""||'
AND R.TSRANLPR_IS_NUMBER           = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID              = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER            = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID               = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER             = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID                = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER           = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID              = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSMPRMVL0IS_NUMBER = PV0.TSMPRMVL_IS_NUMBER(+)
AND R.TSMPRMVL1IS_NUMBER = PV1.TSMPRMVL_IS_NUMBER(+)
AND R.TSRRSULT_IS_NUMBER           = CLDES.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID              = CLDES.TSRRSULT_ORG_ID(+)
AND R.TSRUOM_IS_NUMBER             = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                = RUOM.TSRUOM_ORG_ID(+)
```

Select Options: Organizations, Projects, Stations, Characteristics, Location Area, Activity Dates

Sort Sequence: None

Page Break: None.

Export Contents

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
	NAME	Org Name
TSMSTATN	IDENTIFICATION_CD	Station ID
	NAME	Station Name
TSRFDACT	START_DATE	Act Start
	START_TIME	N/A
	START_TIME_ZONE	N/A
TSRTRIP	ID_CODE	Trip ID
TSRSTVST	ID_NUMBER	Vst #
TSRFDACT (cont.)	ID_CODE	Activity ID
	REPLICATE_NUMBER	Rep #
	MEDIUM_TYPE_NAME	Act Medium

Table	Attribute	Column Name
	TYPE_NAME	Act Type
	CATEGORY_TYPE_NAME	Act Category
	INTENT_TYPE_NAME	Act Intent
	COMMUNITY_NAME	Act Community
	QC_INDICATOR	QC Activity
TSMALP	POINT_NAME	Point Name
	LAT_DIRECTION GPS_LAT_DEGREE_MSR GPS_LATMINUTE_MSR w/ translation	Latitude
	LONG_DIRECTION GPS_LONG_DEG_MSR GPS_LONG_MIN_MSR w/ translation	Longitude
TSMMAD	DESCRIPTION	Horizontal Datum
		Geopositioning Method
TSRFDACT (cont.)	STOP_DATE	Act Stop
	STOP_TIME	N/A
	STOP_TIME_ZONE	N/A
	RELTV_DEPTH_NAME	Activity Rel Depth
	DEPTH_TO_ACTIVITY	Activity Depth
	DEPTH_TO_ACT_UN_CD	Activity Depth Unit
	UPPER_DEPTH_TO_ACT	Activity Upper Depth
	LOWER_DEPTH_TO_ACT	Activity Lower Depth
	DEPTH_MSR_UNT_CD	Upr Lwr Depth Unit
TSRFDSET	ID_CODE	Field Sets
TSRCHAR	DISPLAY_NAME	Characteristic Name
TSRRSULT	SPECIES_NUMBER	(concatenated with taxon)
	VALUE_TEXT	Res Val Text
	VALUE_MEASURE	Res Val
TSRUOM	SHORT_FORM_NAME	Res Unit
TSRRSULT (cont.)	VALUE_TYPE_NAME	Res Type
	STATISTIC_TYPE_NM	Statistic Type
TSMGNTXT	DESCRIPTION_TEXT	Result Comment
TSRRSULT (cont.)	VALUE_STATUS	Res Stat
	FNCTIONAL_FEED_GRP	Feeding Group
	TAXON_POLLUTION	Pollution Tolerance
	TROPHIC_LEVEL	Trophic Level
TSMPRMVL	FIELD_VALUE	Habit
		Voltinism
TSRCLDES	CELL_SHAPE_TYPE_NM	Cell Shape
	CELL_TYPE_NM	Cell Form

Table	Attribute	Column Name
TSRLSPP	SOURCE_ACR	Samp Prep Src
	PREPARATION_ID	Samp Prep ID
	NAME	Samp Prep Name
TSRANLPR	SOURCE_ACR	An Proc Src
	PROCEDURE_ID	An Proc ID
	NAME	An Proc Name
TSMGNTXT (cont.)	DESCRIPTION	Anal Proc Exception
TSRLAB	ID_CODE	Lab ID
	NAME	Lab Name
TSRRSULT (cont.)	LAB_CERT_IND_CODE	Crt
	LAB_BATCH_ID_CODE	Lab Batch ID
	ANALYSIS_DATE	Anal Date
	ANALYSIS_TIME	N/A
	ANALYSIS_TIME_ZONE	N/A
TSRDQL	MIN_QUANT_LIMIT	Lwr Quan Lmt
	MAX_QUANT_LIMIT	Upr Quan Lmt
	MIN_DETECT_LIMIT	Detectn Lmt
TSRUOM (cont.)	SHORT_FORM_NAME	Detectn Lmt Unit
TSRDQL (cont.)	DESCRIPTION_TEXT	Detection Lmt Desc
TSRLBRMK	SHORT_NAME	Lab Remarks
TSRRSULT (cont.)	DILUTION_IND_CODE	Dilution Ind
	RECOVERY_IND_CODE	Recovery Ind
	CORRECTION_IND_CD	Correction Ind
TSRBRG	ID_CODE	BRG ID
	TYPE_NAME	Bio Group Type
	DESCRIPTION_TEXT	Bio Group Description

Export: Results Habitat Assessment Export

Report Description: This tilde-delimited export file report provides information regarding results obtained for Habitat Assessment activities including those obtained with system-defined and user-defined characteristics.

Activities without assigned Characteristics will not be shown.

Location Points are the Station's Point of Record.

Field Sets retrieves the first four Field Sets assigned to each activity, and reports them concatenated with a comma separator in a single column.

Laboratory Remarks retrieves the first four Laboratory Remarks assigned to each result, and reports them concatenated with a comma separator in a single column.

Select Logic:

Habitat.sql

```
SELECT /*+ index(tsrchar ichar01) */ DISTINCT
RTRIM(O.ORG_ID) ORG_ID,
O.NAME ORGANIZATION,
RTRIM(S.IDENTIFICATION_CD) STN_CD,
S.NAME STN_NAME,
DECODE(TO_CHAR(F.START_DATE, '||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',
NULL,TO_CHAR(F.START_DATE,'||""|| 'MM/DD/YYYY'||""||')) FSTRT,
DECODE(TO_CHAR(F.START_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.START_TIME,'||""||'HH24:MI:
SS'||""||')) FSTIME,
RTRIM(F.START_TIME_ZONE) FSTZONE,
rtrim(T.ID_CODE) TRIP,
rtrim(V.ID_NUMBER) VISIT,
rtrim(F.ID_CODE) FDID,
rtrim(F.REPLICATE_NUMBER) REP_NUM,
RTRIM(F.TYPE_NAME) FTYPE_NAME,
F.CATEGORY_TYPE_NAME CAT_TYPE,
F.QC_INDICATOR QC,
A.POINT_NAME,
TO_CHAR(A.LAT_DEC_DEG_MSR,'||""||'99.9999999'||""||') LATITUDE,
TO_CHAR(A.LONG_DEC_DEG_MSR,'||""||'999.9999999'||""||') LONGITUDE,
MAD_HD.DESCRIPTION HD_DESC,
MAD_HM.DESCRIPTION HM_DESC,
DECODE(TO_CHAR(F.STOP_DATE,
'||""||'MM/DD/YYYY'||""||'),'||""||'01/01/0001'||""||',NULL,TO_CHAR(F.STOP_DATE,'||""||'M
M/DD/YYYY'||""||')) FSTP,
DECODE(TO_CHAR(F.STOP_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(F.STOP_TIME,'||""||'HH24:MI:S
S'||""||')) FSTPTIME,
RTRIM(F.STOP_TIME_ZONE) FSTPZONE,
fldset(F.TSRFDACT_IS_NUMBER,F.TSRFDACT_ORG_ID) FLDSET_ID,
NVL(C.DISPLAY_NAME,HCSC.CHARACTERSTC_NAME) CHR,
```

```
RTRIM(R.VALUE_TEXT) VAL_TEXT,
R.VALUE_MEASURE VAL_MEASURE,
RTRIM(RUOM.SHORT_FORM_NAME) UOM,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',RDESC.description_text,null) RDESC_DESC,
PV.FIELD_VALUE SMPL_FRAC,
rtrim(R.VALUE_TYPE_NAME) VAL_TYPE_NAME,
rtrim(R.STATISTIC_TYPE_NM) STAT_TYPE,
decode(c.d_scr_type_cd,'||""||'TEXT'||""||',null,RCMNT.description_text) RCMNT_DESC,
R.VALUE_STATUS VAL_STAT,
rtrim(R.WT_BASIS_TYPE_NM) WT_BASIS,
rtrim(R.TEMP_BASIS_LVL_NM) TEMP_BASIS,
rtrim(R.DUR_BASIS_TYPE_NM) DUR_BASIS,
RTRIM(LSPP.SOURCE_ACR) SOURCE_ACR,
RTRIM(LSPP.PREPARATION_ID) LSPP_ID,
LSPP.NAME LSPPNAME,
RTRIM(ANLPR.SOURCE_ACR) ASOURCE,
RTRIM(ANLPR.PROCEDURE_ID) APROC_ID,
ANLPR.NAME ANAME,
PROCEX.DESCRIPTION_TEXT PDESC,
rtrim(L.ID_CODE) LAB_ID,
L.NAME LAB_NAME,
rtrim(R.LAB_CERT_IND_CODE) LAB_CERT,
rtrim(R.LAB_BATCH_ID_CODE) LAB_BATCH,
DECODE(TO_CHAR(R.ANALYSIS_DATE, '||""||'MM/DD/YYYY'||""||'),
'||""||'01/01/0001'||""||', NULL, TO_CHAR(R.ANALYSIS_DATE,'||""||
'MM/DD/YYYY'||""||')) ADATE,
DECODE(TO_CHAR(R.ANALYSIS_TIME,'||""||
'HH24:MI:SS'||""||'),'||""||'00:00:00'||""||',NULL,TO_CHAR(R.ANALYSIS_TIME,'||""||'HH24
:MI:SS'||""||')) ATIME,
rtrim(R.ANALYSIS_TIME_ZONE) AZONE,
rtrim(DQL.MIN_QUANT_LIMIT) MIN_LIMIT,
rtrim(DQL.MAX_QUANT_LIMIT) MAX_LIMIT,
rtrim(DQL.MIN_DETECT_LIMIT) MIN_DETECT,
rtrim(UDQ.SHORT_FORM_NAME) DETECT_UNIT,
DQL.DESCRIPTION_TEXT DQL_DESC,
flbrmk(R.TSRRSULT_IS_NUMBER,R.TSRRSULT_ORG_ID) LBRMK_NAME,
rtrim(R.REF_PT_FROM_NAME) REF_FROM,
rtrim(R.REF_PT_TO_NAME) REF_TO,
rtrim(RCI.PARTICLE_SIZE_BASIS) PART_BASIS,
rtrim(R.REPL_ANALYSIS_NUM) REPL_NUM,
rtrim(R.PRECISION_AMT_TEXT) PRECISION,
RTRIM(R.CONF_LVL_PCT_MSR) CONF_MSR,
R.CONF_LVL_CORR_BIAS CORR_BIAS,
RTRIM(R.BIAS) BIAS,
R.DILUTION_IND_CODE DIL_CD,
R.RECOVERY_IND_CODE REC_CD,
R.CORRECTION_IND_CD CORR_CD,
HCSC.DESCRIPTION_TEXT HDESC_TEXT
FROM
TSRCHAR          C,
TSRRSULT         R,
TSRFDACT         F,
TSRHCSC                HCSC,
TSMORGAN         O,
```

```
TSMPSA                          PS,
TSMPROJ                         J,
TSMSTATN            S,
TSMALP     A,
TSMMAD     MAD_HD,
TSMMAD     MAD_HM,
TSRTRIP                         T,
TSRSTVST            V,
TSRTSA                          TSA,
TSMGNTXT   RDESC,
TSMGNTXT   RCMNT,
TSMGNTXT   PROCEX,
TSRANLPR            ANLPR,
TSRLSPP                         LSPP,
TSRLAB     L,
TSRDQL     DQL,
TSRRCI     RCI,
TSRUOM     UDQ,
TSRUOM          RUOM,
TSMPRMVL   PV
WHERE
PS.TSMPROJ_IS_NUMBER            = J.TSMPROJ_IS_NUMBER AND
PS.TSMPROJ_ORG_ID           = J.TSMPROJ_ORG_ID AND
S.TSMSTATN_IS_NUMBER            = PS.TSMSTATN_IS_NUMBER AND
S.TSMSTATN_ORG_ID               = PS.TSMSTATN_ORG_ID
AND R.TSRFDACT_IS_NUMBER = F.TSRFDACT_IS_NUMBER
AND R.TSRFDACT_ORG_ID   = F.TSRFDACT_ORG_ID
AND F.TSRSTVST_IS_NUMBER        = V.TSRSTVST_IS_NUMBER
AND F.TSRSTVST_ORG_ID           = V.TSRSTVST_ORG_ID
AND V.TSMSTATN_IS_NUMBER        = TSA.TSMSTATN_IS_NUMBER
AND V.TSMSTATN_ORG_ID           = TSA.TSMSTATN_ORG_ID
AND V.TSRTRIP_IS_NUMBER         = TSA.TSRTRIP_IS_NUMBER
AND V.TSRTRIP_ORG_ID            = TSA.TSRTRIP_ORG_ID
AND TSA.TSRTRIP_IS_NUMBER       = T.TSRTRIP_IS_NUMBER
AND TSA.TSRTRIP_ORG_ID          = T.TSRTRIP_ORG_ID
AND TSA.TSMSTATN_IS_NUMBER      = S.TSMSTATN_IS_NUMBER
AND TSA.TSMSTATN_ORG_ID                 = S.TSMSTATN_ORG_ID
AND S.TSMORGAN_IS_NUMBER                = O.TSMORGAN_IS_NUMBER
AND S.TSMSTATN_IS_NUMBER        = A.TSMSTATN0IS_NUMBER
AND S.TSMSTATN_ORG_ID           = A.TSMSTATN0ORG_ID
AND A.TYPE_CODE = '||""||'*POINT OF RECORD'||""||'
AND A.GEOPSTNG_DATUM_CD         = MAD_HD.id_code
AND MAD_HD.category         = '||""||'HORIZONTAL'||""||'
AND MAD_HD.subcategory      = '||""||'DATUM'||""||'
AND A.GEOPSTNG_METHOD_CD        = MAD_HM.id_code
AND MAD_HM.category             = '||""||'HORIZONTAL'||""||'
AND MAD_HM.subcategory      = '||""||'METHOD'||""||'
AND F.CATEGORY_TYPE_NAME  LIKE '||""||'%Habitat%'||""||'
AND R.TSRCHAR_IS_NUMBER                 = C.TSRCHAR_IS_NUMBER(+)
AND R.TSRCHAR_ORG_ID            = C.TSRCHAR_ORG_ID(+)
AND R.TSRHCSC_IS_NUMBER                 =
HCSC.TSRHCSC_IS_NUMBER(+)
AND R.TSRHCSC_ORG_ID            = HCSC.TSRHCSC_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER        = RDESC.TSRRSULT_IS_NUMBER(+)
```

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AND R.TSRRSULT_ORG_ID                = RDESC.TSRRSULT_ORG_ID(+)
AND RDESC.DESCRIPTION_NAME(+) = '||""||'DESCRIPT'||""||'
AND R.TSRRSULT_IS_NUMBER             = RCMNT.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = RCMNT.TSRRSULT_ORG_ID(+)
AND RCMNT.DESCRIPTION_NAME(+) = '||""||'RSLTCMNT'||""||'
AND R.TSRRSULT_IS_NUMBER             = PROCEX.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = PROCEX.TSRRSULT_ORG_ID(+)
AND PROCEX.DESCRIPTION_NAME(+)            = '||""||'PROCEXCP'||""||'
AND R.TSRANLPR_IS_NUMBER             = ANLPR.TSRANLPR_IS_NUMBER(+)
AND R.TSRANLPR_ORG_ID                = ANLPR.TSRANLPR_ORG_ID(+)
AND R.TSRLSPP_IS_NUMBER              = LSPP.TSRLSPP_IS_NUMBER(+)
AND R.TSRLSPP_ORG_ID                 = LSPP.TSRLSPP_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER             = RCI.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = RCI.TSRRSULT_ORG_ID(+)
AND R.TSRLAB_IS_NUMBER               = L.TSRLAB_IS_NUMBER(+)
AND R.TSRLAB_ORG_ID                  = L.TSRLAB_ORG_ID(+)
AND R.TSRRSULT_IS_NUMBER             = DQL.TSRRSULT_IS_NUMBER(+)
AND R.TSRRSULT_ORG_ID                = DQL.TSRRSULT_ORG_ID(+)
AND DQL.TSRUOM_IS_NUMBER = UDQ.TSRUOM_IS_NUMBER(+)
AND DQL.TSRUOM_ORG_ID = UDQ.TSRUOM_ORG_ID(+)
AND R.TSMPRMVL_IS_NUMBER = PV.TSMPRMVL_IS_NUMBER(+)
AND R.TSRUOM_IS_NUMBER               = RUOM.TSRUOM_IS_NUMBER(+)
AND R.TSRUOM_ORG_ID                  = RUOM.TSRUOM_ORG_ID(+)
```

Select Options: Organizations, Projects, Stations, Characteristics, Location Area, Activity Dates

Sort Sequence: None

Page Break: None.

Export Contents

Table	Attribute	Column Name
TSMORGAN	ORG_ID	Org ID
	NAME	Org Name
TSMSTATN	IDENTIFICATION_CD	Station ID
	NAME	Station Name
TSRFDACT	START_DATE	Act Start
	START_TIME	N/A
	START_TIME_ZONE	N/A
TSRTRIP	ID_CODE	Trip ID
TSRSTVST	ID_NUMBER	Vst #
TSRFDACT (cont.)	ID_CODE	Activity ID
	REPLICATE_NUMBER	Rep #
	TYPE_NAME	Act Type
	CATEGORY_TYPE_NAME	Act Category
	QC_INDICATOR	QC Activity

Table	Attribute	Column Name
TSMALP	POINT_NAME	Point Name
	LAT_DIRECTION GPS_LAT_DEGREE_MSR GPS_LATMINUTE_MSR w/ translation	Latitude
	LONG_DIRECTION GPS_LONG_DEG_MSR GPS_LONG_MIN_MSR w/ translation	Longitude
TSMMAD	DESCRIPTION	Horizontal Datum
		Geopositioning Method
TSRFDACT (cont.)	STOP_DATE	Act Stop
	STOP_TIME	N/A
	STOP_TIME_ZONE	N/A
TSRFDSET	ID_CODE	Field Sets
TSRCHAR (cont.) or TSRHCSC	DISPLAY_NAME or CHARACTERISTIC_NAME	Characteristic Name
TSRRSULT	VALUE_TEXT	Res Val Text
	VALUE_MEASURE	Res Val
TSRUOM	SHORT_FORM_NAME	Res Unit
TSMGNTXT	DESCRIPTION_TEXT	Text Result
TSMPRMVL	SMPL_FRAC_TYPE_NM	Sampl Frac Type
TSRRSULT (cont.)	VALUE_TYPE_NAME	Res Type
	STATISTIC_TYPE_NM	Statistic Type
TSMGNTXT (cont.)	DESCRIPTION_TEXT	Result Comment
TSRRSULT (cont.)	VALUE_STATUS	Res Stat
	WT_BASIS_TYPE_NM	Weight
	TEMP_BASIS_LVL_NM	Temp
	DUR_BASIS_TYPE_NM	Duration
TSRLSPP	SOURCE_ACR	Samp Prep Src
	PREPARATION_ID	Samp Prep ID
	NAME	Samp Prep Name
TSRANLPR	SOURCE_ACR	An Proc Src
	PROCEDURE_ID	An Proc ID
	NAME	An Proc Name
TSMGNTXT (cont.)	DESCRIPTION	Anal Proc Exception
TSRLAB	ID_CODE	Lab ID
	NAME	Lab Name
TSRRSULT (cont.)	LAB_CERT_IND_CODE	Crt
	LAB_BATCH_ID_CODE	Lab Batch ID
	ANALYSIS_DATE	Anal Date
	ANALYSIS_TIME	N/A

Table	Attribute	Column Name
	ANALYSIS_TIME_ZONE	N/A
TSRDQL	MIN_QUANT_LIMIT	Lwr Quan Lmt
	MAX_QUANT_LIMIT	Upr Quan Lmt
	MIN_DETECT_LIMIT	Detectn Lmt
TSRUOM (cont.)	SHORT_FORM_NAME	Detectn Lmt Unit
TSRDQL (cont.)	DESCRIPTION_TEXT	Detection Lmt Desc
TSRLBRMK	SHORT_NAME	Lab Remarks
TSRRSULT (cont.)	REF_PT_FROM_NAME	Dist Meas From
	REF_PT_TO_NAME	Dist Meas To
TSRRCI	PARTICLE_SIZE_BASIS	Particle Size
TSRRSULT (cont.)	REPL_ANALYSIS_NUM	Repl Ct
	PRECISION_AMT_TEXT	Precision
	CONF_LVL_PCT_MSR	Conf Level (CL)
	CONF_LVL_CORR_BIAS	CL Corrected for Bias
	BIAS	Bias
	DILUTION_IND_CODE	Dilution Ind
	RECOVERY_IND_CODE	Recovery Ind
	CORRECTION_IND_CD	Correction Ind
TSRHCSC	DESCRIPTION_TEXT	Habitat Class Desc