AMENDMENT NO. 02

Date: June 2, 2015

Project: Dry Dock #3 Pump Well Repairs
Portsmouth Naval Shipyard
Kittery, Maine
eProjects Work Order No.: 1332591
Construction Contract No.: N40085-15-C-6109

This Amendment is issued prior to receipt of the bids and does hereby become a part of the Contract Documents, and in case of conflict, it shall supersede original project manual and drawings.

The work of the Amendment shall comply with all contract requirements including Division 00 and 01 specifications and the following specific items noted.

Each bidder shall be responsible for issuing information contained herein to sub-contractors and suppliers to ensure that his/her proposal covers all work required by the Contract Documents including this Amendment.

SUMMARY OF CHANGES

DRAWINGS

1. **G-001**
   a. **REPLACE** drawing with attached. Signature block has been revised.

2. **G-002**
   a. **ADD** the following to the List of Drawings: "X-101; 12686335; DD3-14-726; DREDGING – OPTION 5."

3. **G-005**
   a. **REPLACE** drawing with attached. Truck route and access requirements have been modified.

4. **G-006**
   a. **REPLACE** drawing with attached. Layout and access requirements have been modified.

5. **G-101**
   a. Detail "SITE LAYOUT SKETCH", under label for 'Exist Berth 14' **ADD** label, "See Contracting Officer for most recent Hydrographic Data".

6. **SD201**
   a. **REPLACE** drawing with attached. Location of dewatering tunnel has been corrected. No effect on demolition work.

7. **S-102**
   a. Note 1, between the words 'steel' and 'prior' **INSERT** "using non-destructive means, e.g. Ferroscan, GPR, or pachometer."
   b. Note 1, **ADD** the following to the end of the note, "Obtain approval of rebar locations prior to coring."

8. **S-201**
   a. Spall Repair Option 9 Notes; Note 2, **ADD** the following to the end of the note: "Assume 3 weeks will be available for this work."

9. **S-202**
   a. **REPLACE** drawing with attached. Location of dewatering tunnel has been corrected, sheeting changed to surround tunnel.

10. **S-506**
    a. Multiface spall repair notes; Note 2, between the words 'extend' and '2', **INSERT** the following "a minimum of"

11. **X-101 (Option 5)**
    a. **ADD** attached drawing describing dredge area.

12. **AE501**
    a. **ADD** General Sheet Note 1, "Handrails and railings, except at the spiral stair, shall meet applicable OSHA requirements. If there are any inconsistencies between the drawings and details and applicable OSHA requirements notify the Contracting Officer; the OSHA standards shall govern.
    b. **ADD** general sheet note 2; "Where 1-1/2" is cited as pipe diameter **ADD** "OD."
    c. Detail C5 **ADD** Label "1-1/2" OD" after "SS" and before "Railing."

13. **MD102**
    a. **ADD** to Removal Key Note 2, "Replace screen and perform operational test."
    b. **ADD** to Removal Key Note 4, "Replace screen and perform operational test."

14. **M-301**
    a. Key Note 8, **ADD**, "All pipe supports shall be stainless steel with stainless steel anchors. Pipe supports shall be removable to allow for pipe and fitting replacement/repair."
    b. Temporary Drainage Pump/Schedule (Option 1):
       1) **REPLACE** "Sump Pit" with "Dry Dock Sump (two locations)."
       2) In 'Type' Column, **INSERT** "Submersible"
       3) In 'GPM' Column, **INSERT** "1000"
       4) In 'Total Head' Column, **INSERT** "60 feet"
       5) In HP Column, **INSERT** "minimum of 27"
       6) In Basis of Design Column, **INSERT** "Flygt model 2670-228"

7) **ADD** Note 2, "Provide permanently installed piping in the dock and non-collapsible hose to connect the pump to the vertical pipe and to the vertical pipe at the deck coping level to the river."

15. M-601

a. In Dehumidifier Schedule **ADD** note for DH-6 (Renamed DH-3), "Replace screen and perform operational test."
b. In Dehumidifier Schedule **ADD** note for DH-5, "Replace screen and perform operational test."

16. E-001

a. **REPLACE** "sequencing notes" with attached "Electrical Sequencing Report" dated June 2, 2015

SPECIFICATIONS

1. Section 00 41 00, Bid Schedules

a. Replace Specification with attached. Language for Option 5 was revised.

2. Section 01 11 00, Summary of Work

a. **ADD** Paragraph 1.3 Submittals as follows:

"1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for Contractor Quality Control approval. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Work Sequencing and Preparation Plan; G"

b. Paragraph 1.3.1, Project Description, Option 5 – **REVISE** as follows:

"Option 5: Completion of maintenance dredging contract at entry to Dry Dock #3."

c. Paragraph 1.4, Project Sequencing Requirements – **ADD** the following:

"Provide Work Sequencing and Preparation Plan indicating how the work is to be accomplished and incorporating Government directives. The intent of this Plan is for the Contractor to show the Government that a complete understanding of the project requirements are understood by the Contractor and his/her subcontractors. The Plan shall be carefully prepared and shall include every aspect of the project and how it is to be accomplished with an absolute minimum of disruption to Government operations in and around Dry Dock #3. Of the utmost importance is the safety and security of adjacent submarine overhaul operations. No work

may begin on the project until this plan is reviewed and approved by the Government."

d. Paragraph 1.4, No. 7 – **ADD** the following to the end of this paragraph:
"The existing auxiliary seawater (ASW) pumps in the existing north altar pit must remain operational throughout the construction project. These pumps are fed from the Dry Dock #3 Pump Well."

3. Reference EM 385-1-1

a. **REVISE** date throughout project specifications to "(2014)".

4. Section 01 33 00, Submittal Procedures

a. Paragraph 1.5.6 – **REVISE** to read as follows:
"Submit two (2) hard copies and two (2) pdf copies on CD-Rom of O&M data to the Contracting Officer for review and approval."

5. Section 01 45 00.00 20, Quality Control (PWD ME)

a. Paragraph 1.5.5, QC Specialists Duties and Qualifications – **ADD** the following:

Main Dewatering Pump Overhaul Inspector / five years minimum	Overhaul and Refurbishment of Existing Vertical Turbine Main Dewatering Pumps and Motors	Minimum of three times a week during pump and motor overhaul and refurbishment and full time during testing.

b. Paragraph 3.2, Critical Submittal Process – **REVISE** listing as follows:

"a. Anchor installation and testing.
b. Concrete spall repairs.
c. Concrete mix design.
d. Concrete placement plan.
e. FRP design and installation.
f. Joint repair.
g. Main dewatering pump and motor overhaul and refurbishment.
h. Electrical upgrades, temporary services and installation."

6. **Section 01 57 19.00 22, Temporary Environmental Controls – Portsmouth Naval Shipyard (PWD ME)**

   a. Paragraph 1.4.1 – **REVISE** website address to the following:
   "http://environmentaltraining.ecatts.com/start"

   b. Paragraph 3.1.2 – **REVISE** to read as follows:

   "The approved State and Federal permits for this project include the following:

   1. Coastal Zone Management Act.
   2. MEDEP Site Location of Development Permit Modification (SLDA).
   3. Natural Resource Protection Act Permit (NRPA).
   4. Army Corps of Engineers.

   Copies of the approved permit(s) shall be provided by the Government upon receipt."

7. **Section 01 62 35, Recycled/Recovery/Biobased Materials**

   a. **DELETE** section in its entirety and all references to it throughout the project specifications.

8. **Section 01 78 00.00 22, Closeout Submittals (PWD ME)**

   a. Paragraph 1.2 – **REVISE** SD-10 as follows:
   "SD-10 Operation and Maintenance Data
   Submit Operation and Maintenance Manuals; G in accordance with paragraph entitled, "Operation and Maintenance Manuals," of this section. Submit two (2) hard copies, and two (2) pdf copies on CD-Rom.''

   b. Paragraph 1.9 – **REVISE** as follows: **CHANGE** "6 copies" to "two (2) hard copies and two (2) pdf copies on CD-Rom."

9. **Section 01 91 13, General Commissioning Requirements (PWD ME)**

   a. Paragraph 1.10, Commissioning Scope – **REVISE** listing as follows:
   "Dehumidifiers
   Heating Coils
   Exhaust and Supply Fans
   Controls
   Piping Systems
   Ductwork Systems
   Lighting Fixtures and Controls
   Fire Alarm System Interaction with the HVAC and Lighting Control Systems"

10. **Section 06 10 00, Rough Carpentry**

   a. Paragraph 1.2 – **DELETE** "SD-03 Product Data."

11. Section 26 20 00, Interior Distribution System

a. Paragraph 2.11.3, (Panelboard) Circuit Breakers– **ADD** the following sentence to the end of the paragraph:

"Circuit breakers shall be bolt-on type."

b. Paragraph 2.20, Warning Signs– in first sentence, **REPLACE** "NFPA 70E" with "UFC 3-560-01".

c. Paragraph 3.1.10, Grounding and Bonding – **ADD** the following sentence to the end of the paragraph:

"Bond electrical boxes with electrical whips (pigtails) to screw terminals located in the boxes. Do not rely solely on wiring device yokes for bonding."

d. Paragraph 3.5.4, Grounding System Test – **REPLACE** the first sentence of the paragraph with the following:

"Test grounding system to ensure continuity."

12. Section 28 31 63.00 20, Analog/Addressable Interior Fire Alarm System

a. Paragraph 2.2.9 **REVISE** the first sentence to read as follows:

"Provide a complete control panel fully enclosed in a lockable stainless steel, NEMA 4X enclosure as specified herein."

b. Paragraph 2.2.9.1 **REVISE** the last sentence to read as follows:

"The cabinet shall be provided in a sturdy stainless steel, NEMA 4X housing, complete with back box, hinged stainless steel door with cylinder lock, and surface mounting provisions."

c. Paragraph 2.2.10.2 **REVISE** the paragraph to read as follows:

"Provide the annunciator in surface mounted, stainless steel, NEMA 4X, weatherproof enclosure with internal heater."

d. Paragraph 2.2.14.1, Radio Transmitter, Antenna, and Interface Panels – **ADD** the following sentence to the beginning of the paragraph:

"The Radio Transmitter shall be a King Fisher."

e. Paragraph 2.2.14.1 **ADD** the following sentence to the end of the paragraph:

"Transmitter shall be housed in a stainless steel, NEMA 4X enclosure."

f. Paragraph 2.4 **ADD** the following sentence to the end of the paragraph:

"Conduit and outlet/back boxes shall be PVC coated rigid galvanized steel with associated fittings and connections."

13. Section 35 20 23, Dredging

a. **REPLACE** previous specification section with attached section. Information regarding previous dredge project removed. Only dredging required under this contract is at entry to Dry Dock #3.

b. **ADD** attached "Attachment 12: Functional Assessment" (Lobster Mitigation Plan) to the end of this section.

c. **ADD** attached "Appendix B: 2008 Dredge Material Data" (Soil Data) to the end of this section.

14. Section 43 21 39.00 20 Overhaul and Refurbishment of Existing Vertical Turbine Main Dewater Pumps

a. Paragraph 3.5.1, **ADD** the following:

"Full scale operational tests of the pumps and motors at the overhaul facility shall be performed prior to shipment. These tests shall be witnessed by Government representatives. Provide not less than three (3) weeks advance notice of each test to allow for the Government to make travel arrangements to the test site."

END OF AMENDMENT NO. 0001

Figure 1 – Deck Level

Figure 2 – Operating Level

Figure 3 – Level 2

Figure 4 – Level 1

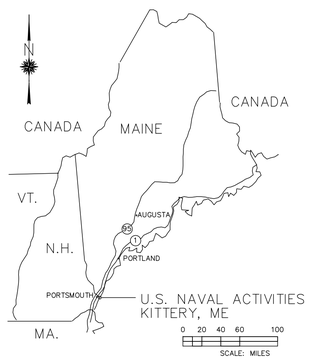
Figure 5 - Sump Level/Mezzanine

Figure 6 - Spiral Stair

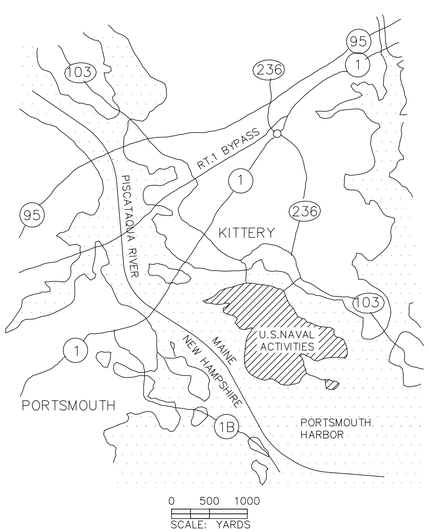
Figure 7 - Concrete Roof Hatch / Pressure Plate

PORTSMOUTH NAVAL SHIPYARD
KITTERY, ME

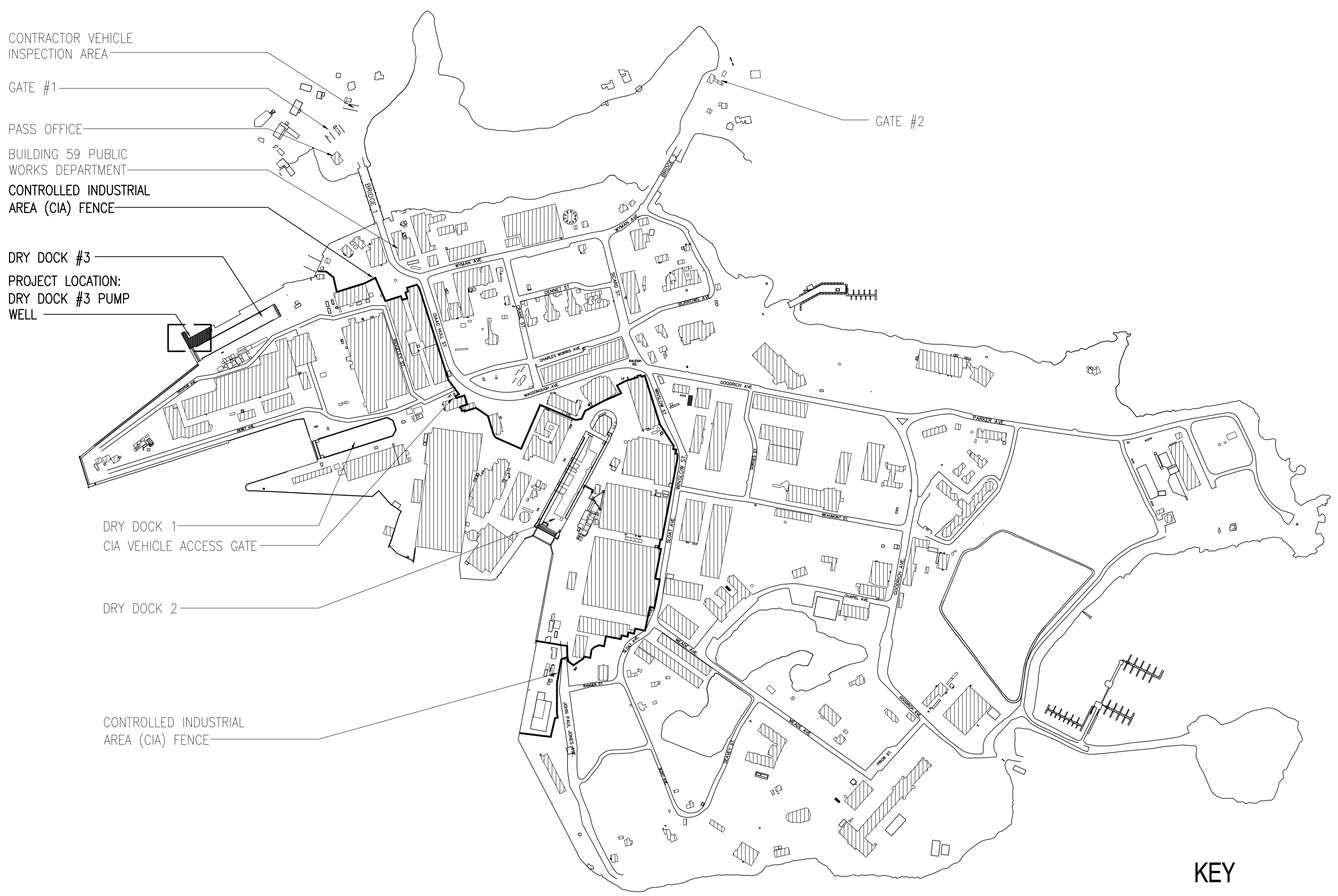
DRY DOCK #3 PUMP WELL REPAIRS
CONSTRUCTION CONTRACT NO. N40085-15-C-6109
EPROJECT WORK ORDER NO. 1332591



AREA MAP



VICINITY MAP



SITE PLAN
SCALE: 1" = 400'

KEY

- BUILDINGS
- PROJECT LOCATION
- EXISTING CIA FENCE

APPROVED: PNSY DRY DOCK CONTROL BOARD

THE SIGNATURES ALSO ACKNOWLEDGE THAT THE CONSTRUCTION DOCUMENTS (DRAWINGS AND SPECIFICATIONS) ACCURATELY REPRESENT THE PROJECT REQUIREMENTS. THIS SIGNATURE CONVEYS APPROVAL OF ALL 66 SHEETS IN THIS SET.

SIGNATURE	DATE
DOCKING OFFICER	
C980 DD BRANCH HEAD	
C990 BRANCH HEAD	
C250 BRANCH HEAD	
C230 BRANCH HEAD	
C300.1	

SYM	DESCRIPTION	DATE	APPR
1	AMENDMENT 02	JUN 02, 2015	PFD
	FINAL SUBMISSION	JAN 07, 2015	PFD

NAVFAC

LICENSED ARCHITECT KENNETH T. WESTON 4234 STATE OF MAINE 06-02-15

OAK POINT ASSOCIATES
ARCHITECTURE • ENGINEERING • CONSULTING

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES KTW | DRW JMR | CHK PFD

PM/DM: R C PANTEL

BRANCH MANAGER: AMIN BAHROUR

CHIEF ENG/ARCH: LCDR J ROCHE

FIRE PROTECTION: P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PWD-MAINE
NAVAL SHIPYARD PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

TITLE SHEET AND MAPS

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686269

SHEET 1 OF 67

G-001 | DD3-14-660

DRAWFORM REVISION: 10 MARCH 2009

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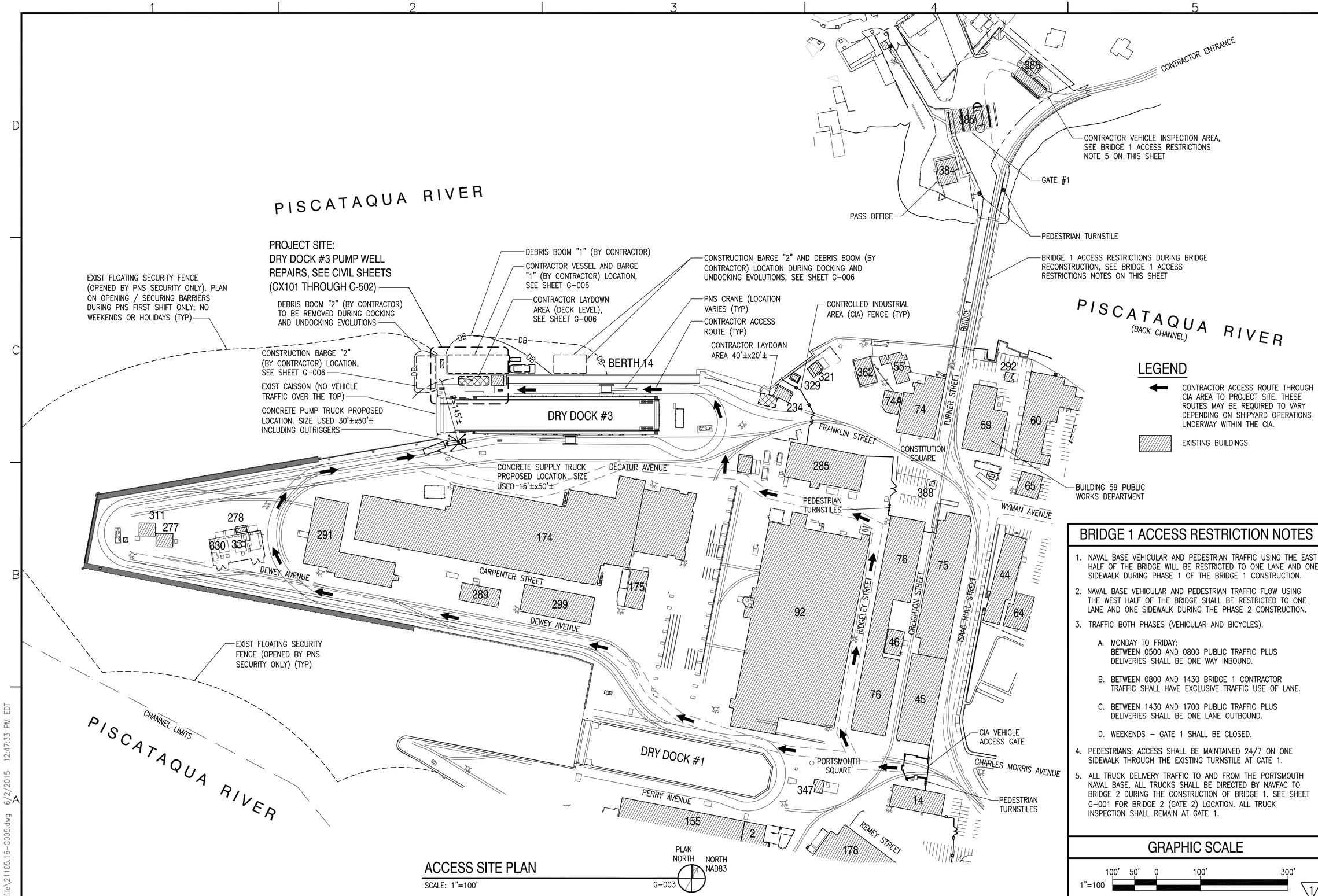

LEGEND

- CONTRACTOR ACCESS ROUTE THROUGH CIA AREA TO PROJECT SITE. THESE ROUTES MAY BE REQUIRED TO VARY DEPENDING ON SHIPYARD OPERATIONS UNDERWAY WITHIN THE CIA.
- EXISTING BUILDINGS.

BRIDGE 1 ACCESS RESTRICTION NOTES

1. NAVAL BASE VEHICULAR AND PEDESTRIAN TRAFFIC USING THE EAST HALF OF THE BRIDGE WILL BE RESTRICTED TO ONE LANE AND ONE SIDEWALK DURING PHASE 1 OF THE BRIDGE 1 CONSTRUCTION.
2. NAVAL BASE VEHICULAR AND PEDESTRIAN TRAFFIC FLOW USING THE WEST HALF OF THE BRIDGE SHALL BE RESTRICTED TO ONE LANE AND ONE SIDEWALK DURING THE PHASE 2 CONSTRUCTION.
3. TRAFFIC BOTH PHASES (VEHICULAR AND BICYCLES).
   A. MONDAY TO FRIDAY: BETWEEN 0500 AND 0800 PUBLIC TRAFFIC PLUS DELIVERIES SHALL BE ONE WAY INBOUND.
   B. BETWEEN 0800 AND 1430 BRIDGE 1 CONTRACTOR TRAFFIC SHALL HAVE EXCLUSIVE TRAFFIC USE OF LANE.
   C. BETWEEN 1430 AND 1700 PUBLIC TRAFFIC PLUS DELIVERIES SHALL BE ONE LANE OUTBOUND.
   D. WEEKENDS – GATE 1 SHALL BE CLOSED.
4. PEDESTRIANS: ACCESS SHALL BE MAINTAINED 24/7 ON ONE SIDEWALK THROUGH THE EXISTING TURNSTILE AT GATE 1.
5. ALL TRUCK DELIVERY TRAFFIC TO AND FROM THE PORTSMOUTH NAVAL BASE, ALL TRUCKS SHALL BE DIRECTED BY NAVFAC TO BRIDGE 2 DURING THE CONSTRUCTION OF BRIDGE 1. SEE SHEET G-001 FOR BRIDGE 2 (GATE 2) LOCATION. ALL TRUCK INSPECTION SHALL REMAIN AT GATE 1.

ACCESS SITE PLAN

SCALE: 1"=100'

PLAN NORTH — NORTH NAD83 — G-003

GRAPHIC SCALE

1"=100 — 100' 50' 0 100' 300'

CHECK GRAPHIC SCALE BEFORE USING

SYM	DESCRIPTION	DATE	APPR.
1	AMENDMENT 02	JUN 02, 2015	PFD
	FINAL SUBMISSION	JAN 07, 2015	PFD

NAVFAC

STATE OF MAINE — DONALD E. WALLACE, JR. No. 11561 — LICENSED PROFESSIONAL ENGINEER — SEAL

OAK POINT ASSOCIATES — ARCHITECTURE • ENGINEERING • PLANNING — A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES DEW | DRW DEW | CHK PFD

PM/DM: R C PANTEL

BRANCH MANAGER: AMIN BAHROUR

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FIRE PROTECTION: P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE
NAVFAC ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD – KITTERY, ME
NAVAL SHIPYARD KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

ACCESS SITE PLAN

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686273

SHEET 5 OF 67

G-005 DD3-14-664

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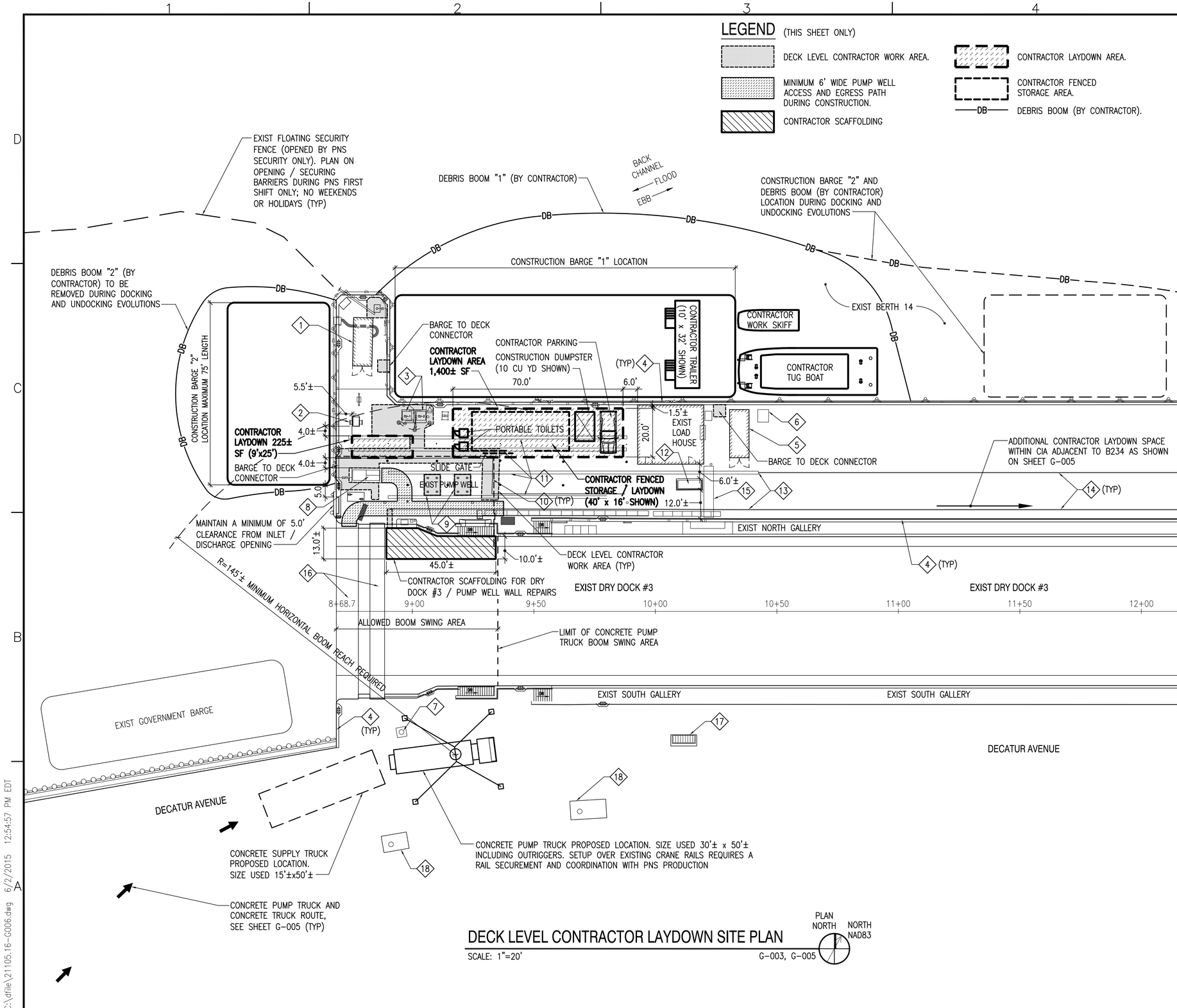

DECK LEVEL CONTRACTOR LAYDOWN SITE PLAN

SCALE: 1"=20'

GENERAL SHEET NOTES

1. SEE SHEET CX101 FOR EXISTING SURFACE AND FEATURES INFORMATION.
2. SEE SHEET CX102 FOR EXISTING UTILITY INFORMATION.
3. SEE SHEET G-003 FOR ABBREVIATIONS, GENERAL LEGEND AND NOTES.
4. MAINTAIN CLEAR PATH TO AND OVER THE EXISTING CAISSON. VEHICLES AND STORAGE ON EXISTING CAISSON ARE PROHIBITED.
5. RELOCATE CONSTRUCTION VESSELS AND BARGES IF REQUESTED BY THE GOVERNMENT.
6. RELOCATE OR REMOVE LAYDOWN AREAS, STORAGE AREAS, EQUIPMENT, BARGES, BOATS AND VEHICLES AS REQUESTED BY THE GOVERNMENT. BASE BIDS ON (3) DE-MOBILIZATIONS AND (3) RE-MOBILIZATIONS.
7. FINAL CONTRACTOR WORK, STORAGE AND LAYDOWN AREAS SHALL BE APPROVED BY THE GOVERNMENT BEFORE COMMENCING OF PROJECT WORK.
8. DO NOT BLOCK ACCESS TO THE EXISTING STAIRS SERVING DRY DOCK #3, A MINIMUM 6' WIDE EGRESS PATH TO THE TOP OF THE STAIRS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT DURING OFF SHIFT WORK FOR CONSTRUCTION JOINT SEALING.
9. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE EXISTING EMERGENCY GENERATOR FOR REFUELING AND MAINTENANCE.
10. THE SHIPYARD SHALL PROVIDE A MINIMUM 9' WIDE PASSAGE FOR CONTRACTOR VEHICLES AND EQUIPMENT TO REACH THE WORK SITE AND LAYDOWN AREAS. THE CONTRACTOR SHALL PROVIDE TRAFFIC RATED BRIDGES AS REQUIRED FOR CONTRACTOR VEHICLES AND EQUIPMENT TO TRAVERSE OVER MULTIPLE SHIPYARD POWER CORDS AND HOSES. HOSES MAY BE AS LARGE AS 8"± OUTSIDE DIAMETER.
11. THE CONTRACTOR SHALL NOT ADVERSELY IMPACT THE SHIPYARDS PRODUCTION EFFORTS.
12. ALL WATER CRAFT MOVEMENTS SHALL BE FULLY COORDINATED WITH PNS PORT OPERATIONS. PNS PORT OPERATIONS HOURS ARE MONDAY THROUGH FRIDAY FROM 0700 TO 1530, AND MAYBE REDUCED BASED UPON SHIPYARD OPERATIONS.

EXISTING KEYNOTES

(THIS SHEET ONLY)

1. EXISTING EMERGENCY GENERATOR (DRY DOCK #3 PUMP WELL), SEE NOTE 9 ON THIS SHEET.
2. EXISTING CAPSTAN ON CONCRETE PAD.
3. EXISTING (2) CONDENSER UNITS ON CONCRETE PAD (SERVES DRY DOCK #3 PUMP WELL).
4. EXISTING EDGE OF CONCRETE DECK/CURB.
5. EXISTING MOBILE 900KW DIESEL POWER PLANT.
6. EXISTING ELECTRICAL EQUIPMENT.
7. EXISTING MOORING BOLLARD.
8. EXISTING BULKHEAD DOORS TO ACCESS PUMP WELL.
9. EXISTING CONCRETE COVERS.
10. EXISTING CONSTRUCTION JOINT IN CONCRETE DECK/PUMP WELL STRUCTURE.
11. EXISTING 14"± TO 15"± WIDE CONCRETE PATCH OVER EXISTING CRANE RAIL.
12. EXISTING HATCH TO NORTH ALTAR PIT.
13. APPROXIMATE END OF EXISTING ACTIVE CRANE RAIL.
14. EXISTING ACTIVE CRANE RAIL.
15. EXISTING STEEL TRAFFIC PLATES (SLOPED SIDES) OVER EXISTING UTILITY LINES ON TOP OF EXISTING DECK.
16. EXISTING CAISSON SEATS.
17. EXISTING ACCESS TO SOUTH ALTAR PIT.
18. EXISTING CAPSTAN.

GRAPHIC SCALE

1"=20' — 20' 10' 0 20' 40'

CHECK GRAPHIC SCALE BEFORE USING

SYM	DESCRIPTION	DATE	APPR.
1	AMENDMENT 02	JUN 02, 2015	PFD
	FINAL SUBMISSION	JAN 07, 2015	PFD

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STATE OF MAINE — DONALD E. WALLACE, JR. No. 11581 — LICENSED PROFESSIONAL ENGINEER — SEAL

OAK POINT ASSOCIATES — ARCHITECTURE • ENGINEERING • PLANNING — A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: SEE G-001 FOR DDCB BLOCK

SATISFACTORY TO — DATE: 01/07/15

DES: DEW — DRW: DEW — CHK: PFD

PM/DM: R C PANTEL

BRANCH MANAGER: AMIN BAHROUR

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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME
NAVAL SHIPYARD — KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

DECK LEVEL CONTRACTOR LAYDOWN SITE PLAN

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686274

SHEET 6 OF 67

G-006 DD3-14-665

DOCUMENT REVISION: 10 MARCH 2009

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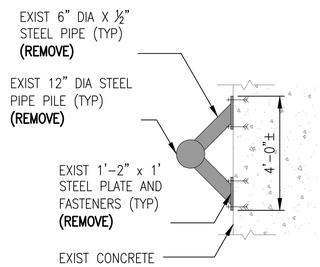
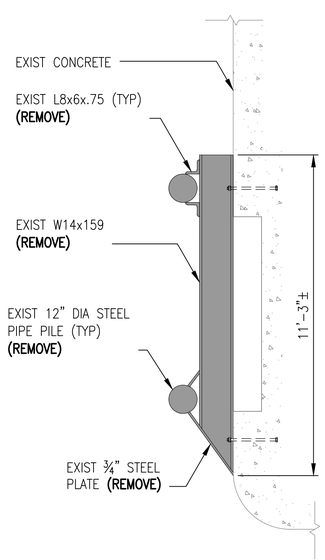
FENDER SYSTEM REMOVAL NOTES:

1. THE FENDER SYSTEM REMOVALS REQUIRES COMPLETE REMOVAL OF THE ENTIRE SYSTEM WITHIN THE LIMITS SHOWN INCLUDING STRUCTURAL MEMBERS, SUB-MEMBERS, AND CONNECTIONS.
2. EMBEDDED CONCRETE ANCHORS SHALL BE CUT FLUSH WITH THE FACE OF CONCRETE AND COATED WITH INORGANIC ZINC RICH PRIMER.
3. PILES SHALL BE FULLY EXTRACTED.



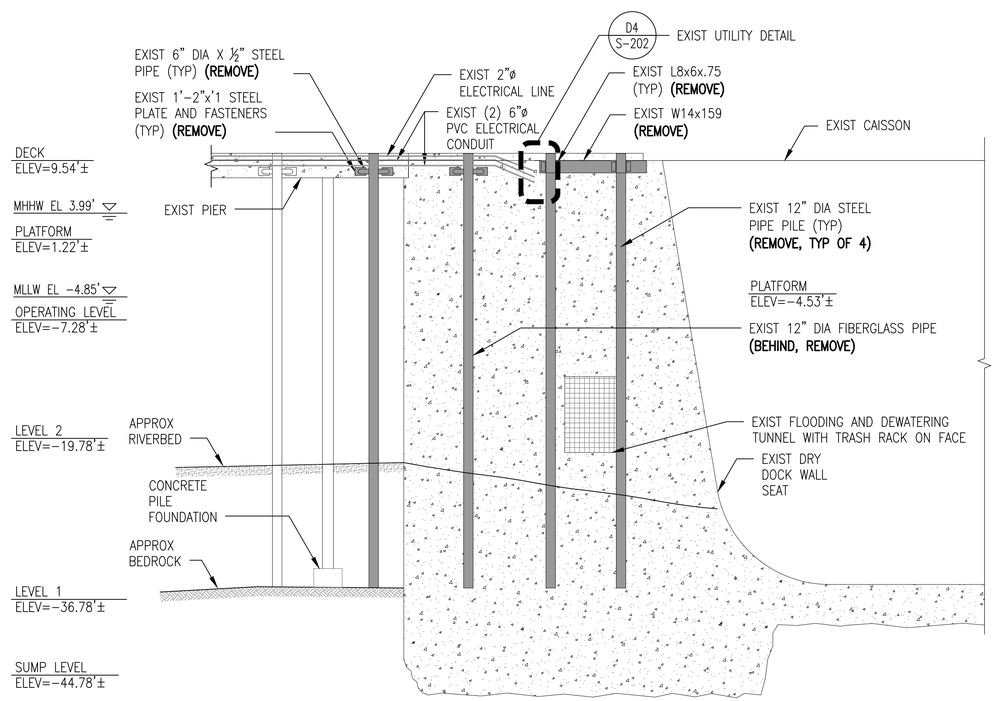
FENDER REMOVAL (C1)

SCALE: ⅜"=1'-0" 0' 2' 4' 6' SD101



FENDER REMOVAL (A1)

SCALE: ⅜"=1'-0" 0' 2' 4' 6' SD101



FENDER REMOVALS ELEVATION (A2)

SCALE: ⅛"=1'-0" 0 4' 8' 16' SD101

LEGEND

EXTENT OF REMOVALS

SYM	DESCRIPTION	DATE	APPR
1	AMENDMENT 02	JUN 02, 2015	PFD
	FINAL SUBMISSION	JUN 07, 2015	PFD

NAVFAC

SEAL

Appledore Marine Engineering, LLC
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: SEE G-001 DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES LBL | DRW SNB | CHK NJE

PM/DM: R C PANTEL

BRANCH MANAGER: AMIN BAHROUR

CHIEF ENG/ARCH: LCDR J ROCHE

FIRE PROTECTION: P. BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME

NAVAL SHIPYARD KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

REMOVALS DETAILS

MAXIMO No:

EPROJECT NO.: 1332591

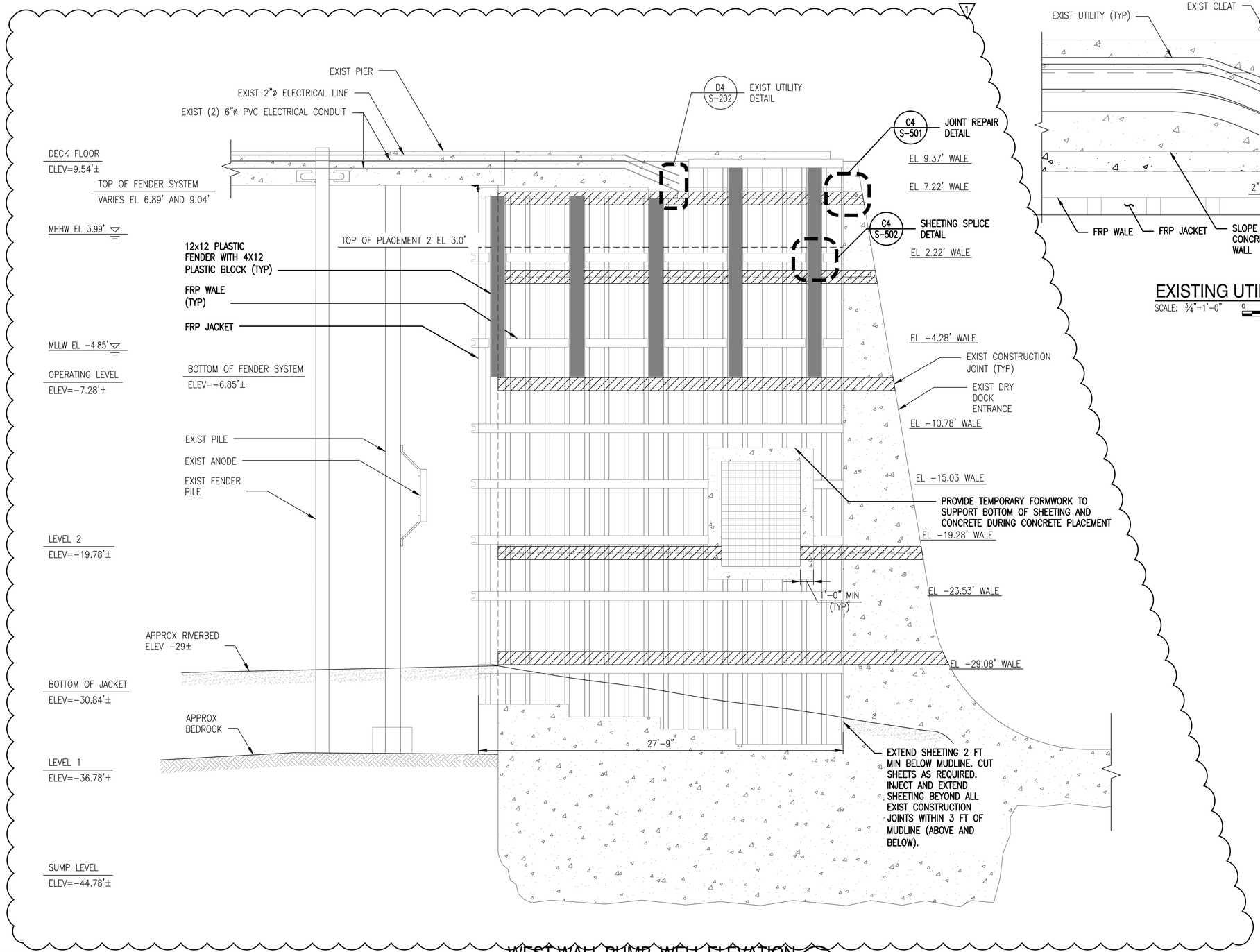
CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686286

SHEET 18 OF 66

SD201 | DD-14-677

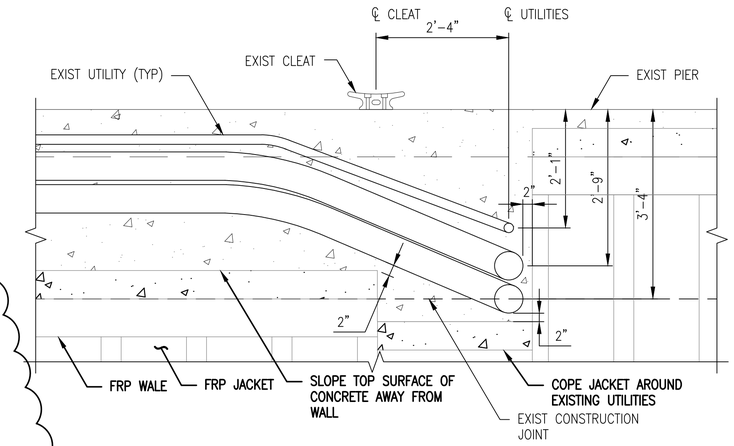
DRAWFORM REVISION: 10 MARCH 2009



WEST WALL PUMP WELL ELEVATION (A1)

SCALE: 1/4"=1'-0" (0, 2', 4', 8')

S-101
S-201



EXISTING UTILITY DETAIL (D4)

SCALE: 3/4"=1'-0" (0, 1', 2', 3')

SD-201
S-202

LEGEND

- EXIST CONSTRUCTION JOINT INJECTION SEAL (SEE NOTES ON SHEET S-201 AND DETAIL C4/S-501)
- MARINE FENDER (MF-1) 12x12 PLASTIC FENDER

AMENDMENT 02	JUN 02, 2015	PFD
FINAL SUBMISSION	JAN 07, 2015	PFD
DESCRIPTION	DATE	APPR

NAVFAC

Appledore Marine Engineering, LLC
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
SEE G-001 DDCB BLOCK

SATISFACTORY TO DATE 01/07/15
DES LBL DRW SNB CHK NJE
PM/DM R C PANTEL
BRANCH MANAGER AMIN BAHROUR
CHIEF ENG/ARCH LCDR J ROCHE
FIRE PROTECTION P BAKAJ

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD ~ KITTERY, ME
NAVAL SHIPYARD KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

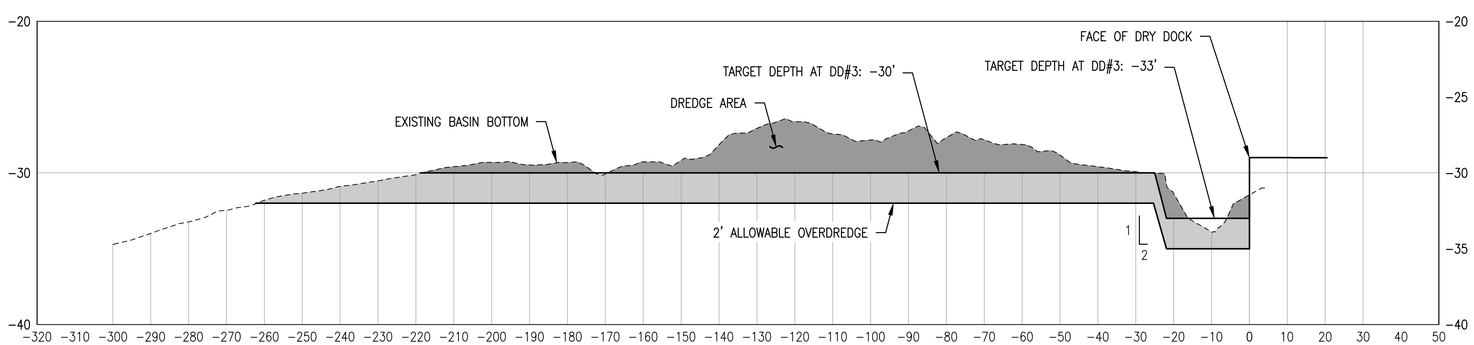
WEST PUMP WELL EXTERIOR REPAIR ELEVATION

MAXIMO No:
EPROJECT NO.: 1332591
CONSTR. CONTR. NO. N40085-15-C-6109
NAVFAC DRAWING NO. 12686290
SHEET 22 OF 66
S-202 DD3-14-681

DRAWFORM REVISION: 10 MARCH 2009

DD #3 PLAN

SCALE: 1"=20'-0"



DD #3 SECTION

HORIZONTAL SCALE: 1"=20'-0"

VERTICAL SCALE: 1"=4'-0"

X-101 A1

DREDGE QUANTITIES	
APPROXIMATE DREDGE VOLUME TO DESIGN DEPTH (INCLUDING SIDE SLOPES)	1,000 CY
APPROXIMATE MAXIMUM OVERDREDGE VOLUME TO DESIGN DEPTH (INCLUDING SIDE SLOPES)	1,850 CY

DREDGE BASIN COORDINATES		
NO.	NORTHING	EASTING
1	N 91338.77	E 2798185.88
2	N 91259.81	E 2798247.24
3	N 91101.68	E 2798043.77
4	N 91180.64	E 2797982.41

LEGEND:

- --- -29 --- 1' HYDROGRAPHIC CONTOUR INTERVAL
- - - -30 - - 5' HYDROGRAPHIC CONTOUR INTERVAL
- 1:3 DESIGN DREDGE SIDE SLOPE
- (1) DREDGE BASIN COORDINATES
- PROPOSED DREDGE FOOTPRINT

NOTES:

1. CONDUCT LOBSTER MITIGATION AT DREDGE SITE AS REQUIRED BY SPECIFICATION SECTION 35 20 23 – DREDGING.
2. DEPTHS INDICATED ARE BASE ON MEAN LOWER LOW WATER DATUM AT ELEVATION 0.00'. HORIZONTAL CONTROL COORDINATES ARE BASE ON MAINE WEST STATE PLANE NAD83 U.S. SURVEY FEET.
3. CONTRACTOR SHALL REMOVE ALL MATERIAL (EXCLUDING HARD BOTTOM IF ENCOUNTERED) TO TARGET DREDGE DEPTH.
4. HYDROGRAPHIC SURVEY DATA IS FROM 2014 POST DREDGE SURVEY UNLESS OTHERWISE NOTED

SYM	DESCRIPTION	DATE	APPR
1	AMENDMENT 02	JUN 02, 2015	PFD
	FINAL SUBMISSION	JAN 07, 2015	PFD

NAVFAC

SEAL

Appledore Marine Engineering, LLC
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SEE G-001 DDCB BLOCK

SATISFACTORY TO DATE 01/07/15

DES LBL DRW DLM CHK NJE

PM/DM R C PANTEL

BRANCH MANAGER AMIN BAHROUR

CHIEF ENG/ARCH LCDR J ROCHE

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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
PWD-MAINE
NAVAL FACILITIES ENGINEERING COMMAND – MID-ATLANTIC
PORTSMOUTH NAVAL SHIPYARD – KITTERY, ME
NAVAL SHIPYARD KITTERY, ME

DRY DOCK #3 PUMP WELL REPAIRS

DREDGING – BID OPTION 5

MAXIMO No:

EPROJECT NO.: 1332591

CONSTR. CONTR. NO. N40085-15-C-6109

NAVFAC DRAWING NO. 12686334

SHEET 67 OF 67

X-101 DD3-14-726

DRAWING REVISION: 10 MARCH 2009

ELECTRICAL SEQUENCING REPORT

DRY DOCK #3 PUMPWELL REPAIRS
Portsmouth Naval Shipyard, Kittery, Maine

Prepared For:

NAVFAC MIDLANT
Public Works Department, Maine
Portsmouth Naval Shipyard
Kittery, Maine

A/E Contract No.: N40085-11-D-0502, T.O. 0016
eProjects Work Order No.: 1332591
Construction Contract No.: N40085-15-B-6109

June 2, 2015

OAK POINT ASSOCIATES
architecture
engineering
planning

Table of Contents

SEQUENCING NOTES **Page 1**

SKETCHES **Page 5**

Sequencing Notes

General Notes:

G1. Before removing the existing conductors and conduits (located on Level 2, shown on drawing ED102 and ED501) from the existing main circuit breakers to MCC-1 and MCC-2, provide the new conductors and conduits on the Operating Level from the main breakers to MCC-1 and MCC-2, as indicated on the one-line diagram on sheet E-501.

G2. While a boat is in the drydock, power outages shall be a maximum of 4 hours (unless otherwise indicated). Power outages shall be kept to the absolute minimum.

G3. The two drainage pumps (fed from MCC-1) shall always have backup power available within 30 minutes.

G4. Temporary cables and disconnect switches (indicated in the notes below) that will be used to provide temporary power shall be installed in Phase 1 (pre-staging) and shall be made ready for connection when temporary power is required.

G5. Work on energized equipment is not permitted.

G6. After the project is awarded, submit outage requests to PNS as soon as possible.

Phase 1: Pre-Staging

1. Pre-stage a temporary cable from the 400A CB to MCC-1 **(Sketches SK-ESA and SK-ESB)**.
    - Route temporary cable overhead.
    - Terminations will be made in a subsequent step.
    - Cable shall be 3-500kcmil, 1-#3/0 G Type MC. (Cable provided by Contractor.)
    - (Refer to Sheet ED-101, ED-501).
2. Pre-stage a temporary 800A safety switch **(Sketches SK-ESC and SK-ESD)**.
    - Pre-stage an 800A, fused, safety switch (temporary Bypass switch) mounted on a support frame to bypass the existing 800A Tie CB in a subsequent step. (Switch provided by Contractor.)
    - Pre-stage line-side and load-side temporary conductors wired to the temporary bypass switch to facilitate connections to provide the temporary bypass of the existing 800A Tie CB in a subsequent step. (Conductors provided by Contractor.)
    - Coordinate the location of the temporary 800A safety switch with the Contracting Officer. (Proposed temporary bypass switch location shown for reference.)
    - (Sheet ED-101, ED-501).
3. Pre-stage temporary support frame and cables for 1200A MCB **(Sketches SK-ESC and SK-ESD).**
    - Pre-stage a temporary support frame for mounting the existing 1200A MCB. (Mount existing 1200A MCB in a subsequent step.)
    - Pre-stage line-side and load-side conductors to facilitate connections to provide the temporary bypass of the existing 1200A MCB in a subsequent step. (Conductors provided by contractor.)
    - Coordinate the location of the temporary support frame with the Contracting Officer. (Proposed temporary bypass switch location shown on sketch SK-ESC for reference.)
    - (Sheets ED-101, ED-501).
4. Pre-Stage a temporary cable to feed ATS of generator **(Sketches SK-ESE and SK-ESF).**
    - LOTO LC3-9
    - Set of cables furnished by the government.

- Install the set of cables from the 400A Duraline receptacle in Gallery 1AN to the ATS.
- Provide a 400A safety switch mounted on a temporary support.
- LOTO the 400A safety switch.
- Connection to the ATS in a subsequent step.
- The short cord from the ATS to the Outdoor Panel w/ Female Receptacles shall be removed. Caps shall be installed to prevent water from entering the open receptacles.
- Outage required.

Phase 2: Replace Junction Box in Stair 002 and Feeders between Junction Box and MCC-1 And Provide Temporary Power to MCC-1 From Gallery 1AN.

5. Turn ATS "Off' at existing Generator. LOTO. (Sheet C-101 and **Sketch SK-ESG).**
    - Secure the generator to prevent start-up.
    - Connect the cable to the "N" terminal of the ATS.
6. "Open" circuit breaker LC3-51 at Load Center LC3. LOTO. (**Sketch SK-ESH**).
    - "Open" existing 800A MCB. LOTO. (Sheet ED-101).
    - "Open" existing 800A Tie CB. LOTO. (Sheet ED-101).
7. Disconnect existing feeders from 400A CB and ATS **(Sketch SK-ESI).**
    - Disconnect the existing feeder from the load side of the 400A CB.
        - Cut back conductors to facilitate removal in a subsequent step.
        - End seal the conductors to make safe. (Sheet ED-101, ED-501).
    - Disconnect the ATS load feeder from the bus of MCC-1.
        - Cut back conductors to facilitate removal in a subsequent step.
        - End seal the conductors to make safe. (Sheet ED-101, ED-501).
8. Terminate the temporary cable at MCC-1 and the 400A CB **(Sketch SK-ESJ)**.
9. Power restoration (Sketch SK-ESK).
    - "Close" circuit breaker LC3-51 in Load Center LC3.
    - "Close" the existing 800A MCB.
    - "Close" the existing 400A CB
    - (Sheet ED-101).
10. Feeder removal. (Sheets ED-101, ED-501) **(Sketches SK-ESL and SK-ESM).**
    - Remove the 2 existing feeders from the existing Metallic Junction Box in Stair 002 to MCC-1.
    - Remove existing conduits, conductors, and hardware.
11. Provide Feeders to MCC-1. (Sheets E-101, E-501).
    - Provide Junction Box in Stair 002. Size Junction Box per NEC Art. 314.
    - Provide feeders from the Junction Box in Stair 002 to MCC-1 and new location of 400A CB.
    - This step requires and outage of MCC-1.
12. "Open" and LOTO breakers to MCC-1 **(Sketch SK-ESN and Sketch SK-ESO).**
    - "Open" the 400A CB. LOTO. (Sheet ED-101, ED-501).
    - "Open" the 800A MCB. LOTO. (Sheet ED-101, ED-501).
    - "Open" the 800A Tie CB. LOTO. (Sheet ED-101, ED-501).
    - "Open" LC3-51. LOTO.
    - This step requires an outage.
13. Remove the temporary feeder from MCC-1 **(Sketch SK-ESP**).
    - Disconnect the temporary feeder from the bus of MCC-1.
    - Disconnect the temporary feeder from the 400A CB.

- Remove the temporary feeder.
- (Sheet ED-501).

14. Connect MCC-1 (sheet E-501).
    - Connect the feeder from ATS terminal “L" via the Junction Box in Stair 002 to the bus of MCC-1.
    - Provide feeder from ATS terminal" via the Junction Box in Stair 002 to the new location of the new 400-amp circuit breaker.
15. Energize MCC-1.
    - Remove LOTO at ATS.
    - Set generator to automatic (standby).
    - Set ATS into normal mode.
    - "Close" LC3- 9.
    - This step will require switching orders.

<u>Phase 3: Provide Temporary Power to MCC-2</u>

16. Remove the existing 1200A MCB **(Sketch SK-ESQ).**
    - "Open" LC3-15. LOTO.
    - "Open" existing 1200A MCB. LOTO.
    - Remove existing 1200A MCB (including enclosure). The existing 1200A MCB will be used to provide temporary power in a subsequent step.
    - End seal and make the feeder conductors from LC3-15 safe. (As required.)
    - End seal and make the feeder conductors to MCC-2 safe. (As required.)
    - This step requires an outage of LC3-15.
17. Restore power to MCC-2.
    - "Close" the existing 800A Tie CB.
    - "Close" the existing 800A MCB.
    - "Close" LC3-51.
    - This step requires an outage of LC3-51.
18. Mount the existing 1200A MCB to the temporary support structure.
    - Mount the existing 1200A MCB (Including enclosure) to the temporary support structure.
    - Terminate the 1200A temporary feeders to the line and load side of the existing 1200A MCB.
19. Connect the supply side of the 1200-amp breaker to the existing incoming feeders from LC-3-15.
20. De-energize MCC-2.
    - “Open” existing 800-amp tie CB and LOTO.
    - “Open” 800-amp main CB and LOTO.
    - “Open” LC-3-51 and LOTO.
    - Disconnect the existing conductors from the existing 800-amp tie CB to the existing MCC-2 feeders.
    - This step requires an outage of LC3-51.
21. Connect the load side of relocated 1200-amp circuit breaker to the existing feeders to MCC-2.
22. Connect the temporary 800-amp bypass disconnect switch.
    - Using the temporary feeders connect the supply side of the temporary 800-amp fusible disconnect switch to the existing incoming feeders from LC-3-51.
    - Using the temporary feeders connect load side of the 800-amp switch to the existing feeders of MCC-2.

- This switch shall serve as a temporary by-pass switch and shall remain "Open" and LOTO.

23. Restore power to MCC-2.
    - Remove LOTO and energize the relocated 1200-amp circuit breaker to feed MCC-2 (until phase 5).
    - At load center LC3, remove LOTO and turn on circuit breaker LC-3-15.

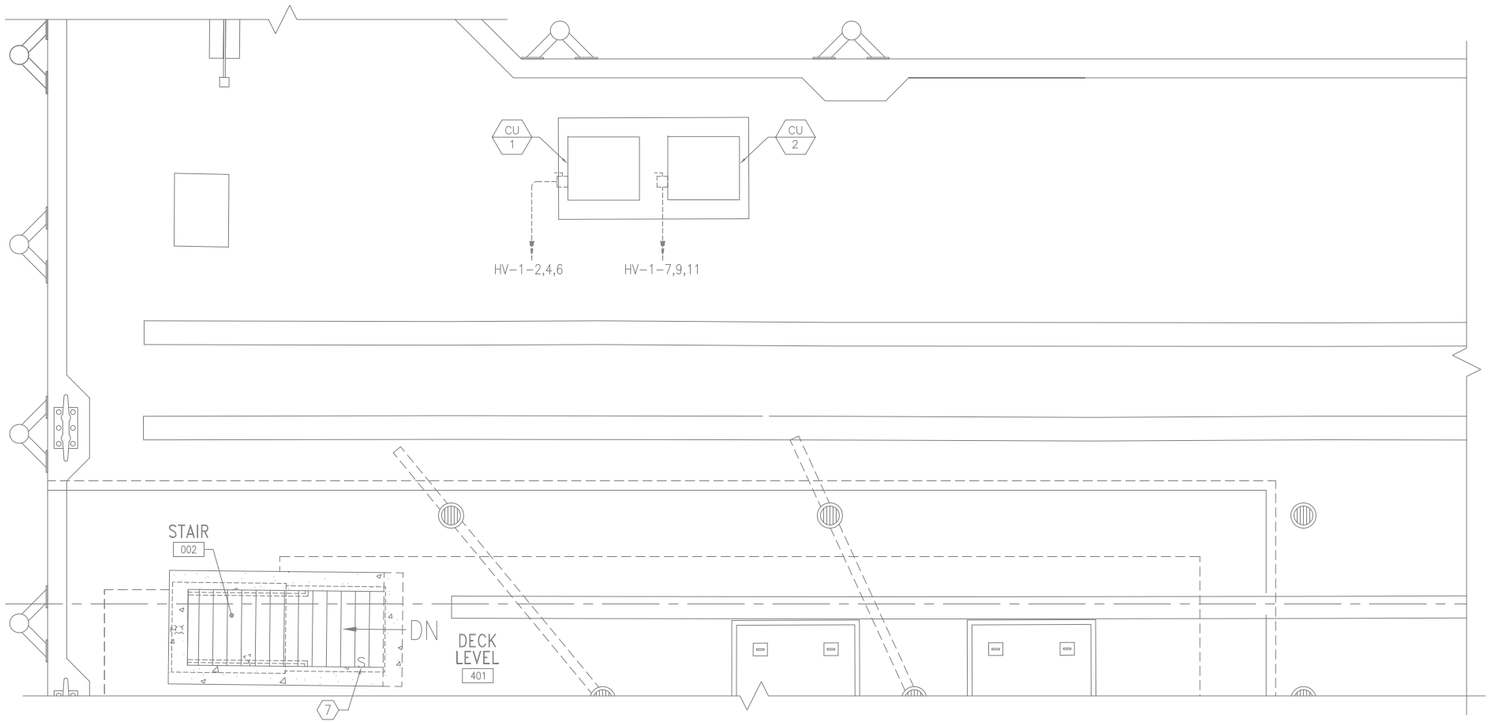
Phase 4: Remove Existing Main Circuit Breakers and Provide New Main Circuit Breakers

24. Remove the existing 800-amp and 400-amp circuit breaker and the 800-amp tie breaker, the existing conductors between them, and the existing pull boxes and wireways located on the operating level (sheets ED101 and ED501).
25. Provide the 1200-amp, 800-amp, 400-amp circuit breakers and the 800-amp tie circuit breaker, the conductors between them and the required pullboxes, wireways and support system as indicated on sheet E-501.
26. Connect the load sides of the 400-amp and 1200-amp breakers to the new feeders being provided on the operating level (refer to General Note G1 of this report and One-Line Diagram on sheet E-501).
27. Connect the supply side of the 800-amp breaker to the existing feeder conductors from Load Center LC3, circuit LC-3-51.

Phase 5: Energize the New Main Circuit Breakers to Feed MCC-1 and MCC-2

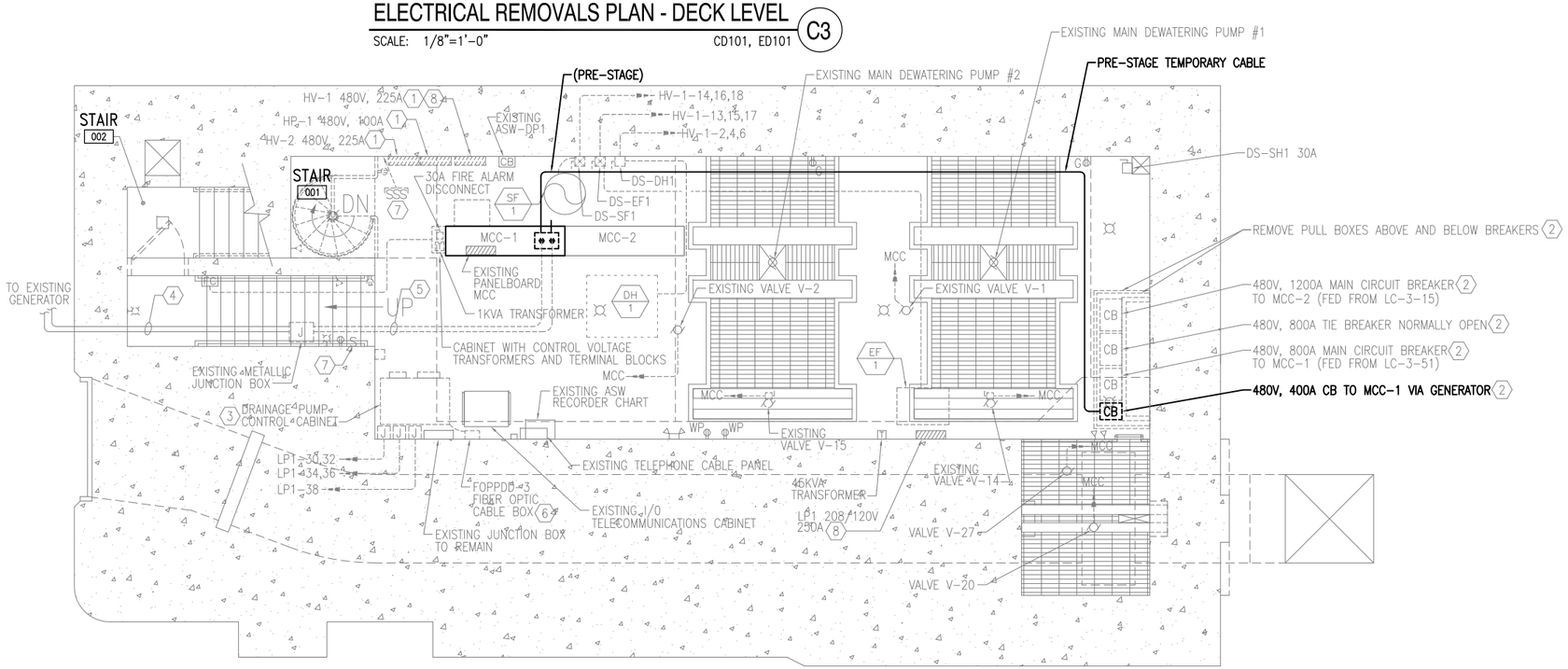
28. "Open" the temporary 400-amp disconnect switch located on the deck and LOTO.
29. At the generator, switch the automatic transfer switch from normal power to emergency power (the generator shall be used to keep MCC-1 energized for a maximum of 30 minutes).
30. Disconnect temporary 800-amp tie switch from incoming feeders from LC-3-51.
31. At load center LC3, remove LOTO and "close" circuit breaker LC-3-51 that feeds the new 800-amp main and 400-amp circuit breakers. "Close" the 800-amp main and 400-amp circuit breakers at Pump Well 3.
32. At the generator, switch the automatic transfer switch from emergency power back to normal power.
33. De-energize the existing relocated (temporarily installed) 1200-amp breaker. At load center LC3, "Open" and LOTO circuit breaker LC-3-15.
34. Disconnect the existing feeder from the supply side of the 1200-amp main fuse inside MCC-2. Connect the new feeder to the supply side of the 1200-amp main fuse inside MCC-2.
35. "Close" the 800-tie breaker to temporarily feed MCC-2 (from circuit LC-3-51).
36. Connect the supply side of the new 1200-amp circuit breaker to the incoming feeders from LC-3-15.
37. "Open" the 800-tie breaker.
38. At load center LC3, remove LOTO and Close circuit breaker LC-3-15. "Close" the new 1200-amp circuit breaker at pumpwell #3.
39. Remove the existing (temporarily installed) 1200-amp breaker, 800-amp tie switch and temporary feeders.
40. Remove the existing corroded pull box, conductors, conduits on Level 2 (from the existing location of the main circuit breakers to MCC-1 and MCC-2) as indicated on drawings ED102 and ED501.
41. Remove temporary feeders and temporary 400-amp disconnect switch. Remove portable power cables from North Gallery 1AN and return to the Government.

Sketches



ELECTRICAL REMOVALS PLAN - DECK LEVEL (C3)

SCALE: 1/8"=1'-0" CD101, ED101



ELECTRICAL REMOVALS PLAN - OPERATING LEVEL (A3)

SCALE: 1/8"=1'-0" ED101

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GENERAL SHEET NOTE

1. REFER TO SHEET ED501 FOR REMOVALS ONE-LINE DIAGRAM.
2. REFER TO SHEETS E-001 AND G-003 FOR SEQUENCING NOTES.

REMOVALS KEYNOTES

1. REMOVE EXISTING PANELBOARD.
2. REFER TO SHEET E-001 FOR SEQUENCE NOTES.
3. REMOVE AND RELOCATE EXISTING DRAINAGE PUMP CONTROL CABINET. REFER TO SHEET E-101 FOR LOCATION. OUTAGE SHALL BE KEPT TO A MAXIMUM OF 4 HOURS.
4. EXISTING TWO (2) 4" PVC CONDUITS AND CONDUCTORS TO EXISTING GENERATOR SHALL REMAIN.
5. REMOVE TWO (2) EXISTING 4" RGS CONDUITS AND CONDUCTORS FROM MCC-1 TO EXISTING METALLIC JUNCTION BOX.
6. REMOVE AND RELOCATE EXISTING FIBER OPTIC CABLE BOX WITH 1" FLEX CONDUIT AND CABLE (TO DRAINAGE PUMP CONTROL PANEL). REFER TO SHEET E-101 FOR LOCATION.
7. REMOVE SWITCH(ES).
8. PROVIDE TEMPORARY POWER TO EXISTING (TO REMAIN) PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.

SEQUENCE NOTE

1. REFER TO SEQUENCE NOTE 1.

GRAPHIC SCALE

1/8"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

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www.oakpoint.com

DESIGNED BY: DCL
DRAWN BY: RSW
CHECKED BY: DCL
PROJECT: 21105.16

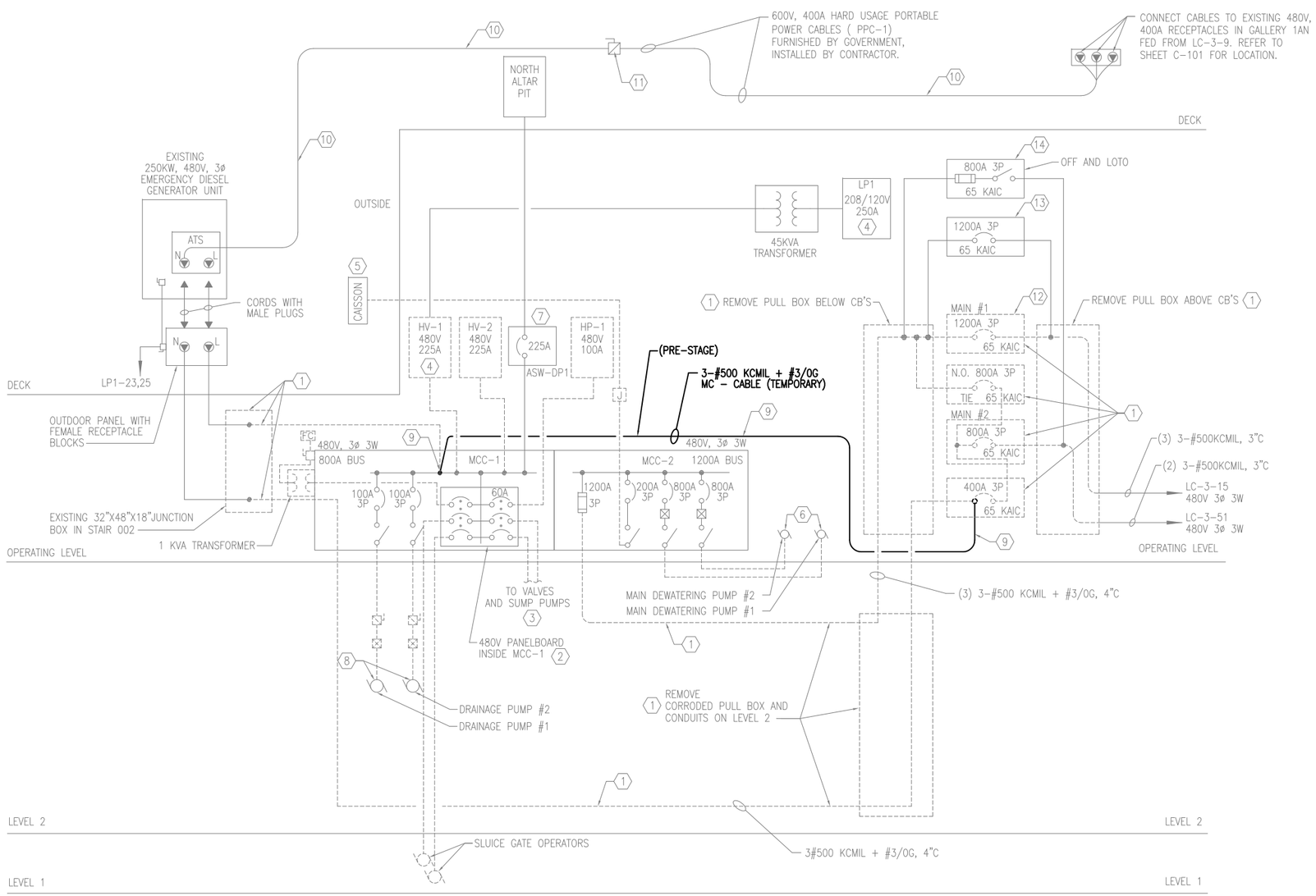
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC

DRYDOCK #3 PUMP REPAIRS

NAVAL SHIPYARD
KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESA
CLARIFICATION SKETCH



POWER DISTRIBUTION SYSTEM
ONE-LINE DIAGRAM - ELECTRICAL REMOVALS

NOT TO SCALE

B3

KEYNOTES

1. REFER TO SHEET E-001 FOR SEQUENCING NOTES.
2. REFER TO PANELBOARD SCHEDULE ON SHEET E-602.
3. REMOVE EXISTING WIRING AND CONDUIT TO EXISTING EQUIPMENT. REFER TO SHEET E-602 FOR PANELBOARD SCHEDULE AND SHEETS ED101 AND ED102 FOR EQUIPMENT LOCATIONS.
4. PROVIDE TEMPORARY POWER FOR EXISTING PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.
5. APPROXIMATE DISTANCE FROM MCC-1 TO CAISSON IS 50'±.
6. ONLY ONE PUMP SHALL BE DOWN AT A TIME. ONE PUMP SHALL BE OPERATIONAL AT ALL TIMES.
7. ASW IN ALTAR PIT SHALL REMAIN OPERATIONAL.
8. TWO DRAINAGE PUMPS SHALL BE OPERATIONAL AT ALL TIMES.
9. PROVIDE TEMPORARY CONNECTION BETWEEN 400A CIRCUIT BREAKER AND MAIN LUGS TO MCC-1 (PRIOR TO THE REMOVAL OF EXISTING JUNCTION BOX IN STAIR 002 AND THE FEEDERS BETWEEN THIS BOX AND MCC-1). REFER TO SEQUENCING NOTES ON SHEET E-001.
10. PROVIDE TEMPORARY POWER FOR MCC-1. REFER TO SEQUENCING NOTES ON SHEET E-001.
11. PROVIDE A TEMPORARY 400A FUSIBLE DISCONNECT SWITCH AND TEMPORARY SUPPORT SYSTEM.
12. REMOVE AND SALVAGE FOR REUSE. REFER TO SEQUENCING NOTES ON SHEET E-001.
13. TEMPORARILY RELOCATE EXISTING CIRCUIT BREAKER. PROVIDE TEMPORARY SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCEING NOTES ON SHEET E-001.
14. PROVIDE TEMPORARY TIE SWITCH, FREE STANDING SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCING NOTES ON SHEET E-001.

SEQUENCE NOTE

1. REFER TO SEQUENCE NOTE 1.

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DRAWN BY: RSW
CHECKED BY: DCL
PROJECT: 21105.16

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC

DRYDOCK #3 PUMP REPAIRS

NAVAL SHIPYARD
KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESB

CLARIFICATION SKETCH

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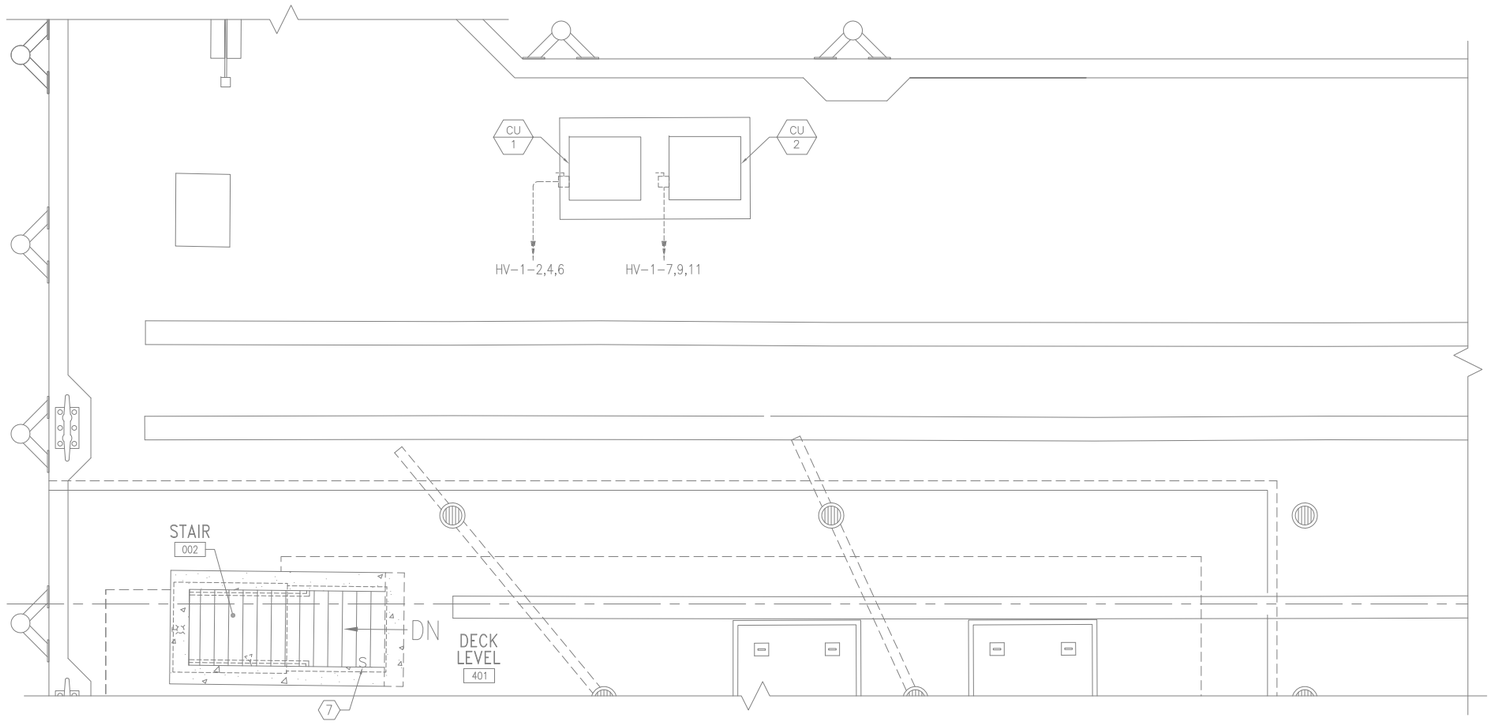
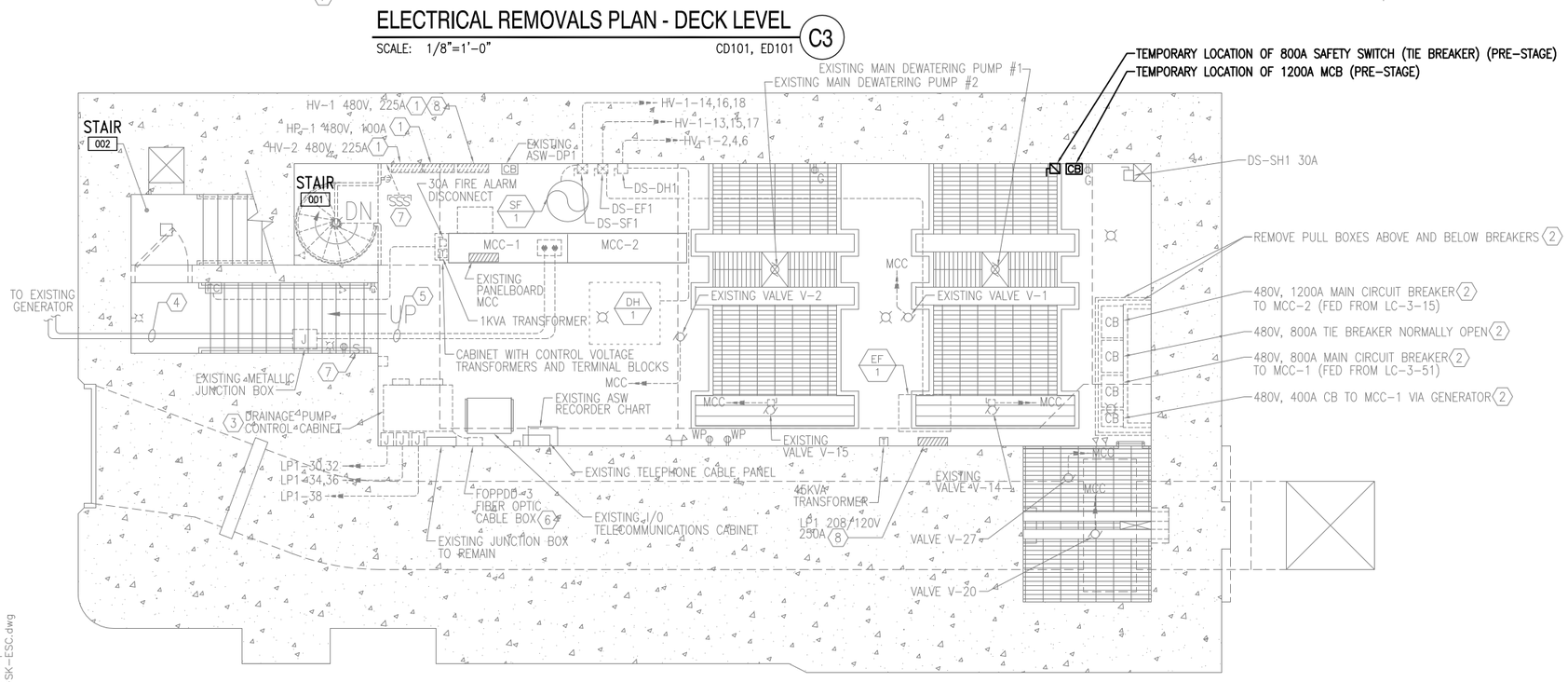


ELECTRICAL REMOVALS PLAN - DECK LEVEL (C3)

SCALE: 1/8"=1'-0" CD101, ED101



ELECTRICAL REMOVALS PLAN - OPERATING LEVEL (A3)

SCALE: 1/8"=1'-0" ED101

02 Jun, 2015 - 3:55pm
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GENERAL SHEET NOTE

1. REFER TO SHEET ED501 FOR REMOVALS ONE-LINE DIAGRAM.
2. REFER TO SHEETS E-001 AND G-003 FOR SEQUENCING NOTES.

REMOVALS KEYNOTES

1. REMOVE EXISTING PANELBOARD.
2. REFER TO SHEET E-001 FOR SEQUENCE NOTES.
3. REMOVE AND RELOCATE EXISTING DRAINAGE PUMP CONTROL CABINET. REFER TO SHEET E-101 FOR LOCATION. OUTAGE SHALL BE KEPT TO A MAXIMUM OF 4 HOURS.
4. EXISTING TWO (2) 4" PVC CONDUITS AND CONDUCTORS TO EXISTING GENERATOR SHALL REMAIN.
5. REMOVE TWO (2) EXISTING 4" RGS CONDUITS AND CONDUCTORS FROM MCC-1 TO EXISTING METALLIC JUNCTION BOX.
6. REMOVE AND RELOCATE EXISTING FIBER OPTIC CABLE BOX WITH 1" FLEX CONDUIT AND CABLE (TO DRAINAGE PUMP CONTROL PANEL). REFER TO SHEET E-101 FOR LOCATION.
7. REMOVE SWITCH(ES).
8. PROVIDE TEMPORARY POWER TO EXISTING (TO REMAIN) PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.

SEQUENCE NOTES

1. REFER TO SEQUENCE NOTES 2 AND 3.

GRAPHIC SCALE

1/8"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

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DESIGNED BY: DCL
DRAWN BY: RSW
CHECKED BY: DCL
PROJECT: 21105.16

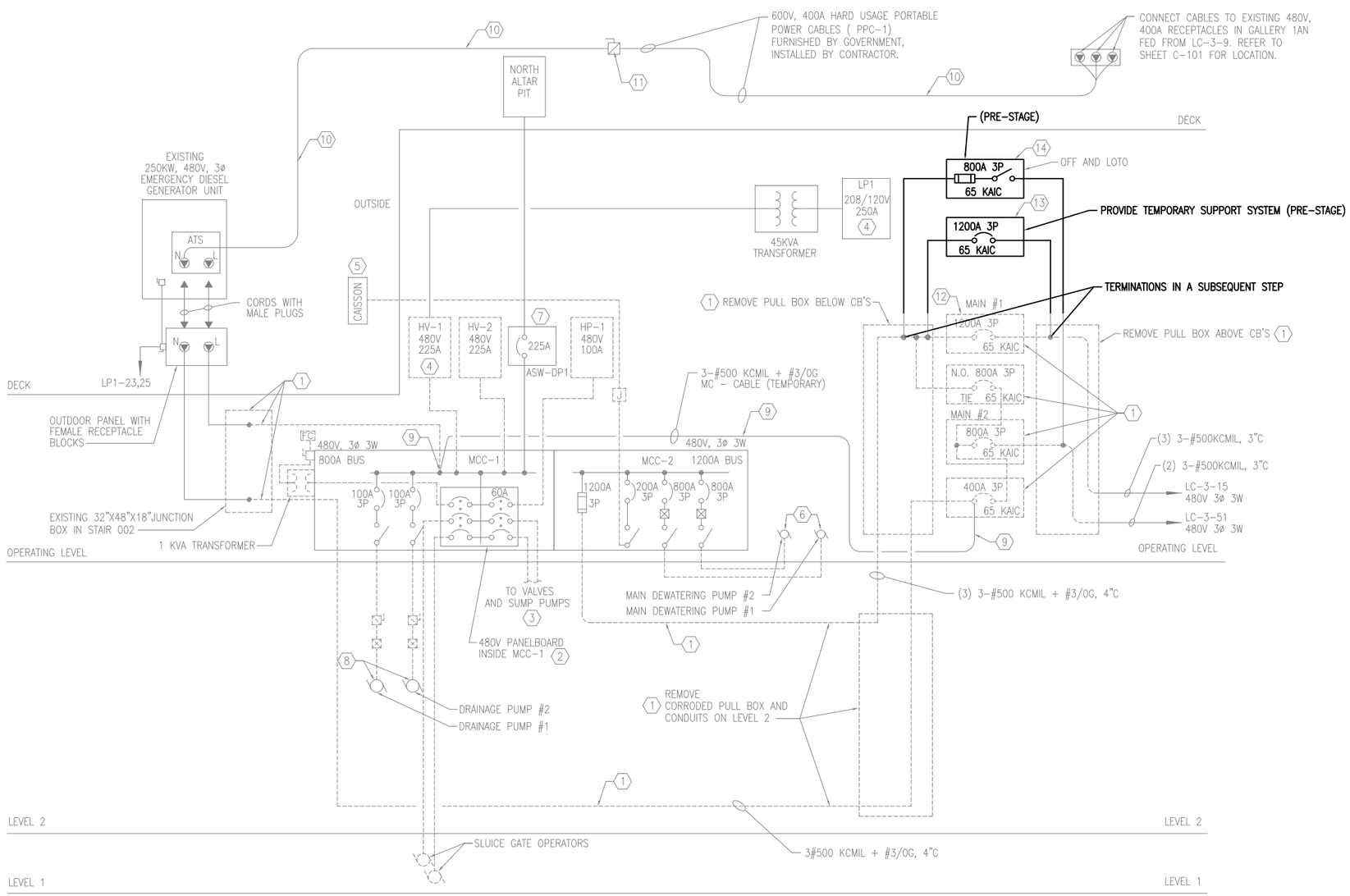
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC

DRYDOCK #3 PUMP REPAIRS

NAVAL SHIPYARD
KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESC
CLARIFICATION SKETCH



POWER DISTRIBUTION SYSTEM
ONE-LINE DIAGRAM - ELECTRICAL REMOVALS (B3)

NOT TO SCALE

KEYNOTES

1. REFER TO SHEET E-001 FOR SEQUENCING NOTES.
2. REFER TO PANELBOARD SCHEDULE ON SHEET E-602.
3. REMOVE EXISTING WIRING AND CONDUIT TO EXISTING EQUIPMENT. REFER TO SHEET E-602 FOR PANELBOARD SCHEDULE AND SHEETS ED101 AND ED102 FOR EQUIPMENT LOCATIONS.
4. PROVIDE TEMPORARY POWER FOR EXISTING PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.
5. APPROXIMATE DISTANCE FROM MCC-1 TO CAISSON IS 50'±.
6. ONLY ONE PUMP SHALL BE DOWN AT A TIME. ONE PUMP SHALL BE OPERATIONAL AT ALL TIMES.
7. ASW IN ALTAR PIT SHALL REMAIN OPERATIONAL.
8. TWO DRAINAGE PUMPS SHALL BE OPERATIONAL AT ALL TIMES.
9. PROVIDE TEMPORARY CONNECTION BETWEEN 400A CIRCUIT BREAKER AND MAIN LUGS TO MCC-1 (PRIOR TO THE REMOVAL OF EXISTING JUNCTION BOX IN STAIR 002 AND THE FEEDERS BETWEEN THIS BOX AND MCC-1). REFER TO SEQUENCING NOTES ON SHEET E-001.
10. PROVIDE TEMPORARY POWER FOR MCC-1. REFER TO SEQUENCING NOTES ON SHEET E-001.
11. PROVIDE A TEMPORARY 400A FUSIBLE DISCONNECT SWITCH AND TEMPORARY SUPPORT SYSTEM.
12. REMOVE AND SALVAGE FOR REUSE. REFER TO SEQUENCING NOTES ON SHEET E-001.
13. TEMPORARILY RELOCATE EXISTING CIRCUIT BREAKER. PROVIDE TEMPORARY SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCEING NOTES ON SHEET E-001.
14. PROVIDE TEMPORARY TIE SWITCH, FREE STANDING SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCING NOTES ON SHEET E-001.

SEQUENCE NOTES

1. REFER TO SEQUENCE NOTES 2 AND 3.

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DRAWN BY: RSW
CHECKED BY: DCL
PROJECT: 21105.16

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
DRYDOCK #3 PUMP REPAIRS
NAVAL SHIPYARD KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESD
CLARIFICATION SKETCH

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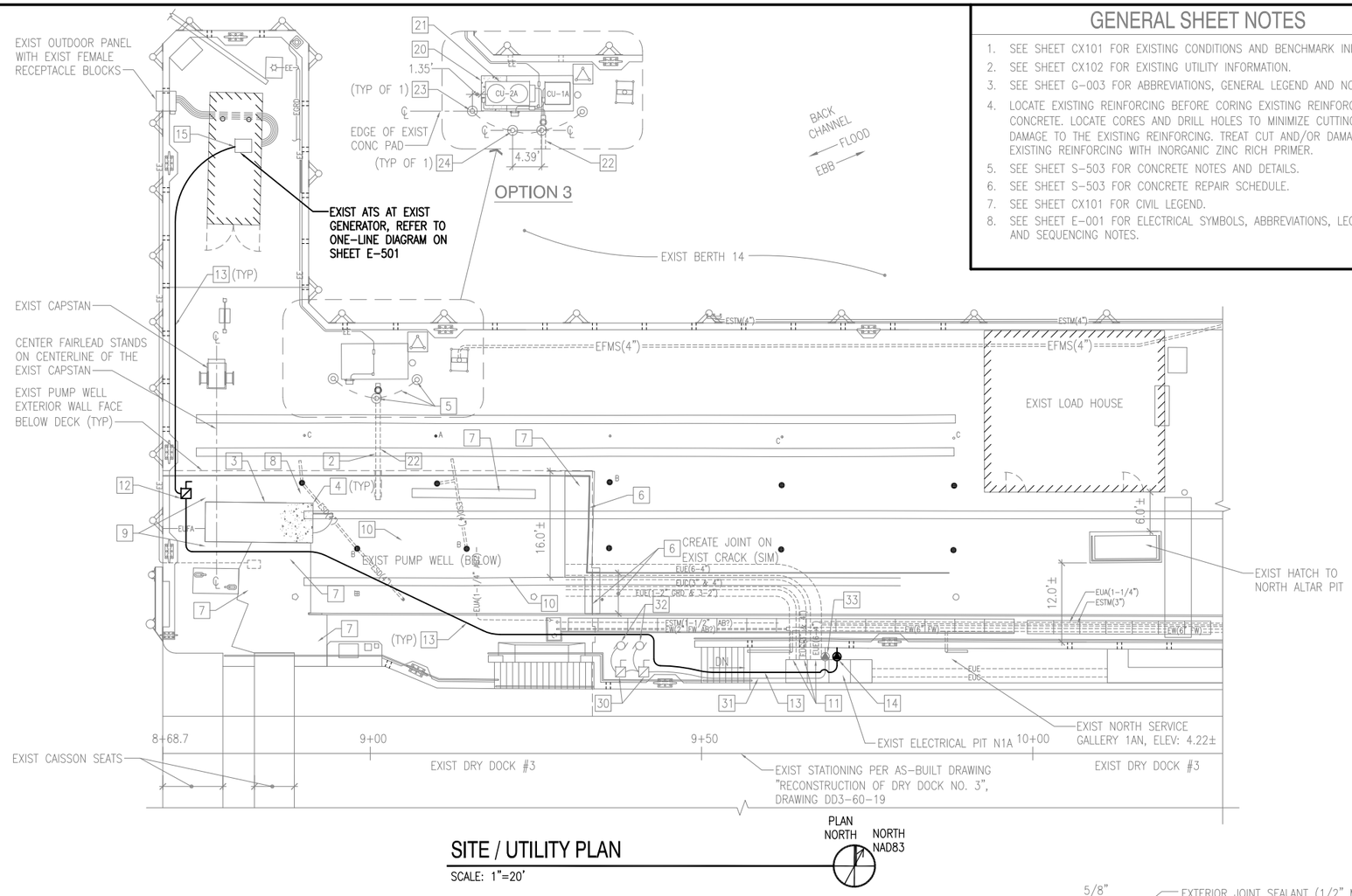
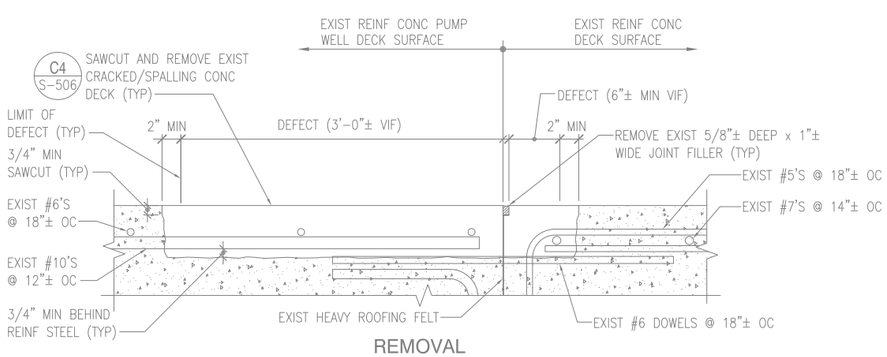


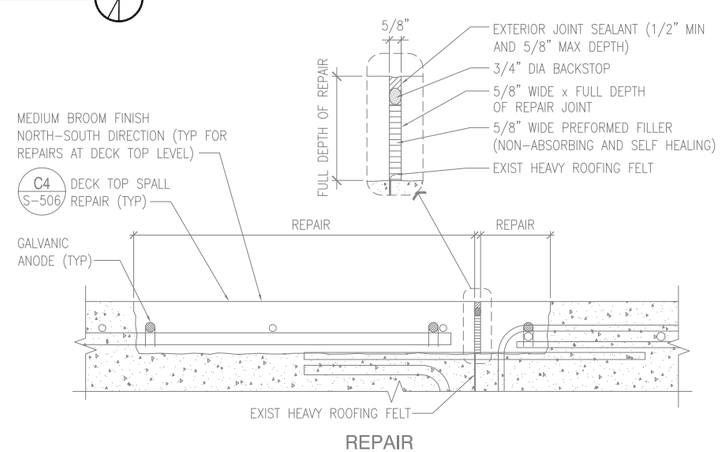
SITE / UTILITY PLAN

SCALE: 1"=20'



REMOVAL

NOTE:
DO NOT CUT EXISTING REINFORCING STEEL.



REPAIR

REPAIR EXISTING CONSTRUCTION JOINT IN DECK

SCALE: NOT TO SCALE

CD101, C-101 A3

GENERAL SHEET NOTES

1. SEE SHEET CX101 FOR EXISTING CONDITIONS AND BENCHMARK INFORMATION.
2. SEE SHEET CX102 FOR EXISTING UTILITY INFORMATION.
3. SEE SHEET G-003 FOR ABBREVIATIONS, GENERAL LEGEND AND NOTES.
4. LOCATE EXISTING REINFORCING BEFORE CORING EXISTING REINFORCED CONCRETE. LOCATE CORES AND DRILL HOLES TO MINIMIZE CUTTING AND/OR DAMAGE TO THE EXISTING REINFORCING. TREAT CUT AND/OR DAMAGED EXISTING REINFORCING WITH INORGANIC ZINC RICH PRIMER.
5. SEE SHEET S-503 FOR CONCRETE NOTES AND DETAILS.
6. SEE SHEET S-503 FOR CONCRETE REPAIR SCHEDULE.
7. SEE SHEET CX101 FOR CIVIL LEGEND.
8. SEE SHEET E-001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, LEGEND AND SEQUENCING NOTES.

KEYNOTES (THIS SHEET ONLY)

1. CONDENSER UNITS CU-1A AND CU-2A MOUNTED ON EXISTING REINFORCED CONCRETE PAD. SUPPLY PIPING, RETURN PIPING, CONTROL LINES AND ELECTRICAL POWER TO EXISTING PUMP WELL IN EXISTING 8"± PVC CONTAINMENT PIPE, SEE SHEETS M-101 AND E-101.
2. (2) UNDER DECK STAINLESS STEEL PIPE HANGERS, SEE DETAIL C3/C-502.
3. PUMP WELL ENTRANCE BULKHEAD, SEE SHEET AE401.
4. 12" WIDE x 10"± HIGH REINFORCED CONCRETE CURB, SEE DETAIL A4/C-501.
5. EXISTING GUARD POSTS AND CHAIN: PAINT SAFETY YELLOW.
6. REPAIR EXISTING 5/8"± WIDE CONSTRUCTION JOINT, SEE DETAILS A3/C-101 AND C4/S-506.
7. REPAIR EXISTING REINFORCED CONCRETE DEFECT ON PUMP WELL EXTERIOR DECK TOP SURFACE, SEE DETAIL C4/S-506.
8. FIRE ALARM TRANSMITTER ANTENNA, SEE SHEET FA101.
9. FAIRLEAD STAND CENTER ON CENTERLINE OF EXISTING CAPSTAN, SEE DETAIL C5/AE401.
10. CLEAN EDGES OF THE EXISTING OPENING AND EDGES OF THE EXISTING REINFORCED CONCRETE COVER AND REINSTALL THE EXISTING COVER. RE-SEAL EXISTING COVER EDGES WATERTIGHT WITH BACKSTOPS AND SEALANT AFTER THE EXISTING COVER IS REINSTALLED, RE-SEALING SHALL BE COMPLETED IMMEDIATELY AFTER THE EXISTING COVER IS REINSTALLED. THE EXISTING COVER SHALL BE REINSTALLED AT THE END OF THE DAY AND SHALL NOT BE LEFT OFF OVERNIGHT.
11. SEAL ENDS OF EXISTING CONDUITS IN EXISTING ELECTRICAL PIT N1A WATERTIGHT (EXISTING CONDUITS: 7-4"±, 3"± AND 4-2"± VERIFY NUMBER AND CONDUIT SIZES IN FIELD). SEE DETAIL C5/AE502.
12. TEMPORARY 400A FUSIBLE DISCONNECT SWITCH (WITH TEMPORARY SUPPORT SYSTEM) TO FEED EXISTING MCC1, REFER TO ONE-LINE DIAGRAM ON SHEET E-501.
13. 600V, 400A HARD USAGE, PORTABLE POWER CABLES (PPC-1), FURNISHED BY GOVERNMENT AND INSTALLED BY CONTRACTOR.
14. CONNECT TO EXISTING 400A RECEPTACLES IN EXISTING GALLERY 1AN (EXISTING RECEPTACLES FED FROM LOAD CENTER 3, CIRCUIT LC3-4).
15. CONNECT TO EXISTING NORMAL POWER INPUT TERMINALS OF THE EXISTING ATS.

16 – 19 NOT USED.

OPTION 3 - KEYNOTES (THIS SHEET ONLY)

20. 3'-10" x 5'-4" REINFORCED CONCRETE PAD EXTENSION FOR CONDENSER UNIT CU-2A, SEE DETAIL A2/C-501.
21. CONDENSER UNIT CU-2A MOUNTED ON REINFORCED CONCRETE PAD EXTENSION AND EXISTING CONCRETE PAD. SUPPLY PIPING, RETURN PIPING, CONTROL LINES AND ELECTRICAL POWER TO EXISTING PUMP WELL (CU-1A AND CU-2A), SEE SHEETS M-101 AND E-101.
22. 12" PVC CONTAINMENT PIPE RISER AND ELBOW ABOVE EXISTING CONCRETE DECK, SEE DETAIL A3/C-502.
23. 8" DIAMETER CONCRETE FILLED STEEL GUARD POST (PAINT: SAFETY YELLOW) AND CHAIN, SEE DETAIL B2/C-502.
24. REINSTALL EXISTING 8"± DIAMETER CONCRETE FILLED STEEL GUARD POST (PAINT: SAFETY YELLOW) AND CHAIN, SEE DETAIL B2/C-502 (SIM).

25 – 29 NOT USED.

OPTION 1 - KEYNOTES (THIS SHEET ONLY)

30. TEMPORARY FUSIBLE DISCONNECT SWITCHES (WITH TEMPORARY SUPPORT SYSTEM) FOR TEMPORARY DRAINAGE PUMPS, REFER TO SHEET E-501 FOR ONE-LINE DIAGRAM.
31. FEED TEMPORARY DISCONNECT SWITCHES FROM EXISTING 400A RECEPTACLES IN EXISTING GALLERY 1AN. TEMPORARY 600V, 400A HARD USAGE PORTABLE POWER CABLES (PPC-2), FURNISHED BY GOVERNMENT AND INSTALLED BY CONTRACTOR.
32. TEMPORARY DRAINAGE PUMPS SHALL BE LOCATED IN THE EXISTING SUMP PIT 50'± BELOW THE EXISTING DECK LEVEL.
33. CONNECT TO EXISTING 400A RECEPTACLES IN THE EXISTING GALLERY 1AN (EXISTING RECEPTACLES FED FROM LOAD CENTER 3, CIRCUIT LC3-13).

SEQUENCE NOTE

1. REFER TO SEQUENCE NOTE #4.

GRAPHIC SCALE

1"=20' — 10' 5' 0 10' 20'

CHECK GRAPHIC SCALES BEFORE USING

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DRAWN BY: RSW
CHECKED BY: DCL
PROJECT: 21105.16

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
DRYDOCK #3 PUMP REPAIRS
NAVAL SHIPYARD KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESE
CLARIFICATION SKETCH

02 Jun, 2015 – 3:58pm
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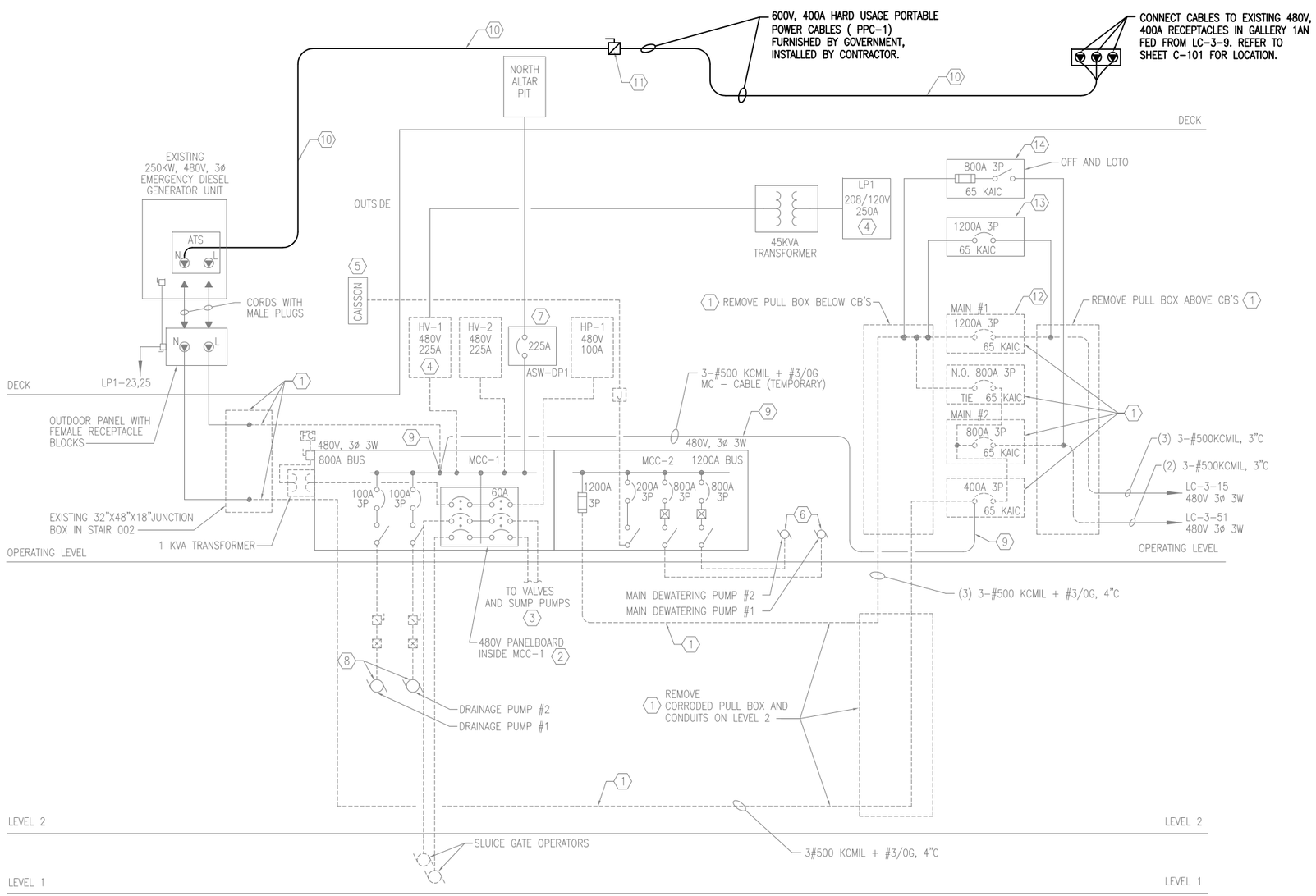

POWER DISTRIBUTION SYSTEM
ONE-LINE DIAGRAM - ELECTRICAL REMOVALS (B3)

NOT TO SCALE

KEYNOTES

1. REFER TO SHEET E-001 FOR SEQUENCING NOTES.
2. REFER TO PANELBOARD SCHEDULE ON SHEET E-602.
3. REMOVE EXISTING WIRING AND CONDUIT TO EXISTING EQUIPMENT. REFER TO SHEET E-602 FOR PANELBOARD SCHEDULE AND SHEETS ED101 AND ED102 FOR EQUIPMENT LOCATIONS.
4. PROVIDE TEMPORARY POWER FOR EXISTING PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.
5. APPROXIMATE DISTANCE FROM MCC-1 TO CAISSON IS 50'±.
6. ONLY ONE PUMP SHALL BE DOWN AT A TIME. ONE PUMP SHALL BE OPERATIONAL AT ALL TIMES.
7. ASW IN ALTAR PIT SHALL REMAIN OPERATIONAL.
8. TWO DRAINAGE PUMPS SHALL BE OPERATIONAL AT ALL TIMES.
9. PROVIDE TEMPORARY CONNECTION BETWEEN 400A CIRCUIT BREAKER AND MAIN LUGS TO MCC-1 (PRIOR TO THE REMOVAL OF EXISTING JUNCTION BOX IN STAIR 002 AND THE FEEDERS BETWEEN THIS BOX AND MCC-1). REFER TO SEQUENCING NOTES ON SHEET E-001.
10. PROVIDE TEMPORARY POWER FOR MCC-1. REFER TO SEQUENCING NOTES ON SHEET E-001.
11. PROVIDE A TEMPORARY 400A FUSIBLE DISCONNECT SWITCH AND TEMPORARY SUPPORT SYSTEM.
12. REMOVE AND SALVAGE FOR REUSE. REFER TO SEQUENCING NOTES ON SHEET E-001.
13. TEMPORARILY RELOCATE EXISTING CIRCUIT BREAKER. PROVIDE TEMPORARY SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCEING NOTES ON SHEET E-001.
14. PROVIDE TEMPORARY TIE SWITCH, FREE STANDING SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCING NOTES ON SHEET E-001.

SEQUENCE NOTE

1. REFER TO SEQUENCE NOTES 4 AND 5.

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DRAWN BY: RSW
CHECKED BY: DCL
PROJECT: 21105.16

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
DRYDOCK #3 PUMP REPAIRS
NAVAL SHIPYARD KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESF
CLARIFICATION SKETCH

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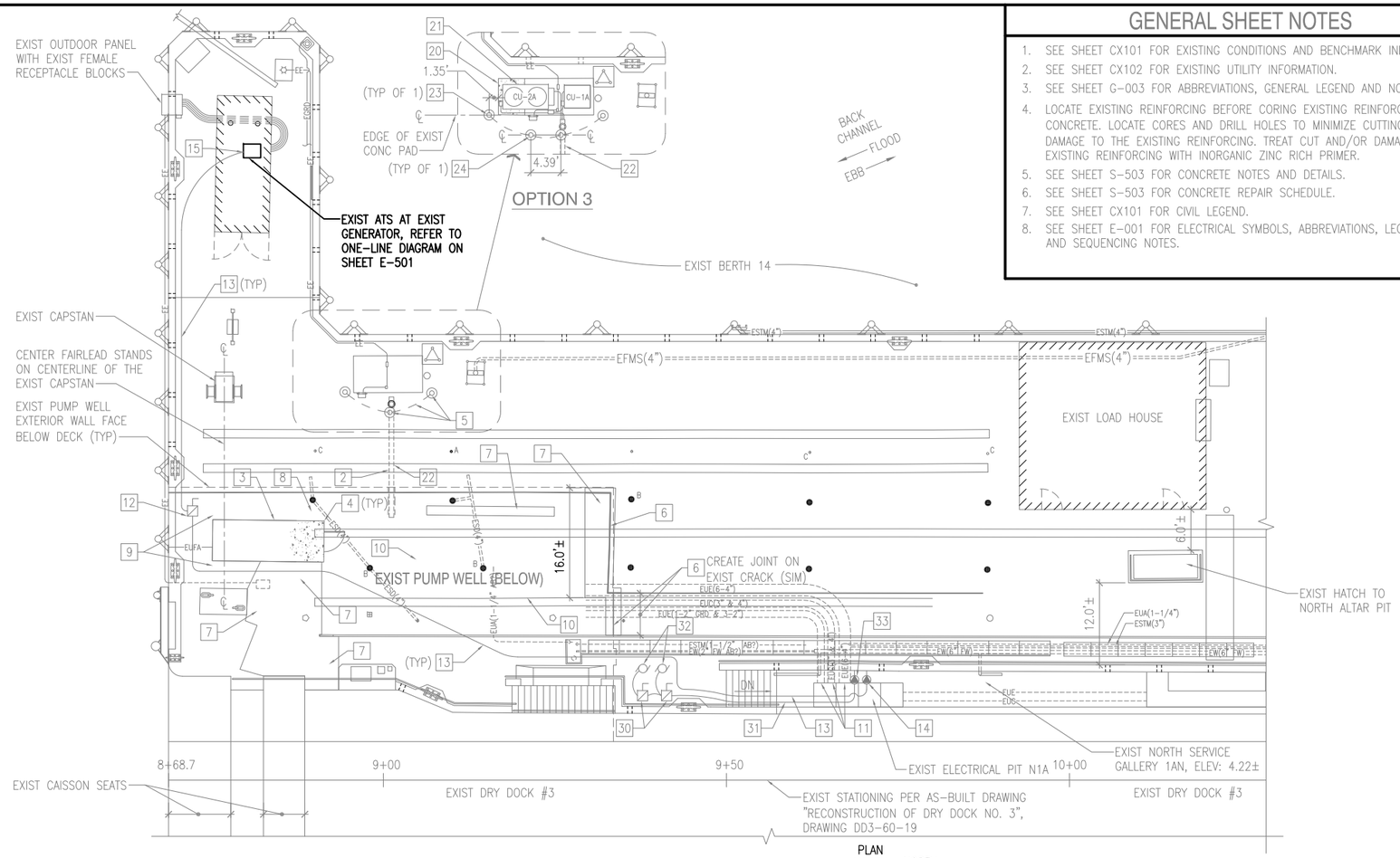


SITE / UTILITY PLAN

SCALE: 1"=20'

PLAN NORTH — NORTH NAD83

GENERAL SHEET NOTES

1. SEE SHEET CX101 FOR EXISTING CONDITIONS AND BENCHMARK INFORMATION.
2. SEE SHEET CX102 FOR EXISTING UTILITY INFORMATION.
3. SEE SHEET G-003 FOR ABBREVIATIONS, GENERAL LEGEND AND NOTES.
4. LOCATE EXISTING REINFORCING BEFORE CORING EXISTING REINFORCED CONCRETE. LOCATE CORES AND DRILL HOLES TO MINIMIZE CUTTING AND/OR DAMAGE TO THE EXISTING REINFORCING. TREAT CUT AND/OR DAMAGED EXISTING REINFORCING WITH INORGANIC ZINC RICH PRIMER.
5. SEE SHEET S-503 FOR CONCRETE NOTES AND DETAILS.
6. SEE SHEET S-503 FOR CONCRETE REPAIR SCHEDULE.
7. SEE SHEET CX101 FOR CIVIL LEGEND.
8. SEE SHEET E-001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, LEGEND AND SEQUENCING NOTES.

KEYNOTES (THIS SHEET ONLY)

1. CONDENSER UNITS CU-1A AND CU-2A MOUNTED ON EXISTING REINFORCED CONCRETE PAD. SUPPLY PIPING, RETURN PIPING, CONTROL LINES AND ELECTRICAL POWER TO EXISTING PUMP WELL IN EXISTING 8"± PVC CONTAINMENT PIPE, SEE SHEETS M-101 AND E-101.
2. (2) UNDER DECK STAINLESS STEEL PIPE HANGERS, SEE DETAIL C3/C-502.
3. PUMP WELL ENTRANCE BULKHEAD, SEE SHEET AE401.
4. 12" WIDE x 10"± HIGH REINFORCED CONCRETE CURB, SEE DETAIL A4/C-501.
5. EXISTING GUARD POSTS AND CHAIN: PAINT SAFETY YELLOW.
6. REPAIR EXISTING 5/8"± WIDE CONSTRUCTION JOINT, SEE DETAILS A3/C-101 AND C4/S-506.
7. REPAIR EXISTING REINFORCED CONCRETE DEFECT ON PUMP WELL EXTERIOR DECK TOP SURFACE, SEE DETAIL C4/S-506.
8. FIRE ALARM TRANSMITTER ANTENNA, SEE SHEET FA101.
9. FAIRLEAD STAND CENTER ON CENTERLINE OF EXISTING CAPSTAN, SEE DETAIL C5/AE401.
10. CLEAN EDGES OF THE EXISTING OPENING AND EDGES OF THE EXISTING REINFORCED CONCRETE COVER AND REINSTALL THE EXISTING COVER. RE-SEAL EXISTING COVER EDGES WATERTIGHT WITH BACKSTOPS AND SEALANT AFTER THE EXISTING COVER IS REINSTALLED, RE-SEALING SHALL BE COMPLETED IMMEDIATELY AFTER THE EXISTING COVER IS REINSTALLED. THE EXISTING COVER SHALL BE REINSTALLED AT THE END OF THE DAY AND SHALL NOT BE LEFT OFF OVERNIGHT.
11. SEAL ENDS OF EXISTING CONDUITS IN EXISTING ELECTRICAL PIT N1A WATERTIGHT (EXISTING CONDUITS: 7-4"±, 3"± AND 4-2"± VERIFY NUMBER AND CONDUIT SIZES IN FIELD). SEE DETAIL C5/AE502.
12. TEMPORARY 400A FUSIBLE DISCONNECT SWITCH (WITH TEMPORARY SUPPORT SYSTEM) TO FEED EXISTING MCC1, REFER TO ONE-LINE DIAGRAM ON SHEET E-501.
13. 600V, 400A HARD USAGE, PORTABLE POWER CABLES (PPC-1), FURNISHED BY GOVERNMENT AND INSTALLED BY CONTRACTOR.
14. CONNECT TO EXISTING 400A RECEPTACLES IN EXISTING GALLERY 1AN (EXISTING RECEPTACLES FED FROM LOAD CENTER 3, CIRCUIT LC3-4).
15. CONNECT TO EXISTING NORMAL POWER INPUT TERMINALS OF THE EXISTING ATS.

16 – 19 NOT USED.

OPTION 3 - KEYNOTES (THIS SHEET ONLY)

20. 3'-10" x 5'-4" REINFORCED CONCRETE PAD EXTENSION FOR CONDENSER UNIT CU-2A, SEE DETAIL A2/C-501.
21. CONDENSER UNIT CU-2A MOUNTED ON REINFORCED CONCRETE PAD EXTENSION AND EXISTING CONCRETE PAD. SUPPLY PIPING, RETURN PIPING, CONTROL LINES AND ELECTRICAL POWER TO EXISTING PUMP WELL (CU-1A AND CU-2A), SEE SHEETS M-101 AND E-101.
22. 12" PVC CONTAINMENT PIPE RISER AND ELBOW ABOVE EXISTING CONCRETE DECK, SEE DETAIL A3/C-502.
23. 8" DIAMETER CONCRETE FILLED STEEL GUARD POST (PAINT: SAFETY YELLOW) AND CHAIN, SEE DETAIL B2/C-502.
24. REINSTALL EXISTING 8"± DIAMETER CONCRETE FILLED STEEL GUARD POST (PAINT: SAFETY YELLOW) AND CHAIN, SEE DETAIL B2/C-502 (SIM).

25 – 29 NOT USED.

OPTION 1 - KEYNOTES (THIS SHEET ONLY)

30. TEMPORARY FUSIBLE DISCONNECT SWITCHES (WITH TEMPORARY SUPPORT SYSTEM) FOR TEMPORARY DRAINAGE PUMPS, REFER TO SHEET E-501 FOR ONE-LINE DIAGRAM.
31. FEED TEMPORARY DISCONNECT SWITCHES FROM EXISTING 400A RECEPTACLES IN EXISTING GALLERY 1AN. TEMPORARY 600V, 400A HARD USAGE PORTABLE POWER CABLES (PPC-2), FURNISHED BY GOVERNMENT AND INSTALLED BY CONTRACTOR.
32. TEMPORARY DRAINAGE PUMPS SHALL BE LOCATED IN THE EXISTING SUMP PIT 50'± BELOW THE EXISTING DECK LEVEL.
33. CONNECT TO EXISTING 400A RECEPTACLES IN THE EXISTING GALLERY 1AN (EXISTING RECEPTACLES FED FROM LOAD CENTER 3, CIRCUIT LC3-13).

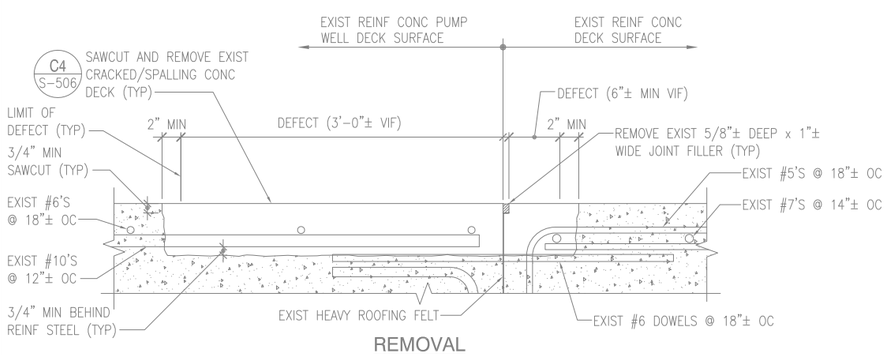
SEQUENCE NOTE

1. REFER TO SEQUENCE NOTE 5.

GRAPHIC SCALE

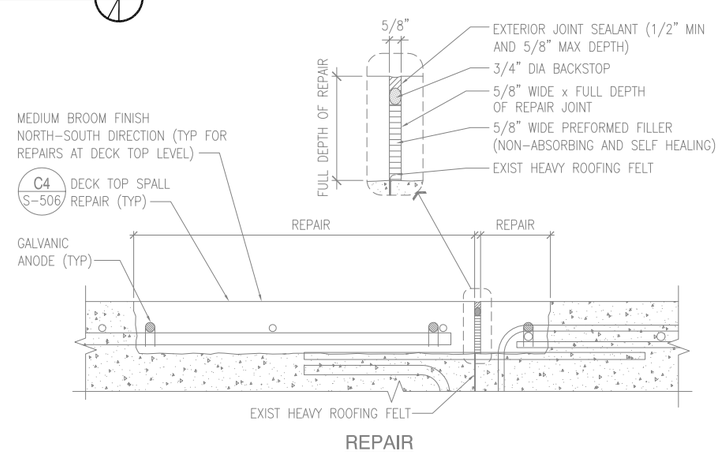
1"=20' — 10' 5' 0 10' 20'

CHECK GRAPHIC SCALES BEFORE USING



REMOVAL

NOTE:
DO NOT CUT EXISTING REINFORCING STEEL.



REPAIR

REPAIR EXISTING CONSTRUCTION JOINT IN DECK

SCALE: NOT TO SCALE — CD101, C-101 — A3

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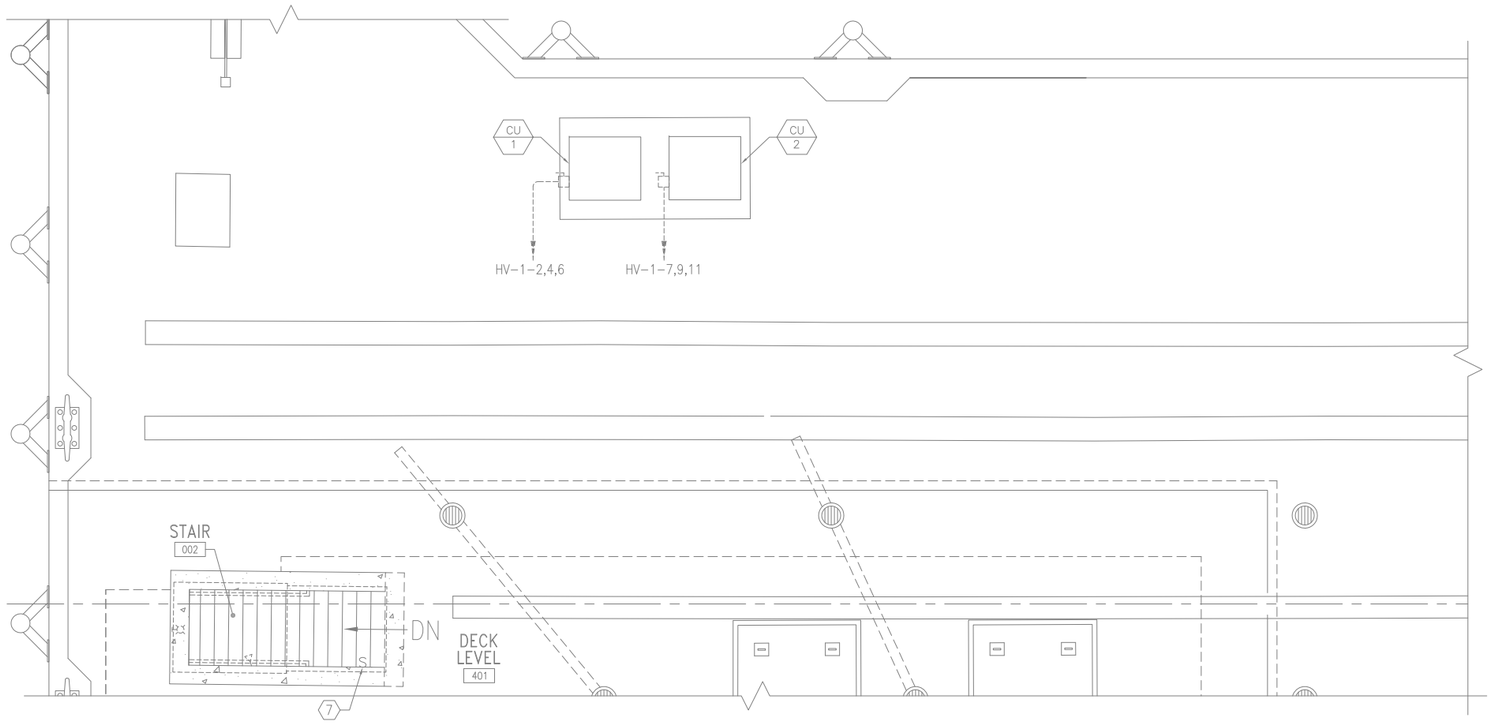
CHECKED BY: DCL
PROJECT: 21105.16

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
DRYDOCK #3 PUMP REPAIRS
NAVAL SHIPYARD KITTERY, MAINE

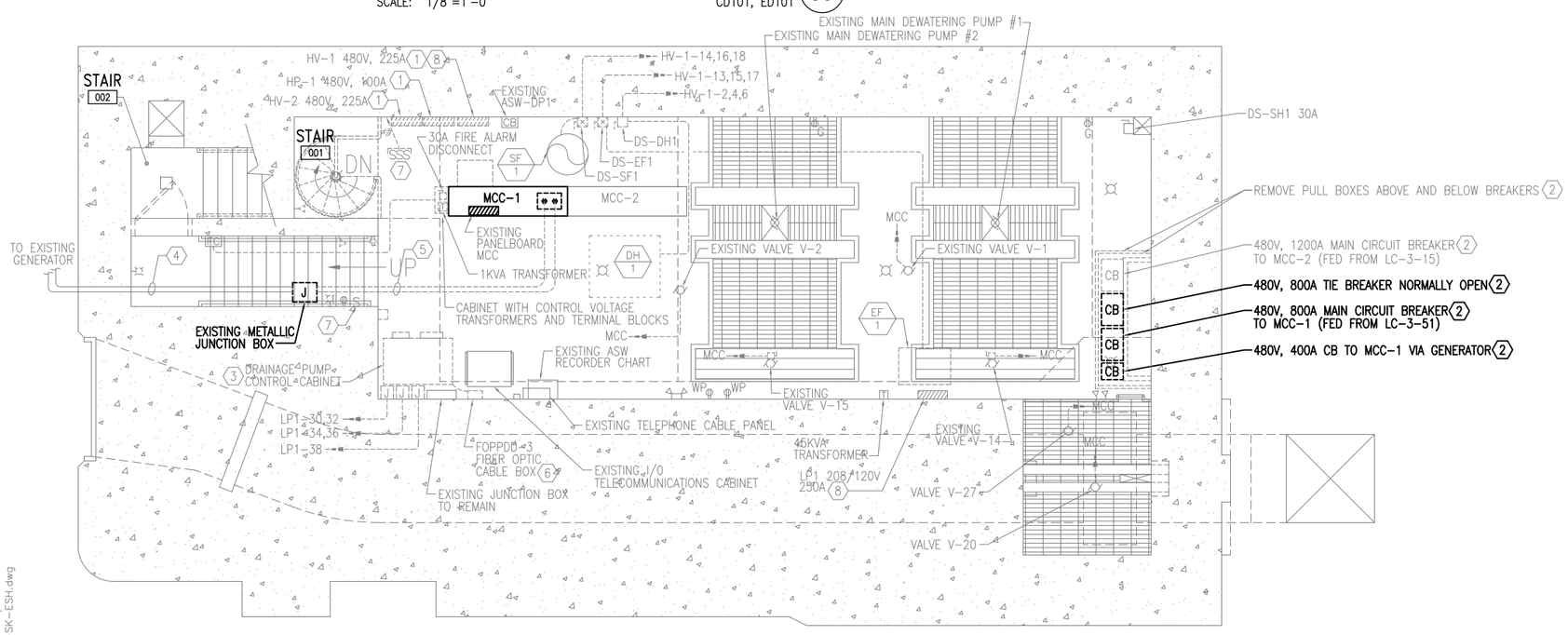
SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESG
CLARIFICATION SKETCH



ELECTRICAL REMOVALS PLAN - DECK LEVEL (C3)

SCALE: 1/8"=1'-0" CD101, ED101



ELECTRICAL REMOVALS PLAN - OPERATING LEVEL (A3)

SCALE: 1/8"=1'-0" ED101

GENERAL SHEET NOTE

1. REFER TO SHEET ED501 FOR REMOVALS ONE-LINE DIAGRAM.
2. REFER TO SHEETS E-001 AND G-003 FOR SEQUENCING NOTES.

REMOVALS KEYNOTES

1. REMOVE EXISTING PANELBOARD.
2. REFER TO SHEET E-001 FOR SEQUENCE NOTES.
3. REMOVE AND RELOCATE EXISTING DRAINAGE PUMP CONTROL CABINET. REFER TO SHEET E-101 FOR LOCATION. OUTAGE SHALL BE KEPT TO A MAXIMUM OF 4 HOURS.
4. EXISTING TWO (2) 4" PVC CONDUITS AND CONDUCTORS TO EXISTING GENERATOR SHALL REMAIN.
5. REMOVE TWO (2) EXISTING 4" RGS CONDUITS AND CONDUCTORS FROM MCC-1 TO EXISTING METALLIC JUNCTION BOX.
6. REMOVE AND RELOCATE EXISTING FIBER OPTIC CABLE BOX WITH 1" FLEX CONDUIT AND CABLE (TO DRAINAGE PUMP CONTROL PANEL). REFER TO SHEET E-101 FOR LOCATION.
7. REMOVE SWITCH(ES).
8. PROVIDE TEMPORARY POWER TO EXISTING (TO REMAIN) PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.

SEQUENCE NOTES

1. REFER TO SEQUENCE NOTES 6 AND 7.

GRAPHIC SCALE

1/8"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

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CHECKED BY: DCL
PROJECT: 21105.16

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC

DRYDOCK #3 PUMP REPAIRS

NAVAL SHIPYARD
KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV:

SK-ESH

CLARIFICATION SKETCH

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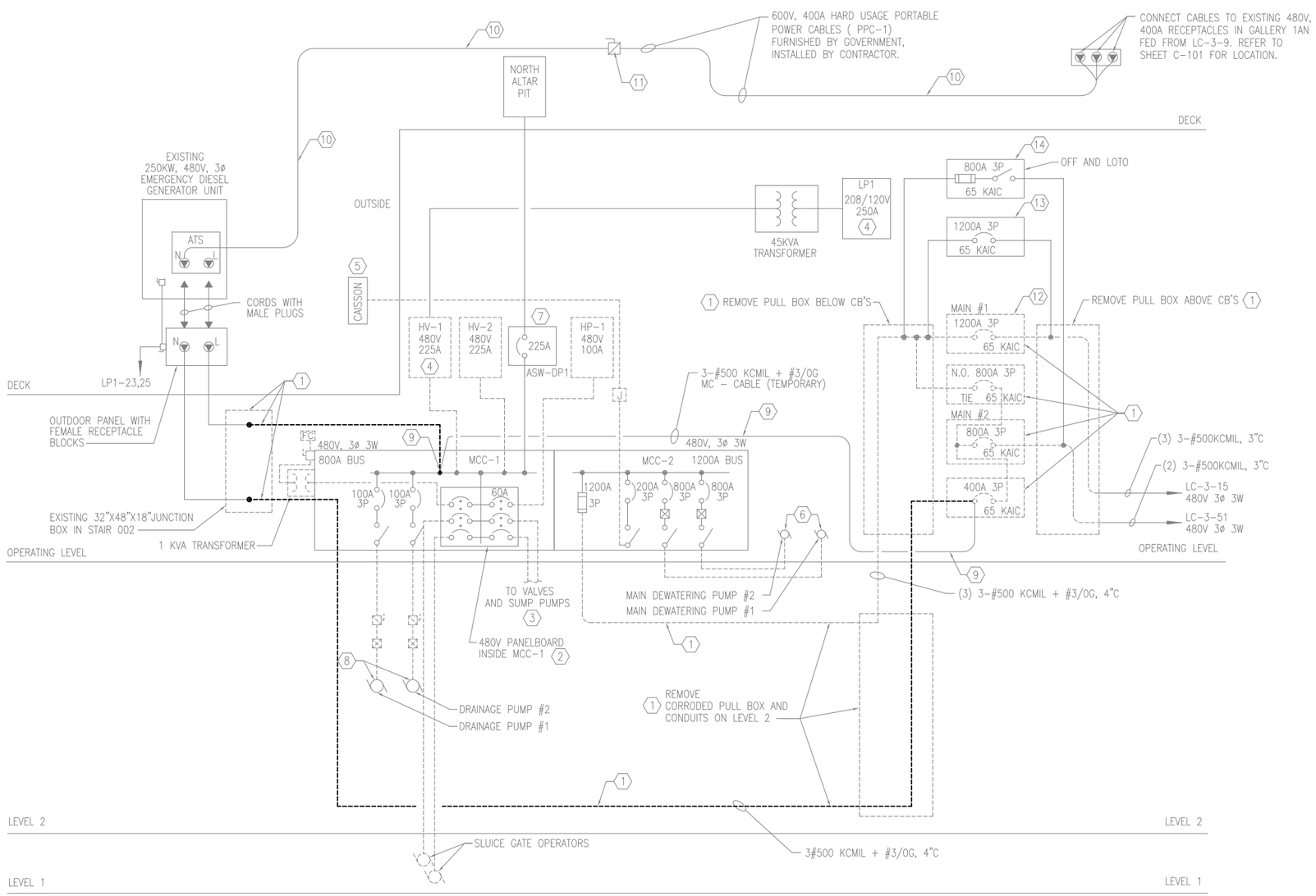

POWER DISTRIBUTION SYSTEM
ONE-LINE DIAGRAM - ELECTRICAL REMOVALS (B3)

NOT TO SCALE

KEYNOTES

1. REFER TO SHEET E-001 FOR SEQUENCING NOTES.
2. REFER TO PANELBOARD SCHEDULE ON SHEET E-602.
3. REMOVE EXISTING WIRING AND CONDUIT TO EXISTING EQUIPMENT. REFER TO SHEET E-602 FOR PANELBOARD SCHEDULE AND SHEETS ED101 AND ED102 FOR EQUIPMENT LOCATIONS.
4. PROVIDE TEMPORARY POWER FOR EXISTING PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.
5. APPROXIMATE DISTANCE FROM MCC-1 TO CAISSON IS 50'±.
6. ONLY ONE PUMP SHALL BE DOWN AT A TIME. ONE PUMP SHALL BE OPERATIONAL AT ALL TIMES.
7. ASW IN ALTAR PIT SHALL REMAIN OPERATIONAL.
8. TWO DRAINAGE PUMPS SHALL BE OPERATIONAL AT ALL TIMES.
9. PROVIDE TEMPORARY CONNECTION BETWEEN 400A CIRCUIT BREAKER AND MAIN LUGS TO MCC-1 (PRIOR TO THE REMOVAL OF EXISTING JUNCTION BOX IN STAIR 002 AND THE FEEDERS BETWEEN THIS BOX AND MCC-1). REFER TO SEQUENCING NOTES ON SHEET E-001.
10. PROVIDE TEMPORARY POWER FOR MCC-1. REFER TO SEQUENCING NOTES ON SHEET E-001.
11. PROVIDE A TEMPORARY 400A FUSIBLE DISCONNECT SWITCH AND TEMPORARY SUPPORT SYSTEM.
12. REMOVE AND SALVAGE FOR REUSE. REFER TO SEQUENCING NOTES ON SHEET E-001.
13. TEMPORARILY RELOCATE EXISTING CIRCUIT BREAKER. PROVIDE TEMPORARY SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCEING NOTES ON SHEET E-001.
14. PROVIDE TEMPORARY TIE SWITCH, FREE STANDING SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCING NOTES ON SHEET E-001.

SEQUENCE NOTE

1. REFER TO SEQUENCE NOTE #7.

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NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
DRYDOCK #3 PUMP REPAIRS
NAVAL SHIPYARD KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESI
CLARIFICATION SKETCH

02 Jun, 2015 - 4:02pm
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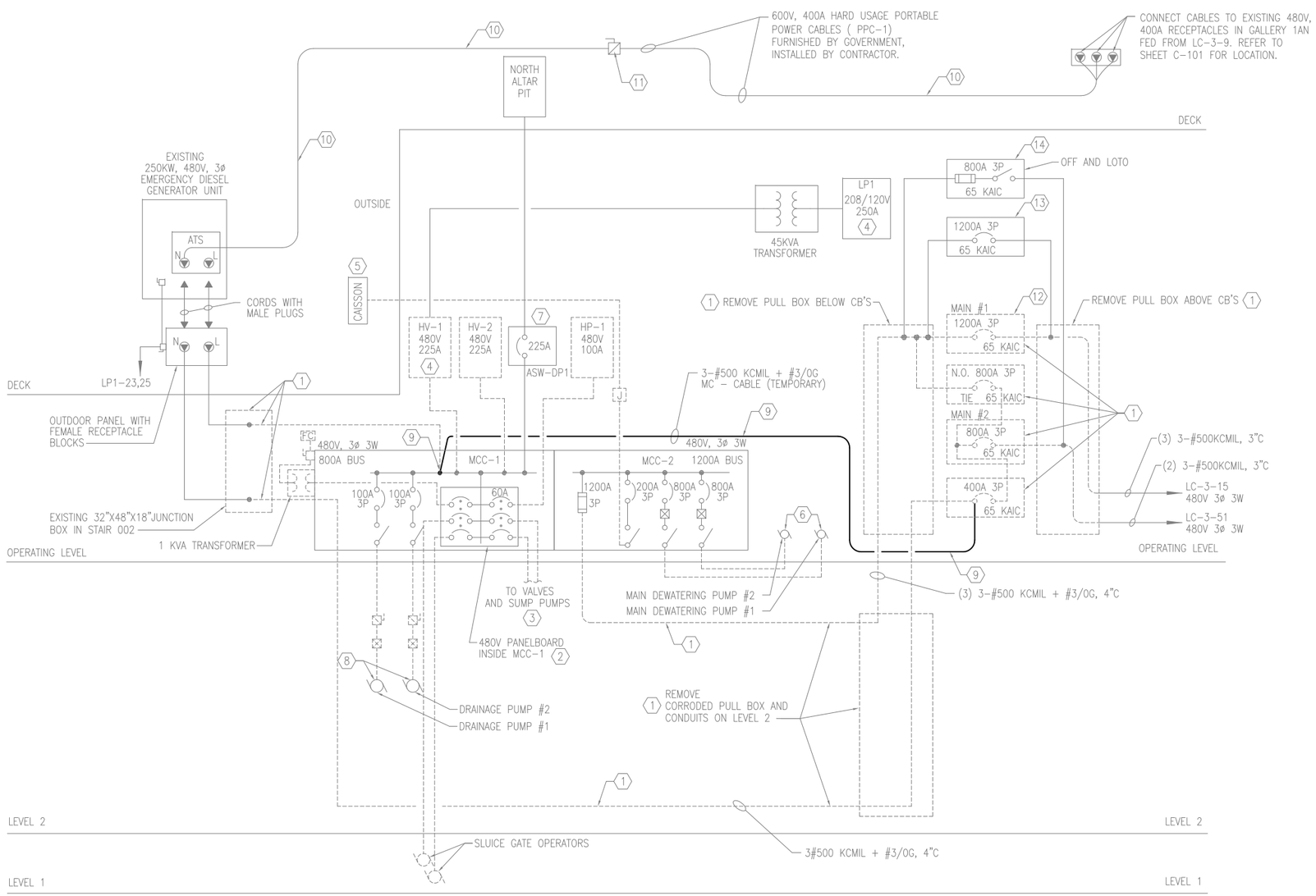

POWER DISTRIBUTION SYSTEM
ONE-LINE DIAGRAM - ELECTRICAL REMOVALS

NOT TO SCALE

B3

KEYNOTES

1. REFER TO SHEET E-001 FOR SEQUENCING NOTES.
2. REFER TO PANELBOARD SCHEDULE ON SHEET E-602.
3. REMOVE EXISTING WIRING AND CONDUIT TO EXISTING EQUIPMENT. REFER TO SHEET E-602 FOR PANELBOARD SCHEDULE AND SHEETS ED101 AND ED102 FOR EQUIPMENT LOCATIONS.
4. PROVIDE TEMPORARY POWER FOR EXISTING PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.
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12. REMOVE AND SALVAGE FOR REUSE. REFER TO SEQUENCING NOTES ON SHEET E-001.
13. TEMPORARILY RELOCATE EXISTING CIRCUIT BREAKER. PROVIDE TEMPORARY SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCEING NOTES ON SHEET E-001.
14. PROVIDE TEMPORARY TIE SWITCH, FREE STANDING SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCING NOTES ON SHEET E-001.

SEQUENCE NOTE

1. REFER TO SEQUENCE NOTE 8.

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DRAWN BY: RSW
CHECKED BY: DCL
PROJECT: 21105.16

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
DRYDOCK #3 PUMP REPAIRS
NAVAL SHIPYARD KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESJ
CLARIFICATION SKETCH

02 Jun, 2015 - 4:02pm
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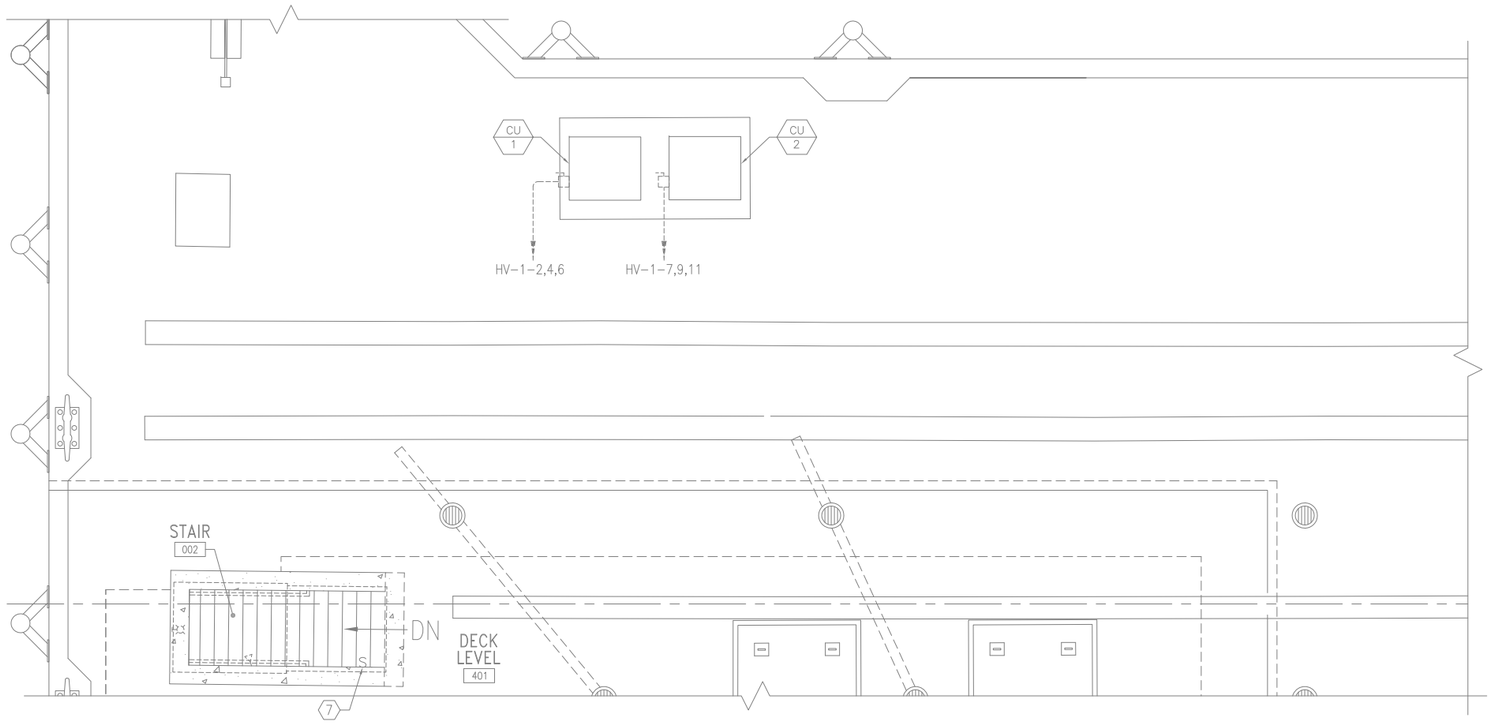
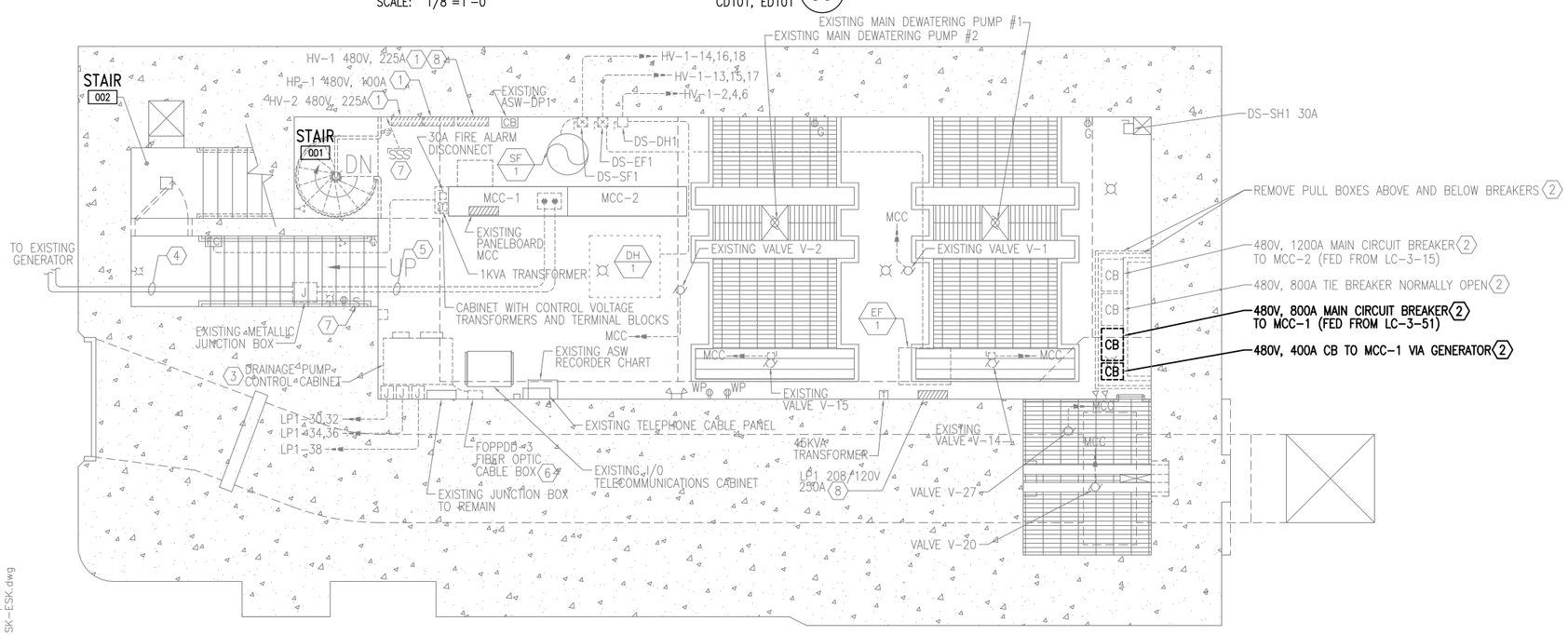


ELECTRICAL REMOVALS PLAN - DECK LEVEL

SCALE: 1/8"=1'-0" CD101, ED101 C3



ELECTRICAL REMOVALS PLAN - OPERATING LEVEL

SCALE: 1/8"=1'-0" ED101 A3

02 Jun, 2015 - 4:04pm
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GENERAL SHEET NOTE

1. REFER TO SHEET ED501 FOR REMOVALS ONE-LINE DIAGRAM.
2. REFER TO SHEETS E-001 AND G-003 FOR SEQUENCING NOTES.

REMOVALS KEYNOTES

1. REMOVE EXISTING PANELBOARD.
2. REFER TO SHEET E-001 FOR SEQUENCE NOTES.
3. REMOVE AND RELOCATE EXISTING DRAINAGE PUMP CONTROL CABINET. REFER TO SHEET E-101 FOR LOCATION. OUTAGE SHALL BE KEPT TO A MAXIMUM OF 4 HOURS.
4. EXISTING TWO (2) 4" PVC CONDUITS AND CONDUCTORS TO EXISTING GENERATOR SHALL REMAIN.
5. REMOVE TWO (2) EXISTING 4" RGS CONDUITS AND CONDUCTORS FROM MCC-1 TO EXISTING METALLIC JUNCTION BOX.
6. REMOVE AND RELOCATE EXISTING FIBER OPTIC CABLE BOX WITH 1" FLEX CONDUIT AND CABLE (TO DRAINAGE PUMP CONTROL PANEL). REFER TO SHEET E-101 FOR LOCATION.
7. REMOVE SWITCH(ES).
8. PROVIDE TEMPORARY POWER TO EXISTING (TO REMAIN) PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.

SEQUENCE NOTES

1. REFER TO SEQUENCE NOTE 9.

GRAPHIC SCALE

1/8"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

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CHECKED BY: DCL
PROJECT: 21105.16

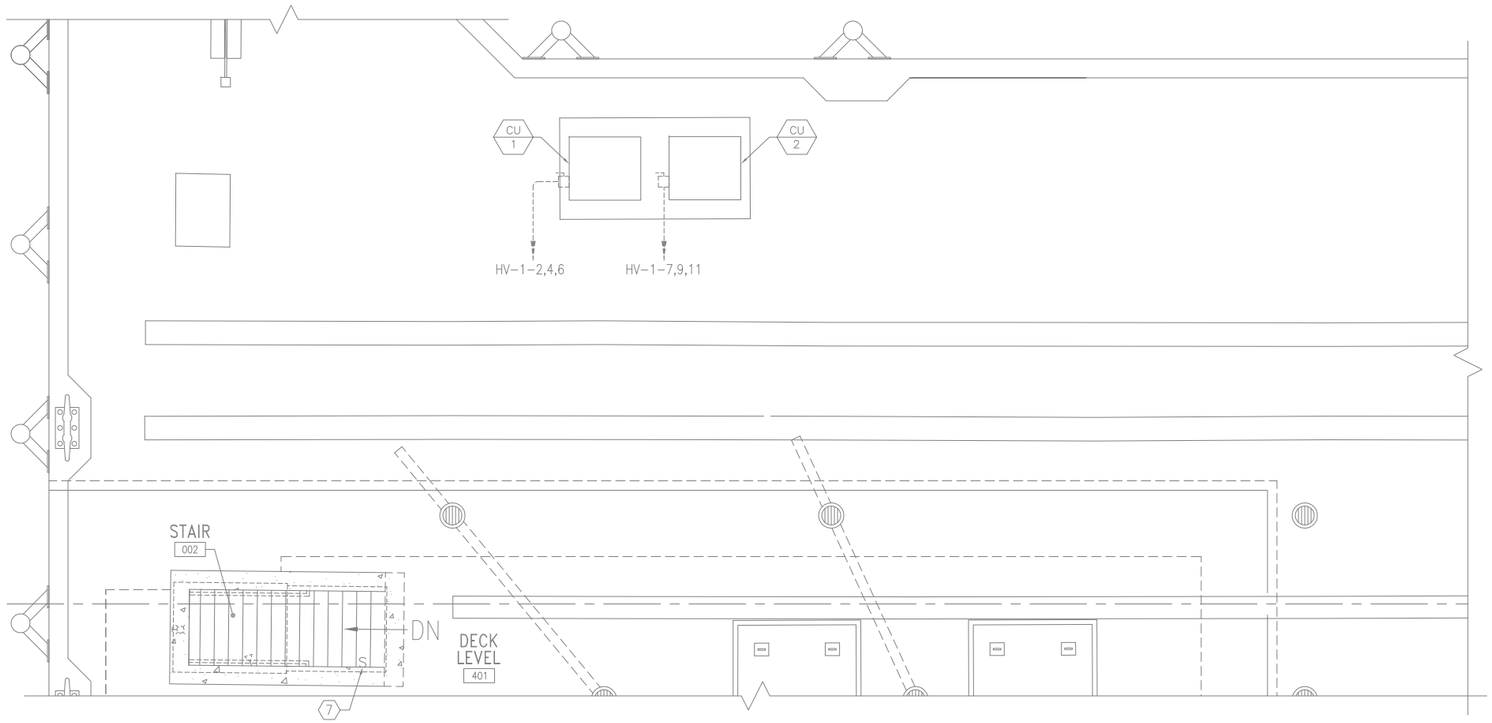
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC

DRYDOCK #3 PUMP REPAIRS

NAVAL SHIPYARD
KITTERY, MAINE

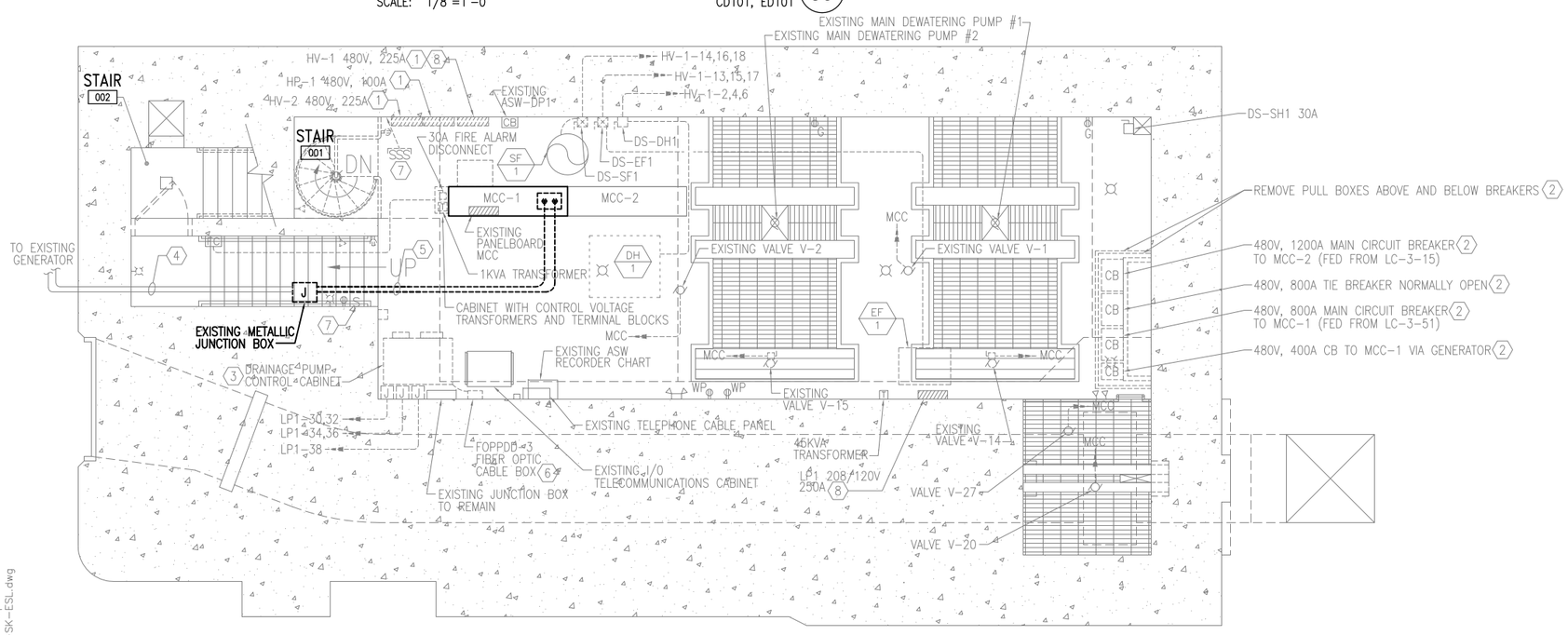
SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESK
CLARIFICATION SKETCH



ELECTRICAL REMOVALS PLAN - DECK LEVEL (C3)

SCALE: 1/8"=1'-0" CD101, ED101



ELECTRICAL REMOVALS PLAN - OPERATING LEVEL (A3)

SCALE: 1/8"=1'-0" ED101

02 Jun, 2015 - 4:05pm
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GENERAL SHEET NOTE

1. REFER TO SHEET ED501 FOR REMOVALS ONE-LINE DIAGRAM.
2. REFER TO SHEETS E-001 AND G-003 FOR SEQUENCING NOTES.

REMOVALS KEYNOTES

1. REMOVE EXISTING PANELBOARD.
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3. REMOVE AND RELOCATE EXISTING DRAINAGE PUMP CONTROL CABINET. REFER TO SHEET E-101 FOR LOCATION. OUTAGE SHALL BE KEPT TO A MAXIMUM OF 4 HOURS.
4. EXISTING TWO (2) 4" PVC CONDUITS AND CONDUCTORS TO EXISTING GENERATOR SHALL REMAIN.
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6. REMOVE AND RELOCATE EXISTING FIBER OPTIC CABLE BOX WITH 1" FLEX CONDUIT AND CABLE (TO DRAINAGE PUMP CONTROL PANEL). REFER TO SHEET E-101 FOR LOCATION.
7. REMOVE SWITCH(ES).
8. PROVIDE TEMPORARY POWER TO EXISTING (TO REMAIN) PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.

SEQUENCE NOTES

1. REFER TO SEQUENCE NOTE 10.

GRAPHIC SCALE

1/8"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

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DRAWN BY: RSW
CHECKED BY: DCL
PROJECT: 21105.16

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC

DRYDOCK #3 PUMP REPAIRS

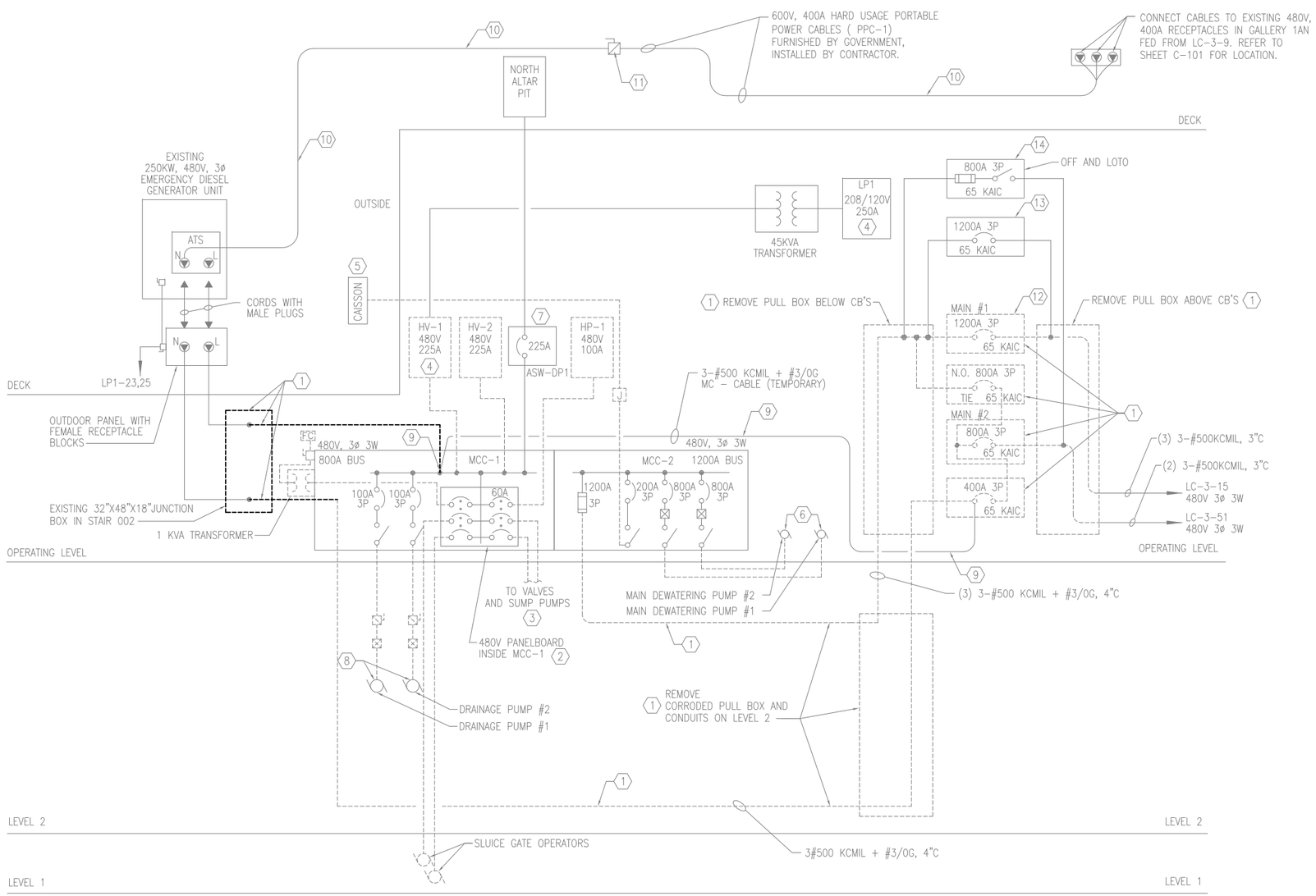
NAVAL SHIPYARD
KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV:

SK-ESL

CLARIFICATION SKETCH



POWER DISTRIBUTION SYSTEM
ONE-LINE DIAGRAM - ELECTRICAL REMOVALS

NOT TO SCALE

B3

KEYNOTES

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SEQUENCE NOTE

1. REFER TO SEQUENCE NOTE 10.

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CHECKED BY: DCL
PROJECT: 21105.16

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC

DRYDOCK #3 PUMP REPAIRS

NAVAL SHIPYARD
KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESM
CLARIFICATION SKETCH

02 Jun, 2015 - 4:05pm
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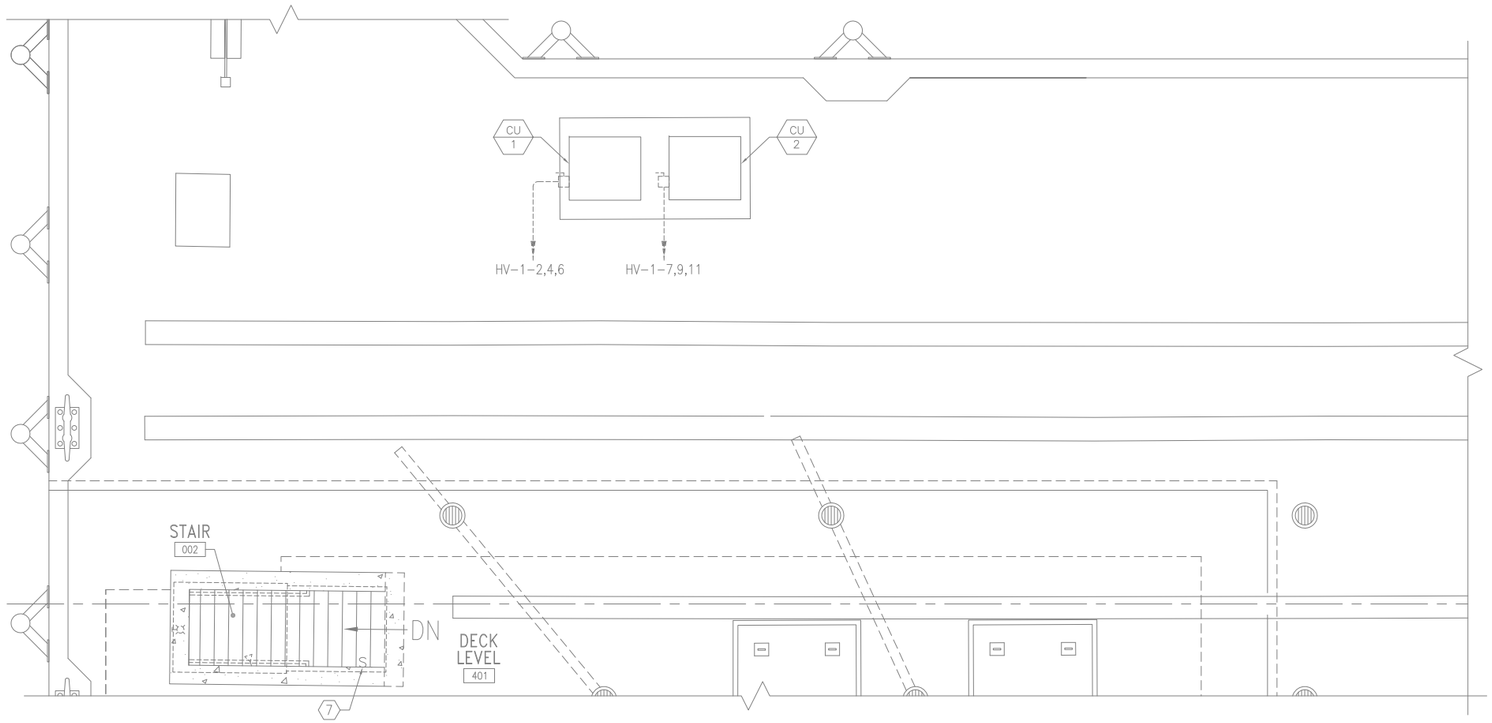
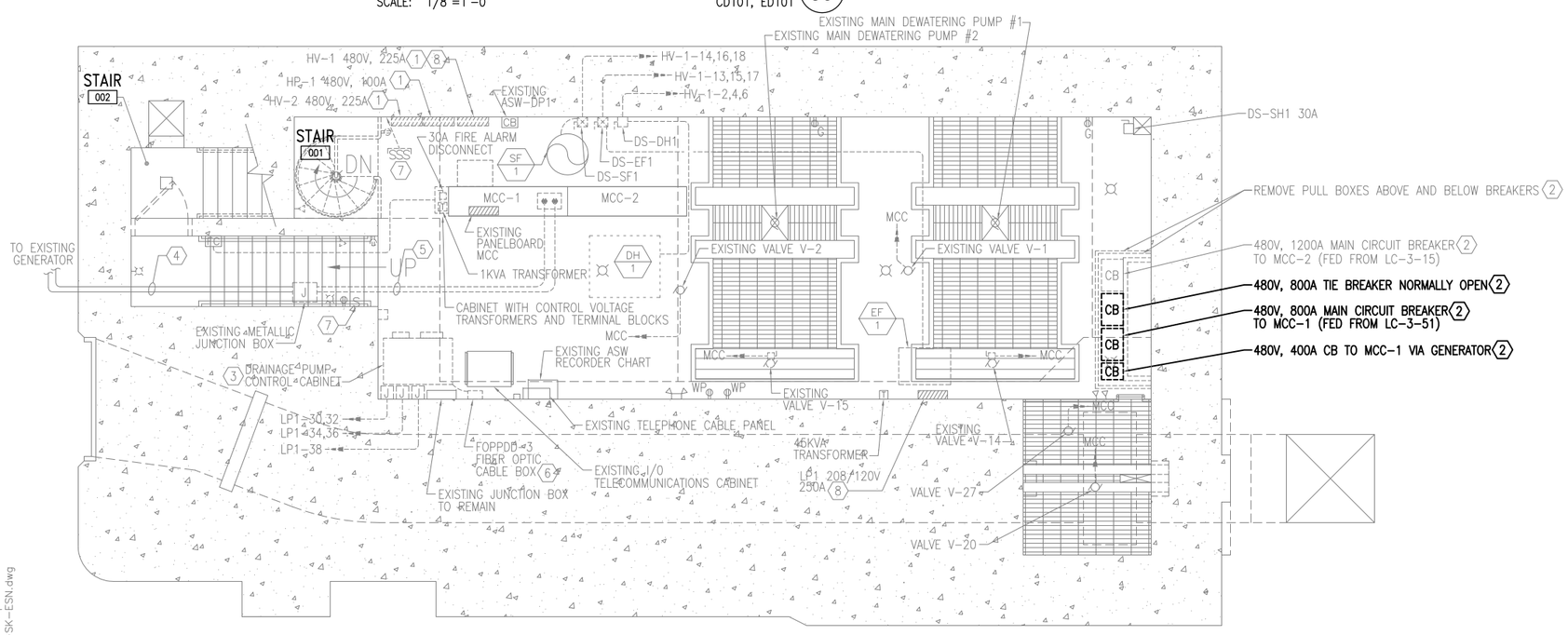


ELECTRICAL REMOVALS PLAN - DECK LEVEL (C3)

SCALE: 1/8"=1'-0" CD101, ED101



ELECTRICAL REMOVALS PLAN - OPERATING LEVEL (A3)

SCALE: 1/8"=1'-0" ED101

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GENERAL SHEET NOTE

1. REFER TO SHEET ED501 FOR REMOVALS ONE-LINE DIAGRAM.
2. REFER TO SHEETS E-001 AND G-003 FOR SEQUENCING NOTES.

REMOVALS KEYNOTES

1. REMOVE EXISTING PANELBOARD.
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8. PROVIDE TEMPORARY POWER TO EXISTING (TO REMAIN) PANELBOARD LP1 PRIOR TO REMOVING EXISTING PANELBOARD HV-1.

SEQUENCE NOTES

1. REFER TO SEQUENCE STEP 12.

GRAPHIC SCALE

1/8"=1'-0" 4' 2' 0 4' 8'

CHECK GRAPHIC SCALE BEFORE USING

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DRAWN BY: RSW
CHECKED BY: DCL
PROJECT: 21105.16

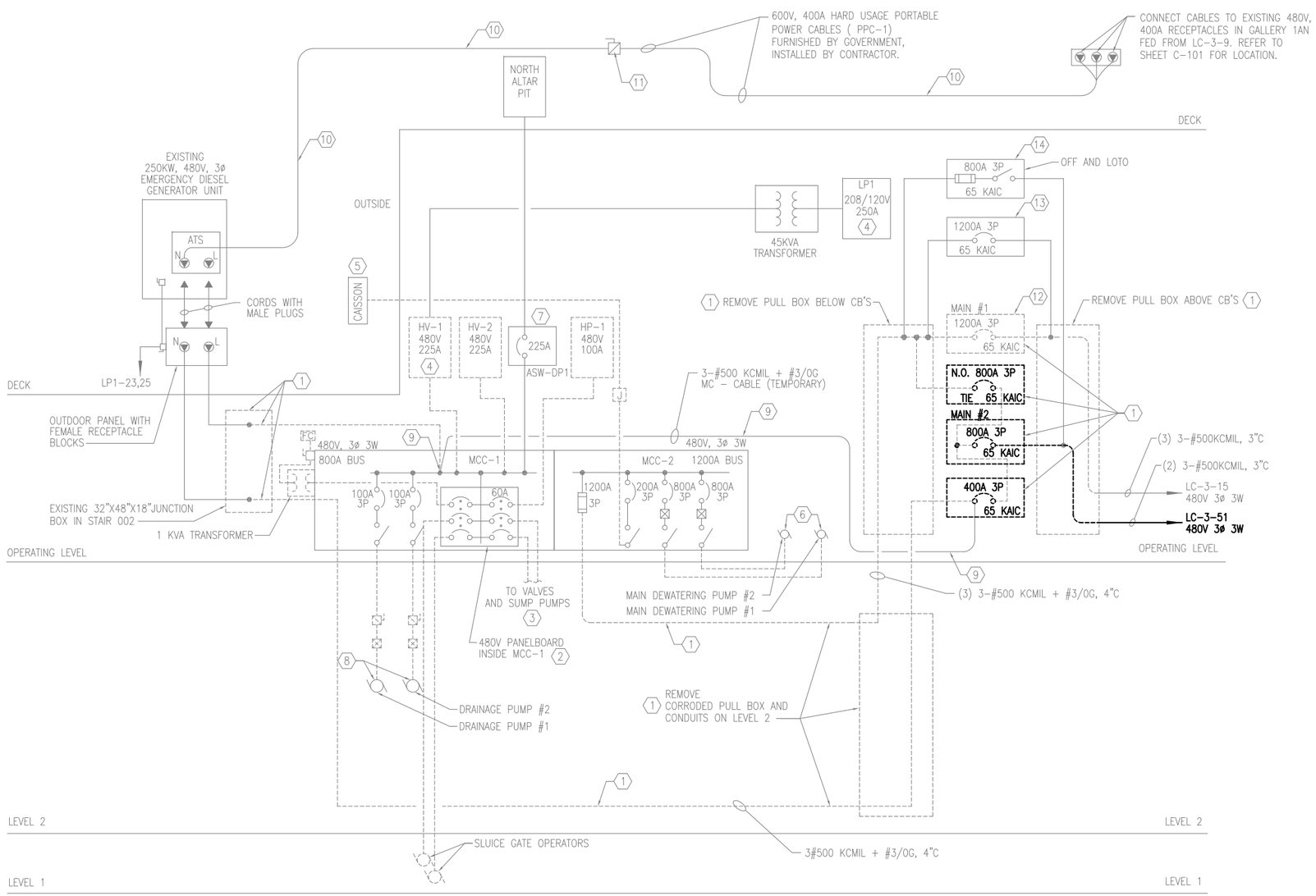
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC

DRYDOCK #3 PUMP REPAIRS

NAVAL SHIPYARD
KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESN
CLARIFICATION SKETCH



POWER DISTRIBUTION SYSTEM
ONE-LINE DIAGRAM - ELECTRICAL REMOVALS

NOT TO SCALE

B3

KEYNOTES

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SEQUENCE NOTE

1. REFER TO SEQUENCE NOTE 12.

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CHECKED BY: DCL
PROJECT: 21105.16

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC

DRYDOCK #3 PUMP REPAIRS

NAVAL SHIPYARD
KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESO
CLARIFICATION SKETCH

02 Jun, 2015 - 4:06pm
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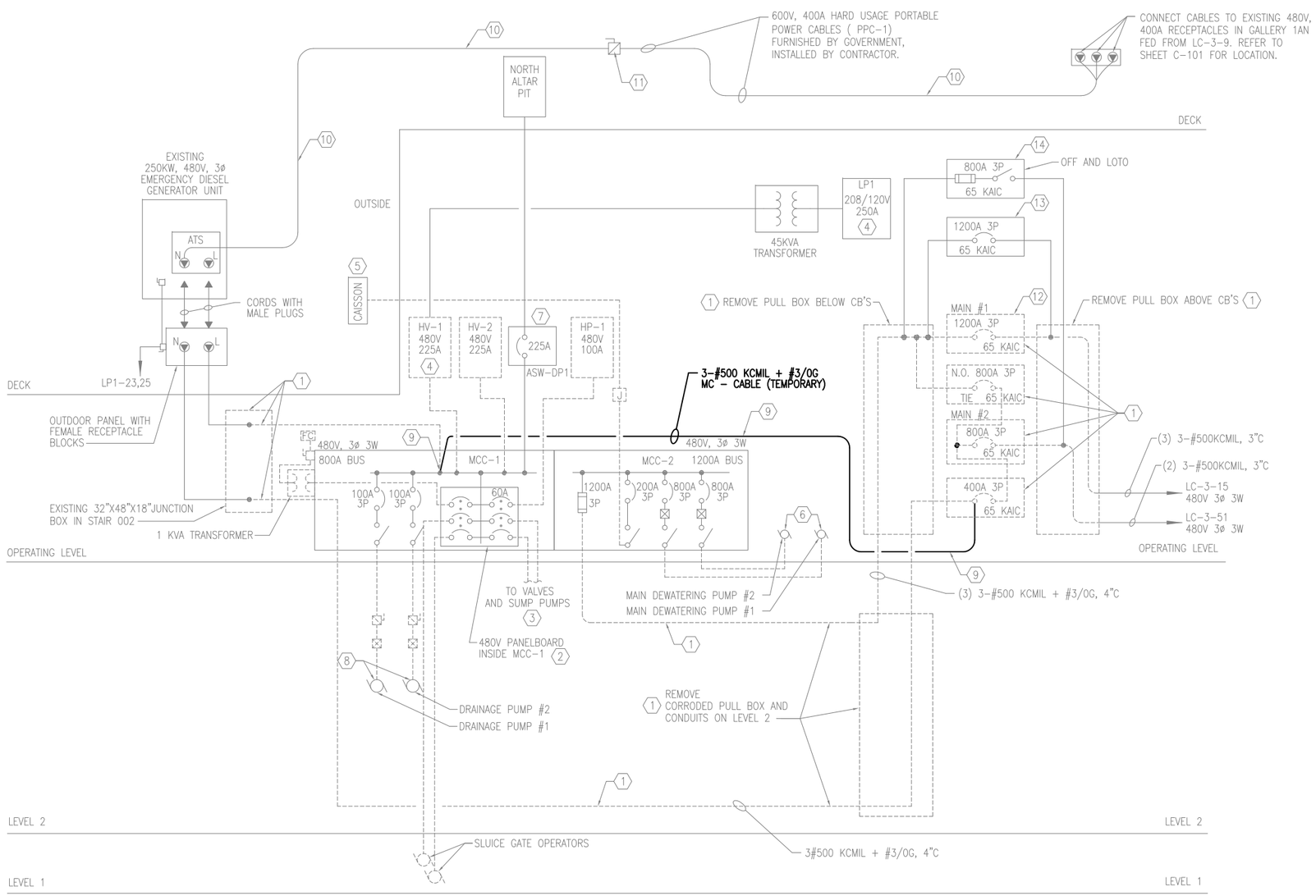

POWER DISTRIBUTION SYSTEM
ONE-LINE DIAGRAM - ELECTRICAL REMOVALS

NOT TO SCALE

B3

KEYNOTES

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SEQUENCE NOTE

1. REFER TO SEQUENCE NOTE 13.

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DRAWN BY: RSW
CHECKED BY: DCL
PROJECT: 21105.16

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC

DRYDOCK #3 PUMP REPAIRS

NAVAL SHIPYARD
KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESP
CLARIFICATION SKETCH

02 Jun, 2015 - 4:07pm
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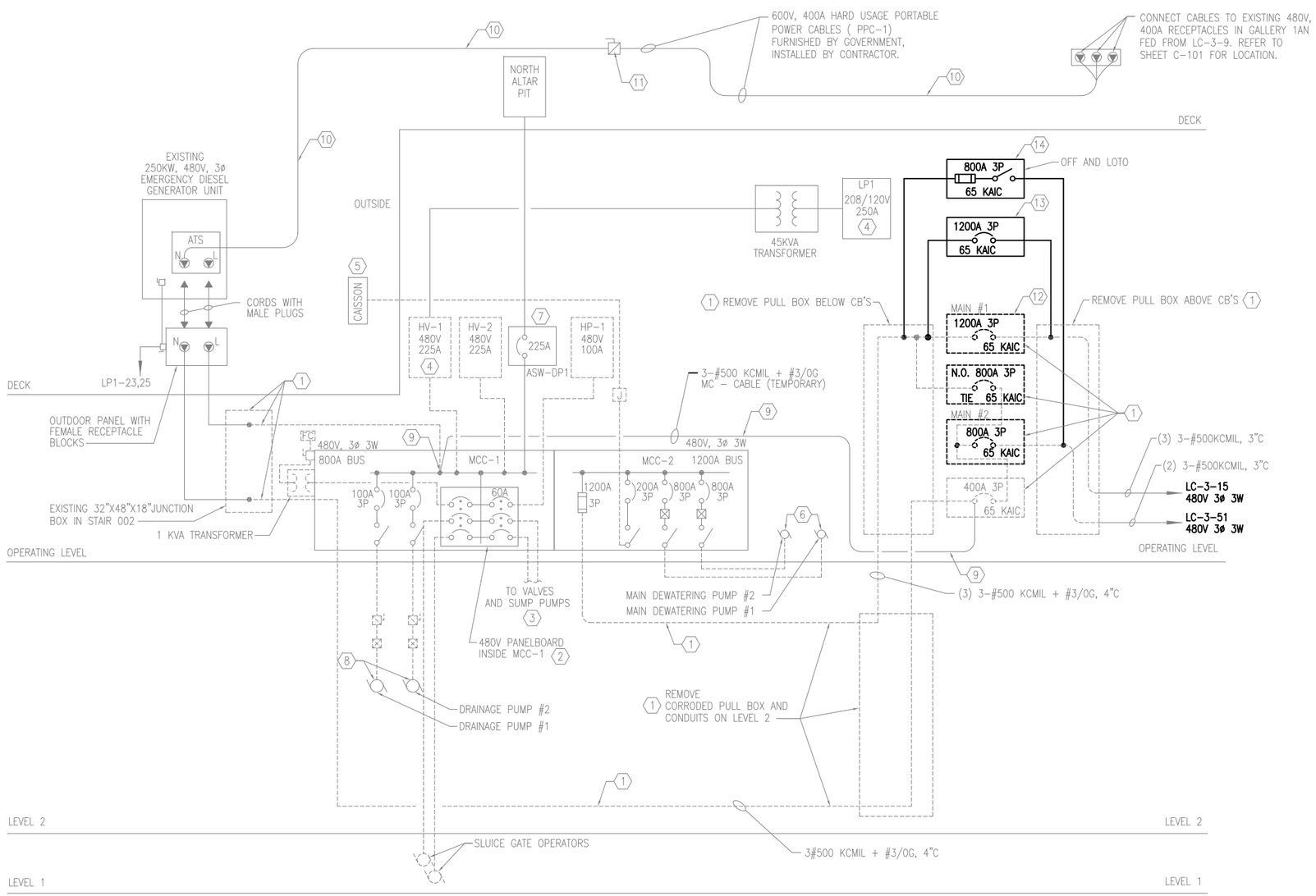

POWER DISTRIBUTION SYSTEM
ONE-LINE DIAGRAM - ELECTRICAL REMOVALS (B3)

NOT TO SCALE

KEYNOTES

1. REFER TO SHEET E-001 FOR SEQUENCING NOTES.
2. REFER TO PANELBOARD SCHEDULE ON SHEET E-602.
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14. PROVIDE TEMPORARY TIE SWITCH, FREE STANDING SUPPORT SYSTEM AND CABLES. REFER TO SEQUENCING NOTES ON SHEET E-001.

SEQUENCE NOTE

1. REFER TO SEQUENCE NOTES 16, 17, 18, 19, 20, 21, 22 AND 23.

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DRAWN BY: RSW
CHECKED BY: DCL
PROJECT: 21105.16

NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
DRYDOCK #3 PUMP REPAIRS
NAVAL SHIPYARD KITTERY, MAINE

SEQUENCING PLAN

SCALE: AS NOTED
DATE: 06-01-15
REV: SK-ESQ
CLARIFICATION SKETCH

02 Jun, 2015 - 4:22pm
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BID SCHEDULES
01/07

PART 1 GENERAL

1.1 BASIS OF BIDS

1. A minimum bid guarantee is required to be submitted with offer and shall be 20 percent of the aggregate amount of Items 0001 through 0008, or $3,000,000.00 whichever is less.

2. Payment and Performance Bonds will be required within 10 days of contract award. Payment and Performance bonds will be required for the base bid item 0001, however, if option Items 0002 through 0008 are exercised, additional bonding and consent of surety will be required. Consequently, the Performance Bond shall reflect 100 percent of the aggregate amount of Items 0001 through 0008. Payment Bonds shall reflect 100 percent of the aggregate amount of Items 0001 through 0008. See attached Consent of Surety Form.

1.1.1 Unit Prices

This contract will be solicited with unit prices to be applied to estimated quantities for selected work. A description of the items and schedule of the unit price work is contained in the bid schedule under base bid line item 000114. See Contract Clauses, “FAR 52.211-18, Variation in Estimated Quantity” and “FAR 52.236-16, Quantity Surveys.”

Unit Prices Form					
Item	Description	Estimated Quantity	Unit	Unit Price	Amount
0001a	Exterior concrete repair; additional concrete spall repair areas.	80	SF	$_____	$_____
0001b	Interior concrete repair; additional concrete spall repair areas.	10	SF	$_____	$_____
0001c	Underwater excavation; additional removal of sediment 2 feet in height.	20	LF	$_____	$_____
Total Amount for Items 0001a through 0001c $_____					
In the event there is a difference between a unit price and the extended total, the unit price will be held to be the intended bid. If the bidder shows only the total price but fails to enter a unit price, the total divided by the estimated quantity will be held to be the intended unit price.					

1.1.2 Bid Schedule

This contract will be awarded as one lump sum with Options as required for specifically selected work.

Bid Schedule

Basis of Bid for Item 0001 shall be the Total Amount for Item 0001 (Items 000101 through 000114), complete in accordance with the drawings and specifications, but not including the work indicated or specified to be provided under any Options.

Item	Description	Estimated Quantity	Unit	Unit Price	Amount
000101	General requirements (not including hazardous materials abatement).	1	LS	XXX	$_____
000102	Existing conditions, including hazardous materials abatement.	1	LS	XXX	$_____
000103	Concrete rehabilitation.	1	LS	XXX	$_____
000104	Marine concrete.	1	LS	XXX	$_____
000105	Masonry.	1	LS	XXX	$_____
000106	Structural steel.	1	LS	XXX	$_____
000107	Metal stairs and railings.	1	LS	XXX	$_____
000108	Wood, plastics, and composites, thermal and moisture protection, openings.	1	LS	XXX	$_____
000109	Finishes.	1	LS	XXX	$_____
000110	Heating and ventilating.	1	LS	XXX	$_____
000111	Electrical, communications, electronic safety and security.	1	LS	XXX	$_____
000112	Overhaul and refurbishment of main dewatering pumps and motors, lump sum for common work and planned work.	1	LS	XXX	$_____
000113	Overhaul and refurbishment of main dewatering pumps and motors, allowance for non-routine work.	1	LS	XXX	$40,000
000114	Total of Unit Price Items for concrete repair and underwater excavation as listed in part 1.1.1 above.	1	LS	XXX	$_____
				Total Amount for Item 0001	$_____

1.1.3 Options

This contract will be solicited with options. A description of the options is contained in Standard Form 1442, “Solicitation, Offer and Award.”

Option Schedule

Options 1, 2, 3, 4, 5 and 7 may be exercised at the time of award or within 60 calendar days after award by the Contracting Officer. Option 6 may be exercised at the time of award or within 365 calendar days after award by the Contracting Officer. A firm fixed bid price is required for each option. No provision is made for economic price adjustment. Method for evaluation of bids for award purposes is specified below.

Basis of Bid for each item shall be the addition of the full scope of work complete. If any or all Options are exercised, the contract completion date remains the same.

Item	Description	Estimated Quantity	Unit	Unit Price	Amount
0002	Option 1: Replacement of drainage piping with polypropylene random (PP-R); provision of two, 27 horse power submersible drainage pumps*, two, 120-foot long, 8-inch diameter galvanized steel pipes with quick-disconnect couplings*, and two, 50-foot long, 8-inch diameter hoses*.	1 Job	LS	XXX	$_____
0003	Option 2: Fiberglass grating and ladder upgrades.	1	LS	XXX	$_____
0004	Option 3: Increase capacity of DH-2A and CU-2A to provide additional cooling.	1	LS	XXX	$_____
0005	Option 4: Paint interior concrete surfaces.	1	LS	XXX	$_____
0006	Option 5: Completion of maintenance dredging contract at entry to DD #3.	1	LS	XXX	$_____
0007	Option 6: Complete spall repairs inside DD #3.	1	LS	XXX	$_____
0008	Option 7: Upgrade tie-backs for sheeting.	1	LS	XXX	$_____
* Note: Two drainage pumps and associated piping and hoses shall be turned over to the Government at the completion of the project.					

1.1.4 Explanation of Base Bid

The Total Amount for Item 0001 shall provide the full project scope, excluding Options, complete and in place in accordance with the drawings and specifications even if not specifically listed below.

The Basis of Item 0001 is subdivided as follows:

000101 General Requirements includes the price for all work associated with the removal and disposal of non-hazardous materials.

000102 Existing conditions includes the price for all work associated with the existing conditions and removal and disposal of hazardous materials.

000103 Concrete rehabilitation includes the price for all work associated with concrete rehabilitation.

000104 Marine concrete includes the price for marine concrete.

000105 Masonry includes the price for all work associated with masonry.

000106 Structural steel includes the price for all work associated with structural steel.

000107 Metals includes the price for all work associated with cold formed framing, ladders, spiral stairs, and metal railings.

000108 Wood, plastics, composites, thermal and moisture protection, and openings includes the price for all work associated with rough carpentry, insulation, wall panels, roofing, flashing and sheet metal, fire stopping, joint sealants, doors and frames, door hardware, and louvers.

000109 Finishes includes the price for all work associated with gypsum board and supports and paints and coatings.

000110 Heating and ventilating includes the price for all work associated with air supply, distribution, ventilation, exhaust systems, HVAC system cleaning, basic mechanical materials and methods, testing, adjusting and balancing for HVAC, thermal insulation for mechanical systems, and commissioning of HVAC systems.

000111 Electrical, communications, electronic safety and security includes the price for all work associated with basic electrical materials and methods, interior distribution system, interior lighting, telecommunications, and analog/addressable interior fire alarm system.

000112 Overhaul and refurbishment of main dewatering pumps and motors includes the price for all work associated with common work and planned work for overhaul and refurbishment of main dewatering pumps and motors.

000113 Overhaul and refurbishment of main dewatering pumps and motors includes the allowance price of $40,000 for all work associated with non-routine work for overhaul and refurbishment of main dewatering pumps and motors.

000114 Total of Unit Price Items for concrete repair and underwater excavation as listed in part 1.1.1 above.

The Basis of Bid for each Option is subdivided as follows:

0002 Option 1: Replacement of drainage piping with polypropylene random (PP-R); provision of two, 27 horsepower submersible drainage pumps with two, 120-foot long, 8-inch diameter galvanized steel pipes with quick-disconnect couplings and two, 50-foot long, 8-inch diameter hoses.

0003 Option 2: Fiberglass grating and ladder upgrades.

0004 Option 3: Increase capacity of DH-2A and CU-2A to provide additional cooling.

0005 Option 4: Paint interior concrete surfaces.

0006 Option 5: Completion of maintenance dredging contract at entry to DD #3.

0007 Option 6: Complete spall repairs inside DD #3.

0008 Option 7: Upgrade tie-backs for sheeting.

-- End of Document --

SECTION 35 20 23

DREDGING
04/06

PART 1 GENERAL

The work for bid option #5 includes acceptance of Government's pre-dredge hydrographic surveys, lobster mitigation, dredging, off-loading, dewatering of dredge spoils, transport of dewatered dredge spoils to Building 357 for processing and approval, transporting dewatered dredge spoils from Building 357 to a licensed landfill (dredge spoils will not be off-loaded at Bldg 357), materials sampling and testing as required by licensed landfill designated for disposal, and post-dredge hydrographic surveys.

1.1 DEFINITION

Hard material is defined as material requiring blasting or the use of special equipment for economical removal, and includes large boulders or fragments too large to be removed in one piece by the dredge plant. Boulders and rock fragments less than 2 tons in weight are not considered hard material. The dredge plant must be capable of removing boulders and rock fragments up to 2 tons in weight.

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for Contractor Quality Control approval. The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Construction Operations Plan; G

Hydrographic Survey Methods; G

Letter of Acceptance of Government's Pre-Dredge Hydrographic Survey; G

Method for Computing Overdredge Quantities; G

Material Sampling and Testing Plan ; G

SD-02 Shop Drawings

Dewatering Plan; G

SD-11 Closeout Submittals

Material Test Results; G

Post-dredge Hydrographic Survey; G

Overdredge Quantity Calculations; G

Approved Manifest; G

1.3 MATERIAL TO BE REMOVED

The material to be removed is silt, sand, gravel, cobbles, boulders, artificial obstructions and other dredge materials.

Soil data obtained in 2008 is provided in Appendix B, but reflects material characteristics at that time and is for general information and reference only; it shall not be used as a basis of characterization for disposal under this contract. The contractor is responsible for sampling, testing and characterization of material for disposal.

1.3.1 Hard Material

The removal of hard material is not included. Should the Government direct in writing that hard material be removed, the work shall be performed and an adjustment in the contract price or time for completion, or both, will be made in accordance with "FAR 52.236-2, Differing Site Conditions." If hard material is to be removed, blasting will not be permitted.

If Contractor encounters hard material within the design dredge depths, Contractor shall show to the Government's satisfaction that the material is not excavatable by the equipment used for this project, and shall identify the limits and elevations of the hard material as directed, at no additional cost to the Government.

1.3.2 Artificial Obstructions

The Government has knowledge of material, including but not limited to, metal bands, pallets, pieces of broken cable, rope, fire hose, concrete blocks, miscellaneous metal, chain, broken piles, etc. The Government has no knowledge of existing ordnance, wrecks, wreckage, or other material of such size or character as to require the use of explosives or special or additional plant for its safe removal. Artificial obstructions excavated from the dredge area shall be placed in the dewatering area separate from the dredge materials, and shall be rinsed for review by the Government. All artificial obstructions shall become the property of the Contractor unless otherwise directed or indicated, and shall be properly disposed of at the end of the project at a Government approved facility, at no additional cost to the Government.

1.4 QUANTITY OF MATERIAL

1.4.1 General

The estimated quantity for bidding purposes and for application of the "FAR 52.212-11, Variation in Estimated Quantity" is 1000 cubic yards. This quantity is an estimate only. Within the limits of available funds, complete the work specified whether the quantities involved are greater or less than those estimated.

1.4.2 Overdepth Dredging

To cover unavoidable inaccuracies with the dredging process, where overdepth dredging is indicated, material actually removed to a depth of 2 feet below the design dredge depth specified and within the dredging limits will be measured and paid for at the bid unit price. Material excavated below or beyond the limits shown on the drawings will not be measured or included for payment.

1.4.3 Side Slopes

Dredging on side slopes shall follow, as closely as practicable, the lines indicated or specified. A 2 foot allowance will be made for dredging beyond the indicated or specified side slopes, except as provided herein. The amount of material excavated from side slopes will be determined by the approved method for computing dredge quantities.

1.5 PERMIT

The Contractor shall comply with conditions and requirements of the Corps of Engineers Permit and other State or Federal permits. The Contracting Officer will secure the permit for dredging and disposal of material as indicated. The Contractor shall make arrangements with and approved state licensed landfill for disposal of excavated materials.

1.6 CHARGES

The Contractor shall pay all costs associated with the transportation of the dredge materials from the detwatering site to the state licensed landfill, and shall pay all charges required by the landfill for proper disposal of the dredge material.

The Contractor is responsible for all sampling, testing, segregation and processing of the dredge materials required by the state licensed landfill identified for disposal, as required by the State of Maine Department of Environmental Protection Solid Waste Division, and as required by the state in which the landfill is located. Costs for this work shall be included in the lump sum contract price for the Base Bid, and in the lump sum contract price for Bid Option.

1.7 ENVIRONMENTAL PROTECTION REQUIREMENTS

Provide and maintain during the life of the contract, environmental protective measures. Also, provide environmental protective measures required to correct conditions, such as oil spills or sediment that occur during the dredging operations. Comply with Federal, State, and local regulations pertaining to water, air, erosion and sediment control, and noise pollution.

1.8 BASIS FOR BIDS

Payment will be at the contract unit price per cubic yard, multiplied by total cubic yards of acceptable dredging. Base bids on total cubic yards of dredging indicated. Include a bid unit price per cubic yard of dredging based on the quantity as specified or indicated. If the Contracting Officer requires an increase or a decrease in total volume of dredging, the contract price will be adjusted in accordance with the "FAR 52.211-18, Variation in Estimated Quantity." Dredging conditions specified and

indicated describe conditions which are known. However, the Contractor is responsible for other conditions encountered which are not unusual when compared to conditions recognized in the dredging business as usual in dredging activities such as those required under this contract.

1.9 CONSTRUCTION OPERATIONS PLAN

Submit a Construction Operations Plan indicating the proposed method by which the dredge work will be conducted. Describe in detail the means by which dredge operations will be conducted so as to avoid damage to benthic resources outside the dredge area. The plan shall include discussion of the following items:

a) Type of dredge equipment and vessels to be used throughout the project,
b) Coordination and communication efforts between site personnel to minimize impact to Portsmouth Naval Shipyard operations,
c) Maintaining horizontal and vertical survey control,
d) Proposed means to avoid damage to adjacent structures, vessels, and moorings, and fenders,
e) Proposed means to avoid over dredging
f) Proposed methods to effectively dewater and remove all dredge spoils from the dewatering site within the project time limits,
h) Proposed methods to keep unloading site and all haul routes clean, and
i) Proposed methods to prevent spillage from trucks.

1.10 DEWATERING PLAN

Submit a Dewatering Plan of the dredge spoils. Dewatering operations shall be conducted on the Contractor's waterborne plant, no land based dewatering site will be provided as part of this contract. The plan shall indicate the steps and methods the Contractor will utilize to ensure the dredge materials are dewatered sufficiently to allow transport and disposal at a licensed solid waste facility within the specified contract completion date. Plan shall indicated means and methods for preventing amended dredge spoils from entering the river. The plan must be stamped and signed by a licensed registered Professional Engineer.

1.11 LAYOUT WORK AND SURVEYS

The Contractor shall employ a licensed surveyor to layout the limits of the work, establish vertical control using approved datums and perform surveys. The Contractor shall provide all buoys, ranges and other controls necessary to accomplish the work and facilitate inspection.

1.12 HYDROPGRAPHIC SURVEYS

The Contractor shall submit a Letter of Acceptance of Government's Pre-Dredge Hydrographic Survey shown in the contract drawings prior to commencing dredging operations.

Prior to commencing work, submit hydrographic survey methods to the Contracting Officer's Representative. Hydrographic surveys shall use multi-beam sonar transducers and shall provide 100% bottom coverage including a method to correct for side slope and beam angle error. Survey methodology shall conform to the US Army Corps of Engineers specification EM1110-2-1003. Survey accuracy shall be as follows: horizontal positioning: less than 1 meter; NADIR (vertical): ±0.15 feet. Plans of the

Pre-dredge Hydrographic Survey shall include a typical section of the proposed dredge area.

1.13 METHOD FOR COMPUTING OVERDREDGE QUANTITIES

Submit Method for Computing Overdredge Quantities. Method must be a generally recognized technique using TIN subtraction method of calculation and must be compatible with AutoCAD Civil 3D 2010 software.

1.14 MATERIAL SAMPLING AND TESTING

1.14.1 Material Sampling and Testing Plan

Contractor shall conduct additional sampling of the dewatered dredge spoils as required for disposal of the materials in accordance with state and licensed landfill requirements. Submit a Material Sampling and Testing Plan . Contractor shall ensure that a sufficient quantity of samples and tests are performed to meet the state and licensed landfill requirements. The plan shall include sample frequency, sampling methods, compositing methods, testing parameters, detection limits and quality assurance requirements.

1.14.2 Dredge Material Sampling

Samples of the dredge material shall be collected in accordance with the approved Material Sampling and Testing Plan . Sampling will be in accordance with standard reference procedures from the US Army Corp of Engineers, the State of Maine Department of Environmental Protection Solid Waste Division and the Environmental Protection Agency's publication SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods".

1.14.3 Dredge Material Testing

Testing of the dredge material will be in accordance with the approved material sampling and testing plan, the State of Maine Department of Environmental Protection Solid Waste Division, the approved state licensed landfill, and the state in which it is located. Submit Material Test Results.

1.15 POST-DREDGE HYDROGRAPHIC SURVEY

Submit a Post-dredge Hydrographic Survey and Overdredge Quantity Calculations. Survey methods shall be in accordance with paragraph 1.12. Electronic hydrographic surveys shall be submitted in AutoCAD Civil 3D 2010 format. Drawings shall be drawn at 1 foot contour intervals on 22"x34" size mylar showing the full length of all piers, berths and dry docks where dredging was accomplished. Plans and quantity calculations shall be stamped and signed by a licensed registered Professional Engineer.

1.16 MATERIALS TRANSPORTATION

Contractor shall transport materials from barge to Building 357, and from Building 357 to approved disposal facility, as indicated. All land transportation shall be conducted in watertight trucks to avoid spillage of dredge spoils before and after dewatering. Contractor shall transport dredge spoils from the dewatering site to the designated location at PNSY for manifesting (Building 357) before proceeding to the disposal facility. Contractor shall obtain and submit for each accepted delivery to the

disposal facility an Approved Manifest. The Contractor shall confirm the operating hours of Building 357 and coordinate transportation of dewatered dredge spoils with building 357 personnel. All materials shall be transported on the Shipyard between the hours of 8:00AM and 3:00PM Monday through Thursday. The allowable trucking routes on the Shipyard are shown on project drawings.

1.17 WORK AREA

1.17.1 PROTECTION OF EXISTING WATERWAYS AND SHOALS

The Contractor shall conduct his operations in such a manner that the material is not pushed outside of dredging limits or otherwise deposited in existing side channels, basins, docking areas, or other areas being utilized by vessels or moored boats. The Contractor will be required to change his method of operations to comply with the above requirements. Should any bottom material or other dredged material be pushed into areas described above as a result of the Contractor's operations, the material must be promptly removed.

1.17.2 ADJACENT PROPERTY AND STRUCTURES

The Contractor shall conduct the dredging operation such that it does not undermine, weaken, or otherwise impair existing structures located in or near the areas to be dredged. The Contractor shall plan the dredge work accordingly.

Damage to private or public property or structures resulting from the disposal or dredging operations shall be repaired promptly by the Contractor at his expense. Damage to structures resulting from the Contractor's negligence will require prompt repair at the Contractor's expense.

Contractor shall pay special attention to the unloading site and haul routes on Portsmouth Naval Shipyard. Contractor shall employ tailgate locks on trucks or other approved methods to ensure sealing against spillage. Contractor may be required to clean Portsmouth Naval Shipyard haul routes as directed, if the trucks do not prevent spillage of the dredge spoils and water to the satisfaction of the Contracting Officer's Representative.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.1 LOBSTER MITIGATION

Contractor shall carry out lobster mitigation in accordance with the requirements of the permit and these specifications. Attachment 12 of Appendix A includes a Lobster Mitigation Plan titled "Portsmouth Naval Shipyard (PNSY) Lobster Mitigation Effort - Dry Docks 2 and 3 and Berth 13" dated December 16, 2008 (revised by MER in preparation for the 2008/2009 dredging) which describes the mitigation methodology employed in the past. Contractor shall use this previously approved plan as a general guide to complete mitigation.

Contractor shall carry out lobster mitigation in accordance with the requirements of the permit and these specifications. Attachment 12 of

Appendix A includes a Lobster Mitigation Plan titled "Portsmouth Naval Shipyard (PNSY) Lobster Mitigation Effort - Dry Docks 2 and 3 and Berth 13" dated December 16, 2008 (revised by MER in preparation for the 2008/2009 dredging) which describes the mitigation methodology employed in the past. Contractor shall use this previously approved plan as a general guide to complete mitigation.

Trapping shall be of both legal and sub-legal size lobsters. It is acceptable for legal lobsters to be retained by the fisherman assisting with the mitigation effort. Sub-legal lobsters shall be transported to the lobster relocation site indicated on the contract drawings.

In summary, using the previously approved lobster mitigation plan as a guide, the following lobster mitigation plan shall be employed prior to dredging:

" Conduct lobster trapping at all dredge locations until target C/E is achieved
" Relocate lobsters to designated area
" Provide final data and report including effectiveness evaluation and verification that 0.5 l/t/ns has been achieved.

The contractor shall employ the services of a qualified professional to manage/perform all phases of the lobster mitigation effort. The qualified professional shall be familiar with the Maine Department of Marine Resources requirements, protocols and procedures related to lobster mitigation, trapping, and transport. The person(s) performing trapping activities must be properly licensed in the State of Maine for all activities associated with the lobster mitigation efforts. Submit all reports and data for Government review and acceptance prior to start of dredge operations.

3.2 STURGEON AND SALMON MONITORING

The contractor shall provide all labor and personnel required to monitor dredging activity for entrapment/ensnarement of Atlantic and/or short-nosed sturgeon species, as well as Atlantic salmon. A monitor shall be present at all times while dredging is ongoing. The monitor shall be positioned in a location where dredge spoils can be easily observed. If any of the species of concern become entrapped/ensnared in dredge bucket or spoils, all work shall cease, the fish shall be immediately released back to the river, and the NAVFAC PWD-ME Natural Resource Manager (NRM) shall be contacted. Work shall not commence until the NRM receives written concurrence from the National Marine Fisheries Service. The contractor shall meet with the NRM prior to execution of dredge work for fish species identification, handling, and documentation guidance. The contractor shall assume 1 hour of meeting attendance time for this task and the meeting shall be attended by all employees that will be performing the monitoring. Designated monitor may also perform duties of QCM or SSHO.

3.3 INSPECTION

Inspect the work, keep records of work performed, and ensure that gages, targets, ranges, and other markers are in place and usable for the intended purpose. Furnish, at the request of the Contracting Officer, boats, boatmen, laborers, and materials necessary for inspecting, supervising, and surveying the work. When required, provide transportation for the Contracting Officer and inspectors to and from the disposal area and between the dredging plant and adjacent points on shore.

3.4 CONDUCT OF DREDGING WORK

3.4.1 Order of Work

The Contracting Officer's Representative shall direct the Contractor when the work will be completed. Work will be scheduled around vessel movements in the area.

Under no circumstances shall any dredging work occur before November 15, 2015 or after March 15, 2016 as specified in the project permits.

3.4.2 Interference with Navigation

Contractor shall coordinate all marine vessel movements with the Shipyard's Port Operations Department. The Contractor shall submit a weekly updated schedule showing proposed dredge locations and vessel movements to the Contracting Officer's Representative. The Contractor shall meet with Contracting Officer's Representative and Shipyard Port Operations Representatives weekly to review the schedule.

The Contractor shall minimize interference with the use of channels and passages. The Contracting Officer's Representative will direct the shifting or moving of dredges or the interruption of dredging operations to accommodate the movement of vessels and floating equipment, if necessary.

Contractor shall maintain a minimum of 50' of standoff from any berthed submarine and a minimum of 25' from any berthed barge or support vessel.

3.4.2.1 Compensation for Interruption of Operations

If dredging operations are interrupted due to the movement of vessels or floating equipment, an adjustment in the contract price or time for completion, or both, will be made as provided by the contract. The Contracting Officer will notify the Contractor 7 days prior to ship movements that will affect dredging operations.

3.4.3 Lights

Each night, between sunset and sunrise and during periods of restricted visibility, provide lights for floating plants, pipelines, ranges, and markers. Also, provide lights for buoys that could endanger or obstruct navigation. When night work is in progress, maintain lights from sunset to sunrise for the observation of dredging operations. Lighting shall conform to United States Coast Guard requirements for visibility and color.

3.4.4 Ranges, Gages, and Lines

Furnish, set, and maintain ranges, buoys, and markers needed to define the work and to facilitate inspection. Establish and maintain gages in locations observable from each part of the work so that the depth may be determined. Suspend dredging when the gages or ranges cannot be seen or followed.

3.4.5 Plant

Maintain the plant, scows, coamings, barges, pipelines, and associated equipment to meet the requirements of the work. Promptly repair leaks or breaks along pipelines. Remove dredged material placed due to leaks and breaks.

3.4.6 Disposal of Excavated Material

Provide for safe transportation and disposal of dredged materials to building 357, and from the Building 357 to the approved landfill. Transportation shall include measures to prevent loss of material during movement, including water that might separate from the dredge spoils during movement. Contractor is responsible to follow all haul restrictions and requirements imposed by the towns or municipalities in which the haul routes are located. The deposit of dredged materials in unauthorized places is forbidden.

3.4.7 Method of Communication

Provide a system of communication between the dredge crew, the Port Operations of the Portsmouth Naval Shipyard and the crew at the disposal area. A portable two-way radio is acceptable.

3.4.8 Salvaged Material

Anchors, chains, firearms, ordnance and other articles of value, which are brought to the surface during dredging operations, shall remain or become the property of the Government.

3.4.9 Safety of Structures

The prosecution of work shall ensure the stability of caissons, piers, berths, bulkheads, fender systems, mooring hardware, and other structures lying on or adjacent to the site of the work, insofar as structures may be jeopardized by dredging operations. Repair damage resulting from dredging operations.

3.4.10 Plant Storage

When not in use, plant equipment shall be stored at an approved location. Stored plant equipment shall not interfere with Portsmouth Naval Shipyard operations.

3.4.11 Plant Removal

Upon completion of the work, promptly remove plant, including ranges, buoys, piles, and other markers or obstructions.

3.5 MEASUREMENT

Contractor shall take soundings before and after dredging.

3.5.1 Method of Measurement

The material removed will be measured by cubic yard in place, by means of soundings taken before and after dredging. The drawings represent existing conditions based on current available information, but shall be verified and corrected, if necessary, by soundings taken before dredging in each

locality. Soundings shall be taken by Multi-Beam Sonar methods, as approved by the Contracting Officer; results of soundings by either or both methods will be the basis for payment.

3.5.2 Surveys During Progress of Work

Contract depth will be determined by sounds as work progresses. The Contractor shall take progress soundings. Contractor shall be able to produce drawings with soundings data at any time during dredging operations if requested by the Contracting Officer.

3.5.3 Monthly Estimates

Monthly estimates of work completed will be based on the result of soundings taken during the progress of the work. Deductions will be made for dredging and disposal not in accordance with the specifications.

3.6 FINAL EXAMINATION AND ACCEPTANCE

Contractor shall ensure that existing drains, catch basins, and drainage structures used in the vicinity of the offload site are protected and free of sediment and debris, and freely transport water to the outfalls.

When areas are found to be in a satisfactory condition, the work therein will be accepted as complete. Final estimates will be subject to deductions or correction of deductions previously made because of excessive overdepth, dredging outside or authorized areas, or disposal of material in an unauthorized manner.

-- End of Section --

ATTACHMENT 12: FUNCTIONAL ASSESSMENT

(INCLUDES ATTACHMENT 9: SITE CONDITIONS)

The nature of the dredging project lends itself to combining the Site Conditions and Functional Assessment information into one section for the purposes of clarity and continuity.

Site conditions within the proposed dredge areas have been previously documented using diver/video surveys. Benthic surveys were performed by MER Assessment Corporation at various dry docks and berths in 2001 and 2008 in preparation for subsequent dredging operations. Both surveys showed that most of the benthic organisms utilizing the proposed dredge area habitats are common, ubiquitous species which will re-colonize the site after the dredging is complete. The recommendation in both cases was for lobster mitigation to be completed prior to dredging. No other mitigation was considered necessary. Lobster mitigation plans prepared by MER were completed prior to dredging in both 2001 and 2008/2009 and final reports documenting effectiveness were submitted to the State following completion of the mitigation.

In the past, two lobster removal methodologies were considered with the choice based on prevailing seawater temperatures at the time of execution: (1) diver collection and (2) trapping. Trapping included diver confirmation of effectiveness. Navy policy restricts diving due to safety and security concerns. Per the ACOE Safety and Health Requirements Manual (EM 385-1-1) followed by the Navy, diving shall not be employed if the work objective can be met more safely by another method. When diving is deemed necessary, Surface-Supplied Air is required. In addition, SCUBA operations are not allowed in currents exceeding one knot.

Given the extreme currents found in the Piscataqua River, safety and security requirements at the shipyard, and timing restrictions limiting dredge work to be completed between November 15 and April 15 of any year, diving is not deemed an acceptable methodology for lobster mitigation. As such, benthic surveys/videos and diver confirmation of catch effectiveness are not proposed. To avoid diving, the Navy plans to employ trapping as lobster mitigation for every site without pre-determining lobster density. The Navy proposes to employ the same aggressive trapping effort employed previously with effectiveness to be determined based on rate of catch decline from trapping data rather than diver verification.

The attached lobster mitigation plan titled “Portsmouth Naval Shipyard (PNSY) Lobster Mitigation Effort – Dry Docks 2 and 3 and Berth 13” dated December 16, 2008 (revised by MER in preparation for the 2008/2009 dredging) describes the methodology employed in the past. Trapping will target both legal and sub-legal size lobsters. Legal lobsters typically are retained by the fisherman assisting with the mitigation effort. Sub-legal lobsters will be transferred to the same location used in past operations which is the cove just north of the causeway linking Clark Island to Seavey Island off of the southeast side of Seavey Island (see attached figure).

Catch effectiveness will be determined as outlined in the attached lobster mitigation plan and the final report prepared by MER titled “Portsmouth Naval Shipyard (PNS) Lobster Mitigation Effort – Dry Docks 2 and 3 and Berth 13” dated February 6, 2009 (attached). Catch per unit effort (C/E) will be calculated using the total number of lobsters caught, the number of traps hauled in each area, and the normalized soak time (night-set). Maximum achievable effectiveness of the effort will be based on a leveling C/E to

the base value used in previous operations. The C/E base value to be employed is between 0.1 and 0.5 based on a three night set.

In summary, the following lobster mitigation plan will be employed prior to dredging:

- No pre-mitigation benthic surveys will be performed
- Lobster trapping at all dredge locations
- Relocation of lobsters to designated location
- Effectiveness evaluation based on catch reduction (leveling C/E to between 0.1 and 0.5)
- Final data to be reported to State of Maine

REV	DESCRIPTION	DATE	APPRVD
REVISIONS			
DESIGN	DRAWN	CHECKED	DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND

~ NAVAL FACILITIES ENGINEERING COMMAND ~

PWD–MAINE — NAVAL SHIPYARD – PORTSMOUTH, NH

PORTSMOUTH NAVAL SHIPYARD — KITTERY, ME

NRPA TIER III PERMIT APPLICATION
MAINTENANCE DREDGING

LOBSTER RELOCATION SITE

SIZE	CONSTR. CONTR. NO.	DWG NO.	REV

SCALE NTS — SHEET 1 OF 1

REVISED LOBSTER MITIGATION PLAN PREPARED DECEMBER 16, 2008 BY MER ASSESSMENT CORPORATION. APPROVED BY DMR AND MEDEP FOR 2008/2009 DREDGING WORK AT PORTSMOUTH NAVAL SHIPYARD.

Portsmouth Naval Shipyard (PNSY) Lobster Mitigation Effort – Dry Docks 2 and 3 and Berth 13

Background

Portsmouth Naval Shipyard (PNSY) is proposing to dredge certain areas at its Seavey Island facility. Preparation for submission of the requisite applications to state and federal agencies included a baseline benthic video survey of the areas to be dredged at Dry Docks 1, 2, and 3 conducted on 19 August 2008. The areas currently being proposed for dredging are substantially smaller than those proposed for dredging in 2002 when the previous lobster removal and relocation effort was conducted. The results of the 19 August 2008 benthic survey showed no lobster resource or evidence of habitat use at Dry Dock 1 and no removal and relocation effort appears warranted there. Lobsters and/or evidence of habitat use were found at Dry Dock 2 and 3 and a removal and relocation effort, albeit limited, appears warranted at these locations.

Two methods of lobster removal are available for use: 1) trapping using modified commercial lobster fishing traps and 2) diver collection. The selection of method depends on the size of the area to be covered and the likelihood of the area being reoccupied by lobsters following lobster collection and removal; the latter is seawater temperature-dependent since rate and extent of lobster movements (migration/emigration) vary according to temperature.

This lobster impact mitigation plan is the second revision of the plan submitted to Appledore Marine Engineering, Inc. (AMEI) on 15 June 2008 (Revision 1 submitted on 16 September 2008) and reflects the modifications to the initial dredge proposal, the results of the benthic video survey conducted by MER Assessment Corporation (MER) and AMEI on 19 August 2008, the inclusion of dredging at Berth 13, the Maine Department of Marine Resources (DMR) "window of opportunity", and the PNSY operational time constraints under which dredging must now be completed.

The revised lobster mitigation plan includes two components:

- lobster removal and relocation: trapping and catch data collection;
- effectiveness evaluation

Lobster removal and relocation

The 16 September 2008 lobster relocation plan included two lobster removal options: 1) diver collection and 2) trapping, the choice to be based on prevailing seawater temperatures at the time of execution. However, in view of the aggressive schedule required for project completion and the previous success of the trapping effort conducted in January 2002 at PNSY, MER is recommending an aggressive trapping effort with effectiveness to be determined based on rate of catch decline from trapping data rather than diver verification, as was done in the 2002 effort.

Trapping

The trapping effort will be targeting both legal- and sublegal-size lobsters. Due to the broad size range of lobster likely to be encountered, standard 36 in. x 21 in. by 13.5 in, 1.5 in. vinyl-clad wire mesh traps with the rear holding section, or "parlor", covered with 1 in. shrimp twine mesh as previously used in similar efforts for trapping, *i.e.* the lobster relocation project during 1998-99 in the Portland Harbor federal channel maintenance dredge project and 2001 PNS mitigation efforts. Traps of this type are available from MER Assessment Corporation, Brunswick, Maine, the designated custodian of the traps used in the 1998-99 project. These traps are tagged with special trap tags provided by the Maine Department of Marine Resources (MDMR) Marine Patrol and are customarily identified on the surface by standard 6"x14" white buoys bearing a red band at the top. It is currently anticipated that 30 to 50 modified traps may be required to complete the mitigation effort within the prescribed areas and effort period.

As compensation for assisting in the trapping effort, a fisherman is normally compensated for his time, vessel, and crew and for all fuel and bait costs associated with the hauling of project traps. In addition, the participating fisherman is usually allowed to keep and sell any and all legal-sized lobsters. Specific arrangements are handled by the party responsible for contacting/contracting with the fisherman, in this case MER.

Responsibility for obtaining all applicable Special Licenses and ensuring compliance with all license conditions associated with the lobster relocation effort will rest with MER. MER will coordinate with the DMR Regulations Officer and Marine Patrol regarding such special licenses specifically dealing with the holding of sublegal-sized lobsters and the transfer and release of these lobsters at the relocation site, previously the cove just north of the causeway linking Clark Island to Seavey Island off of the southeast side of Seavey Island. A request for a Special Licenses has already been made (12/15/08). Additionally, MER will identify and coordinate with the participating fisherman to ensure adherence to the proposed schedule.

Catch data collection

Daily records of total lobsters caught, the number of traps hauled, and/or other similar data should be maintained in order to allow daily calculation of catch per unit effort (**C/E**), or other appropriate index(-ices), as a measure of effort effectiveness. If C/E is used, the value of C/E will be normalized to account for any variations in night-set and the number of traps fished within an area since such variations can affect the fishing efficiency of the traps; every reasonable effort will be made to maintain the night-set and number of traps fished in each area constant.

C/E values have previously been used as a preliminary, daily measure of trapping effectiveness. No specific target C/E value is being proposed here, however, effectiveness will be indicated by a steadily declining C/E; the degree of effectiveness will be measured by the rate of C/E decline. Previous work has shown that complete removal of all lobsters is realistically unattainable, however, maximum effectiveness of the effort is indicated by a leveling of C/E at some baseline value, *e.g.* in Portland Harbor project found to be between 0.1 and 0.5 lobsters per trap per night-set.

Effectiveness evaluation

Efficacy of the trapping/relocation effort will be determined from catch data collected during trapping. Such determination might include, but not be limited to, estimation of the initial population and the population left after the completion of trapping but prior to dredging (pre-dredge). Since the trapping/relocation effort will be carried out in the winter, it can be assumed that little immigration to the site will occur during the course of the work, thus the difference between the initial and final populations can be attributed to the trapping/relocation effort and natural emigration; since emigration will probably have ended by the start of the effort, the number of lobsters emigrating from the site should be very small compared to the number of lobsters removed as a result of trapping. Other variables that may need to be considered include the catchability of lobsters, cumulative fishing effort (for total as well as to specific time intervals), variations in night-set and change in the fishing efficiency of the traps. These latter two variables will affect not only catch per unit effort but also the estimate of catchability of the lobsters, *e.g.* extended sets may reduce the fishing efficiency as bait becomes depleted and traps become crowded.

In addition to allowing evaluation of effectiveness, these parameters can be used in the course of the mitigation effort to estimate the cumulative effort required to trap the entire population on a given site; this point may be moot in view of the small area involved and extremely abbreviated effort period.

Schedule

Upon approval and acceptance of this plan, execution of the mitigation effort will be carried out according to the following sequence and schedule to meet the proposed dredge schedule:

1. Trapping - Total estimated time: 1 mobilization day, maximum 3 haul dates

- Traps. Traps, rope, and buoys will be transferred to the Kittery-Portsmouth area January 2-6, 2009. Rigging of traps will begin immediately upon delivery and traps should be ready for initial setting January 6, 2009.
- Hauling. Traps will be hauled on a three-night schedule on January 9, 12, and 15. The traps will be removed on the last haul date.
- C/E calculation. The total number of lobsters caught and traps hauled on each haul date at each site will be recorded along with additional individual lobster statistics, *i.e.* size, sex, condition, etc., and a daily C/E estimate calculated for each site.
- Relocation. At the end of each haul date all sublegal lobsters will be transported to the designated relocation site for release.

2. Effectiveness determination and reporting

- Effective of the mitigation effort will be based on catch data collected on each haul date, estimated initial population, rate of population decline, and estimated final (remaining) population

Responsibilities

MER Assessment Corporation of Brunswick, Maine will be responsible for executing the mitigation plan in cooperation with a local, Maine-licensed participating lobster fisherman:

MER Assessment Corporation will serve as the mitigation effort coordinator and will be responsible for:

- liaison between mitigation effort and the General Contractor, including payments for Special Permits and fisherman services;
- coordination or facilitation of security clearances;
- obtaining all necessary special permits and/or licenses;
- identification, selection and contracting of participating fisherman;
- transportation and local storage of project traps from North Yarmouth, Maine to Kittery-Portsmouth area;
- ensuring compliance with all special permits and/or licenses conditions;
- coordinating the mitigation effort, including determination of appropriate steps and modifications to procedures and/or schedules;
- providing all equipment related to trapping effort, including modified traps, rope, and buoys;
- maintaining and analyzing of all data and records related to catch, C/E, individual lobster statistics, etc.;
- ensuring proper disposition of all lobsters at the designated relocation site;
- preparing, submitting, and presenting any and all reports related to the mitigation effort, as required.

Participating fisherman will provide the fishing vessel necessary to carry out the mitigation effort and will be responsible for:

- ensuring compliance with all Maine laws and regulations governing the hauling of lobster traps other than as specifically exempted under the Special Permit;
- setting, baiting, hauling and taking up all traps related to the mitigation effort;
- transporting captured lobsters to the designated relocation site for release at the end of each haul date;
- complying, to the best extent possible, with the haul schedule suggested by MER to maximize mitigation effort effectiveness.

References

MER, 2008. Baseline Video Survey for Proposed Dredge Project at Dry Docks 1, 2, and 3, Portsmouth Naval Shipyard (PNSY), Seavey Island, Kittery, Maine, 30 September 2008; report prepared for Appledore Engineering, Inc.

Heinig, C.S. and B.P. Tarbox, 2000. Pre- and post-dredge survey and relocation of the American lobster, *Homarus americanus*, population in Portland Harbor, Maine. MER Assessment Corporation Final Report prepared for the Portland Harbor Dredge Committee and Casco Bay Estuary Project. 51 p.

MER, 2002. Final Report – Lobster Resource Mitigation Project: Lobster Relocation for Proposed Dredge Project at Berths 6, 13 and Dry Docks 3, Portsmouth Naval Shipyard (PNS), Seavey Island, Kittery, Maine, February 5, 2002; report prepared for Appledore Engineering, Inc.

MER, 2001. Baseline Video Survey for Proposed Dredge Project at Berths 2, 6, 11, 13 and Dry Docks 1, 2, and 3, Portsmouth Naval Shipyard (PNSY), Seavey Island, Kittery, Maine, 18 June 2001; report prepared for Appledore Engineering, Inc.

DRAFT

Final Report

Portsmouth Naval Shipyard (PNS) Lobster Mitigation Effort – Dry Docks 2 and 3 and Berth 13

Prepared for

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February 6, 2009

Introduction

Portsmouth Naval Shipyard (PNSY) is dredging certain areas at its Seavey Island facility, shown in Figures 1 and 2. Preparation for submission of the requisite applications for state and federal permits included a baseline benthic video survey of the areas to be dredged at Dry Docks 1, 2, and 3 conducted on 19 August 2008 (MER, 2008). Berth 13 was not included in the baseline survey because a submarine berthed there prevented access to the area.

The areas being dredged are substantially smaller than those dredged in 2002 when the previous lobster removal and relocation effort was conducted (MER, 2002). The results of the 19 August 2008 benthic survey showed no lobster resource or evidence of habitat use at Dry Dock 1 and no removal and relocation effort appeared warranted there. Lobsters and/or evidence of habitat use were found at Dry Dock 2 and 3 (Figures 3 and 4) and a removal and relocation effort, albeit limited, was deemed warranted at these locations. Although no baseline information was collected at Berth 13 in 2008 previous surveys and the relocation effort of 2002 showed presence of lobsters in the area in spring-summer and winter. Berth 13 was therefore included in the relocation effort on January 23rd following the departure of the submarine between January 20th and 23rd.

Two methods of lobster removal were considered: 1) trapping using modified commercial lobster fishing traps and 2) diver collection. The selection of method to be used was based on the size of the area to be covered and the likelihood of the area being reoccupied by lobsters following lobster collection and removal; the latter is seawater temperature-dependent since rate and extent of lobster movements (migration/emigration) vary according to temperature.

Two impact mitigation plan revisions were submitted to Appledore Marine Engineering, Inc. (AMEI), the initial plan on 15 June 2008 and the second, Revision 1, submitted on 16 September 2008; the latter reflected modifications made to the initial dredge proposal, the results of the benthic video survey conducted by MER Assessment Corporation (MER) and AMEI on 19 August 2008, the inclusion of dredging at Berth 13, the Maine Department of Marine Resources (DMR) "window of opportunity", and the PNSY operational time constraints under which dredging had to be completed.

The revised lobster mitigation plan included two components:

- lobster removal and relocation: trapping and catch data collection;
- effectiveness evaluation

Lobster removal and relocation

In view of the aggressive schedule required for project completion and the previous success of the trapping effort conducted in January 2002 at PNSY, MER recommended an aggressive trapping effort with effectiveness to be determined based on rate of catch decline from trapping data rather than diver verification, similar to what was done in the 2002 effort.

Figure 1. Site Location (SeaClear II based on NOAA/NOS Navigational Chart No. 13283, Cape Neddick to Isles of Shoals)

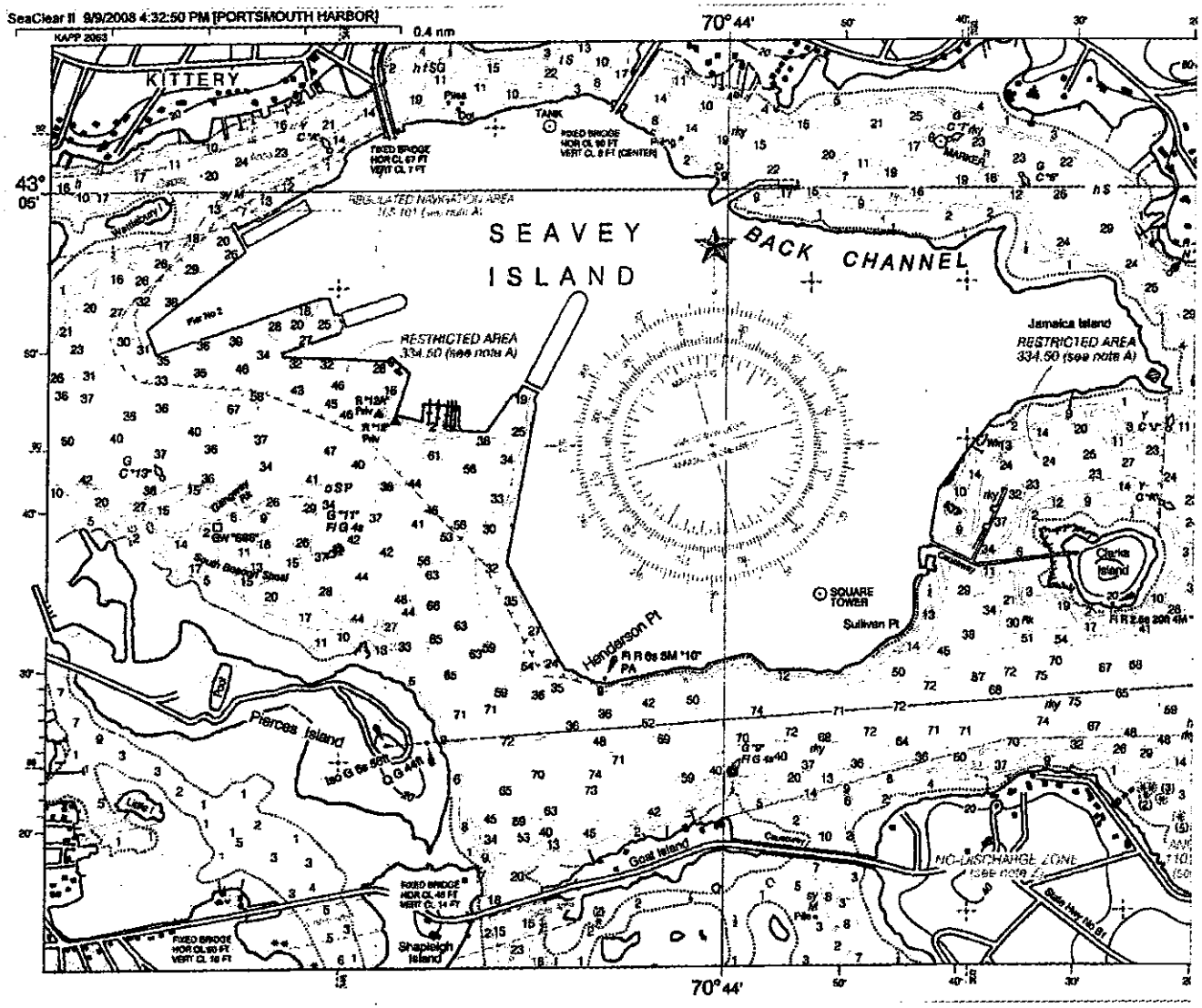

Figure 2. Generalized site schematic showing all of the proposed project areas

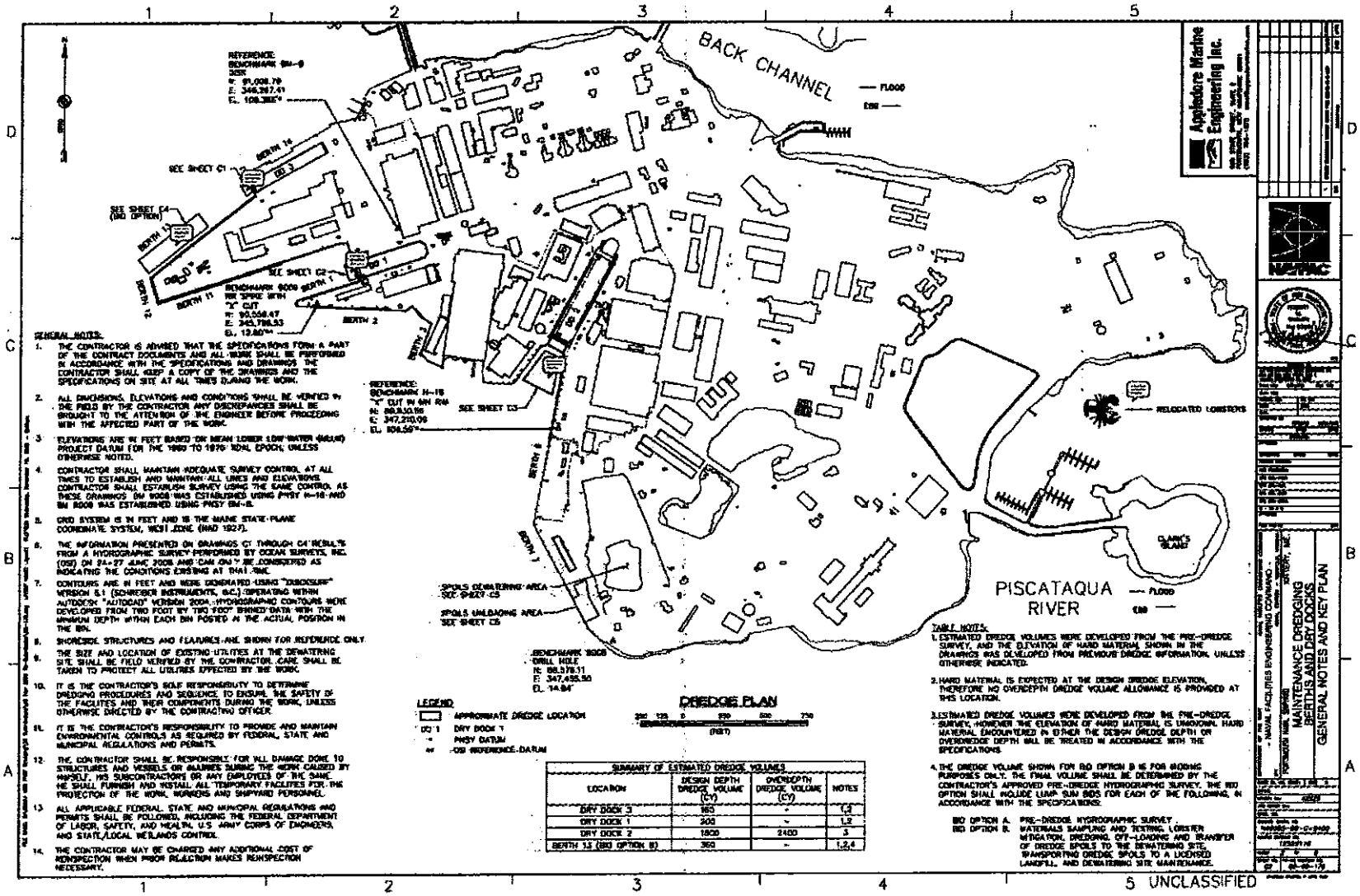

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Figure 3. Detailed site schematic of Dry Dock #2 showing proposed dredge area and video survey transect lines

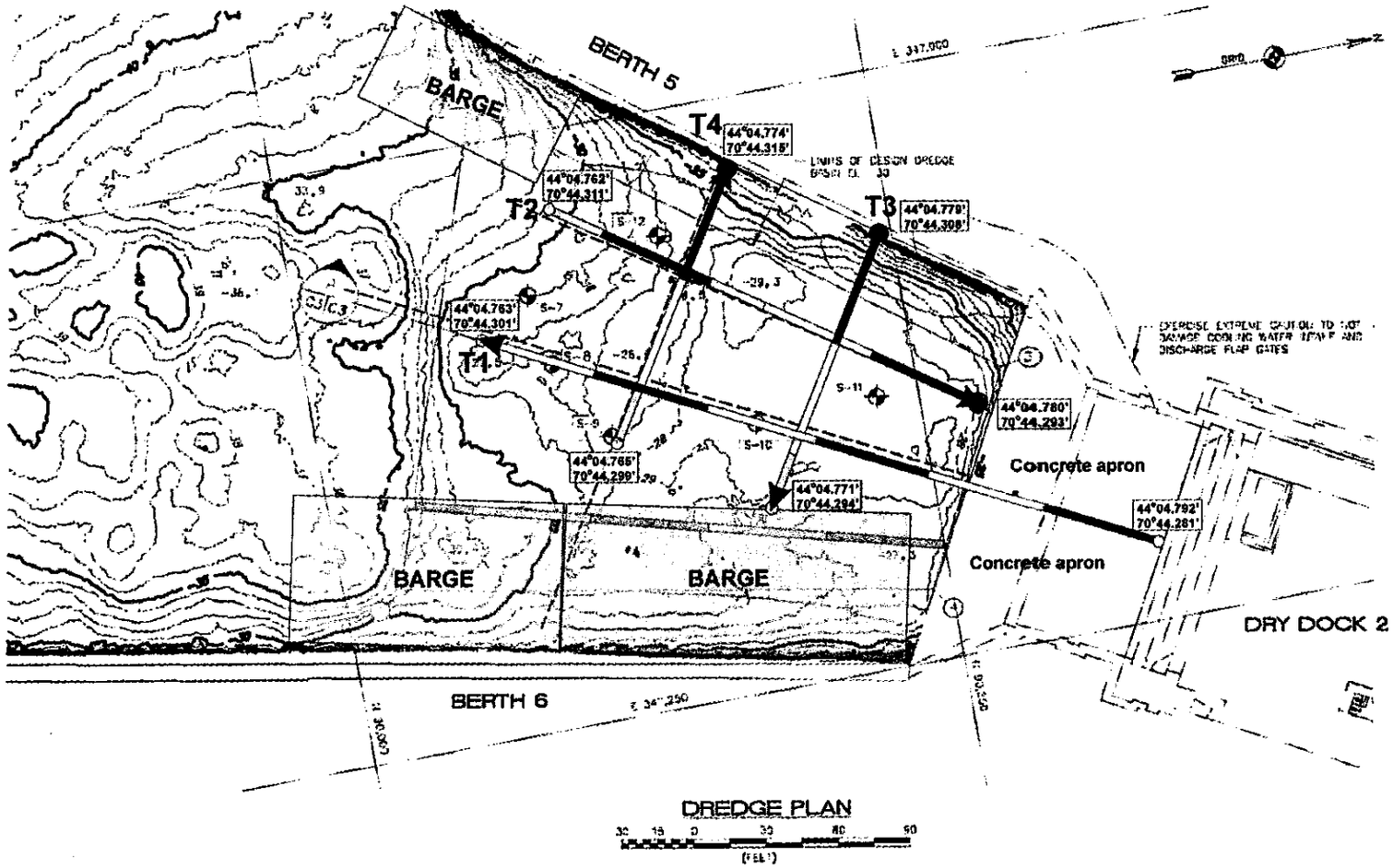
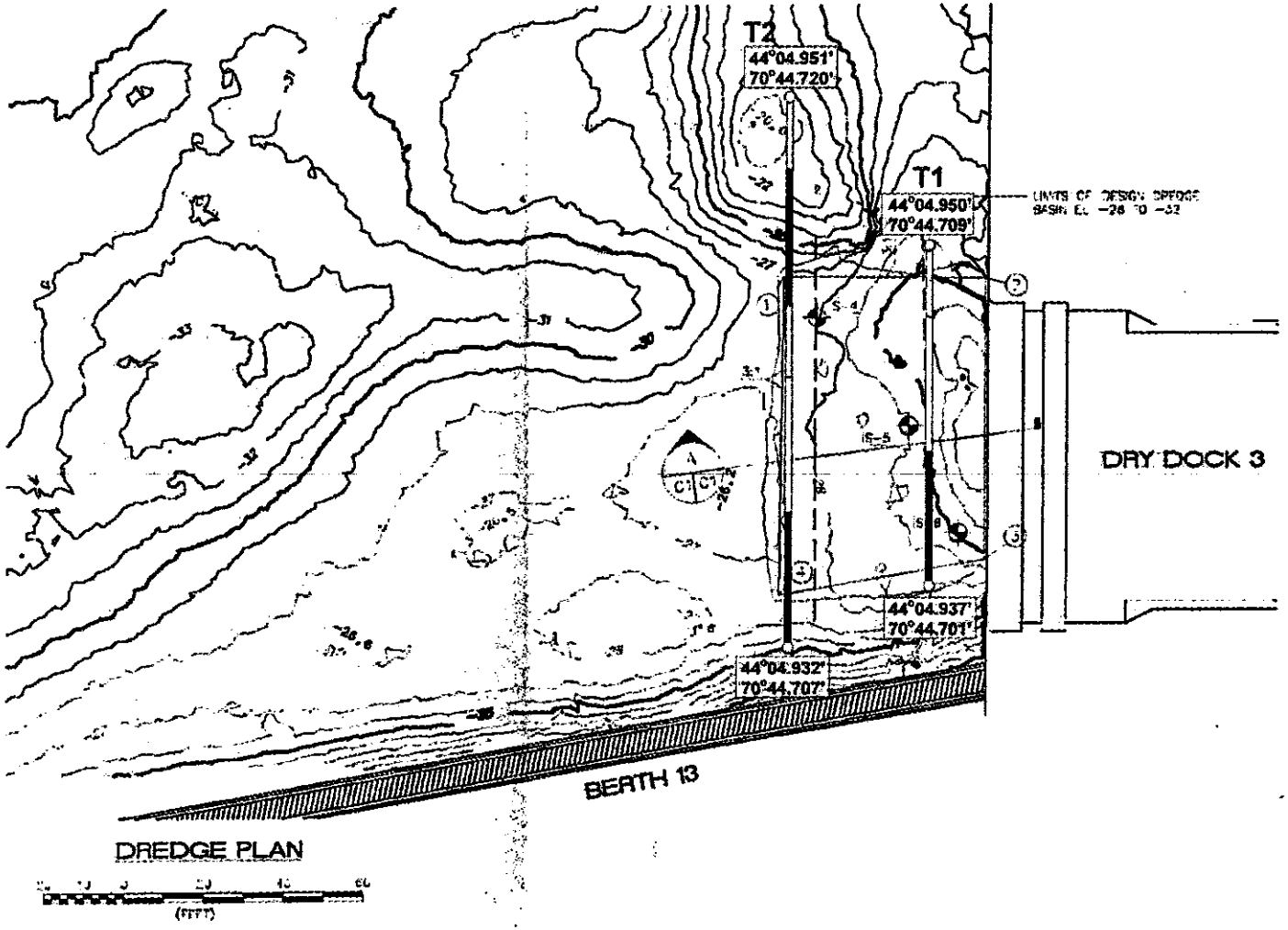


Figure 4. Detailed site schematic of Dry Dock #3 showing proposed dredge area and video survey transect lines



Trapping

Special License (SL) Number 2009-05-00 was issued to MER Assessment Corporation on January 1, 2009 to cover the activities and personnel involved with the lobster relocation project, a copy of which is included here as Appendix I.

The trapping effort targeted both legal- and sublegal-size lobsters. Due to the broad size range of lobster likely to be encountered, standard 36 in. x 21 in. by 13.5 in, 1.5 in. vinyl-clad wire mesh traps with the rear holding section, or "parlor", covered with 1 in. shrimp twine mesh as previously used in similar efforts for trapping, *i.e.* the lobster relocation project during 1998-99 in the Portland Harbor federal channel maintenance dredge project and 2002 PNS mitigation efforts, were used for this project. Traps of this type are readily available from MER, the designated custodian of the traps used in the 1998-99 project. Thirty (30) traps were tagged with special sequential trap tags provided by the Maine Department of Marine Resources (MDMR) Marine Patrol (ME 2006 REPL 010281 through ME 2006 REPL 01310).

Maine lobster fisherman Bradford Parady of Kittery, captain of the F/V *Angela and Ashley*, was hired as the cooperating fisherman on the project. Traps were first set from the F/V *Angela and Ashley* on 6 January 2009 as pairs identified on the surface by standard 6"x14" white buoys bearing a red band at the top, as well as the Special License (SL) Number under which they were being fished, and the relevant contact information as required by the SL; twenty-two traps (22) were initially set in the vicinity of Dry Dock 2 (DD2) and eight (8) traps in the vicinity of Dry Dock 3 (DD3). Subsequent hauls were made on 1/12/2009, 1/20/2009, 1/23/2009, and on 1/28/2009.

Catch data collection and subsequent movement of traps

Total number of lobsters caught, the number of traps hauled in each area, and the soak time (night-set) were used to calculate catch per unit effort (**C/E**), which we usually normalize to 3-night-set. Initial soak time was set at three days; however, catch, cold weather, and access to the areas fished resulted in varying soak time ranging from 3- to 8-night sets. Catch and lobster morphometric data were collected on each haul date and are included here as Appendix II. Catch data upon which trap movements and soak time were decided upon are summarized below in Table 1.

Table 1. Daily catch data by location

Date	Location	Total lobsters	No. traps	Lobs/trap	Night-set	Lobs/trap/ night-set
1/9/2009	DD2	18	22	0.82	3	0.27
	DD3	17	8	2.13	3	0.71
1/12/2009	DD2	13	20	0.65	3	0.22
	DD3	34	10	3.40	3	1.13
1/20/2009	DD3	48	30	1.60	8	0.20
1/23/2009	B13	87	28	3.11	3	1.04
1/28/2009	B13	97	28	3.46	5	0.69
Totals (Mean night-set)		**314**	**146**	**2.15**	**4**	**0.54**

Based on the low C/E values of 0.27 and 0.22 recorded on 1/9/2009 and 1/12/2009 at DD2, practical lobster removal was considered achieved following 6 days of fishing and all traps were removed from DD2 and relocated to DD3 on 1/12/2009. Trapping continued with thirty traps on an 8-night-set at DD3 through 1/20/2009, the day before the scheduled arrival of the dredge and barge on 1/21/2009 and the beginning of dredge operation at DD3 on 1/22/2009. All 30 traps were therefore removed from the immediate vicinity of DD3 on 1/20/2009 and were redeployed at adjacent Berth 13 following the departure of the submarine berthed there which had previously precluded deployment of traps at the berth.

One pair of traps was lost from Berth 13 between 1/20/2009 and 1/23/2009; the remaining 28 traps were hauled on a 3-night-set on 1/23/2009 and again on 1/28/2009 following a 5-night-set. An additional haul was planned, however the dredge area sequence had to be changed due to harbor operations and dredging at Berth 13 was rescheduled to begin on 1/29/2009. All traps were therefore removed from Berth 13 following the haul of 1/28/2009 and brought ashore concluding the project.

Effectiveness evaluation

Previous work has shown that complete removal of all lobsters is realistically unattainable, however, maximum achievable effectiveness of the effort is indicated by a leveling of catch per effort (C/E), at some base value, *e.g.* in the Portland Harbor project found to be between 0.1 and 0.5 based on a 3-night-set (Heinig and Tarbox, 2000).

An initial C/E value of 0.27 at DD2 indicated that lobster density in the area was low from the outset partly due to soft sediments along the Berth 6 side and the concentrated nature of the population resulting in most of the lobster being caught in the area adjacent to Berth 5. The subsequent haul on 1/12/2009 yielded a C/E value of 0.22 at DD2 while the C/E at DD3 was 1.13, indicating that lobsters were still on the move and catchable and the low C/E values recorded at DD2 were indeed due to population reduction, not reduced catchability.

The initially higher C/E value recorded at DD3 compared to DD2 supports the conclusion in the baseline survey report that a larger population of lobsters exists in the area than is discernable from the 19 August 2008 video due to the extensive kelp found in the area; compared to DD2, three times as many lobsters were caught at DD3 with half the number of traps yielding a C/E value of 1.13 after only a 3-night-set. The C/E value of 0.20 recorded on 1/20/2009 is likely artificially low due to the extended 8-night-set caused by extremely cold sub-zero weather that precluded hauling on the scheduled 3-night-set; nevertheless, if normalized to a 3-night-set (under the assumption that most lobsters are caught in the first 3 days) the C/E value becomes 0.53, only slightly greater than the upper range of effective reduction.

Berth 13 yielded the largest number of lobsters and consequently the highest number of lobsters per trap and similarly high C/E values. Although the C/E value of 0.69 on 1/28/2009 was lower than the 1.04 recorded on 1/23/2009, the value may be artificially low due to the extend soak time of the 5-night-set; if normalized to a 3-night-set, the C/E value becomes 1.15,

greater than the previous. At least one additional haul date would have been preferable in view of this increase, but the change in dredge schedule made it necessary to remove the traps slightly ahead of schedule. To maximize removal in close proximity to the area scheduled to be dredged, on 1/23/2009 the 14 pairs of traps were set in two rows of seven pairs, one close to the quay wall in the immediate area to be dredged and a second just outside the first; on the next haul on 1/28/2009 most of the lobsters were caught out of the outside set of traps, fewer having been caught within the area slated to be dredged.

Some lobsters undoubtedly remained within the dredge area at the time the relocation effort was concluded; however the amount of area involved and the number of lobsters remaining, based on the number removed, would unlikely have justified further effort.

Morphometric data

The detailed daily morphometric data are included as Appendix II and are summarized for the entire population below in Table 2.

Table 2. Morphometric data summary

Number	Category	% of population
314	Total lobsters	100%
195	Males	62%
119	Females	38%
269	Sublegal	85.7%
45	Legal	14.3%
78	Culls	24.8%
1	Egged	0.32%
3	Shell disease	1.0%

The proportion of males to females is slightly higher than the 57%/43% males/females found in the larger data set from Portland Harbor in 1998-99 (Heinig and Tarbox, 2000). The proportion of legal to sublegal lobsters is also higher compared to the Portland Harbor data set where legal lobster represented only 2% of the population at this time of year, but is similar to the 81% sublegal population found during the 2002 relocation effort at PNS; this may be due to the lack of fishing pressure in the vicinity of PNS.

Culls represent a substantial portion of the population at nearly 25%; similar observations of elevated numbers of culls have been made by MER in previous relocation efforts during winter. Only 1 egg-bearing female was caught during this effort representing only 0.32% of the population compared to 38 egg-bearing females out of 1,291, or 3%, during the 2002 effort at PNS. Shell disease was found on only 3 lobsters, or 1% of the population, but in all cases 40% or more of the shell was affected.

References

Heinig, C.S. and B.P. Tarbox, 2000. Pre- and post-dredge survey and relocation of the American lobster, *Homarus americanus*, population in Portland Harbor, Maine. MER Assessment Corporation Final Report prepared for the Portland Harbor Dredge Committee and Casco Bay Estuary Project. 51 p.

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MER, 2001. Baseline Video Survey for Proposed Dredge Project at Berths 2, 6, 11, 13 and Dry Docks 1, 2, and 3, Portsmouth Naval Shipyard (PNSY), Seavey Island, Kittery, Maine, 18 June 2001; report prepared for Appledore Engineering, Inc.

Appendix I

Maine Department of Marine Resources Special License No. 2009-05-00

STATE OF MAINE
DEPARTMENT OF
MARINE RESOURCES
MARINE RESOURCES LABORATORY
P.O. BOX 8, 194 McKOWN POINT RD
W. BOOTHBAY HARBOR, MAINE 04575-0008

JOHN ELIAS BALDACCI
GOVERNOR

GEORGE D. LAPOINTE
COMMISSIONER

January 1, 2009

SPECIAL LICENSE NUMBER ME 2009-05-00

Acting under the authority vested in the Commissioner of Marine Resources by virtue of 12 M.R.S.A. §6074(8)(D), I hereby issue subject to renewal a Special License (SL) to **CHRISTOPHER S. HEINIG,** MER Assessment Corporation, 14 industrial Parkway, Brunswick, Maine 04011. This Special License exempts said CHRISTOPHER S. HEINIG from those portions of 12 M.R.S.A. §6431 relating to legal size limits, possession and liberation of lobster, §6432 and §6433 relating to methods of fishing and trap specifications, §6436 relating to the taking and possession of egg-bearing lobsters and §6440(2) fishing weekend closed period plus DMR Regulations Chapter 25.85 relating to lobster trap construction and lobster trap escape vents, for the purpose of assessment of the local lobster population at the Downeast LNG proposed pier site. This Special License is issued subject to the following conditions:

1. **Who:** Christopher S. Heinig - MER Assessment Corporation and personnel: Daniel S. Millar and Steve Karpiak
   Other fishermen or assistants must be preapproved by Marine Patrol for this project.
   18' R/V "Survey Boat", Reg. # ME4476A Additional vessels used by this project to carry out the purpose of the special license must have a current US Coast Guard commercial fishing safety inspection and provide a copy of the inspection report and issuance/expiration dates to DMR for this SL be valid.

2. **What/How/Where:** Lobsters will be captured from the vicinity of the secure/restricted area of the Portsmouth Naval Shipyard, vicinity of Dry Docks 2 and 3 and at Berth 13, Kittery. Lobsters will be relocated to the cove just north of the causeway linking Clark Island to Seavey Island off of the southeast side of Seavey Island. (Same area used in January 2002 effort).
   Fifty (50) modified (vent-disabled, "parlor" covered with shrimp-twine) traps will be set. Traps shall be marked with designated tags and buoys, marked as designated by the Marine Patrol. See conditions.
   Hauling schedule: we estimate a maximum of 3 haul dates based on a 3-night set; initial set on or about January 6, 2009 and hauled January 9, 12, and 15. Barring anything unforeseen, we expect to remove the traps on the last haul date, i.e. January 15, 2009, but if there are still lots of lobsters, we may continue at least one more day.

3. **When:** Within the first half of January 2009

4. **Conditions:**

- **Marine Patrol** Division I office (west of Port Clyde), **Tel: (207) 633-9595**, Lt. Cornish ***shall*** be contacted prior to the start up of collecting activities to make arrangements as to the necessary frequency when to contact Marine Patrol to provide the Special License (SL) number, dates, location(s) of activities, name of special license holder(s) and if transporting of specimens will occur, etc. Notify Marine Patrol and L. Churchill when the work has ended. A log of your contact with Marine Patrol is advised. ***Failure to contact Marine Patrol shall be grounds for the immediate revocation.***
- **Markings:** Each surface buoy will be marked with or on an attached placard or flag with:
  Special License ME2009-04-00, Contact: Chris Heinig (tel: 207-751-3696)
  The modified traps (up to 50) will be tagged with Grey replacement tags: ***ME 2006 REPL #'s 010281 -010330***
- **No Commercial Use:** Survey trips will be made exclusively for tending the modified traps and no commercial gear will be hauled or activity takes place. All other marine organisms will be returned to the water immediately.
- **Reporting:** An electronic copy of the data collected, report, etc, shall be provided to the DMR (attn: L Churchill) at the conclusion of the work. Contact Carl Wilson to confirm data required prior to start up: carl.wilson@maine.gov or tel: 633-9538.
- **Whale Gear:** Trap surface lines must be rigged to conform to whale take reduction protocols. Compliance must be confirmed by the Gear Coordinator, at DMR (207-633-9513 or 633-9500).
- **Additional** conditions may be added at the discretion of the Commissioner.
- **Penalty:** Any infraction of these conditions or any violation of any Marine Resources laws shall be grounds for the immediate revocation of this Special License. Pursuant to 12 M.R.S.A. §6074(9) an individual who fails to comply with the conditions or limitations on the licensed activity under this section commits a civil violation for which a fine of not less than $100 nor more than $500 may be adjudged.

GEORGE D. LAPOINTE
Commissioner

cc Marine Patrol Division I
Sarah Cotnoir – Area Coordinator
Carl Wilson

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
NORTHEAST REGION
55 Great Republic Drive
Gloucester, MA 01930-2276

MAY - 3 2013

B.L. Weinstein, P.E.
Commander, Civilian Engineer Corps, U.S. Navy
Public Works Officer
Portsmouth Naval Shipyard
Portsmouth, NH. 03804-5000

RE: Portsmouth Naval Shipyard Maintenance Dredge Project

Dear Mr. Weinstein:

We have reviewed your April 2, 2013 request for consultation pursuant to section 7 of the Endangered Species Act (ESA) of 1973, as amended, regarding your proposed maintenance dredging of the industrial waterfront at the Portsmouth Naval Shipyard (PNS). You have made a preliminary determination that the proposed action is not likely to adversely affect federally listed shortnose sturgeon and Atlantic sturgeon and have requested our concurrence with this determination. This particular action involves more than one federal agency, but the consultation responsibilities may be fulfilled through a lead agency. This action is being taken by the U.S. Navy, but it will also require a permit under the Clean Water Act of 1972 from the U.S. Army Corps of Engineers. For this project, the U.S. Navy is the lead Federal agency for this consultation. We have considered the potential effects of this project on shortnose and Atlantic sturgeon and concur with your determination. The justification for our determination is presented below.

Proposed Action

The proposed project is along the industrial waterfront at the Portsmouth Naval Shipyard on Seavey Island in the Piscataqua River in Kittery, York County, ME. The action area is defined as "all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action" (50 CFR§402.02). For this project, the action area includes the dredge sites, as well as the underwater area where effects of the project (e.g., disturbed substrate, increased turbidity, and elevated underwater noise levels) will potentially be experienced.

The proposed project consists of the subtidal dredging of 16 designated berthing areas and the approaches to three dry docks. The dredging is required to re-establish adequate berthing depths and dry dock access which have been reduced over time by the deposition of sediment transported by the Piscataqua River. The dredging operations will be conducted over a 10-year period as the deposition rate dictates and funding is made available. Active dredging operations will be limited to November 8 to April 9 of any given year. A barge mounted crane with a

mechanical clamshell bucket will be used. The maximum dredge depth below existing grade is approximately 38 feet below mean low low water plus an allowable 2 foot allowance for overdredge. All sites have been previously dredged. The total area to be dredged is approximately 6.99 acres (2.82 hectares). Based on sediment accretion rates, the berths and dry docks will not require annual dredging. The total volume of material to be removed over the 10-year life of the project equals approximately 70,000 cubic yards (53,519 cubic meters). See Figure 1 for berth specific area of impact and dredge volume.

Figure 1. Area impacted and amounts of material dredged from each site. Multiple listing indicates adjacent locations.

Location	Dredge Area in Square Feet (SF)	Dredge Volume: Design Depth in Cubic Yards (CY)	Dredge Volume: Overdredge Depth in Cubic Yards (CY)
Maintenance Dredge Areas			
Berth 13, Dry Dock 3	37,294	4,380	3 ,894
Berth 12	19,523	3,390	1,446
Berth 11B, 11C	27,911	2,887	3,197
Berth 11A, Berth 1, Dry Dock 1	66,253	11,670	5,221
Berth 2A, 2B	12,974	935	961
Berth 5, 6A, Dry Dock 2	12,793	1,135	1,290
Berth 6B, 6C	26,105	1,896	3,287
Total	**202,853**	**26,293**	**19,596**
	Total Maintenance Dredge Volume		**45,889**
New Dredging Areas*			
Berth 14	37,641	2,270	3,366
Berth 3	6,729	843	498
Berth 4	1,729	139	129
Berth 7	55,542	12,648	4,310
Total	**101,641**	**15,900**	**8,303**
	Total New Dredge Volume		**24,203**

*Areas dredged prior to Army Corps of Engineers permit #200102047 and the Maine Department of Environmental Protection Permit #L-20637-4E-A-N which were both issued in 2001.

All dredge spoils will be tested for hazardous materials to determine disposal requirements, dewatered, amended with cement as needed to facilitate transportation, and disposed of at a permitted upland facility such as a landfill based upon sediment testing and characterization in accordance with Maine solid waste management regulations. Turbidity curtains will be used where water velocities and dredge depths make their use practicable (i.e., approaches at Dry Docks 1 & 2, and berths 1, 5, 6A, and 11A).

NMFS Listed Species in the Action Area

Shortnose Sturgeon

The action area is within the range of listed shortnose sturgeon *(Acipenser brevirostrum)*.

Several large river systems in the vicinity of the Piscataqua River support shortnose sturgeon populations (e.g., Merrimack, Kennebec, and Androscoggin Rivers). It is believed shortnose sturgeon were historically abundant in the Piscataqua River, though there are few records of sturgeon captures, and no records distinguish between Atlantic and shortnose sturgeon. With few verified records and no directed studies currently underway in this river, it is unclear whether a shortnose sturgeon population currently exists in the Piscataqua River. Shortnose sturgeon tagged in the Merrimack, Kennebec, and Penobscot Rivers undertake coastal migrations within the Gulf of Maine. Migrating shortnose sturgeon may utilize the Piscataqua River during inter-basin movements. While no tagged shortnose sturgeon have been detected in the river, this may be because there are only two receivers. We have determined that shortnose sturgeon are likely to seasonally occur in the action area based on: (1) the proximity of the Piscataqua River to other river systems where shortnose sturgeon are known to occur (2), telemetry information which demonstrates inter-basin movements of the species and the utilization of nearby small coastal river systems during migration, and (3) historical information on sturgeon presence in the Piscataqua River. However, due to the overwintering habits of shortnose sturgeon and the prescribed work window outlined above, we do not anticipate shortnose sturgeon in the action area during the Shipyard's dredging operations, and thus, they are not considered further.

Atlantic Sturgeon

On February 6, 2012, we listed four DPSs of Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) as endangered (New York Bight, Chesapeake Bay, Carolina, and South Atlantic) and one DPS as threatened (Gulf of Maine) under the ESA (77 FR 5880 and 77 FR 5914). The marine range for all five DPSs includes all marine waters, plus coastal bays and estuaries, from Labrador Inlet, Labrador, Canada to Cape Canaveral, FL. The proposed action at the Portsmouth Naval Shipyard is located within the range of Atlantic sturgeon. Atlantic sturgeon have been documented in the Piscataqua River.

Within the GOM DPS, Atlantic sturgeon have been documented in the following rivers: Penobscot, Kennebec, Androscoggin, Sheepscot, Saco, Pemaquid, Piscataqua and Merrimack Rivers. However, Atlantic sturgeon observed in these rivers are not necessarily GOM DPS fish unless they have been identified as such through genetic analysis or other means (e.g. tags applied to YOY). Little is known about the abundance and trends of the GOM DPS.

Few Atlantic sturgeon have been captured in the Piscataqua River (Hoff 1980). A subadult Atlantic sturgeon (57 cm; likely age-1) was captured by New Hampshire Fish and Game (NHFG) in June 1981 at the mouth of the Oyster River in Great Bay (NHFG 1981). Between July 1, 1987, and June 30, 1989, NHFG surveyed the deeper tributaries of the Great Bay Estuary, including the Piscataqua, Oyster, Little and Lamprey Rivers, as well as the Great Bay for shortnose sturgeon, using 30.5 m nets (3 m deep, with 14 and 19 cm stretch mesh) that were fished for 146 net days. As of 1998, there was no evidence that Atlantic sturgeon spawned in the Piscataqua River/Great Bay Estuary system, but subadults still appear to use the Bay as a nursery habitat.

However, as recently as June 2012, a tagged Atlantic sturgeon measuring 82.3 centimeters was detected by a United States Geological Survey (USGS) telemetry receiver in Great Bay. The sturgeon had been released near Rockaway, New York a month prior to its detection by the

USGS. Unlike shortnose sturgeon, Atlantic sturgeon do not exclusively overwinter upstream in low salinity habitats. Therefore, Atlantic sturgeon may occur in the Piscataqua River action area during active dredging regardless of the proposed time of year restrictions.

We have considered the best available information on the distribution of Atlantic sturgeon and have determined that most Atlantic sturgeon in the action area are likely to be GOM DPS origin. However, it is also likely that some Atlantic sturgeon in the action area are Canadian origin (and therefore not listed under the ESA), and even a smaller portion of Atlantic sturgeon in the action area may be of New York Bight (NYB) DPS origin. As a result, for this consultation, we consider effects of the proposed action on the GOM and NYB DPSs of Atlantic sturgeon.

Effects of the Proposed Action on Listed Species

Capture or Entrapment in a Clam Shell Dredge Bucket

Aquatic species can be captured in dredge buckets and may be injured or killed from entrapment in the bucket or burial in sediment during dredging and/or when sediment is deposited into the dredge scow. Fish captured and emptied out of the bucket could suffer severe stress or injury, which could also lead to mortality. Few captures of sturgeon with dredge buckets have been reported.

On April 30, 2003, a shortnose sturgeon was captured in a clam shell bucket dredge operating in the Bath Iron Works (BIW) sinking basin in the Kennebec River. In addition, an Atlantic sturgeon was killed in the Cape Fear River in a bucket and barge operation (NMFS 1998), and an Atlantic sturgeon was captured in a clamshell bucket, deposited in the dredge scow, and released apparently unharmed during dredging operations at BIW in 2001 (Maine DMR 2002). One shortnose sturgeon was captured in a clamshell bucket and detected in the dredge scow on June 1, 2009 during dredging operations at BIW. It is important to note that while nearly all of the recorded interactions between mechanical dredges and sturgeon have been during dredging at the BIW facility, it is unknown if this is due to a unique situation in this river or the intense observer coverage at dredging operations in this river. Very few other mechanical dredge operations have employed observers to document interactions between sturgeon and the dredge; therefore, it is possible that interactions during other projects have occurred but just not been observed.

Based on the best available information, the risk that a sturgeon would be captured in the slow moving dredge bucket in the lower Piscataqua River is unlikely. This is evidenced by the small number of sturgeon captured during dredging operations at BIW since 1997, despite the high density of shortnose sturgeon in the Kennebec River and the occurrence of over 10 dredge events, with dredging happening nearly every year. Therefore, we conclude that the effects of capture or entrapment of Atlantic sturgeon by a clam shell bucket during dredging are discountable.

Effects to Sturgeon Habitat and Loss of Benthic Resources

Since dredging involves removing the bottom material down to a specified depth, the benthic environment will be impacted by dredging operations. Sturgeon foraging grounds are typically shallow waters and mud flats covered with rooted aquatic plants. The areas to be dredged are subject to constant scouring and resettling of sediment; it is unlikely that even the minor amounts

of benthic forage are present. As such, sturgeon are not likely to be feeding in the area to be dredged and any effects of the removal of any potential forage items during dredging operations will be insignificant.

Sedimentation and Increased Turbidity

Dredging will disturb the substrate, re-suspend sediment, and increase turbidity. Monitoring of twelve mechanical dredge operations in the Delaware River in 1992 indicated that sediment plumes had fully dissipated at a distance of 3,300 feet from the dredge area with the highest concentrations limited to the area within 50 feet of the dredge. The Delaware River study also indicated that mechanical dredging does not alter turbidity or dissolved oxygen to a biologically significant degree and analysis did not reveal a consistent trend of higher turbidity and lower dissolved oxygen within the sediment plume. During mechanical dredging, total suspended solids (TSS) generally range from 24 to 43 mg/L. The sediment plume resulting from the dredging is expected to flush downstream of Seavey Island within a few minutes because of the current, or settle out in back-eddies within a few hours. The direction of the sediment plume will change based on the direction of the tide.

The life stages of sturgeon most vulnerable to increased sediment are eggs and larvae which are immobile and subject to burial and suffocation. However, no eggs and/or larvae will be present in the action area. Subadult and adult sturgeon are frequently found in turbid water and would be capable of avoiding any sediment plume by swimming around the plume or higher in the water column. Laboratory studies (Niklitschek 2001 and Secor and Niklitschek 2001) have demonstrated shortnose sturgeon are able to actively avoid areas with unfavorable water quality conditions and that they will seek out more favorable conditions when available. While the increase in suspended sediments may cause sturgeon to alter their normal movements, any change in behavior is likely to be insignificant as it will only involve movement further up in the water column or around the turbid area.

Since the sediment plume is expected to have fully dissipated at a distance of 3,300 feet of the dredging and the highest concentrations are expected within 50 feet of the dredge and the river is nearly 500 meters (1,500 feet) wide at the site of dredging, there will be a sufficient zone of passage where listed species can forage or migrate up or down stream without being exposed to any effects of the sediment plume. Based on this information, any increase in suspended sediment is not likely to affect the movement of sturgeon between foraging areas and/or concentration areas during any phase of dredging or otherwise negatively affect listed species in the action area and we conclude that the sediment effect of dredging on shortnose and Atlantic sturgeon is insignificant.

ESA Section 7 Conclusions

As all adverse effects associated with the dredge project at Portsmouth Naval Shipyard will be insignificant and discountable as described above, we concur with your determination that the proposed project is not likely to adversely affect shortnose sturgeon, or GOM and New York Bight DPS of Atlantic sturgeon.

This concludes consultation pursuant to section 7 of the ESA for this project. Re-initiation of consultation is required and must be requested by you or by us, when discretionary Federal

involvement or control over the action has been retained or is authorized by law and: (a) if new information reveals effects of the action that may affect listed species or critical habitat in a manner or to an extent not previously considered in the consultation; (b) if the identified action is subsequently modified in a manner that causes an effect to the listed species or critical habitat that was not considered in the consultation; or, (c) if a new species is listed or critical habitat designated that may be affected by the identified action. We look forward to continuing to work with you and your staff on issues related to federally protected species in Maine. Should project plans change or new information becomes available that changes the basis for this determination, or if you have any questions or concerns about these comments, please contact Max Tritt (207) 866-3756 at our Maine Field Office for any questions regarding this consultation.

Essential Fish Habitat

Consultation for Essential Fish Habitat (EFH) under the Magnuson-Stevens Fishery Conservation and Management Act (MSA) may be necessary for this project due to the presence of habitats used by federally managed species in the project area. If EFH may be adversely affected, an EFH assessment may be necessary to analyze the effects of the action on EFH and federally managed species. A guide to essential fish habitat designations in the Northeastern United States is located on the Habitat Conservation Division web site at http://www.nero.noaa.gov/hcd/webintro.html. Questions concerning EFH and other NMFS trust resources can be directed to Mike Johnson at 978-281-9130 or by email at Mike.R.Johnson@noaa.gov.

Sincerely,

for John K. Bullard
Regional Administrator

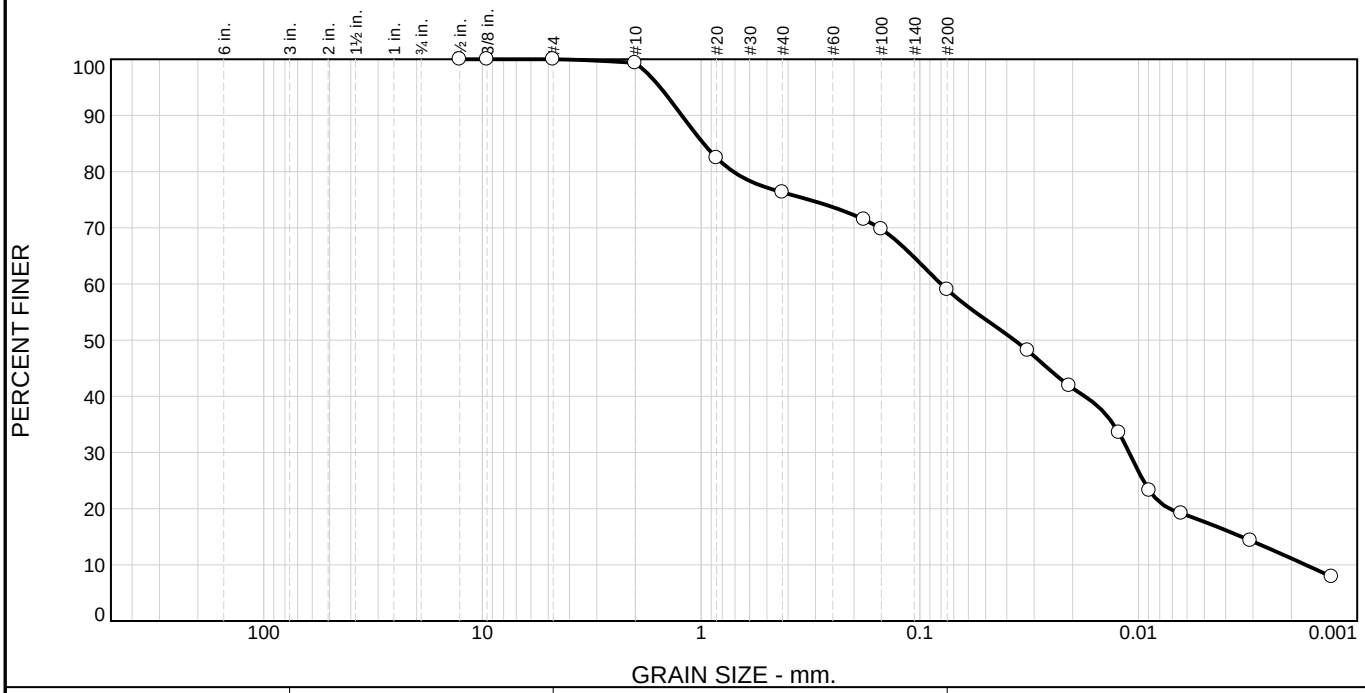
EC:
Damon-Randall, Murphy, Tritt, Johnson - NMFS
Trefry - DOD
Clement - ACOE
Wood - MEDEP

File Code: Sec. 7 Department of the Navy, Portsmouth Naval Shipyard Maintenance Dredge
PCTS: NER-2013-9688

APPENDIX B

2008 DREDGE MATERIAL DATA

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.6	23.1	17.3	41.3	17.7

Test Results (ASTM D 422 & ASTM D 1140)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1/2	100.0		
3/8	100.0		
#4	100.0		
#10	99.4		
#20	82.4		
#40	76.3		
#80	71.5		
#100	69.8		
#200	59.0		
0.0321 mm.	48.2		
0.0207 mm.	41.9		
0.0123 mm.	33.5		
0.0089 mm.	23.3		
0.0064 mm.	19.2		
0.0031 mm.	14.3		
0.0013 mm.	7.9		

* (no specification provided)

Material Description

SILT & FINE-MEDIUM SAND, little clay

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= 1.2250 D_{85}= 0.9749 D_{60}= 0.0800
D_{50}= 0.0369 D_{30}= 0.0110 D_{15}= 0.0034
D_{10}= 0.0017 C_u= 46.47 C_c= 0.88

Remarks

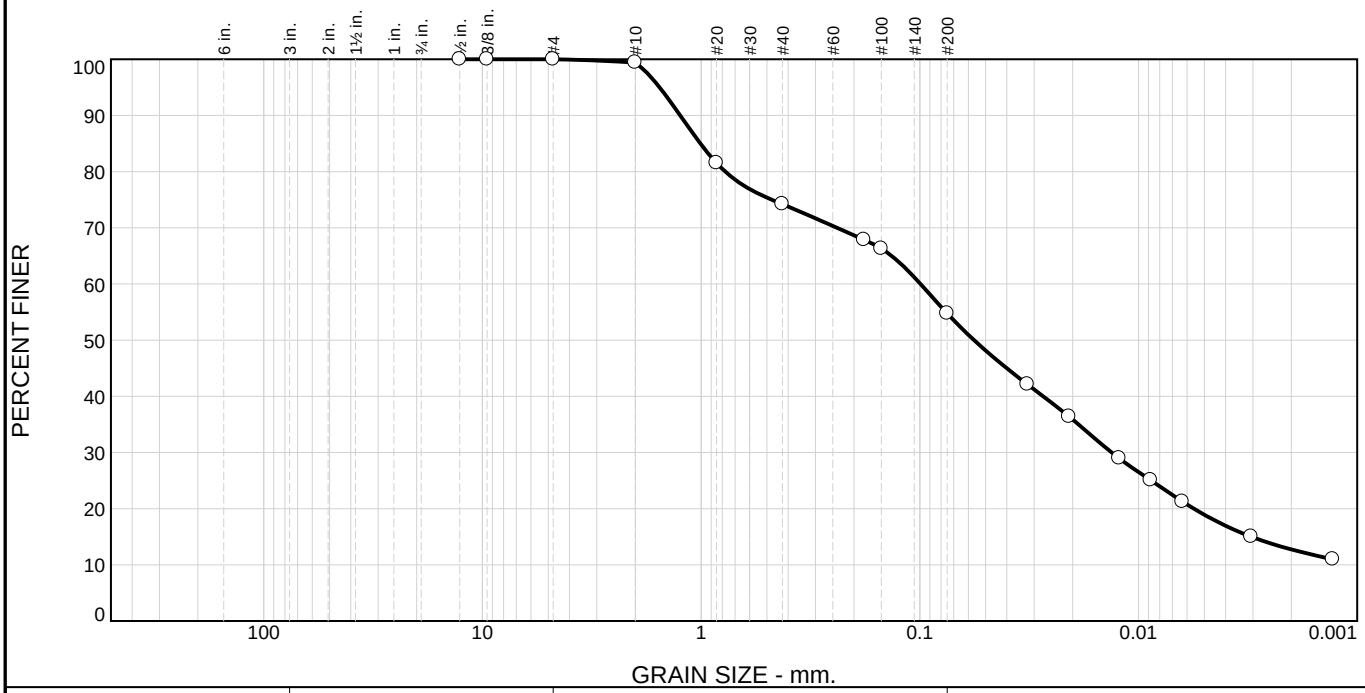
Date Received: 08-22-08 **Date Tested:** 09-03-08
Tested By: Gary Darrow
Checked By: Jim Corti
Title: Director of Testing

Location: Dry Dock 1
Sample Number: S-2
Date Sampled: 08-19-08

JOHN TURNER
Dover, NH

Client: Resource Laboratories
Project: 15079
Project No: 08-LTS-058-15079 **Report #:** 002

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.6	25.2	19.4	35.9	18.9

Test Results (ASTM D 422 & ASTM D 1140)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1/2	100.0		
3/8	100.0		
#4	100.0		
#10	99.4		
#20	81.5		
#40	74.2		
#80	67.9		
#100	66.3		
#200	54.8		
0.0322 mm.	42.1		
0.0208 mm.	36.4		
0.0123 mm.	29.0		
0.0088 mm.	25.1		
0.0063 mm.	21.3		
0.0031 mm.	15.0		
0.0013 mm.	11.0		

* (no specification provided)

Material Description

SILT & FINE-MEDIUM SAND, little clay

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= 1.2461 D_{85}= 1.0076 D_{60}= 0.0992
D_{50}= 0.0565 D_{30}= 0.0133 D_{15}= 0.0030
D_{10}= C_u= C_c=

Remarks

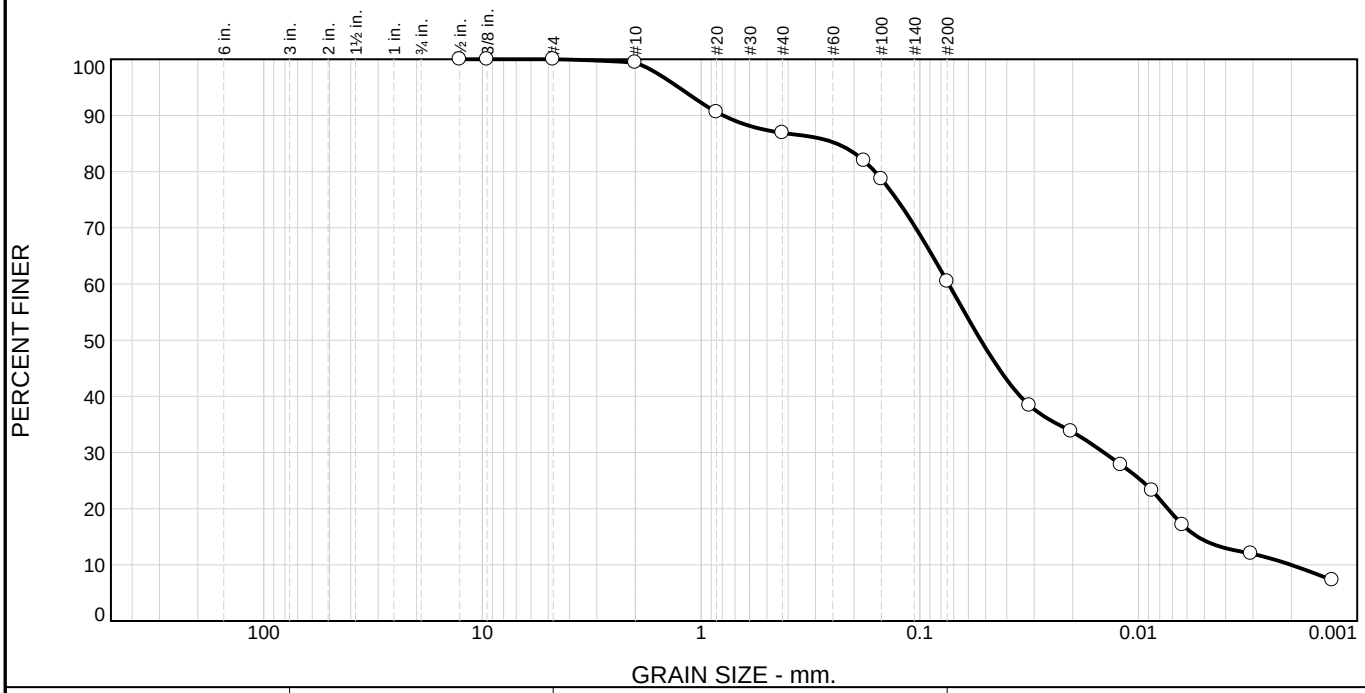
Date Received: 08-22-08 **Date Tested:** 09-03-08
Tested By: Gary Darrow
Checked By: Jim Corti
Title: Driector of Testing

Location: Dry Dock 1
Sample Number: S-3
Date Sampled: 08-19-08

JOHN TURNER Dover, NH

Client: Resource Laboratories
Project: 15079
Project No: 08-LTS-058-15079 **Report #:** 003

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.6	12.5	26.4	46.2	14.3

Test Results (ASTM D 422 & ASTM D 1140)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1/2	100.0		
3/8	100.0		
#4	100.0		
#10	99.4		
#20	90.6		
#40	86.9		
#80	81.9		
#100	78.7		
#200	60.5		
0.0316 mm.	38.4		
0.0204 mm.	33.8		
0.0120 mm.	27.8		
0.0087 mm.	23.2		
0.0063 mm.	17.1		
0.0031 mm.	12.0		
0.0013 mm.	7.3		

* (no specification provided)

Material Description

SILT & FINE-MEDIUM SAND, little clay

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= 0.7939 D_{85}= 0.2404 D_{60}= 0.0739
D_{50}= 0.0526 D_{30}= 0.0144 D_{15}= 0.0054
D_{10}= 0.0020 C_u= 36.77 C_c= 1.40

Remarks

Date Received: 08-22-08 **Date Tested:** 09-03-08

Tested By: Gary Darrow

Checked By: Jim Corti

Title: Director of Testing

Location: Dry Dock 3
Sample Number: S-4

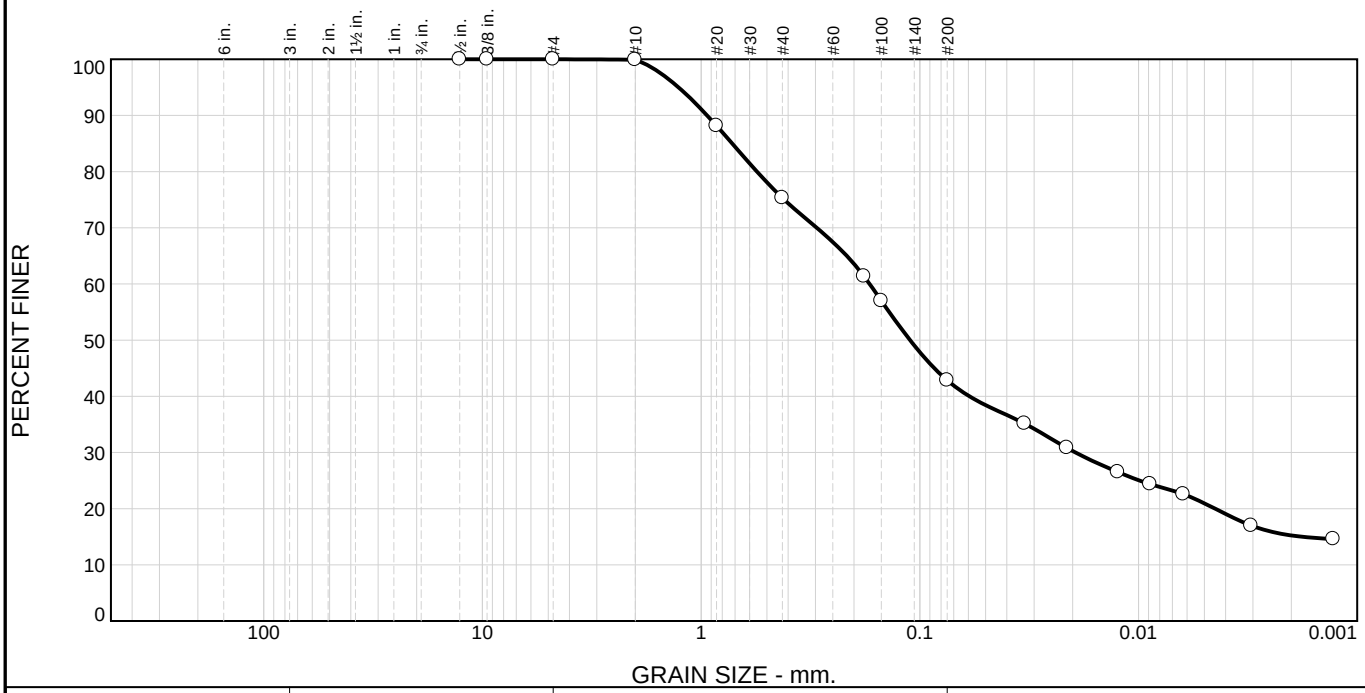
Date Sampled: 08-20-08

JOHN TURNER
Dover, NH

Client: Resource Laboratories
Project: 15079

Project No: 08-LTS-058-15079 **Report #:** 004

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	24.6	32.5	21.8	21.0

Test Results (ASTM D 422 & ASTM D 1140)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1/2	100.0		
3/8	100.0		
#4	100.0		
#10	99.9		
#20	88.2		
#40	75.3		
#80	61.4		
#100	57.0		
#200	42.8		
0.0332 mm.	35.1		
0.0213 mm.	30.8		
0.0124 mm.	26.5		
0.0088 mm.	24.4		
0.0062 mm.	22.6		
0.0031 mm.	17.0		
0.0013 mm.	14.6		

* (no specification provided)

Material Description

FINE-MEDIUM SAND, some silt, some clay

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= 0.9391 D_{85}= 0.7207 D_{60}= 0.1697
D_{50}= 0.1108 D_{30}= 0.0194 D_{15}= 0.0018
D_{10}= C_u= C_c=

Remarks

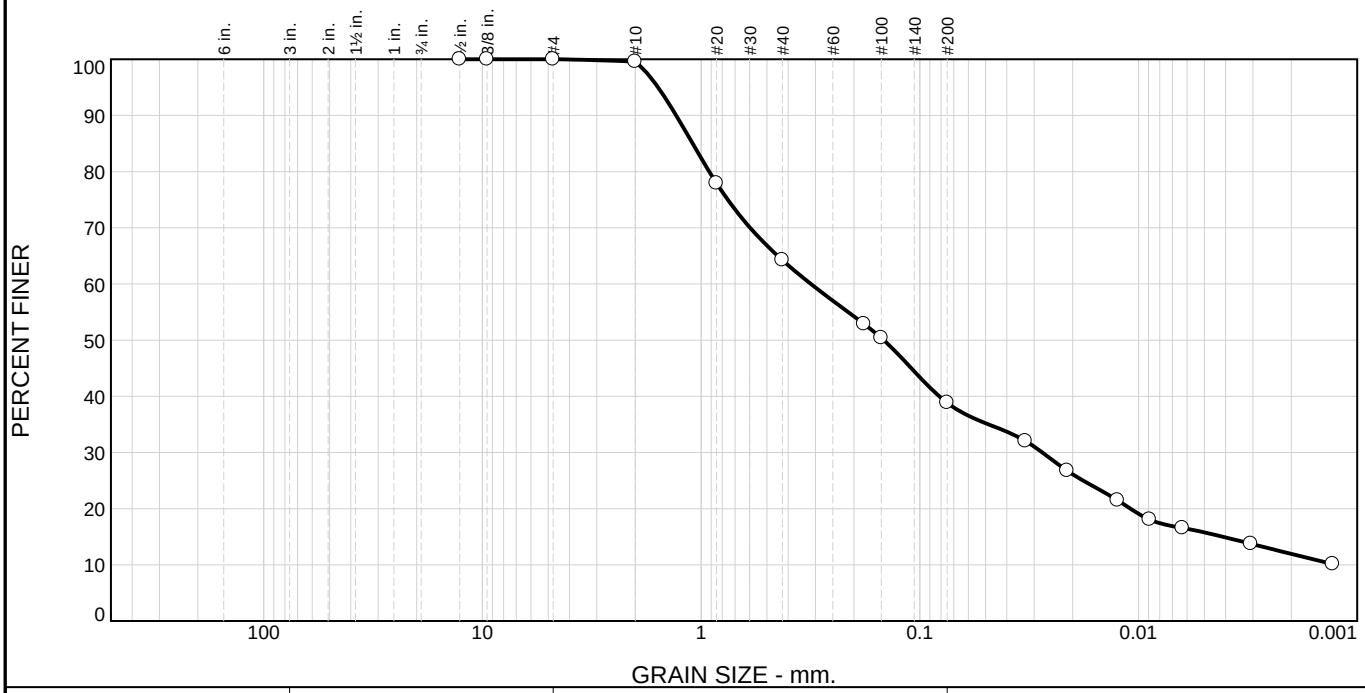
Date Received: 08-22-08 **Date Tested:** 09-03-08
Tested By: Gary Darrow
Checked By: Jim Corti
Title: Director of Testing

Location: Dry Dock 3
Sample Number: S-5
Date Sampled: 08-20-08

JOHN TURNER Dover, NH

Client: Resource Laboratories
Project: 15079
Project No: 08-LTS-058-15079 **Report #:** 005

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.4	35.4	25.4	23.0	15.8

Test Results (ASTM D 422 & ASTM D 1140)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1/2	100.0		
3/8	100.0		
#4	100.0		
#10	99.6		
#20	77.9		
#40	64.2		
#80	52.9		
#100	50.4		
#200	38.8		
0.0329 mm.	32.0		
0.0212 mm.	26.8		
0.0125 mm.	21.5		
0.0089 mm.	18.1		
0.0063 mm.	16.6		
0.0031 mm.	13.8		
0.0013 mm.	10.1		

* (no specification provided)

Material Description

FINE-MEDIUM SAND, some silt, little caly

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= 1.3000 D_{85}= 1.0934 D_{60}= 0.3148
D_{50}= 0.1462 D_{30}= 0.0275 D_{15}= 0.0041
D_{10}= C_u= C_c=

Remarks

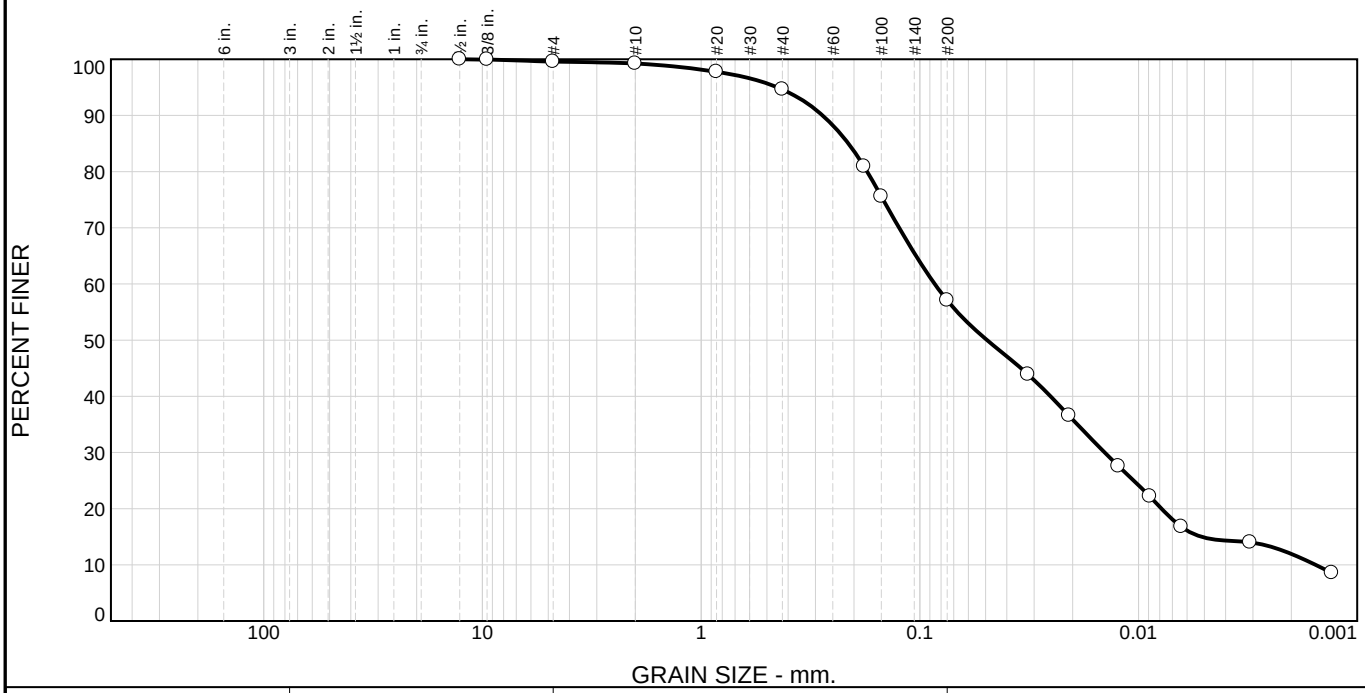
Date Received: 08-22-08 **Date Tested:** 09-03-08
Tested By: Gary Darrow
Checked By: Jim Corti
Title: Director of Testing

Location: Dry Dock 3
Sample Number: S-6
Date Sampled: 08-20-08

JOHN TURNER
Dover, NH

Client: Resource Laboratories
Project: 15079
Project No: 08-LTS-058-15079 **Report #:** 006

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.4	0.4	4.6	37.5	42.3	14.8

Test Results (ASTM D 422 & ASTM D 1140)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1/2	100.0		
3/8	99.9		
#4	99.6		
#10	99.2		
#20	97.8		
#40	94.6		
#80	80.9		
#100	75.6		
#200	57.1		
0.0320 mm.	43.9		
0.0208 mm.	36.6		
0.0124 mm.	27.6		
0.0089 mm.	22.2		
0.0064 mm.	16.8		
0.0031 mm.	14.0		
0.0013 mm.	8.6		

* (no specification provided)

Material Description

SILT & FINE SAND, little clay

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= 0.2782 D_{85}= 0.2121 D_{60}= 0.0855
D_{50}= 0.0493 D_{30}= 0.0143 D_{15}= 0.0052
D_{10}= 0.0015 C_u= 55.17 C_c= 1.54

Remarks

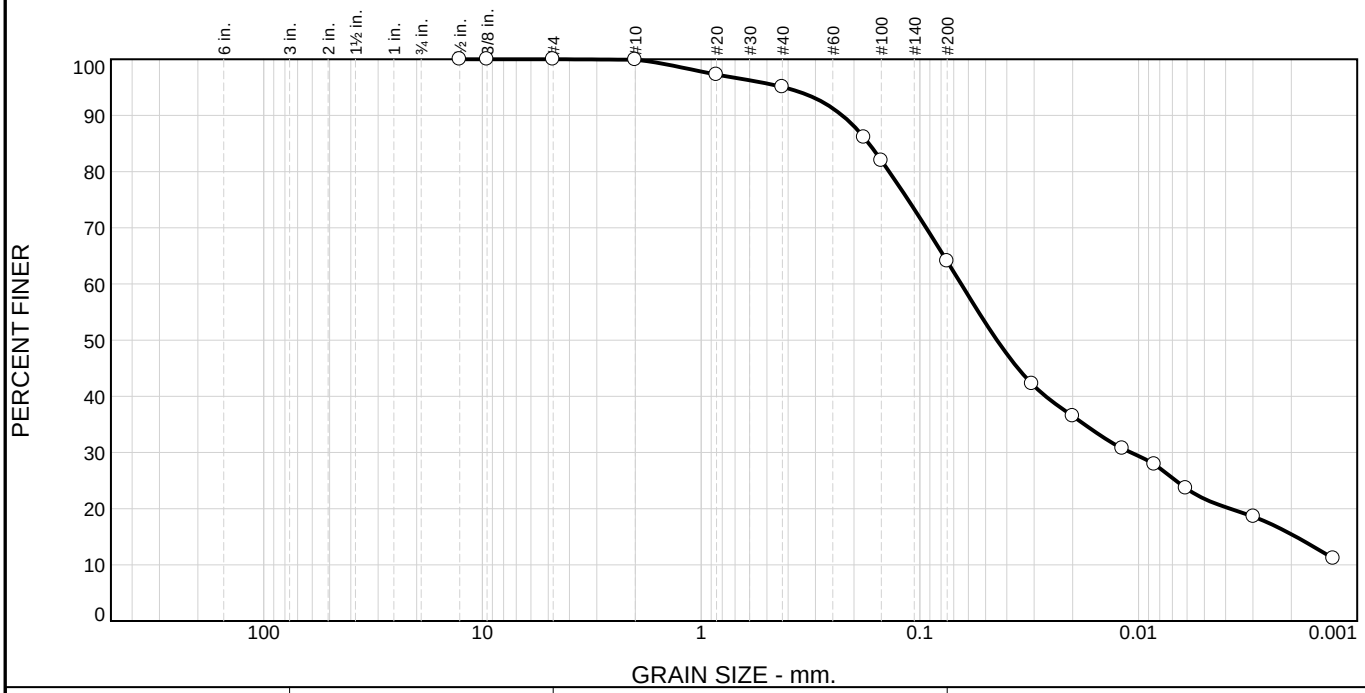
Date Received: 08-22-08 **Date Tested:** 09-03-08
Tested By: Gary Darrow
Checked By: Jim Corti
Title: Director of Testing

Location: Dry Dock 2
Sample Number: S-7
Date Sampled: 08-20-08

JOHN TURNER Dover, NH

Client: Resource Laboratories
Project: 15079
Project No: 08-LTS-058-15079 **Report #:** 007

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	4.8	31.1	42.2	21.8

Test Results (ASTM D 422 & ASTM D 1140)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1/2	100.0		
3/8	100.0		
#4	100.0		
#10	99.9		
#20	97.3		
#40	95.1		
#80	86.1		
#100	82.0		
#200	64.0		
0.0307 mm.	42.2		
0.0200 mm.	36.5		
0.0118 mm.	30.7		
0.0085 mm.	27.9		
0.0061 mm.	23.6		
0.0030 mm.	18.6		
0.0013 mm.	11.1		

* (no specification provided)

Material Description

SILT, some fine sand, some clay

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= 0.2264 D_{85}= 0.1709 D_{60}= 0.0648
D_{50}= 0.0444 D_{30}= 0.0108 D_{15}= 0.0019
D_{10}= C_u= C_c=

Remarks

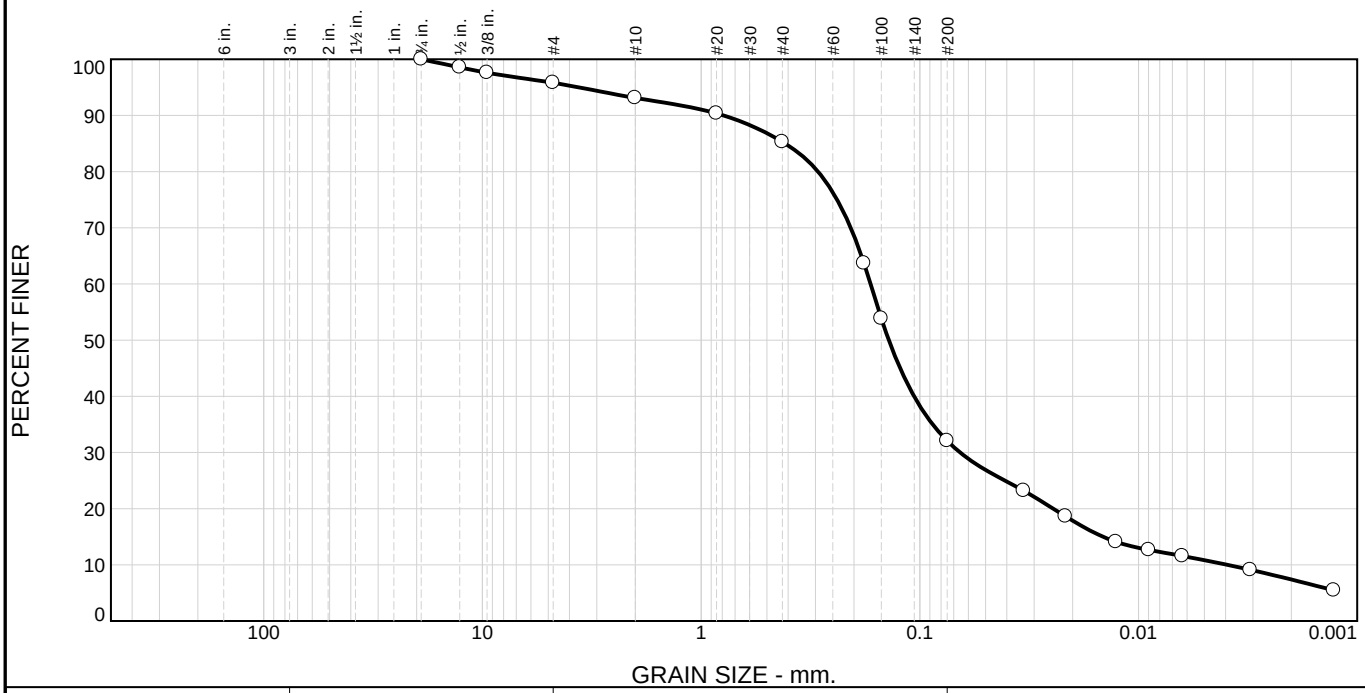
Date Received: 08-22-08 **Date Tested:** 09-03-08
Tested By: Gary Darrow
Checked By: Jim Corti
Title: Director of Testing

Location: Dry Dock 2
Sample Number: S-8
Date Sampled: 08-20-08

JOHN TURNER Dover, NH

Client: Resource Laboratories
Project: 15079
Project No: 08-LTS-058-15079 **Report #:** 008

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.2	2.7	7.8	53.2	21.3	10.8

Test Results (ASTM D 422 & ASTM D 1140)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3/4	100.0		
1/2	98.6		
3/8	97.6		
#4	95.8		
#10	93.1		
#20	90.4		
#40	85.3		
#80	63.7		
#100	53.9		
#200	32.1		
0.0335 mm.	23.2		
0.0216 mm.	18.6		
0.0127 mm.	14.1		
0.0090 mm.	12.7		
0.0063 mm.	11.6		
0.0031 mm.	9.1		
0.0013 mm.	5.5		

* (no specification provided)

Material Description

FINE SAND, some silt, little clay, trace gravel

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= 0.7910 D_{85}= 0.4130 D_{60}= 0.1680
D_{50}= 0.1386 D_{30}= 0.0654 D_{15}= 0.0145
D_{10}= 0.0039 C_u= 42.92 C_c= 6.50

Remarks

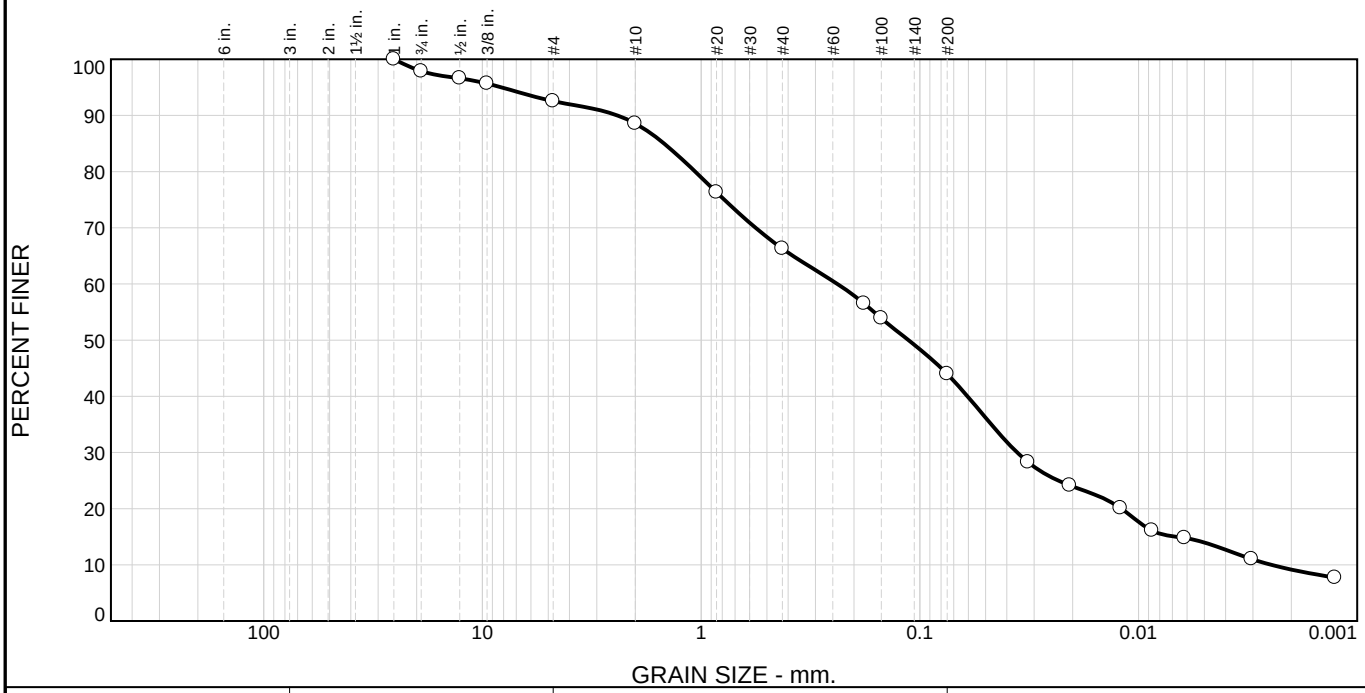
Date Received: 08-22-08 **Date Tested:** 09-03-08
Tested By: Gary Darrow
Checked By: Jim Corti
Title: Director of Testing

Location: Dry Dock 2
Sample Number: S-9
Date Sampled: 08-20-08

JOHN TURNER Dover, NH

Client: Resource Laboratories
Project: 15079
Project No: 08-LTS-058-15079 **Report #:** 009

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.1	5.4	3.9	22.3	22.3	30.0	14.0

Test Results (ASTM D 422 & ASTM D 1140)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1	100.0		
3/4	97.9		
1/2	96.6		
3/8	95.7		
#4	92.5		
#10	88.6		
#20	76.3		
#40	66.3		
#80	56.5		
#100	53.9		
#200	44.0		
0.0320 mm.	28.3		
0.0206 mm.	24.1		
0.0121 mm.	20.1		
0.0087 mm.	16.1		
0.0062 mm.	14.8		
0.0030 mm.	11.0		
0.0013 mm.	7.7		

* (no specification provided)

Material Description

FINE-MEDIUM SAND, some silt, little clay, trace gravel

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= 2.4143 D_{85}= 1.4773 D_{60}= 0.2381
D_{50}= 0.1127 D_{30}= 0.0359 D_{15}= 0.0067
D_{10}= 0.0025 C_u= 96.42 C_c= 2.19

Remarks

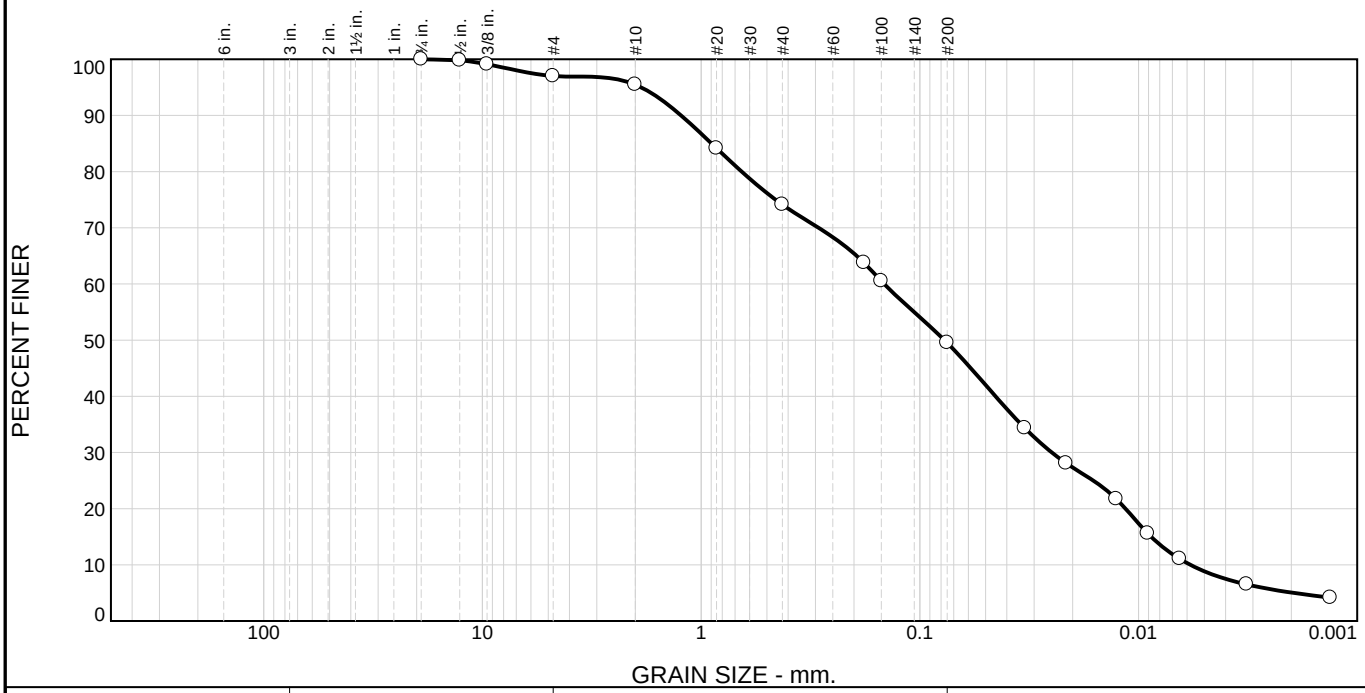
Date Received: 08-22-08 **Date Tested:** 09-03-08
Tested By: Jim Corti
Checked By: Jim Corti
Title: Director of Testing

Location: Dry Dock 2
Sample Number: S-10
Date Sampled: 08-20-08

JOHN TURNER
Dover, NH

Client: Resource Laboratories
Project: 15079
Project No: 08-LTS-058-15079 **Report #:** 010

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.0	1.5	21.4	24.6	40.7	8.8

Test Results (ASTM D 422 & ASTM D 1140)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3/4	100.0		
1/2	99.8		
3/8	99.1		
#4	97.0		
#10	95.5		
#20	84.1		
#40	74.1		
#80	63.8		
#100	60.5		
#200	49.5		
0.0331 mm.	34.4		
0.0214 mm.	28.1		
0.0126 mm.	21.7		
0.0091 mm.	15.6		
0.0065 mm.	11.1		
0.0032 mm.	6.5		
0.0013 mm.	4.2		

* (no specification provided)

Material Description

FINE-MEDIUM SAND & SILT, trace clay, trace gravel

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= 1.2352 D_{85}= 0.8963 D_{60}= 0.1455
D_{50}= 0.0771 D_{30}= 0.0249 D_{15}= 0.0088
D_{10}= 0.0058 C_u= 25.15 C_c= 0.74

Remarks

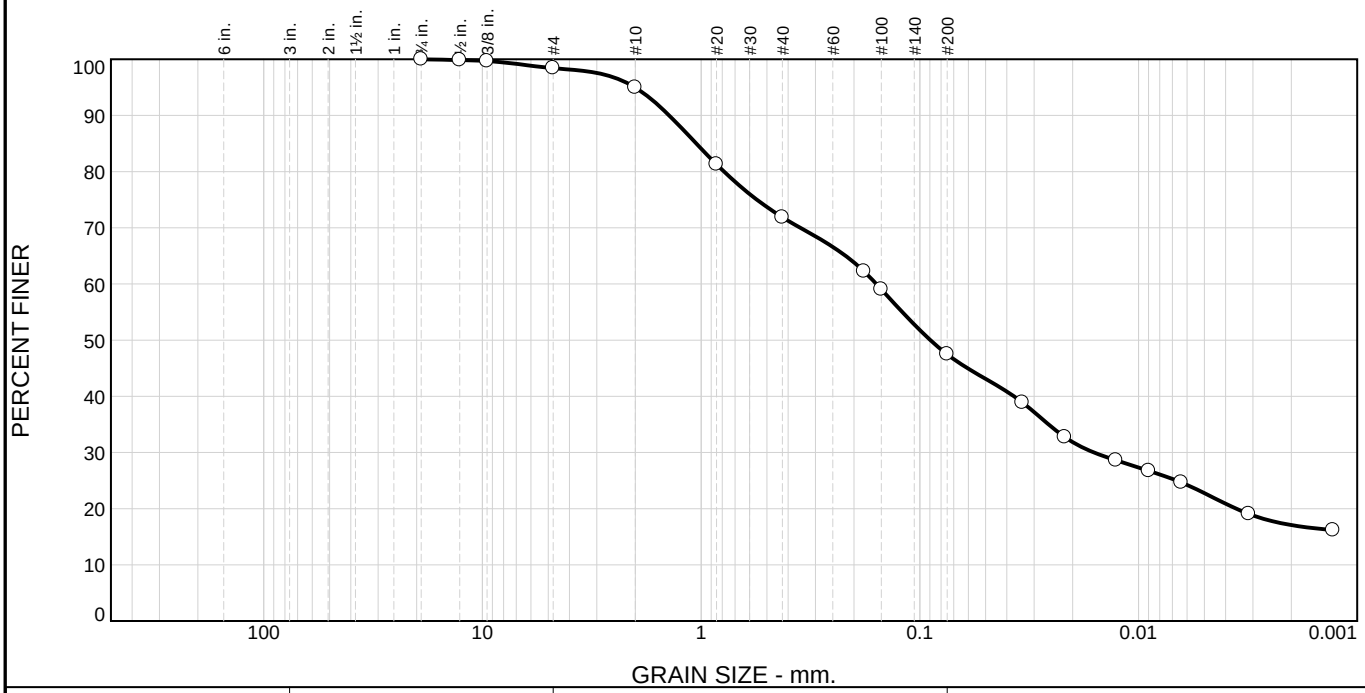
Date Received: 08-22-08 **Date Tested:** 09-03-08
Tested By: Gary Darrow
Checked By: Jim Corti
Title: Director of Testing

Location: Dry Dock 2
Sample Number: S-11
Date Sampled: 08-20-08

JOHN TURNER
Dover, NH

Client: Resource Laboratories
Project: 15079
Project No: 08-LTS-058-15079 **Report #:** 011

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.6	3.4	23.1	24.4	24.7	22.8

Test Results (ASTM D 422 & ASTM D 1140)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3/4	100.0		
1/2	99.9		
3/8	99.7		
#4	98.4		
#10	95.0		
#20	81.3		
#40	71.9		
#80	62.2		
#100	59.0		
#200	47.5		
0.0339 mm.	38.9		
0.0217 mm.	32.7		
0.0127 mm.	28.6		
0.0090 mm.	26.7		
0.0064 mm.	24.7		
0.0031 mm.	19.1		
0.0013 mm.	16.2		

* (no specification provided)

Material Description

FINE-MEDIUM SAND, some silt, some clay, trace gravel

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= 1.4001 D_{85}= 1.0520 D_{60}= 0.1582
D_{50}= 0.0894 D_{30}= 0.0160 D_{15}=
D_{10}= C_u= C_c=

Remarks

Date Received: 08-22-08 **Date Tested:** 09-03-08
Tested By: Gary Darrow
Checked By: Jim Corti
Title: Director of Testing

Location: Dry Dock 2
Sample Number: S-12
Date Sampled: 08-20-08

JOHN TURNER
Dover, NH

Client: Resource Laboratories
Project: 15079
Project No: 08-LTS-058-15079 **Report #:** 012

RL Resource Laboratories, LLC

Laboratory Report

Bob Snover
Appledore Engineering, Inc.
15 Rye St. Suite 305
Portsmouth, NH 03801

PO Number: None
LabID: 15079
Date Received: 8/20/08

Project: PNSY Dredging Project

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

Susan Sylvester
Principal, General Manager

10-1-08
Date

Total number of pages _____

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

124 Heritage Avenue #10 Portsmouth NH 03801
Voice: 603-436-2001 Fax: 603-430-2100
www.reslabs.com

Lab Number:	15079-01
Sample Designation:	Dry Dock 1 S-1
Date Sampled:	8/19/08
Date Prepared:	8/21/08
Date Analyzed:	8/22/08
Matrix:	Solid
Instrument Dilution Factor:	1
Analyst:	LMM
Percent Solids:	32.0%

TCLP VOLATILE ORGANICS

SW 846 Method 8260B

	Concentration ug/g	Quantitation Limit ug/g	Maximum Possible TCLP value ug/L	Regulatory TCLP Limit ug/L
TCLP 1,2-dichloroethane	U	0.4	20	500
TCLP 1,1-dichloroethene	U	0.4	20	700
TCLP 1,4-dichlorobenzene	U	0.4	20	7,500
TCLP benzene	U	0.4	20	500
TCLP carbon tetrachloride	U	0.4	20	500
TCLP chlorobenzene	U	0.4	20	100,000
TCLP chloroform	U	2	100	6,000
TCLP 2-butanone (MEK)	U	10	500	200,000
TCLP tetrachloroethene	U	0.4	20	700
TCLP trichloroethene	U	1	50	500
TCLP vinyl chloride	U	0.4	20	200

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
dibromofluoromethane	98	78-114
toluene-D8	99	88-110
4-bromofluorobenzene	102	86-115

U = Below quantitation limit

Lab Number:	15079-04
Sample Designation:	Dry Dock 3 S-4
Date Sampled:	8/20/08
Date Prepared:	8/21/08
Date Analyzed:	8/22/08
Matrix:	Solid
Instrument Dilution Factor:	1
Analyst:	LMM
Percent Solids:	38.4%

TCLP VOLATILE ORGANICS

SW 846 Method 8260B

	Concentration ug/g	Quantitation Limit ug/g	Maximum Possible TCLP value ug/L	Regulatory TCLP Limit ug/L
TCLP 1,2-dichloroethane	U	0.3	15	500
TCLP 1,1-dichloroethene	U	0.3	15	700
TCLP 1,4-dichlorobenzene	U	0.3	15	7,500
TCLP benzene	U	0.3	15	500
TCLP carbon tetrachloride	U	0.3	15	500
TCLP chlorobenzene	U	0.3	15	100,000
TCLP chloroform	U	2	100	6,000
TCLP 2-butanone (MEK)	U	9	450	200,000
TCLP tetrachloroethene	U	0.3	15	700
TCLP trichloroethene	U	0.9	45	500
TCLP vinyl chloride	U	0.3	15	200

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
dibromofluoromethane	93	78-114
toluene-D8	100	88-110
4-bromofluorobenzene	98	86-115

U = Below quantitation limit

Lab Number:	15079-07
Sample Designation:	Dry Dock 2 S-7 (top)
Date Sampled:	8/20/08
Date Prepared:	8/21/08
Date Analyzed:	8/23/08
Matrix:	Solid
Instrument Dilution Factor:	1
Analyst:	LMM
Percent Solids:	51.1%

TCLP VOLATILE ORGANICS

SW 846 Method 8260B

	Concentration ug/g	Quantitation Limit ug/g	Maximum Possible TCLP value ug/L	Regulatory TCLP Limit ug/L
TCLP 1,2-dichloroethane	U	0.2	10	500
TCLP 1,1-dichloroethene	U	0.2	10	700
TCLP 1,4-dichlorobenzene	U	0.2	10	7,500
TCLP benzene	U	0.2	10	500
TCLP carbon tetrachloride	U	0.2	10	500
TCLP chlorobenzene	U	0.2	10	100,000
TCLP chloroform	U	1	50	6,000
TCLP 2-butanone (MEK)	U	6	300	200,000
TCLP tetrachloroethene	U	0.2	10	700
TCLP trichloroethene	U	0.6	30	500
TCLP vinyl chloride	U	0.2	10	200

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
dibromofluoromethane	91	78-114
toluene-D8	99	88-110
4-bromofluorobenzene	100	86-115

U = Below quantitation limit

Lab Number:	15079-09
Sample Designation:	Dry Dock 2 S-9 (mid)
Date Sampled:	8/20/08
Date Prepared:	8/21/08
Date Analyzed:	8/23/08
Matrix:	Solid
Instrument Dilution Factor:	1
Analyst:	LMM
Percent Solids:	59.5%

TCLP VOLATILE ORGANICS

SW 846 Method 8260B

	Concentration ug/g	Quantitation Limit ug/g	Maximum Possible TCLP value ug/L	Regulatory TCLP Limit ug/L
TCLP 1,2-dichloroethane	U	0.2	10	500
TCLP 1,1-dichloroethene	U	0.2	10	700
TCLP 1,4-dichlorobenzene	U	0.2	10	7,500
TCLP benzene	U	0.2	10	500
TCLP carbon tetrachloride	U	0.2	10	500
TCLP chlorobenzene	U	0.2	10	100,000
TCLP chloroform	U	0.9	45	6,000
TCLP 2-butanone (MEK)	U	4	200	200,000
TCLP tetrachloroethene	U	0.2	10	700
TCLP trichloroethene	U	0.4	20	500
TCLP vinyl chloride	U	0.2	10	200

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
dibromofluoromethane	93	78-114
toluene-D8	103	88-110
4-bromofluorobenzene	101	86-115

U = Below quantitation limit

Lab Number:	15079-10
Sample Designation:	Dry Dock 2 S-10 (top)
Date Sampled:	8/20/08
Date Prepared:	8/21/08
Date Analyzed:	8/23/08
Matrix:	Solid
Instrument Dilution Factor:	1
Analyst:	LMM
Percent Solids:	45.7%

TCLP VOLATILE ORGANICS

SW 846 Method 8260B

	Concentration ug/g	Quantitation Limit ug/g	Maximum Possible TCLP value ug/L	Regulatory TCLP Limit ug/L
TCLP 1,2-dichloroethane	U	0.3	15	500
TCLP 1,1-dichloroethene	U	0.3	15	700
TCLP 1,4-dichlorobenzene	U	0.3	15	7,500
TCLP benzene	U	0.3	15	500
TCLP carbon tetrachloride	U	0.3	15	500
TCLP chlorobenzene	U	0.3	15	100,000
TCLP chloroform	U	1	50	6,000
TCLP 2-butanone (MEK)	U	7	350	200,000
TCLP tetrachloroethene	U	0.3	15	700
TCLP trichloroethene	U	0.7	35	500
TCLP vinyl chloride	U	0.3	15	200

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
dibromofluoromethane	93	78-114
toluene-D8	103	88-110
4-bromofluorobenzene	96	86-115

U = Below quantitation limit

Lab Number:	15079-11
Sample Designation:	Dry Dock 2 S-11 (bot)
Date Sampled:	8/20/08
Date Prepared:	8/21/08
Date Analyzed:	8/23/08
Matrix:	Solid
Instrument Dilution Factor:	1
Analyst:	LMM
Percent Solids:	38.3%

TCLP VOLATILE ORGANICS

SW 846 Method 8260B

	Concentration ug/g	Quantitation Limit ug/g	Maximum Possible TCLP value ug/L	Regulatory TCLP Limit ug/L
TCLP 1,2-dichloroethane	U	0.4	20	500
TCLP 1,1-dichloroethene	U	0.4	20	700
TCLP 1,4-dichlorobenzene	U	0.4	20	7,500
TCLP benzene	U	0.4	20	500
TCLP carbon tetrachloride	U	0.4	20	500
TCLP chlorobenzene	U	0.4	20	100,000
TCLP chloroform	U	2	100	6,000
TCLP 2-butanone (MEK)	U	10	500	200,000
TCLP tetrachloroethene	U	0.4	20	700
TCLP trichloroethene	U	1	50	500
TCLP vinyl chloride	U	0.4	20	200

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
dibromofluoromethane	91	78-114
toluene-D8	102	88-110
4-bromofluorobenzene	97	86-115

U = Below quantitation limit

Lab Number:	15079-01
Sample Designation:	Dry Dock 1 S-1
Date Sampled:	8/19/08
Date Extracted:	8/28/08
Date Analyzed:	9/3/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS

SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP pyridine	U	10	5,000
TCLP 1,4-dichlorobenzene	U	10	7,500
TCLP 2-methylphenol & 3-methylphenol	U	20	400,000
TCLP hexachloroethane	U	10	3,000
TCLP 4-methylphenol	U	10	200,000
TCLP nitrobenzene	U	10	2,000
TCLP hexachloro-1,3-butadiene	U	10	500
TCLP 2,4,6-trichlorophenol	U	10	2,000
TCLP 2,4,5-trichlorophenol	U	10	400,000
TCLP 2,4-dinitrotoluene	U	10	130
TCLP hexachlorobenzene	U	10	130
TCLP pentachlorophenol	U	60	100,000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	49	21-100	nitrobenzene D5	67	35-114
phenol D5	36	10-102	2-fluorobiphenyl	59	43-116
2,4,6-tribromophenol	61	10-123	terphenyl D14	79	33-141

U = Below quantitation limit

Lab Number:	15079-04
Sample Designation:	Dry Dock 3 S-4
Date Sampled:	8/20/08
Date Extracted:	8/28/08
Date Analyzed:	9/3/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS
SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP pyridine	U	10	5,000
TCLP 1,4-dichlorobenzene	U	10	7,500
TCLP 2-methylphenol & 3-methylphenol	U	20	400,000
TCLP hexachloroethane	U	10	3,000
TCLP 4-methylphenol	U	10	200,000
TCLP nitrobenzene	U	10	2,000
TCLP hexachloro-1,3-butadiene	U	10	500
TCLP 2,4,6-trichlorophenol	U	10	2,000
TCLP 2,4,5-trichlorophenol	U	10	400,000
TCLP 2,4-dinitrotoluene	U	10	130
TCLP hexachlorobenzene	U	10	130
TCLP pentachlorophenol	U	60	100,000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	57	21-100	nitrobenzene D5	72	35-114
phenol D5	42	10-102	2-fluorobiphenyl	63	43-116
2,4,6-tribromophenol	75	10-123	terphenyl D14	85	33-141

U = Below quantitation limit

Lab Number:	15079-07
Sample Designation:	Dry Dock 2 TOP S-7
Date Sampled:	8/20/08
Date Extracted:	8/28/08
Date Analyzed:	9/4/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS
SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP pyridine	U	10	5,000
TCLP 1,4-dichlorobenzene	U	10	7,500
TCLP 2-methylphenol & 3-methylphenol	U	20	400,000
TCLP hexachloroethane	U	10	3,000
TCLP 4-methylphenol	U	10	200,000
TCLP nitrobenzene	U	10	2,000
TCLP hexachloro-1,3-butadiene	U	10	500
TCLP 2,4,6-trichlorophenol	U	10	2,000
TCLP 2,4,5-trichlorophenol	U	10	400,000
TCLP 2,4-dinitrotoluene	U	10	130
TCLP hexachlorobenzene	U	10	130
TCLP pentachlorophenol	U	60	100,000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	54	21-100	nitrobenzene D5	69	35-114
phenol D5	40	10-102	2-fluorobiphenyl	61	43-116
2,4,6-tribromophenol	68	10-123	terphenyl D14	78	33-141

U = Below quantitation limit

Lab Number:	15079-09
Sample Designation:	Dry Dock 2 MID S-9
Date Sampled:	8/20/08
Date Extracted:	8/28/08
Date Analyzed:	9/4/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS
SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP pyridine	U	10	5,000
TCLP 1,4-dichlorobenzene	U	10	7,500
TCLP 2-methylphenol & 3-methylphenol	U	20	400,000
TCLP hexachloroethane	U	10	3,000
TCLP 4-methylphenol	U	10	200,000
TCLP nitrobenzene	U	10	2,000
TCLP hexachloro-1,3-butadiene	U	10	500
TCLP 2,4,6-trichlorophenol	U	10	2,000
TCLP 2,4,5-trichlorophenol	U	10	400,000
TCLP 2,4-dinitrotoluene	U	10	130
TCLP hexachlorobenzene	U	10	130
TCLP pentachlorophenol	U	60	100,000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	55	21-100	nitrobenzene D5	69	35-114
phenol D5	43	10-102	2-fluorobiphenyl	60	43-116
2,4,6-tribromophenol	71	10-123	terphenyl D14	79	33-141

U = Below quantitation limit

Lab Number:	15079-10
Sample Designation:	Dry Dock 2 TOP S-10
Date Sampled:	8/20/08
Date Extracted:	8/28/08
Date Analyzed:	9/4/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS
SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP pyridine	U	10	5,000
TCLP 1,4-dichlorobenzene	U	10	7,500
TCLP 2-methylphenol & 3-methylphenol	U	20	400,000
TCLP hexachloroethane	U	10	3,000
TCLP 4-methylphenol	U	10	200,000
TCLP nitrobenzene	U	10	2,000
TCLP hexachloro-1,3-butadiene	U	10	500
TCLP 2,4,6-trichlorophenol	U	10	2,000
TCLP 2,4,5-trichlorophenol	U	10	400,000
TCLP 2,4-dinitrotoluene	U	10	130
TCLP hexachlorobenzene	U	10	130
TCLP pentachlorophenol	U	60	100,000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	47	21-100	nitrobenzene D5	66	35-114
phenol D5	36	10-102	2-fluorobiphenyl	58	43-116
2,4,6-tribromophenol	61	10-123	terphenyl D14	74	33-141

U = Below quantitation limit

Lab Number:	15079-11
Sample Designation:	Dry Dock 2 BOT S-11
Date Sampled:	8/20/08
Date Extracted:	8/28/08
Date Analyzed:	9/4/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS
SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP pyridine	U	10	5,000
TCLP 1,4-dichlorobenzene	U	10	7,500
TCLP 2-methylphenol & 3-methylphenol	U	20	400,000
TCLP hexachloroethane	U	10	3,000
TCLP 4-methylphenol	U	10	200,000
TCLP nitrobenzene	U	10	2,000
TCLP hexachloro-1,3-butadiene	U	10	500
TCLP 2,4,6-trichlorophenol	U	10	2,000
TCLP 2,4,5-trichlorophenol	U	10	400,000
TCLP 2,4-dinitrotoluene	U	10	130
TCLP hexachlorobenzene	U	10	130
TCLP pentachlorophenol	U	60	100,000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	53	21-100	nitrobenzene D5	75	35-114
phenol D5	39	10-102	2-fluorobiphenyl	66	43-116
2,4,6-tribromophenol	68	10-123	terphenyl D14	90	33-141

U = Below quantitation limit

METALS RESULTS

Lab Number: 15079-01
Sample ID: Dry Dock 1 S-1
Date Sampled: 8/19/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Arsenic	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Barium	< 0.5	0.5	8/26/08	100	10	BJS	SW 1311/3005A/6010B
TCLP Cadmium	< 0.05	0.05	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Chromium	< 0.5	0.5	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Selenium	< 0.5	0.5	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Silver	< 0.07	0.07	8/26/08	5	10	BJS	SW 1311/3005A/6010B
Total Mercury	0.08 ug/g	0.05 ug/g	8/25/08	4 ug/g	1	BJS	SW 7470A

Lab Number: 15079-04
Sample ID: Dry Dock 3 S-4
Date Sampled: 8/19/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Arsenic	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Barium	< 0.5	0.5	8/26/08	100	10	BJS	SW 1311/3005A/6010B
TCLP Cadmium	< 0.05	0.05	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Chromium	< 0.5	0.5	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Selenium	< 0.5	0.5	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Silver	< 0.07	0.07	8/26/08	5	10	BJS	SW 1311/3005A/6010B
Total Mercury	0.10 ug/g	0.04 ug/g	8/25/08	4 ug/g	1	BJS	SW 7470A

Lab Number: 15079-07
Sample ID: Dry Dock 2 TOP S-7
Date Sampled: 8/20/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Arsenic	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Barium	< 0.5	0.5	8/26/08	100	10	BJS	SW 1311/3005A/6010B
TCLP Cadmium	< 0.05	0.05	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Chromium	< 0.5	0.5	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Selenium	< 0.5	0.5	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Silver	< 0.07	0.07	8/26/08	5	10	BJS	SW 1311/3005A/6010B
Total Mercury	0.56 ug/g	0.03 ug/g	8/25/08	4 ug/g	1	BJS	SW 7470A

Total mercury analysis values were below those which could possibly exceed TCLP regulatory limits.
As per Federal Register, Vol.55, No.61, June 29,1990, TCLP extraction for mercury not necessary.

METALS RESULTS

Lab Number: 15079-09
Sample ID: Dry Dock 2 MID S-9
Date Sampled: 8/20/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Arsenic	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Barium	0.6	0.5	8/26/08	100	10	BJS	SW 1311/3005A/6010B
TCLP Cadmium	< 0.05	0.05	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Chromium	< 0.5	0.5	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Selenium	< 0.5	0.5	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Silver	< 0.07	0.07	8/26/08	5	10	BJS	SW 1311/3005A/6010B
Total Mercury	0.98 ug/g	0.03 ug/g	8/25/08	4 ug/g	1	BJS	SW 7470A

Lab Number: 15079-10
Sample ID: Dry Dock 2 TOP S-10
Date Sampled: 8/20/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Arsenic	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Barium	< 0.5	0.5	8/26/08	100	10	BJS	SW 1311/3005A/6010B
TCLP Cadmium	< 0.05	0.05	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Chromium	< 0.5	0.5	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Selenium	< 0.5	0.5	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Silver	< 0.07	0.07	8/26/08	5	10	BJS	SW 1311/3005A/6010B
Total Mercury	0.19 ug/g	0.04 ug/g	8/25/08	4 ug/g	1	BJS	SW 7470A

Lab Number: 15079-11
Sample ID: Dry Dock 2 BOT S-11
Date Sampled: 8/20/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Arsenic	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Barium	< 0.5	0.5	8/26/08	100	10	BJS	SW 1311/3005A/6010B
TCLP Cadmium	< 0.05	0.05	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Chromium	< 0.5	0.5	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Selenium	< 0.5	0.5	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Silver	< 0.07	0.07	8/26/08	5	10	BJS	SW 1311/3005A/6010B
Total Mercury	0.08 ug/g	0.04 ug/g	8/25/08	4 ug/g	1	BJS	SW 7470A

Total mercury analysis values were below those which could possibly exceed TCLP regulatory limits.
As per Federal Register, Vol.55, No.61, June 29,1990, TCLP extraction for mercury not necessary.

Lab Number:	15079-01
Sample Designation:	Dry Dock 1 S-1
Date Sampled:	8/19/08
Date Extracted:	8/27/08
Date Analyzed:	9/17/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	JLZ

TCLP ORGANOCHLORINE PESTICIDES

SW 846 Method 3510C/8081B.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP gamma-BHC (Lindane)	U	5	400
TCLP Heptachlor	U	5	8
TCLP Endrin	U	5	20
TCLP Methoxychlor	U	5	10000
TCLP alpha-Chlordane	U	5	30
TCLP gamma-Chlordane	U	5	30
TCLP Toxaphene	U	20	500

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	68	30-150
Decachlorobiphenyl	96	30-150

U = Below quantitation limit

Lab Number:	15079-04
Sample Designation:	Dry Dock 3 S-4
Date Sampled:	8/20/08
Date Extracted:	8/27/08
Date Analyzed:	9/17/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	JLZ

TCLP ORGANOCHLORINE PESTICIDES

SW 846 Method 3510C/8081B.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP gamma-BHC (Lindane)	U	5	400
TCLP Heptachlor	U	5	8
TCLP Endrin	U	5	20
TCLP Methoxychlor	U	5	10000
TCLP alpha-Chlordane	U	5	30
TCLP gamma-Chlordane	U	5	30
TCLP Toxaphene	U	20	500

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	74	30-150
Decachlorobiphenyl	99	30-150

U = Below quantitation limit

Lab Number:	15079-07
Sample Designation:	Dry Dock 2 TOP S-7
Date Sampled:	8/20/08
Date Extracted:	8/27/08
Date Analyzed:	9/17/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	JLZ

TCLP ORGANOCHLORINE PESTICIDES

SW 846 Method 3510C/8081B.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP gamma-BHC (Lindane)	U	6	400
TCLP Heptachlor	U	6	8
TCLP Endrin	U	6	20
TCLP Methoxychlor	U	6	10000
TCLP alpha-Chlordane	U	6	30
TCLP gamma-Chlordane	U	6	30
TCLP Toxaphene	U	20	500

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	73	30-150
Decachlorobiphenyl	98	30-150

U = Below quantitation limit

Lab Number:	15079-09
Sample Designation:	Dry Dock 2 MID S-9
Date Sampled:	8/20/08
Date Extracted:	8/27/08
Date Analyzed:	9/17/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	JLZ

TCLP ORGANOCHLORINE PESTICIDES

SW 846 Method 3510C/8081B.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP gamma-BHC (Lindane)	U	5	400
TCLP Heptachlor	U	5	8
TCLP Endrin	U	5	20
TCLP Methoxychlor	U	5	10000
TCLP alpha-Chlordane	U	5	30
TCLP gamma-Chlordane	U	5	30
TCLP Toxaphene	U	20	500

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	80	30-150
Decachlorobiphenyl	109	30-150

U = Below quantitation limit

Lab Number:	15079-10
Sample Designation:	Dry Dock 2 TOP S-10
Date Sampled:	8/20/08
Date Extracted:	8/27/08
Date Analyzed:	9/17/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	JLZ

TCLP ORGANOCHLORINE PESTICIDES

SW 846 Method 3510C/8081B.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP gamma-BHC (Lindane)	U	5	400
TCLP Heptachlor	U	5	8
TCLP Endrin	U	5	20
TCLP Methoxychlor	U	5	10000
TCLP alpha-Chlordane	U	5	30
TCLP gamma-Chlordane	U	5	30
TCLP Toxaphene	U	20	500

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	87	30-150
Decachlorobiphenyl	117	30-150

U = Below quantitation limit

Lab Number:	15079-11
Sample Designation:	Dry Dock 2 BOT S-11
Date Sampled:	8/20/08
Date Extracted:	8/27/08
Date Analyzed:	9/17/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	JLZ

TCLP ORGANOCHLORINE PESTICIDES

SW 846 Method 3510C/8081B.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP gamma-BHC (Lindane)	U	5	400
TCLP Heptachlor	U	5	8
TCLP Endrin	U	5	20
TCLP Methoxychlor	U	5	10000
TCLP alpha-Chlordane	U	5	30
TCLP gamma-Chlordane	U	5	30
TCLP Toxaphene	U	20	500

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	88	30-150
Decachlorobiphenyl	110	30-150

U = Below quantitation limit

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-001
Sample ID: Dry Dock 1 S-1
Matrix: Solid Percent Dry: 32 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 11:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
chloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
vinyl chloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
bromomethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
chloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
trichlorofluoromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
diethyl ether	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
acetone	< 11	11	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
methylene chloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
carbon disulfide	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
trans-1,2-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
isopropyl ether (DIPE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1-dichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
t-butanol (TBA)	< 11	11	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
2-butanone (MEK)	< 1.3	1.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
2,2-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
cis-1,2-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
chloroform	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
bromochloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
tetrahydrofuran (THF)	< 2.2	2.2	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1,1-trichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
carbon tetrachloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2-dichloroethane	< 0.11	0.11	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
benzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
trichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
bromodichloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,4-dioxane	< 2.2	2.2	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
dibromomethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 2.0	2.0	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
cis-1,3-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
toluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
trans-1,3-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
2-hexanone	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1,2-trichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,3-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
tetrachloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
dibromochloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-001
Sample ID: Dry Dock 1 S-1
Matrix: Solid Percent Dry: 32 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 11:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
ethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
m&p-xylenes	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
o-xylene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
styrene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
bromoform	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
isopropylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2,3-trichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
n-propylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
bromobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,3,5-trimethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
2-chlorotoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
4-chlorotoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
tert-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2,4-trimethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
sec-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,3-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
4-isopropyltoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,4-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
n-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2,4-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,3,5-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
hexachlorobutadiene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
naphthalene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2,3-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
toluene-D8 SUR	99	88-110	%	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
4-bromofluorobenzene SUR	102	86-115	%	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
a,a,a-trifluorotoluene SUR	103	70-130	%	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-002
Sample ID: Dry Dock 1 S-2
Matrix: Solid Percent Dry: 40.6 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 12:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
chloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
vinyl chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
bromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
chloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
trichlorofluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
diethyl ether	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
acetone	< 8	8	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
methylene chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
carbon disulfide	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
trans-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
isopropyl ether (DIPE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1-dichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
t-butanol (TBA)	< 8	8	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
2-butanone (MEK)	< 1.0	1.0	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
2,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
cis-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
chloroform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
bromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
tetrahydrofuran (THF)	< 1.6	1.6	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1,1-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
carbon tetrachloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2-dichloroethane	< 0.08	0.08	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
benzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
trichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
bromodichloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,4-dioxane	< 1.6	1.6	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
dibromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.4	1.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
cis-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
toluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
trans-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
2-hexanone	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1,2-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,3-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
tetrachloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
dibromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-002
Sample ID: Dry Dock 1 S-2
Matrix: Solid Percent Dry: 40.6 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 12:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
chlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
ethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
m&p-xylenes	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
o-xylene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
styrene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
bromoform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
isopropylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2,3-trichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
n-propylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
bromobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,3,5-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
2-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
4-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
tert-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2,4-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
sec-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,3-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
4-isopropyltoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,4-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
n-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2,4-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,3,5-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
hexachlorobutadiene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
naphthalene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2,3-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	94	78-114	%	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
toluene-D8 SUR	98	88-110	%	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
4-bromofluorobenzene SUR	104	86-115	%	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
a,a,a-trifluorotoluene SUR	99	70-130	%	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-003
Sample ID: Dry Dock 1 S-3
Matrix: Solid Percent Dry: 37.2 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 13:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
chloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
vinyl chloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
bromomethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
chloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
trichlorofluoromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
diethyl ether	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
acetone	< 9	9	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
methylene chloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
carbon disulfide	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
trans-1,2-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
isopropyl ether (DIPE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1-dichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
t-butanol (TBA)	< 9	9	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
2-butanone (MEK)	< 1.1	1.1	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
2,2-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
cis-1,2-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
chloroform	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
bromochloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
tetrahydrofuran (THF)	< 1.9	1.9	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1,1-trichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
carbon tetrachloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2-dichloroethane	< 0.09	0.09	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
benzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
trichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
bromodichloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,4-dioxane	< 1.9	1.9	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
dibromomethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.7	1.7	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
cis-1,3-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
toluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
trans-1,3-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
2-hexanone	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1,2-trichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,3-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
tetrachloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
dibromochloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-003
Sample ID: Dry Dock 1 S-3
Matrix: Solid Percent Dry: 37.2 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 13:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
ethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
m&p-xylenes	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
o-xylene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
styrene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
bromoform	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
isopropylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2,3-trichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
n-propylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
bromobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,3,5-trimethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
2-chlorotoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
4-chlorotoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
tert-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2,4-trimethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
sec-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,3-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
4-isopropyltoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,4-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
n-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2,4-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,3,5-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
hexachlorobutadiene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
naphthalene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2,3-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	95	78-114	%	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
toluene-D8 SUR	98	88-110	%	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
4-bromofluorobenzene SUR	103	86-115	%	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
a,a,a-trifluorotoluene SUR	100	70-130	%	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-004
Sample ID: Dry Dock 3 S-4
Matrix: Solid Percent Dry: 38.4 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 7:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
chloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
vinyl chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
bromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
chloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
trichlorofluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
diethyl ether	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
acetone	< 9	9	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
methylene chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
carbon disulfide	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
trans-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
isopropyl ether (DIPE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1-dichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
t-butanol (TBA)	< 9	9	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
2-butanone (MEK)	< 1.0	1.0	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
2,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
cis-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
chloroform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
bromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
tetrahydrofuran (THF)	< 1.7	1.7	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1,1-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
carbon tetrachloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2-dichloroethane	< 0.09	0.09	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
benzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
trichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
bromodichloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,4-dioxane	< 1.7	1.7	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
dibromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.5	1.5	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
cis-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
toluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
trans-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
2-hexanone	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1,2-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,3-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
tetrachloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
dibromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-004
Sample ID: Dry Dock 3 S-4
Matrix: Solid Percent Dry: 38.4 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 7:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
ethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
m&p-xylenes	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
o-xylene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
styrene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
bromoform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
isopropylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2,3-trichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
n-propylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
bromobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,3,5-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
2-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
4-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
tert-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2,4-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
sec-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,3-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
4-isopropyltoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,4-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
n-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2,4-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,3,5-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
hexachlorobutadiene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
naphthalene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2,3-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	93	78-114	%	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
toluene-D8 SUR	100	88-110	%	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
4-bromofluorobenzene SUR	98	86-115	%	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
a,a,a-trifluorotoluene SUR	106	70-130	%	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-005
Sample ID: Dry Dock 3 S-5
Matrix: Solid Percent Dry: 28 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
chloromethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
vinyl chloride	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
bromomethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
chloroethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
trichlorofluoromethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
diethyl ether	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
acetone	< 15	15	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1-dichloroethene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
methylene chloride	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
carbon disulfide	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
trans-1,2-dichloroethene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
isopropyl ether (DIPE)	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1-dichloroethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
t-butanol (TBA)	< 15	15	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
2-butanone (MEK)	< 1.8	1.8	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
2,2-dichloropropane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
cis-1,2-dichloroethene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
chloroform	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
bromochloromethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
tetrahydrofuran (THF)	< 3.0	3.0	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1,1-trichloroethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1-dichloropropene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
carbon tetrachloride	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2-dichloroethane	< 0.15	0.15	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
benzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
trichloroethene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2-dichloropropane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
bromodichloromethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,4-dioxane	< 3.0	3.0	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
dibromomethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 2.7	2.7	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
cis-1,3-dichloropropene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
toluene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
trans-1,3-dichloropropene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
2-hexanone	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1,2-trichloroethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,3-dichloropropane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
tetrachloroethene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
dibromochloromethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-005
Sample ID: Dry Dock 3 S-5
Matrix: Solid Percent Dry: 28 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
ethylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
m&p-xylenes	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
o-xylene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
styrene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
bromoform	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
isopropylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2,3-trichloropropane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
n-propylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
bromobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,3,5-trimethylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
2-chlorotoluene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
4-chlorotoluene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
tert-butylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2,4-trimethylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
sec-butylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,3-dichlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
4-isopropyltoluene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,4-dichlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2-dichlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
n-butylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2,4-trichlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,3,5-trichlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
hexachlorobutadiene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
naphthalene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2,3-trichlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	95	78-114	%	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
toluene-D8 SUR	104	88-110	%	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
4-bromofluorobenzene SUR	102	86-115	%	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
a,a,a-trifluorotoluene SUR	105	70-130	%	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-006
Sample ID: Dry Dock 3 S-6
Matrix: Solid Percent Dry: 29.6 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
chloromethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
vinyl chloride	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
bromomethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
chloroethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
trichlorofluoromethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
diethyl ether	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
acetone	< 13	13	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1-dichloroethene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
methylene chloride	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
carbon disulfide	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
trans-1,2-dichloroethene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
isopropyl ether (DIPE)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1-dichloroethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
t-butanol (TBA)	< 13	13	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
2-butanone (MEK)	< 1.5	1.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
2,2-dichloropropane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
cis-1,2-dichloroethene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
chloroform	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
bromochloromethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
tetrahydrofuran (THF)	< 2.6	2.6	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1,1-trichloroethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1-dichloropropene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
carbon tetrachloride	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2-dichloroethane	< 0.13	0.13	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
benzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
trichloroethene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2-dichloropropane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
bromodichloromethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,4-dioxane	< 2.6	2.6	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
dibromomethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 2.3	2.3	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
cis-1,3-dichloropropene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
toluene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
trans-1,3-dichloropropene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
2-hexanone	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1,2-trichloroethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,3-dichloropropane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
tetrachloroethene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
dibromochloromethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-006
Sample ID: Dry Dock 3 S-6
Matrix: Solid Percent Dry: 29.6 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
ethylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
m&p-xylenes	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
o-xylene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
styrene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
bromoform	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
isopropylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2,3-trichloropropane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
n-propylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
bromobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,3,5-trimethylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
2-chlorotoluene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
4-chlorotoluene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
tert-butylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2,4-trimethylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
sec-butylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,3-dichlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
4-isopropyltoluene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,4-dichlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2-dichlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
n-butylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2,4-trichlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,3,5-trichlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
hexachlorobutadiene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
naphthalene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2,3-trichlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	93	78-114	%	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
toluene-D8 SUR	100	88-110	%	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
4-bromofluorobenzene SUR	101	86-115	%	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
a,a,a-trifluorotoluene SUR	102	70-130	%	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-007
Sample ID: Dry Dock 2 S-7
Matrix: Solid Percent Dry: 51 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
chloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
vinyl chloride	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
bromomethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
chloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
trichlorofluoromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
diethyl ether	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
acetone	< 6	6	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1-dichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
methylene chloride	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
carbon disulfide	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
trans-1,2-dichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
isopropyl ether (DIPE)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1-dichloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
t-butanol (TBA)	< 6	6	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
2-butanone (MEK)	< 0.7	0.7	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
2,2-dichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
cis-1,2-dichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
chloroform	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
bromochloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
tetrahydrofuran (THF)	< 1.1	1.1	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1,1-trichloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1-dichloropropene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
carbon tetrachloride	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2-dichloroethane	< 0.06	0.06	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
benzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
trichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2-dichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
bromodichloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,4-dioxane	< 1.1	1.1	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
dibromomethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.0	1.0	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
cis-1,3-dichloropropene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
toluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
trans-1,3-dichloropropene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
2-hexanone	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1,2-trichloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,3-dichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
tetrachloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
dibromochloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-007
Sample ID: Dry Dock 2 S-7
Matrix: Solid Percent Dry: 51 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
ethylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
m&p-xylenes	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
o-xylene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
styrene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
bromoform	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
isopropylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2,3-trichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
n-propylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
bromobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,3,5-trimethylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
2-chlorotoluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
4-chlorotoluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
tert-butylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2,4-trimethylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
sec-butylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,3-dichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
4-isopropyltoluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,4-dichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2-dichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
n-butylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2,4-trichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,3,5-trichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
hexachlorobutadiene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
naphthalene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2,3-trichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	91	78-114	%	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
toluene-D8 SUR	99	88-110	%	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
4-bromofluorobenzene SUR	100	86-115	%	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
a,a,a-trifluorotoluene SUR	90	70-130	%	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-008
Sample ID: Dry Dock 2 S-8
Matrix: Solid Percent Dry: 47.1 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 12:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
chloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
vinyl chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
bromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
chloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
trichlorofluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
diethyl ether	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
acetone	< 6	6	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
methylene chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
carbon disulfide	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
trans-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
isopropyl ether (DIPE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1-dichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
t-butanol (TBA)	< 6	6	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
2-butanone (MEK)	< 0.8	0.8	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
2,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
cis-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
chloroform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
bromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
tetrahydrofuran (THF)	< 1.3	1.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1,1-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
carbon tetrachloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2-dichloroethane	< 0.06	0.06	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
benzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
trichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
bromodichloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,4-dioxane	< 1.3	1.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
dibromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.1	1.1	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
cis-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
toluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
trans-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
2-hexanone	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1,2-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,3-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
tetrachloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
dibromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-008
Sample ID: Dry Dock 2 S-8
Matrix: Solid Percent Dry: 47.1 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 12:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
ethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
m&p-xylenes	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
o-xylene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
styrene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
bromoform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
isopropylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2,3-trichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
n-propylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
bromobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,3,5-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
2-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
4-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
tert-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2,4-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
sec-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,3-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
4-isopropyltoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,4-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
n-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2,4-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,3,5-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
hexachlorobutadiene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
naphthalene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2,3-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	97	78-114	%	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
toluene-D8 SUR	102	88-110	%	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
4-bromofluorobenzene SUR	102	86-115	%	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
a,a,a-trifluorotoluene SUR	94	70-130	%	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-009
Sample ID: Dry Dock 2 S-9
Matrix: Solid Percent Dry: 59.5 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 11:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
chloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
vinyl chloride	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
bromomethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
chloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
trichlorofluoromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
diethyl ether	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
acetone	< 4	4	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1-dichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
methylene chloride	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
carbon disulfide	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
trans-1,2-dichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
isopropyl ether (DIPE)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1-dichloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
t-butanol (TBA)	< 4	4	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
2-butanone (MEK)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
2,2-dichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
cis-1,2-dichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
chloroform	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
bromochloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
tetrahydrofuran (THF)	< 0.9	0.9	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1,1-trichloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1-dichloropropene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
carbon tetrachloride	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2-dichloroethane	< 0.04	0.04	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
benzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
trichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2-dichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
bromodichloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,4-dioxane	< 0.9	0.9	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
dibromomethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 0.8	0.8	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
cis-1,3-dichloropropene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
toluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
trans-1,3-dichloropropene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
2-hexanone	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1,2-trichloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,3-dichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
tetrachloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
dibromochloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-009
Sample ID: Dry Dock 2 S-9
Matrix: Solid Percent Dry: 59.5 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 11:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
ethylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
m&p-xylenes	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
o-xylene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
styrene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
bromoform	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
isopropylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2,3-trichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
n-propylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
bromobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,3,5-trimethylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
2-chlorotoluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
4-chlorotoluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
tert-butylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2,4-trimethylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
sec-butylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,3-dichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
4-isopropyltoluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,4-dichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2-dichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
n-butylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2,4-trichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,3,5-trichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
hexachlorobutadiene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
naphthalene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2,3-trichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	93	78-114	%	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
toluene-D8 SUR	103	88-110	%	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
4-bromofluorobenzene SUR	101	86-115	%	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
a,a,a-trifluorotoluene SUR	105	70-130	%	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-010
Sample ID: Dry Dock 2 S-10
Matrix: Solid Percent Dry: 45.7 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
chloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
vinyl chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
bromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
chloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
trichlorofluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
diethyl ether	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
acetone	< 7	7	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
methylene chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
carbon disulfide	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
trans-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
isopropyl ether (DIPE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1-dichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
t-butanol (TBA)	< 7	7	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
2-butanone (MEK)	< 0.8	0.8	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
2,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
cis-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
chloroform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
bromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
tetrahydrofuran (THF)	< 1.3	1.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1,1-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
carbon tetrachloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2-dichloroethane	< 0.07	0.07	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
benzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
trichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
bromodichloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,4-dioxane	< 1.3	1.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
dibromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.2	1.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
cis-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
toluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
trans-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
2-hexanone	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1,2-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,3-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
tetrachloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
dibromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-010
Sample ID: Dry Dock 2 S-10
Matrix: Solid Percent Dry: 45.7 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
ethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
m&p-xylenes	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
o-xylene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
styrene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
bromoform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
isopropylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2,3-trichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
n-propylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
bromobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,3,5-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
2-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
4-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
tert-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2,4-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
sec-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,3-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
4-isopropyltoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,4-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
n-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2,4-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,3,5-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
hexachlorobutadiene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
naphthalene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2,3-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	93	78-114	%	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
toluene-D8 SUR	103	88-110	%	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
4-bromofluorobenzene SUR	96	86-115	%	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
a,a,a-trifluorotoluene SUR	90	70-130	%	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-011
Sample ID: Dry Dock 2 S-11
Matrix: Solid Percent Dry: 38.3 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
chloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
vinyl chloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
bromomethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
chloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
trichlorofluoromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
diethyl ether	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
acetone	< 10	10	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
methylene chloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
carbon disulfide	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
trans-1,2-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
isopropyl ether (DIPE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1-dichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
t-butanol (TBA)	< 10	10	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
2-butanone (MEK)	< 1.2	1.2	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
2,2-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
cis-1,2-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
chloroform	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
bromochloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
tetrahydrofuran (THF)	< 2.1	2.1	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1,1-trichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
carbon tetrachloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2-dichloroethane	< 0.10	0.10	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
benzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
trichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
bromodichloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,4-dioxane	< 2.1	2.1	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
dibromomethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.9	1.9	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
cis-1,3-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
toluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
trans-1,3-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
2-hexanone	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1,2-trichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,3-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
tetrachloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
dibromochloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-011
Sample ID: Dry Dock 2 S-11
Matrix: Solid Percent Dry: 38.3 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
ethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
m&p-xylenes	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
o-xylene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
styrene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
bromoform	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
isopropylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2,3-trichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
n-propylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
bromobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,3,5-trimethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
2-chlorotoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
4-chlorotoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
tert-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2,4-trimethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
sec-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,3-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
4-isopropyltoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,4-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
n-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2,4-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,3,5-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
hexachlorobutadiene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
naphthalene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2,3-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	91	78-114	%	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
toluene-D8 SUR	102	88-110	%	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
4-bromofluorobenzene SUR	97	86-115	%	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
a,a,a-trifluorotoluene SUR	103	70-130	%	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-012
Sample ID: Dry Dock 2 S-12
Matrix: Solid Percent Dry: 44.2 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
chloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
vinyl chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
bromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
chloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
trichlorofluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
diethyl ether	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
acetone	< 7	7	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
methylene chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
carbon disulfide	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
trans-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
isopropyl ether (DIPE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1-dichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
t-butanol (TBA)	< 7	7	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
2-butanone (MEK)	< 0.9	0.9	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
2,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
cis-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
chloroform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
bromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
tetrahydrofuran (THF)	< 1.4	1.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1,1-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
carbon tetrachloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2-dichloroethane	< 0.07	0.07	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
benzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
trichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
bromodichloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,4-dioxane	< 1.4	1.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
dibromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.3	1.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
cis-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
toluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
trans-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
2-hexanone	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1,2-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,3-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
tetrachloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
dibromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-012
Sample ID: Dry Dock 2 S-12
Matrix: Solid Percent Dry: 44.2 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
ethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
m&p-xylenes	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
o-xylene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
styrene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
bromoform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
isopropylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2,3-trichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
n-propylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
bromobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,3,5-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
2-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
4-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
tert-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2,4-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
sec-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,3-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
4-isopropyltoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,4-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
n-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2,4-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,3,5-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
hexachlorobutadiene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
naphthalene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2,3-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	94	78-114	%	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
toluene-D8 SUR	102	88-110	%	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
4-bromofluorobenzene SUR	99	86-115	%	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
a,a,a-trifluorotoluene SUR	98	70-130	%	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-013
Sample ID: Trip Blank
Matrix: Solid
Sampled: 8/20/08

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
chloromethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
bromomethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
chloroethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
diethyl ether	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
acetone	< 2	2	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
methylene chloride	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
t-butanol (TBA)	< 2	2	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
2-butanone (MEK)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
chloroform	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
tetrahydrofuran (THF)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2-dichloroethane	< 0.02	0.02	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
benzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
trichloroethene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,4-dioxane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
dibromomethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
toluene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
2-hexanone	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-013
Sample ID: Trip Blank
Matrix: Solid
Sampled: 8/20/08

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
o-xylene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
styrene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
bromoform	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
bromobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
naphthalene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	89	78-114	%	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
toluene-D8 SUR	98	88-110	%	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
4-bromofluorobenzene SUR	98	86-115	%	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
a,a,a-trifluorotoluene SUR	101	70-130	%	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-001
Sample ID: Dry Dock 1 S-1
Matrix: Solid Percent Dry: 32 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 11:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
2-methylnaphthalene	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
acenaphthylene	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
acenaphthene	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
dibenzofuran	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
fluorene	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
phenanthrene	**0.2**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
anthracene	**0.2**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
fluoranthene	**0.7**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
pyrene	**0.8**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
benzo(a)anthracene	**0.4**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
chrysene	**0.4**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
carbazole	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
benzo(b)fluoranthene	**0.4**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
benzo(k)fluoranthene	**0.3**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
benzo(a)pyrene	**0.4**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
indeno(1,2,3-cd)pyrene	**0.2**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
dibenzo(a,h)anthracene	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
benzo(g,h,i)perylene	**0.2**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	55	43-116	%	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
o-terphenyl SUR	64	33-141	%	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
PCB-1016	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
PCB-1221	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
PCB-1232	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
PCB-1242	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
PCB-1248	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
PCB-1254	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
PCB-1260	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	94	30-150	%	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
decachlorobiphenyl SUR	69	30-150	%	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-002
Sample ID: Dry Dock 1 S-2
Matrix: Solid Percent Dry: 40.6 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 12:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
2-methylnaphthalene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
acenaphthylene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
acenaphthene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
dibenzofuran	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
fluorene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
phenanthrene	**0.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
anthracene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
fluoranthene	**0.6**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
pyrene	**0.6**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
benzo(a)anthracene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
chrysene	**0.3**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
carbazole	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
benzo(b)fluoranthene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
benzo(k)fluoranthene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
benzo(a)pyrene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
dibenzo(a,h)anthracene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
benzo(g,h,i)perylene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	39 #	43-116	%	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
o-terphenyl SUR	47	33-141	%	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C

 # = This surrogate is below the acceptance criteria. Matrix interference is suspected.

PCB-1016	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
PCB-1221	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
PCB-1232	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
PCB-1242	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
PCB-1248	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
PCB-1254	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
PCB-1260	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	80	30-150	%	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
decachlorobiphenyl SUR	65	30-150	%	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-003
Sample ID: Dry Dock 1 S-3
Matrix: Solid Percent Dry: 37.2 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 13:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
2-methylnaphthalene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
acenaphthylene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
acenaphthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
dibenzofuran	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
fluorene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
phenanthrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
fluoranthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
benzo(a)anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
chrysene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
carbazole	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
benzo(b)fluoranthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
benzo(k)fluoranthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
benzo(a)pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
dibenzo(a,h)anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
benzo(g,h,i)perylene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	72	43-116	%	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
o-terphenyl SUR	77	33-141	%	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
PCB-1016	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
PCB-1221	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
PCB-1232	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
PCB-1242	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
PCB-1248	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
PCB-1254	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
PCB-1260	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	67	30-150	%	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
decachlorobiphenyl SUR	49	30-150	%	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-004
Sample ID: Dry Dock 3 S-4
Matrix: Solid Percent Dry: 38.4 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 7:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
2-methylnaphthalene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
acenaphthylene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
acenaphthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
dibenzofuran	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
fluorene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
phenanthrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
fluoranthene	**1.0**	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
pyrene	**1.1**	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
benzo(a)anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
chrysene	**0.6**	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
carbazole	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
benzo(b)fluoranthene	**0.6**	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
benzo(k)fluoranthene	**0.5**	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
benzo(a)pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
dibenzo(a,h)anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
benzo(g,h,i)perylene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	93	43-116	%	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
o-terphenyl SUR	94	33-141	%	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
PCB-1016	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
PCB-1221	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
PCB-1232	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
PCB-1242	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
PCB-1248	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
PCB-1254	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
PCB-1260	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	93	30-150	%	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
decachlorobiphenyl SUR	76	30-150	%	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-005
Sample ID: Dry Dock 3 S-5
Matrix: Solid Percent Dry: 28 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
2-methylnaphthalene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
acenaphthylene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
acenaphthene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
dibenzofuran	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
fluorene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
phenanthrene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
anthracene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
fluoranthene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
pyrene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
benzo(a)anthracene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
chrysene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
carbazole	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
benzo(b)fluoranthene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
benzo(k)fluoranthene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
benzo(a)pyrene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
dibenzo(a,h)anthracene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
benzo(g,h,i)perylene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	40 #	43-116	%	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
o-terphenyl SUR	48	33-141	%	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C

 # = This surrogate is below the acceptance criteria. Matrix interference is suspected.

PCB-1016	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
PCB-1221	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
PCB-1232	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
PCB-1242	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
PCB-1248	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
PCB-1254	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
PCB-1260	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	74	30-150	%	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
decachlorobiphenyl SUR	54	30-150	%	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-006
Sample ID: Dry Dock 3 S-6
Matrix: Solid Percent Dry: 29.6 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
2-methylnaphthalene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
acenaphthylene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
acenaphthene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
dibenzofuran	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
fluorene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
phenanthrene	**0.7**	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
anthracene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
fluoranthene	**0.9**	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
pyrene	**0.7**	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
benzo(a)anthracene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
chrysene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
carbazole	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
benzo(b)fluoranthene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
benzo(k)fluoranthene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
benzo(a)pyrene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
dibenzo(a,h)anthracene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
benzo(g,h,i)perylene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	50	43-116	%	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
o-terphenyl SUR	57	33-141	%	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
PCB-1016	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
PCB-1221	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
PCB-1232	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
PCB-1242	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
PCB-1248	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
PCB-1254	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
PCB-1260	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	74	30-150	%	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
decachlorobiphenyl SUR	55	30-150	%	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-007
Sample ID: Dry Dock 2 S-7
Matrix: Solid Percent Dry: 51 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
2-methylnaphthalene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
acenaphthylene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
acenaphthene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
dibenzofuran	**0.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
fluorene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
phenanthrene	**1.6**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
anthracene	**0.4**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
fluoranthene	**2.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
pyrene	**2.0**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
benzo(a)anthracene	**0.9**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
chrysene	**1.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
carbazole	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
benzo(b)fluoranthene	**0.6**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
benzo(k)fluoranthene	**0.7**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
benzo(a)pyrene	**0.8**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
indeno(1,2,3-cd)pyrene	**0.3**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
dibenzo(a,h)anthracene	**0.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
benzo(g,h,i)perylene	**0.3**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	56	43-116	%	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
o-terphenyl SUR	62	33-141	%	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
PCB-1016	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
PCB-1221	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
PCB-1232	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
PCB-1242	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
PCB-1248	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
PCB-1254	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
PCB-1260	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	92	30-150	%	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
decachlorobiphenyl SUR	82	30-150	%	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-008
Sample ID: Dry Dock 2 S-8
Matrix: Solid Percent Dry: 47.1 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 12:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
2-methylnaphthalene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
acenaphthylene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
acenaphthene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
dibenzofuran	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
fluorene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
phenanthrene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
anthracene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
fluoranthene	**0.7**	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
pyrene	**0.5**	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
benzo(a)anthracene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
chrysene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
carbazole	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
benzo(b)fluoranthene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
benzo(k)fluoranthene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
benzo(a)pyrene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
dibenzo(a,h)anthracene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
benzo(g,h,i)perylene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	57	43-116	%	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
o-terphenyl SUR	74	33-141	%	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
PCB-1016	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
PCB-1221	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
PCB-1232	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
PCB-1242	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
PCB-1248	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
PCB-1254	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
PCB-1260	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	91	30-150	%	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
decachlorobiphenyl SUR	93	30-150	%	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-009
Sample ID: Dry Dock 2 S-9
Matrix: Solid Percent Dry: 59.5 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 11:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
2-methylnaphthalene	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
acenaphthylene	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
acenaphthene	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
dibenzofuran	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
fluorene	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
phenanthrene	**1.2**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
anthracene	**0.4**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
fluoranthene	**2.2**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
pyrene	**1.8**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
benzo(a)anthracene	**0.7**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
chrysene	**1.0**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
carbazole	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
benzo(b)fluoranthene	**0.5**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
benzo(k)fluoranthene	**0.7**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
benzo(a)pyrene	**0.6**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
indeno(1,2,3-cd)pyrene	**0.4**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
dibenzo(a,h)anthracene	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
benzo(g,h,i)perylene	**0.4**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	93	43-116	%	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
o-terphenyl SUR	111	33-141	%	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
PCB-1016	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
PCB-1221	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
PCB-1232	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
PCB-1242	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
PCB-1248	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
PCB-1254	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
PCB-1260	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	95	30-150	%	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
decachlorobiphenyl SUR	97	30-150	%	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-010
Sample ID: Dry Dock 2 S-10
Matrix: Solid Percent Dry: 45.7 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
2-methylnaphthalene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
acenaphthylene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
acenaphthene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
dibenzofuran	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
fluorene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
phenanthrene	**0.6**	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
anthracene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
fluoranthene	**1.8**	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
pyrene	**1.5**	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
benzo(a)anthracene	**0.4**	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
chrysene	**0.9**	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
carbazole	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
benzo(b)fluoranthene	**0.5**	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
benzo(k)fluoranthene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
benzo(a)pyrene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
dibenzo(a,h)anthracene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
benzo(g,h,i)perylene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	69	43-116	%	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
o-terphenyl SUR	83	33-141	%	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
PCB-1016	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
PCB-1221	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
PCB-1232	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
PCB-1242	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
PCB-1248	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
PCB-1254	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
PCB-1260	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	54	30-150	%	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
decachlorobiphenyl SUR	42	30-150	%	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-011
Sample ID: Dry Dock 2 S-11
Matrix: Solid Percent Dry: 38.3 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
2-methylnaphthalene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
acenaphthylene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
acenaphthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
dibenzofuran	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
fluorene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
phenanthrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
fluoranthene	0.7	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
pyrene	0.6	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
benzo(a)anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
chrysene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
carbazole	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
benzo(b)fluoranthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
benzo(k)fluoranthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
benzo(a)pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
dibenzo(a,h)anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
benzo(g,h,i)perylene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	66	43-116	%	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
o-terphenyl SUR	71	33-141	%	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
PCB-1016	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
PCB-1221	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
PCB-1232	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
PCB-1242	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
PCB-1248	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
PCB-1254	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
PCB-1260	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	40	30-150	%	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
decachlorobiphenyl SUR	22 *	30-150	%	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082

***** = *This surrogate showed recovery outside the acceptance limits. Matrix interference suspected.***

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-012
Sample ID: Dry Dock 2 S-12
Matrix: Solid Percent Dry: 44.2 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
2-methylnaphthalene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
acenaphthylene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
acenaphthene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
dibenzofuran	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
fluorene	**0.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
phenanthrene	**0.7**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
anthracene	**6.4** M	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
M = The percent recovery for the matrix spike was outside of the acceptance limits. All other batch QC met acceptance criteria. Matrix interference suspected.										
fluoranthene	**2.0**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
pyrene	**1.8**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
benzo(a)anthracene	**2.6**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
chrysene	**3.9** M	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
M = The percent recovery for the matrix spike was outside of the acceptance limits. All other batch QC met acceptance criteria. Matrix interference suspected.										
carbazole	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
benzo(b)fluoranthene	**0.9**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
benzo(k)fluoranthene	**1.3**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
benzo(a)pyrene	**1.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
indeno(1,2,3-cd)pyrene	**0.3**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
dibenzo(a,h)anthracene	**0.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
benzo(g,h,i)perylene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	55	43-116	%	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
o-terphenyl SUR	57	33-141	%	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C

Note: Sample duplicate analysis showed poor precision. The analysis with higher values has been reported.

PCB-1016	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
PCB-1221	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
PCB-1232	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
PCB-1242	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
PCB-1248	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
PCB-1254	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
PCB-1260	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	109	30-150	%	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
decachlorobiphenyl SUR	89	30-150	%	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-001
Sample ID: Dry Dock 1 S-1
Matrix: Solid Percent Dry: 32 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 11:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**15000**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Arsenic	**15**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Barium	**40**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Boron	**38**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Cadmium	**0.4**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Chromium	**78**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Copper	**43**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Lead	**37**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Mercury	**0.08**	0.05	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Nickel	**18**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Silver	< 0.5	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Zinc	**120**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B

Lab Number: 15079-002
Sample ID: Dry Dock 1 S-2
Matrix: Solid Percent Dry: 40.6 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 12:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**14000**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Arsenic	**9.8**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Barium	**40**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Boron	**41**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Cadmium	**0.5**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Chromium	**100**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Copper	**65**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Lead	**62**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Mercury	**0.13**	0.04	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Nickel	**24**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Silver	**0.5**	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Zinc	**150**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-003
Sample ID: Dry Dock 1 S-3
Matrix: Solid Percent Dry: 37.2 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 13:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**17000**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Arsenic	**13**	0.9	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Barium	**53**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Boron	**50**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Cadmium	**0.5**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Chromium	**94**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Copper	**71**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Lead	**71**	0.9	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Mercury	**0.06**	0.04	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Nickel	**23**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Silver	< 0.6	0.6	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Zinc	**150**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B

Lab Number: 15079-004
Sample ID: Dry Dock 3 S-4
Matrix: Solid Percent Dry: 38.4 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 7:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**14000**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Arsenic	**16**	0.8	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Barium	**36**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Boron	**33**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Cadmium	**0.6**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Chromium	**99**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Copper	**76**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Lead	**40**	0.8	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Mercury	**0.10**	0.04	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Nickel	**17**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Silver	< 0.5	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Zinc	**110**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-005
Sample ID: Dry Dock 3 S-5
Matrix: Solid Percent Dry: 28 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**16000**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Arsenic	**12**	1.2	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Barium	**45**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Boron	**59**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Cadmium	**0.7**	0.6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Chromium	**72**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Copper	**44**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Lead	**40**	1.2	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Mercury	< 0.06	0.06	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 6	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Nickel	**21**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Selenium	< 6	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Silver	< 0.8	0.8	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Zinc	**120**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B

Lab Number: 15079-006
Sample ID: Dry Dock 3 S-6
Matrix: Solid Percent Dry: 29.6 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**18000**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Arsenic	**17**	1.4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Barium	**54**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Boron	**53**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Cadmium	< 0.7	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Chromium	**93**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Copper	**38**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Lead	**43**	1.4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Mercury	< 0.06 M	0.06	ug/g	1	BJS		0802244	8/25/08		SW7470A
M - Matrix spike recovery was 49%, outside the control limits of 75-125%. Matrix interference suspected.										
Molybdenum	< 7	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Nickel	**21**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Selenium	< 7	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Silver	< 1.0	1.0	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Zinc	**120**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-007
Sample ID: Dry Dock 2 S-7
Matrix: Solid Percent Dry: 51 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	12000	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Arsenic	**9.8**	0.6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Barium	**68**	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Boron	**32**	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Cadmium	**0.8**	0.3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Chromium	**100**	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Copper	**110**	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Lead	**380**	0.6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Mercury	**0.56**	0.03	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 3	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Nickel	**26**	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Selenium	< 3	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Silver	**0.7**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Zinc	**310**	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B

Lab Number: 15079-008
Sample ID: Dry Dock 2 S-8
Matrix: Solid Percent Dry: 47.1 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 12:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	14000	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Arsenic	**88**	0.9	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Barium	**68**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Boron	**37**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Cadmium	**1.0**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Chromium	**140**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Copper	**850**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Lead	**420**	0.9	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Mercury	**0.27**	0.03	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Nickel	**25**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Silver	**0.7**	0.6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Zinc	**260**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-009
Sample ID: Dry Dock 2 S-9
Matrix: Solid Percent Dry: 59.5 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 11:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**9400**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Arsenic	**14**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Barium	**100**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Boron	**32**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Cadmium	**1.0**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Chromium	**50**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Copper	**290**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Lead	**910**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Mercury	**0.98**	0.03	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Nickel	**17**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Silver	< 0.5	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Zinc	**600**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B

Lab Number: 15079-010
Sample ID: Dry Dock 2 S-10
Matrix: Solid Percent Dry: 45.7 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**10000**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Arsenic	**9.8**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Barium	**35**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Boron	**32**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Cadmium	**0.4**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Chromium	**62**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Copper	**35**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Lead	**45**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Mercury	**0.19**	0.04	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Nickel	**17**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Silver	**0.5**	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Zinc	**230**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-011
Sample ID: Dry Dock 2 S-11
Matrix: Solid Percent Dry: 38.3 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**15000**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Arsenic	**12**	0.9	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Barium	**76**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Boron	**47**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Cadmium	**0.8**	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Chromium	**120**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Copper	**150**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Lead	**450**	0.9	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Mercury	**0.08**	0.04	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 5	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Nickel	**35**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Selenium	< 5	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Silver	**0.7**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Zinc	**1900**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B

Lab Number: 15079-012
Sample ID: Dry Dock 2 S-12
Matrix: Solid Percent Dry: 44.2 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**14000**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Arsenic	**9.3**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Barium	**52**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Boron	**40**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Cadmium	**0.5**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Chromium	**99**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Copper	**110**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Lead	**77**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Mercury	**0.13**	0.04	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Nickel	**21**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Silver	< 0.5	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Zinc	**160**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-001
Sample ID: Dry Dock 1 S-1
Matrix: Solid Percent Dry: 32 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 11:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**27000**	780	ug/g	50	AJD		0802294	8/27/08	15:45	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**7.67**		pH	1	APA		0802225	8/22/08	3:30	E150.1
Sulfide-soluble	< 1.2	1.2	ug/g	1	APA		0802235	8/25/08		SM4500-S
Cyanide, total	< 6.2	6.2	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**560**	39	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-002
Sample ID: Dry Dock 1 S-2
Matrix: Solid Percent Dry: 40.6 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 12:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**21000**	620	ug/g	50	AJD		0802294	8/27/08	19:13	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.33**		pH	1	APA		0802225	8/22/08	3:35	E150.1
Cyanide, total	< 4.9	4.9	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**460**	31	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-003
Sample ID: Dry Dock 1 S-3
Matrix: Solid Percent Dry: 37.2 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 13:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**25000**	670	ug/g	50	AJD		0802294	8/27/08	19:27	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**7.54**		pH	1	APA		0802225	8/22/08	3:40	E150.1
Cyanide, total	< 5.4	5.4	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**510**	34	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-004
Sample ID: Dry Dock 3 S-4
Matrix: Solid Percent Dry: 38.4 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 7:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**22000**	650	ug/g	50	AJD		0802294	8/27/08	19:40	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**7.73**		pH	1	APA		0802225	8/22/08	3:45	E150.1
Sulfide-soluble	< 1.0	1.0	ug/g	1	APA		0802235	8/25/08		SM4500-S
Cyanide, total	< 5.2	5.2	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**510**	33	ug/g	50	APA		0802248	8/26/08		E365.3

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-005
Sample ID: Dry Dock 3 S-5
Matrix: Solid Percent Dry: 28 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**37000**	890	ug/g	50	AJD		0802294	8/27/08	19:53	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**7.85**		pH	1	APA		0802225	8/22/08	3:50	E150.1
Cyanide, total	< 7.2	7.2	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**570**	45	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-006
Sample ID: Dry Dock 3 S-6
Matrix: Solid Percent Dry: 29.6 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**32000**	840	ug/g	50	AJD		0802294	8/27/08	20:07	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**7.75**		pH	1	APA		0802225	8/22/08	3:55	E150.1
Cyanide, total	< 6.8	6.8	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**680**	42	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-007
Sample ID: Dry Dock 2 S-7
Matrix: Solid Percent Dry: 51 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**15000**	490	ug/g	50	AJD		0802294	8/27/08	20:20	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.51**		pH	1	APA		0802225	8/22/08	4:00	E150.1
Sulfide-soluble	< 0.8	0.8	ug/g	1	APA		0802235	8/25/08		SM4500-S
Cyanide, total	< 3.9	3.9	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**360**	24	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-008
Sample ID: Dry Dock 2 S-8
Matrix: Solid Percent Dry: 47.1 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 12:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**12000**	530	ug/g	50	AJD		0802294	8/27/08	20:47	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.25**		pH	1	APA		0802225	8/22/08	4:05	E150.1
Cyanide, total	< 4.2	4.2	ug/g	1	APA		0802261	8/27/08		E9014
Total Phosphorus as P	**450**	27	ug/g	50	APA		0802248	8/26/08		E365.3

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-009
Sample ID: Dry Dock 2 S-9
Matrix: Solid Percent Dry: 59.5 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 11:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**9500**	420	ug/g	50	AJD		0802317	8/28/08	16:14	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.38**		pH	1	APA		0802225	8/22/08	4:10	E150.1
Sulfide-soluble	< 0.7	0.7	ug/g	1	APA		0802235	8/25/08		SM4500-S
Cyanide, total	< 3.4	3.4	ug/g	1	APA		0802261	8/27/08		E9014
Total Phosphorus as P	**290**	21	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-010
Sample ID: Dry Dock 2 S-10
Matrix: Solid Percent Dry: 45.7 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**16000**	550	ug/g	50	AJD		0802317	8/28/08	16:27	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.23**		pH	1	APA		0802225	8/22/08	4:15	E150.1
Sulfide-soluble	< 0.9	0.9	ug/g	1	APA		0802235	8/25/08		SM4500-S
Cyanide, total	< 4.4	4.4	ug/g	1	APA		0802261	8/27/08		E9014
Total Phosphorus as P	**530**	27	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-011
Sample ID: Dry Dock 2 S-11
Matrix: Solid Percent Dry: 38.3 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**17000**	650	ug/g	50	AJD		0802317	8/28/08	16:40	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.06**		pH	1	APA		0802225	8/22/08	4:20	E150.1
Sulfide-soluble	< 1.0	1.0	ug/g	1	APA		0802235	8/25/08		SM4500-S
Cyanide, total	< 5.2	5.2	ug/g	1	APA		0802261	8/27/08		E9014
Total Phosphorus as P	**550**	33	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-012
Sample ID: Dry Dock 2 S-12
Matrix: Solid Percent Dry: 44.2 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**17000**	570	ug/g	50	AJD		0802317	8/28/08	16:54	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.36**		pH	1	APA		0802225	8/22/08	4:25	E150.1
Cyanide, total	< 4.5	4.5	ug/g	1	APA		0802261	8/27/08		E9014
Total Phosphorus as P	**550**	28	ug/g	50	APA		0802248	8/26/08		E365.3

Project ID: PNSY Dredging Project

Lab ID: 15079

Lab Number: 15079-001

Sample ID: Dry Dock 1 S-1

Matrix: Solid Percent Dry: 32 % Results are expressed on a dry weight basis.

Sampled: 8/19/08 11:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.5 S	2.5	ug/g	1	ST		0802363	8/29/08		SW7196A

M = The percent recovery for the MS/D were below the acceptance criteria (15%/12%); however, the associated LCS/LCSD recoveries were within criteria. The results of the sample utilized for the MS/D are considered to have a potentially low bias.

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.33 S	0.30	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	2.69 S	0.30	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-002

Sample ID: Dry Dock 1 S-2

Matrix: Solid Percent Dry: 40.6 % Results are expressed on a dry weight basis.

Sampled: 8/19/08 12:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.0 S	2.0	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.56 S	0.24	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	2.90 S	0.23	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-003

Sample ID: Dry Dock 1 S-3

Matrix: Solid Percent Dry: 37.2 % Results are expressed on a dry weight basis.

Sampled: 8/19/08 13:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.2 S	2.2	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.87 S	0.26	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	3.13 S	0.26	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-004

Sample ID: Dry Dock 3 S-4

Matrix: Solid Percent Dry: 38.4 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 7:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.1 S	2.1	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.05 S	0.25	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	1.84 S	0.26	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Project ID: PNSY Dredging Project

Lab ID: 15079

Lab Number: 15079-005

Sample ID: Dry Dock 3 S-5

Matrix: Solid Percent Dry: 28 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 8:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.8 S	2.8	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	3.62 S	0.34	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	3.51 S	0.37	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-006

Sample ID: Dry Dock 3 S-6

Matrix: Solid Percent Dry: 29.6 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.7 S	2.7	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	1.88 S	0.29	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	2.28 S	0.32	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-007

Sample ID: Dry Dock 2 S-7

Matrix: Solid Percent Dry: 51 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 13:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 1.6 S	1.6	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	3.02 S	0.20	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	3.46 S	0.19	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-008

Sample ID: Dry Dock 2 S-8

Matrix: Solid Percent Dry: 47.1 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 12:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 1.7 S	1.7	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.55 S	0.20	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	2.63 S	0.20	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Project ID: PNSY Dredging Project

Lab ID: 15079

Lab Number: 15079-009

Sample ID: Dry Dock 2 S-9

Matrix: Solid Percent Dry: 59.5 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 11:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 1.4 S	1.4	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.16 S	0.17	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	1.90 S	0.16	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-010

Sample ID: Dry Dock 2 S-10

Matrix: Solid Percent Dry: 45.7 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 1.7 S	1.7	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.83 S	0.19	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	2.62 S	0.21	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-011

Sample ID: Dry Dock 2 S-11

Matrix: Solid Percent Dry: 38.3 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.1 S	2.1	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	1.92 S	0.24	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	1.96 S	0.24	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-012

Sample ID: Dry Dock 2 S-12

Matrix: Solid Percent Dry: 44.2 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 1.8 S	1.8	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.89 S	0.22	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	2.61 S	0.22	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

RL Resource Laboratories, LLC
124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

15079

Company Name: Appledore Engineering, Inc. Phone #: 603-433-8818 FAX #: 603-433-8988

Company Address: 15 Rye Street, Suite 305

Report To: Appledore Eng. Inc.

Project Info: NH MA ME VT
PNSY Dredging Project

Invoice To: Appledore Eng. Inc.

Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER (Sediment)	HCl	HNO3	H2SO4	NaOH	MeOH	OTHER (Specify)	DATE	TIME	SAMPLER*
15079-01	Dry Dock1 S-1	9			X							8-19-08	1155	
↓	S-1	2			X							↓	↓	
-02	S-2	9	QB		X							↓	1235	
↓	~~S-2~~	~~4~~			X							↓	↓	
-03	S-3	9	QB		X							↓	1355	
	~~S-3~~	~~4~~			X							↓	↓	
	QB [illegible]													

ANALYSIS REQUEST

Field ID	☐ VOC 8260 ☒ VOC 8260 NHDES ☐ VOC 8260 MADEP	☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only	☐ VPH MADEP ☐ MEGRO ☐ GRO	☐ VOC 524.2 ☐ VOC 524.2 NH List	☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint	☒ 8270PAH ☐ 8270ABN ☐ 625	☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB	☐ O&G 1664 ☐ Mineral O&G SM5520F	☒ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☒ CN QB	☐ TSS ☐ TDS ☐ TS	☒ ~~RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals~~	☒ Total Metals-list ☐ Dissolved Metals-list	~~☒ Ammonia ☐ COD ☐ TKN~~ Herbicides SS	☒ T-Phosphorus ☐ Phenol	☐ Cyanide ☒ Sulfide	☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☒ Chloride	☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☒ Ignitibility/FP	☒ TCLP Metals ☒ TCLP VOC ☒ TCLP SVOC	☒ TCLP Pesticide ☒ TCLP Herbicides (subcontract)	☐ Standard Drinking Water Test ☐ Bacteria P/A	Dioxins 8290 ☒ CrVI QB	Grain Size w/Hydrometer	Total Organic Carbon (+Dup)	Grab (G) or Composite (C)
S-1 (-01)	X					X	X		X		~~X~~	X	~~X~~	X	~~X~~	X	X				X	X	X	
S-1											X				X			X	X					
S-2 (-02)	X					X	X		X		~~X~~	X	~~X~~	X	~~X~~	X	X	QB			X	X	X	
~~S-2~~																		~~[illegible]~~						
S-3 (-03)	X					X	X		X		~~X~~	X	~~X~~	X	~~X~~	X	X	QB			X	X	X	
~~S-3~~											SS		SS		SS			~~[illegible]~~						

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed ______

* See www.reslabs.com for sample acceptance policy.

E-Mail Address ______
Quote # ______
PO # ______

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify) ______
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE 5 °C (all coolers)

CUSTODY RECORD

Relinquished	Date	Time	Received	Date	Time
Relinquished by Sampler: James Bajek	8/20/08	1510	Received by: [signature]	8/20/08	1510
Relinquished by: [signature]	8/20/08	1547	Received by:		
Relinquished by:			Received by Laboratory: [signature] Way Bill#:	8/20/08	1547

RL Resource Laboratories, LLC
124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

15079

Company Name: Appledore Engineering, Inc.
Phone #603-433-8818
FAX #603-433-8988
Company Address: 15 Rye St., Suite 305
Report To: Appledore Eng, Inc
Project Info: NH MA ME VT — PNSY Dredging Project
Invoice To: Appledore Eng., Inc
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation: HCl	Preservation: HNO_3	Preservation: H_2SO_4	Preservation: NaOH	Preservation: MeOH	Preservation: OTHER (Specify)	Sampling: DATE	Sampling: TIME	SAMPLER*
04	DryDock 3 S-4	9			X							8-20-08	0730	
1	S-4	2			X								0730	
05	S-5	9			X								0815	
06	S-6	9			X								0835	

ANALYSIS REQUEST

Lab Sample ID	VOC 8260 NHDES	VOC 8260 MADEP	VOC 8260	VOC 624	VOC BTEX	VPH MADEP	VOC 524.2	TPH	8270PAH	8082 PCB	O&G 1664	pH	TSS	RCRA Metals	Total Metals-list	T-Phosphorus	Cyanide	Nitrate	Corrosivity	TCLP Metals	TCLP Pesticide	Standard Drinking Water Test	Dioxins 8290	Grain Size	Total Organic Carbon (+Dup)
04			X						X	X		X		X	X	X	X	X	X				X	X	X
1																	X			X	X				
05	X								X	X		X		X	X	X	X	X	X				X	X	X
06	X								X	X		X		X	X	X	X	X	X				X	X	X

Herbicides

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed

* See www.reslabs.com for sample acceptance policy.

E-Mail Address
Quote #
PO #

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE all Coolers 5 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Sampler: James Bajek	8/20/08	1510	[signature]	8/20/08	1510
[signature]	8/20/08	1547	[signature]	8/20/08	1547
			Received by Laboratory:		
			Way Bill#:		

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 150[illegible]

Company Name: Appledore Engineering, Inc.
Phone #: 603-433-8818
FAX #: 603-433-8988
Company Address: 15 Rye St., Suite 305
Report To: Appledore Eng, Inc.
Project Info: NH MA ME VT — PNSY Dredging Project
Invoice To: ↓
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Analysis request columns: (1) ☒ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP; (2) ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only; (3) ☐ VPH MADEP ☐ MEGRO ☐ GRO; (4) ☐ VOC 524.2 ☐ VOC 524.2 NH List; (5) ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint; (6) ☒ 8270PAH ☐ 8270ABN ☐ 625; (7) ☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB; (8) ☐ O&G 1664 ☐ Mineral O&G SM5520F; (9) ☒ pH ☐ BOD ☐ Conductivity ☒ Turbidity Cyanides; (10) ☐ TSS ☐ TDS ☐ TS; (11) ☒ ~~RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals~~ SS; (12) ☒ Total Metals-list ☐ Dissolved Metals-list; (13) ☒ ~~Ammonia ☐ COD ☐ TKN~~ Herbicides SS; (14) ☒ T-Phosphorus ☐ Phenol; (15) ☐ Cyanide ☒ Sulfide; (16) ☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☒ Chloride; (17) ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☒ Ignitibility/FP; (18) ☒ TCLP Metals ☒ TCLP VOC ☒ TCLP SVOC; (19) ☒ TCLP Pesticide ☒ TCLP Herbicides (subcontract); (20) ☐ Standard Drinking Water Test ☐ Bacteria P/A; (21) Dioxins, CrVI - subcontract SS; (22) Grain Size w/ Hydrometer; (23) Total Organic Carbon (+Dup); Grab (G) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# Containers	Matrix	Preservation	Date	Time	Sampler*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Grab/Comp
-07	Dry Dock 2 5-7	9	Sediment		8-20-08	1300		X					X	X		X		X	X	X	X	X	X	X				X	X	X	
d	TOP 5-7	2	↓		↓	↓												X				X			X	X					
-08	5-8	9	↓		↓	1215		X					X	X		X		X	X	X	X	X	X	X				X	X	X	
-09	5-9	9	↓		↓	1120		X					X	X		X		X	X	X	X	X	X	X				X	X	X	
d	BOT 5-9	2	↓		↓	1120												X				X			X	X					
-10	5-10	9	↓		↓	1040		X					X	X		X		X	X	X	X	X	X	X				X	X	X	
d	TOP 5-10	2	↓		↓	1040												X				X			X	X					
-11	5-11	9	↓		↓	1000		X					X	X		X		X	X	X	X	X	X	X				X	X	X	
d	BOT 5-11	2	↓		↓	1000												X				X			X	X					
-12	5-12	9	↓		↓	1350		X					X	X		X		X	X	X	X	X	X	X				X	X	X	
-13	Trip Blank	1	Other X	MeOH X	—	—		X (8/20/08)																							

Matrix: WATER, SOLID, SEDIMENT (OTHER). Preservation Method: HCl, HNO_3, H_2SO_4, NaOH, MeOH, OTHER (Specify).

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed

* See www.reslabs.com for sample acceptance policy.

E-Mail Address
Quote #
PO #

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE all coolers 5 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: James Bayeh	8/20/08	1510	Received by: [signature]	8/20/08	1510
Relinquished by: [signature]	8/20/08	1547	Received by: [signature]	8/20/08	1547
Relinquished by:			Received by Laboratory: Way Bill#:		

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Robert Snover
Appledore Engineering, Inc.
600 State Street, Suite E
Portsmouth , NH 03801

PO Number: None
LabID: 15458
Date Received: 10/14/08

Project: PNSY Dredging Project- TCLP

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

Susan Sylvester
Principal, General Manager

10-17-08
Date

Total number of pages 3

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

METALS RESULTS

Lab Number: 15458-01
Sample ID: S-2 (15079-02)
Date Sampled: 8/19/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Chromium	< 0.5	0.5	10/16/08	5	10	BJS	SW 1311/3005A/6010B

Lab Number: 15458-02
Sample ID: S-8 (15079-08)
Date Sampled: 8/20/2008
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Chromium	< 0.5	0.5	10/16/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	0.3	0.1	10/16/08	5	10	BJS	SW 1311/3005A/6010B

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY AND ANALYSIS RE 15458 ~~15079~~

Company Name: Appledore Engineering, Inc.
Phone #: 603-433-8818
FAX #: 603-433-8988
Company Address: 15 Rye Street, Suite 305
Report To: Appledore Eng. Inc.
Project Info: NH MA ME VT — PNSY Dredging Project
Invoice To: Appledore Eng. Inc.
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER Sediment	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*
* 15458 15079-01	Dry Dock 1 S-1	9			X							8-19-08	1155	
	S-1	2			X									
-01 -02	S-2	9			X	[TCLP Cr]					*		1235	
	~~S-2~~	~~2~~			X									
-03	S-3	9			X								1355	
	~~S-3~~	~~2~~			X									

Lab Sample ID	VOC 8260 ☒	VOC 624 ☐	VPH MADEP ☐	VOC 524.2 ☐	TPH ☐	8270PAH ☒	8082 PCB ☒	O&G 1664 ☐	pH ☒	TSS ☐	RCRA Metals ☒	Total Metals-list ☒	Ammonia ☐	T-Phosphorus ☐	Cyanide ☒	Nitrate ☐	Corrosivity ☐	TCLP Metals ☒	TCLP Pesticide ☒	Standard Drinking Water Test ☐	Dioxins 8290	Grain Size w/Hydrometer	Total Organic Carbon (+Dup)	Grab (G) or Composite (C)
15079-01	X					X	X		X		X	X	X	X	X	X	X				X	X	X	
-01 -02											X				X			X	X					
-02	X					X	X		X		X	X	X	X	X	X	X				X	X	X	
-03	X					X	X		X		X	X	X	X	X	X	X				X	X	X	

TAT REQUESTED: Priority (24 hr) ☐ Expedited (48 hr) ☐ 10 Business Days ☐ Date Needed

* See www.reslabs.com for sample acceptance policy.

E-Mail Address
Quote #
PO #

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS: ☐ FAX ☐ OTHER (specify) ☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE as carried 5 °C

CUSTODY RECORD

	Date	Time
Relinquished by Sampler: James Bayek	8/20/08	1510
Relinquished by:	8/20/08	1547
Relinquished by:		

	Date	Time
Received by:	8/20/08	1510
Received by:		
Received by Laboratory: Way Bill #:	8/20/08	1547

19408 Park Row Suite 320 Houston, TX 77084 (713) 266-1599 (713) 266-0130 fax

Columbia Analytical Services INC.
An Employee - Owned Company

September 22, 2008

Service Request No: E0800847

Sue Sylvester
Resource Laboratories
124 Heritage Ave
Portsmith, NH 03801

Laboratory Results for: Dioxins & Furans in Soil/15079

Dear Sue:

Enclosed are the results of the sample(s) submitted to our laboratory on August 27, 2008. For your reference, these analyses have been assigned our service request number **E0800847**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2960. You may also contact me via email at KVerschoor@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Karen Verschoor
Project Manager

Page 1 of _____

Columbia Analytical Services INC

Certificate of Analysis

19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
www.caslab.com

An Employee Owned Company

COLUMBIA ANALYTICAL SERVICES, INC

Client:	Resource Laboratories	**Service Request No.:**	E0800847
Project:	15079	**Date Received:**	08/27/08
Sample Matrix:	Solid		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Twelve solid samples were received for analysis at Columbia Analytical Services on 08/27/08.

The following discrepancies were noted upon initial sample inspection: no custody seals on cooler(s). The exceptions are also noted on the cooler receipt and preservation form included in this data package.

The samples were received at 6°C in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

B flags – Method Blanks

The Method Blank EQ0800380-01/U129751 contained low levels of 1234678-HpCDD, OCDD, 1234678-HpCDF and OCDF at or below the Method Reporting Limit (MRL).

The associated compounds in the samples are flagged with 'B' flags.

MS/DMS

EQ0800380: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of an MS/DMS for this extraction batch. The batch quality control criteria were met.

C flags – 2378-TCDF Confirmation

Confirmation of the TCDF compound: When 2378-TCDF is detected on the DB-5 column, confirmation analyses are performed on a second column (DB-225.) The results from both the DB-5 column and the DB-225 column are included in this data package.

The valid result for the 2378-TCDF compound is reported from the confirmation column.

The confirmation results have been included on the TEQ summary pages.

Approved by: Xiangqiu Liang **Date:** 9/23/08

Xiangqiu Liang, Laboratory Director

K flags

CAS/Houston reports EMPC results that comply with Section 11.2.6 of the DLM02.0 SOW. An EMPC result is flagged with a 'K' flag.

Detection Limits

Detection limits are calculated for each congener in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ results for each sample have been calculated by CAS/Houston to include:

- EPA-89 TEFs ("Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs)", 1989 EPA Update (EPA/625/3-89/016, March 1989))
- 2378-TCDF from the DB-225 column, when confirmation required
- Non-detected compounds are not included in the 'Total'

Approved by: Xiangqi Liang **Date:** 9/23/08

Xiangqiu Liang, Laboratory Director

Client: Resource Laboratories
Project: Dioxins & Furans in Soil/15079

Service Request: E0800847

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E0800847-001	15079-01	08/19/08	11:55
E0800847-002	15079-02	08/19/08	12:35
E0800847-003	15079-03	08/19/08	13:55
E0800847-004	15079-04	08/20/08	07:30
E0800847-005	15079-05	08/20/08	08:15
E0800847-006	15079-06	08/20/08	08:35
E0800847-007	15079-07	08/20/08	13:00
E0800847-008	15079-08	08/20/08	12:15
E0800847-009	15079-09	08/20/08	11:20
E0800847-010	15079-10	08/20/08	10:40
E0800847-011	15079-11	08/20/08	10:00
E0800847-012	15079-12	08/20/08	13:55

Abbreviations, Acronyms & Definitions

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

Data Qualifier Flags – Dioxin/Furans

- **B** Indicates the associated analyte is found in the method blank, as well as in the sample

- **C** Confirmation of the compound: When an analyte is detected on the DB-5 column and a confirmation analyses on a second columna (DB-225) is required, that analyte is flagged with a 'C' flag. The results from both the DB-5 column and the DB-225 column are included in this data package. For Method 1613B, results from the DB-225 analyses should be used to evaluate the 2378-TCDF in the samples. The confirm result should be used in determining the TEQ value for TCDF. For 1613Modified, a DB-225 column confirmation was run for the TCDD/TCDF, Pecad/PeCDF and SHCD/HxCDF. The TEQ summary reports a 'Total' result that includes the smaller of two concentrations found for the associated target analytes.

- **E** Indicates an estimated value – used when the analyte concentration exceeds the upper end of the linear calibration range

- **J** Indicates an estimated value – used when the analyte concentration is below the method reporting limit (MRL) and above the estimated detection limit (EDL)

- **K** EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

- **U** Indicates the compound was analyzed and not detected

- **Y** Samples that had recoveries of labeled standards outside the acceptance limits are flagged with 'Y' flags. In all cases, the signal-to-noise ratios are greater than 10:1, making these data acceptable.

- **ND** Indicates concentration is reported as 'Not Detected'

- **S** Peak is saturated; data not reportable

- **Q** Lock-mass interference by ether compounds

CAS/HOU - Form Production, Peer Review & Project Review Signatures

SR# Unique ID E0800847

First Level - Data Processing - to be filled by person generating the forms

Date	9/11/08	Person 1	Cle
Date		Person 2	

Second Level - Data Review – to be filled by person doing peer review

Date	9/18/08	Primary Data Reviewer	LL (-001, -002)
Date		Secondary Data Reviewer	

Project Level - Review - to be filled by person doing project compliance review

Date	9/23/08	Reviewer	[illegible]

CAS/HOU - Form Production, Peer Review & Project Review Signatures

SR# Unique ID: E0800847

First Level - Data Processing – to be filled by person generating the forms

Date	9/11/08	Person 1	CCe
Date		Person 2	

Second Level - Data Review – to be filled by person doing peer review

Date	9/16/08	Primary Data Reviewer	LL (-003, -004)
Date		Secondary Data Reviewer	

Project Level - Review - to be filled by person doing project compliance review

Date	9/23/08	Reviewer	DB

CAS/HOU - Form Production, Peer Review & Project Review Signatures

SR# Unique ID E0800847

First Level - Data Processing - to be filled by person(s) processing the forms

Date	9/16/08	Person 1	Cee
Date		Person 2	

Second Level Data Review – to be filled by person(s) doing peer review

Date	9/18/08	Primary Data Reviewer	ZZ (-007, -008, -009, -010, -011, -012)
Date		Secondary Data Reviewer	

Project Level - Review - to be filled by person doing project compliance review

Date	9/23/08	Reviewer	DB

Columbia Analytical Services INC

Analytical Results

19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
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Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-01	**Units:**	ng/Kg
Lab Code:	E0800847-001	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:08:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.024g	**Instrument Name:**	E-HRMS-01
Percent Solids:	31.2	**GC Column:**	DB-5
Data File Name:	U129772	**Blank File Name:**	U129751
ICAL Name:	05/02/08	**Cal Ver. File Name:**	U129770

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.153	3.20			1
1,2,3,7,8-PeCDD	ND	U	0.199	16.0			1
1,2,3,4,7,8-HxCDD	**0.312**	JK	0.157	16.0	1.98	1.000	1
1,2,3,6,7,8-HxCDD	**2.05**	J	0.209	16.0	1.40	1.000	1
1,2,3,7,8,9-HxCDD	**0.898**	JK	0.172	16.0	1.77	1.008	1
1,2,3,4,6,7,8-HpCDD	**44.1**	B	0.168	16.0	1.04	1.000	1
OCDD	**492**	B	0.204	32.0	0.88	1.000	1
2,3,7,8-TCDF	**0.672**	CJ	0.191	3.20	0.70	1.002	1
1,2,3,7,8-PeCDF	ND	U	0.126	16.0			1
2,3,4,7,8-PeCDF	ND	U	0.130	16.0			1
1,2,3,4,7,8-HxCDF	**0.851**	J	0.288	16.0	1.11	1.000	1
1,2,3,6,7,8-HxCDF	**0.299**	JK	0.291	16.0	0.75	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.320	16.0			1
2,3,4,6,7,8-HxCDF	ND	U	0.301	16.0			1
1,2,3,4,6,7,8-HpCDF	**11.1**	BJ	0.122	16.0	1.11	1.000	1
1,2,3,4,7,8,9-HpCDF	**0.406**	JK	0.136	16.0	0.84	1.000	1
OCDF	**36.2**	B	0.219	32.0	0.88	1.004	1
Total Tetra-Dioxins	ND	U	0.153	3.20			1
Total Penta-Dioxins	**0.893**	J	0.199	16.0	1.56		1
Total Hexa-Dioxins	**15.5**	J	0.157	16.0	1.27		1
Total Hepta-Dioxins	**99.8**		0.168	16.0	1.07		1
Total Tetra-Furans	**0.672**	J	0.191	3.20	0.70		1
Total Penta-Furans	**3.99**	J	0.130	16.0	1.71		1
Total Hexa-Furans	**10.3**	J	0.288	16.0	1.30		1
Total Hepta-Furans	**31.4**		0.122	16.0	1.11		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-01	**Units:**	Percent
Lab Code:	E0800847-001	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:08:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.024g	**Instrument Name:**	E-HRMS-01
Percent Solids:	31.2	**GC Column:**	DB-5
Data File Name:	U129772	**Blank File Name:**	U129751
ICAL Name:	05/02/08	**Cal Ver. File Name:**	U129770

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1356.076	68		25-164	0.77	1.009
13C-1,2,3,7,8-PeCDD	2000	1337.360	67		25-181	1.54	1.174
13C-1,2,3,4,7,8-HxCDD	2000	1461.391	73		32-141	1.24	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1292.482	65		28-130	1.26	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1316.899	66		23-140	1.05	1.067
13C-OCDD	4000	2214.078	55		17-157	0.91	1.144
13C-2,3,7,8-TCDF	2000	1020.579	51		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1272.806	64		24-185	1.56	1.135
13C-2,3,4,7,8-PeCDF	2000	1146.483	57		21-178	1.56	1.162
13C-1,2,3,4,7,8-HxCDF	2000	1124.374	56		26-152	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1249.461	62		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1452.425	73		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1220.043	61		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1236.981	62		28-143	0.45	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1630.779	82		26-138	0.44	1.078
37Cl-2,3,7,8-TCDD	800	601.192	75		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-01	**Units:**	ng/Kg
Lab Code:	E0800847-001	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.153	1	1	
1,2,3,7,8-PeCDD	ND	0.199	1	0.5	
1,2,3,4,7,8-HxCDD	**0.312**	0.157	1	0.10	0.0312
1,2,3,6,7,8-HxCDD	**2.05**	0.209	1	0.10	0.205
1,2,3,7,8,9-HxCDD	**0.898**	0.172	1	0.10	0.0898
1,2,3,4,6,7,8-HpCDD	**44.1**	0.168	1	0.01	0.441
OCDD	**492**	0.204	1	0.001	0.492
2,3,7,8-TCDF	ND	0.823	1	0.1	
1,2,3,7,8-PeCDF	ND	0.126	1	0.05	
2,3,4,7,8-PeCDF	ND	0.130	1	0.5	
1,2,3,4,7,8-HxCDF	**0.851**	0.288	1	0.1	0.0851
1,2,3,6,7,8-HxCDF	**0.299**	0.291	1	0.1	0.0299
1,2,3,7,8,9-HxCDF	ND	0.320	1	0.1	
2,3,4,6,7,8-HxCDF	ND	0.301	1	0.1	
1,2,3,4,6,7,8-HpCDF	**11.1**	0.122	1	0.01	0.111
1,2,3,4,7,8,9-HpCDF	**0.406**	0.136	1	0.01	0.00406
OCDF	**36.2**	0.219	1	0.001	0.0362
		Total TEQ			1.53

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-01RE	**Units:**	ng/Kg
Lab Code:	E0800847-001	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/17/08 17:16:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.024g	**Instrument Name:**	E-HRMS-70
Percent Solids:	31.2	**GC Column:**	DB-225
Data File Name:	C15352#13	**Blank File Name:**	C15352#2
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15352#1

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	ND	U	0.823	3.20			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	887.528	44		24-169	0.81	1.054
37Cl-2,3,7,8-TCDD	800	580.329	73		35-197	NA	0.989

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-02	**Units:**	ng/Kg
Lab Code:	E0800847-002	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:56:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.215g	**Instrument Name:**	E-HRMS-01
Percent Solids:	39.2	**GC Column:**	DB-5
Data File Name:	U129773	**Blank File Name:**	U129751
ICAL Name:	05/02/08	**Cal Ver. File Name:**	U129770

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.746**	JK	0.146	2.50	0.62	0.999	1
1,2,3,7,8-PeCDD	**1.38**	JK	0.231	12.5	1.26	1.000	1
1,2,3,4,7,8-HxCDD	**2.25**	J	0.200	12.5	1.31	1.000	1
1,2,3,6,7,8-HxCDD	**13.5**		0.248	12.5	1.25	1.000	1
1,2,3,7,8,9-HxCDD	**6.69**	J	0.211	12.5	1.30	1.008	1
1,2,3,4,6,7,8-HpCDD	**313**	B	0.511	12.5	1.01	1.000	1
OCDD	**2780**	B	0.342	25.0	0.87	1.000	1
2,3,7,8-TCDF	**4.25**	CK	0.201	2.50	0.91	1.001	1
1,2,3,7,8-PeCDF	**1.08**	JK	0.174	12.5	1.96	1.000	1
2,3,4,7,8-PeCDF	**1.87**	J	0.180	12.5	1.49	1.000	1
1,2,3,4,7,8-HxCDF	**4.15**	JK	0.875	12.5	1.49	1.000	1
1,2,3,6,7,8-HxCDF	**2.09**	J	0.871	12.5	1.31	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	1.02	12.5			1
2,3,4,6,7,8-HxCDF	**3.10**	JK	0.957	12.5	1.70	1.000	1
1,2,3,4,6,7,8-HpCDF	**69.8**	B	0.510	12.5	1.00	1.000	1
1,2,3,4,7,8,9-HpCDF	**2.38**	J	0.554	12.5	1.06	1.000	1
OCDF	**164**	B	0.419	25.0	0.83	1.003	1
Total Tetra-Dioxins	**4.09**		0.146	2.50	0.85		1
Total Penta-Dioxins	**5.47**	J	0.231	12.5	1.39		1
Total Hexa-Dioxins	**133**		0.200	12.5	1.33		1
Total Hepta-Dioxins	**725**		0.511	12.5	1.06		1
Total Tetra-Furans	**19.0**		0.201	2.50	0.69		1
Total Penta-Furans	**35.0**		0.180	12.5	1.56		1
Total Hexa-Furans	**65.9**		0.875	12.5	1.39		1
Total Hepta-Furans	**171**		0.510	12.5	1.00		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-02	**Units:**	Percent
Lab Code:	E0800847-002	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:56:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.215g	**Instrument Name:**	E-HRMS-01
Percent Solids:	39.2	**GC Column:**	DB-5
Data File Name:	U129773	**Blank File Name:**	U129751
ICAL Name:	05/02/08	**Cal Ver. File Name:**	U129770

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	823.472	41		25-164	0.79	1.009
13C-1,2,3,7,8-PeCDD	2000	754.082	38		25-181	1.56	1.175
13C-1,2,3,4,7,8-HxCDD	2000	780.302	39		32-141	1.23	0.990
13C-1,2,3,6,7,8-HxCDD	2000	709.874	35		28-130	1.28	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	639.899	32		23-140	1.05	1.067
13C-OCDD	4000	946.047	24		17-157	0.91	1.144
13C-2,3,7,8-TCDF	2000	617.002	31		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	710.179	36		24-185	1.53	1.136
13C-2,3,4,7,8-PeCDF	2000	651.851	33		21-178	1.59	1.162
13C-1,2,3,4,7,8-HxCDF	2000	596.039	30		26-152	0.52	0.971
13C-1,2,3,6,7,8-HxCDF	2000	668.975	33		26-123	0.51	0.974
13C-1,2,3,7,8,9-HxCDF	2000	745.539	37		29-147	0.52	1.006
13C-2,3,4,6,7,8-HxCDF	2000	619.024	31		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	597.870	30		28-143	0.45	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	817.024	41		26-138	0.44	1.078
37Cl-2,3,7,8-TCDD	800	559.736	70		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-02	**Units:**	ng/Kg
Lab Code:	E0800847-002	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.746**	0.146	1	1	0.746
1,2,3,7,8-PeCDD	**1.38**	0.231	1	0.5	0.690
1,2,3,4,7,8-HxCDD	**2.25**	0.200	1	0.10	0.225
1,2,3,6,7,8-HxCDD	**13.5**	0.248	1	0.10	1.35
1,2,3,7,8,9-HxCDD	**6.69**	0.211	1	0.10	0.669
1,2,3,4,6,7,8-HpCDD	**313**	0.511	1	0.01	3.13
OCDD	**2780**	0.342	1	0.001	2.78
2,3,7,8-TCDF	**3.66**	2.10	1	0.1	0.366
1,2,3,7,8-PeCDF	**1.08**	0.174	1	0.05	0.0540
2,3,4,7,8-PeCDF	**1.87**	0.180	1	0.5	0.935
1,2,3,4,7,8-HxCDF	**4.15**	0.875	1	0.1	0.415
1,2,3,6,7,8-HxCDF	**2.09**	0.871	1	0.1	0.209
1,2,3,7,8,9-HxCDF	ND	1.02	1	0.1	
2,3,4,6,7,8-HxCDF	**3.10**	0.957	1	0.1	0.310
1,2,3,4,6,7,8-HpCDF	**69.8**	0.510	1	0.01	0.698
1,2,3,4,7,8,9-HpCDF	**2.38**	0.554	1	0.01	0.0238
OCDF	**164**	0.419	1	0.001	0.164
		Total TEQ			12.8

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-02RE	**Units:**	ng/Kg
Lab Code:	E0800847-002	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 17:24:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.215g	**Instrument Name:**	E-HRMS-70
Percent Solids:	39.2	**GC Column:**	DB-225
Data File Name:	C15338#14	**Blank File Name:**	C15338#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15338#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**3.66**		2.10	2.50	0.81	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	501.566	25		24-169	0.75	1.053
37Cl-2,3,7,8-TCDD	800	553.096	69		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-03	**Units:**	ng/Kg
Lab Code:	E0800847-003	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:11:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.566g	**Instrument Name:**	E-HRMS-04
Percent Solids:	36.0	**GC Column:**	DB-5
Data File Name:	P200259	**Blank File Name:**	U129751
ICAL Name:	08/20/08	**Cal Ver. File Name:**	P200257

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.146**	JK	0.0557	2.63	0.29	1.001	1
1,2,3,7,8-PeCDD	**0.657**	J	0.0607	13.1	1.39	1.000	1
1,2,3,4,7,8-HxCDD	**0.815**	JK	0.0394	13.1	1.01	1.000	1
1,2,3,6,7,8-HxCDD	**5.71**	J	0.0552	13.1	1.33	1.000	1
1,2,3,7,8,9-HxCDD	**3.10**	J	0.0447	13.1	1.16	1.008	1
1,2,3,4,6,7,8-HpCDD	**129**	B	0.165	13.1	1.04	1.000	1
OCDD	**1340**	B	0.0794	26.3	0.90	1.000	1
2,3,7,8-TCDF	**2.40**	CJ	0.0381	2.63	0.70	1.001	1
1,2,3,7,8-PeCDF	**0.664**	J	0.0358	13.1	1.50	1.001	1
2,3,4,7,8-PeCDF	**0.827**	J	0.0347	13.1	1.54	1.000	1
1,2,3,4,7,8-HxCDF	**1.99**	J	0.0570	13.1	1.14	1.000	1
1,2,3,6,7,8-HxCDF	**1.04**	J	0.0578	13.1	1.17	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.0681	13.1			1
2,3,4,6,7,8-HxCDF	**1.74**	J	0.0636	13.1	1.27	1.000	1
1,2,3,4,6,7,8-HpCDF	**30.2**	B	0.0791	13.1	1.03	1.000	1
1,2,3,4,7,8,9-HpCDF	**0.887**	J	0.0847	13.1	1.00	1.000	1
OCDF	**98.9**	B	0.136	26.3	0.87	1.004	1
Total Tetra-Dioxins	**4.93**		0.0557	2.63	0.70		1
Total Penta-Dioxins	**4.63**	J	0.0607	13.1	1.42		1
Total Hexa-Dioxins	**52.7**		0.0394	13.1	1.29		1
Total Hepta-Dioxins	**284**		0.165	13.1	1.03		1
Total Tetra-Furans	**12.7**		0.0381	2.63	0.72		1
Total Penta-Furans	**16.9**		0.0347	13.1	1.60		1
Total Hexa-Furans	**32.6**		0.0570	13.1	1.26		1
Total Hepta-Furans	**78.8**		0.0791	13.1	1.03		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-03	**Units:**	Percent
Lab Code:	E0800847-003	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:11:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.566g	**Instrument Name:**	E-HRMS-04
Percent Solids:	36.0	**GC Column:**	DB-5
Data File Name:	P200259	**Blank File Name:**	U129751
ICAL Name:	08/20/08	**Cal Ver. File Name:**	P200257

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1512.163	76		25-164	0.78	1.007
13C-1,2,3,7,8-PeCDD	2000	1362.858	68		25-181	1.59	1.165
13C-1,2,3,4,7,8-HxCDD	2000	1695.151	85		32-141	1.26	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1235.929	62		28-130	1.28	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1306.536	65		23-140	1.03	1.068
13C-OCDD	4000	2012.474	50		17-157	0.90	1.150
13C-2,3,7,8-TCDF	2000	1229.023	61		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1342.238	67		24-185	1.58	1.128
13C-2,3,4,7,8-PeCDF	2000	1289.434	64		21-178	1.58	1.153
13C-1,2,3,4,7,8-HxCDF	2000	1381.226	69		26-152	0.54	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1317.545	66		26-123	0.51	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1419.241	71		29-147	0.52	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1321.622	66		28-136	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1305.708	65		28-143	0.44	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1633.086	82		26-138	0.45	1.080
37Cl-2,3,7,8-TCDD	800	625.127	78		35-197	NA	1.008

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-03	**Units:**	ng/Kg
Lab Code:	E0800847-003	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.146**	0.0557	1	1	0.146
1,2,3,7,8-PeCDD	**0.657**	0.0607	1	0.5	0.329
1,2,3,4,7,8-HxCDD	**0.815**	0.0394	1	0.10	0.0815
1,2,3,6,7,8-HxCDD	**5.71**	0.0552	1	0.10	0.571
1,2,3,7,8,9-HxCDD	**3.10**	0.0447	1	0.10	0.310
1,2,3,4,6,7,8-HpCDD	**129**	0.165	1	0.01	1.29
OCDD	**1340**	0.0794	1	0.001	1.34
2,3,7,8-TCDF	**1.41**	0.819	1	0.1	0.141
1,2,3,7,8-PeCDF	**0.664**	0.0358	1	0.05	0.0332
2,3,4,7,8-PeCDF	**0.827**	0.0347	1	0.5	0.414
1,2,3,4,7,8-HxCDF	**1.99**	0.0570	1	0.1	0.199
1,2,3,6,7,8-HxCDF	**1.04**	0.0578	1	0.1	0.104
1,2,3,7,8,9-HxCDF	ND	0.0681	1	0.1	
2,3,4,6,7,8-HxCDF	**1.74**	0.0636	1	0.1	0.174
1,2,3,4,6,7,8-HpCDF	**30.2**	0.0791	1	0.01	0.302
1,2,3,4,7,8,9-HpCDF	**0.887**	0.0847	1	0.01	0.00887
OCDF	**98.9**	0.136	1	0.001	0.0989
		Total TEQ			5.54

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-03RE	**Units:**	ng/Kg
Lab Code:	E0800847-003	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 12:52:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.566g	**Instrument Name:**	E-HRMS-70
Percent Solids:	36.0	**GC Column:**	DB-225
Data File Name:	C15341#5	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**1.41**	JK	0.819	2.63	1.06	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1225.576	61		24-169	0.76	1.053
37Cl-2,3,7,8-TCDD	800	711.014	89		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-04	**Units:**	ng/Kg
Lab Code:	E0800847-004	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:58:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.047g	**Instrument Name:**	E-HRMS-04
Percent Solids:	35.8	**GC Column:**	DB-5
Data File Name:	P200260	**Blank File Name:**	U129751
ICAL Name:	08/20/08	**Cal Ver. File Name:**	P200257

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.0786**	JK	0.0498	2.53	0.21	1.001	1
1,2,3,7,8-PeCDD	**0.120**	JK	0.0448	12.6	0.81	1.000	1
1,2,3,4,7,8-HxCDD	**0.269**	J	0.0427	12.6	1.33	1.000	1
1,2,3,6,7,8-HxCDD	**2.38**	J	0.0531	12.6	1.21	1.000	1
1,2,3,7,8,9-HxCDD	**0.887**	JK	0.0460	12.6	0.99	1.008	1
1,2,3,4,6,7,8-HpCDD	**56.3**	B	0.212	12.6	1.05	1.000	1
OCDD	**558**	B	0.0592	25.3	0.90	1.000	1
2,3,7,8-TCDF	**0.681**	CJ	0.0453	2.53	0.69	1.001	1
1,2,3,7,8-PeCDF	**0.192**	J	0.0523	12.6	1.44	1.001	1
2,3,4,7,8-PeCDF	**0.164**	JK	0.0526	12.6	2.01	1.000	1
1,2,3,4,7,8-HxCDF	**0.719**	J	0.0544	12.6	1.14	1.000	1
1,2,3,6,7,8-HxCDF	**0.382**	J	0.0549	12.6	1.26	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.0625	12.6			1
2,3,4,6,7,8-HxCDF	**0.658**	J	0.0551	12.6	1.31	0.999	1
1,2,3,4,6,7,8-HpCDF	**14.2**	B	0.0685	12.6	1.03	1.000	1
1,2,3,4,7,8,9-HpCDF	**0.479**	J	0.0746	12.6	1.15	1.000	1
OCDF	**47.4**	B	0.0986	25.3	0.84	1.004	1
Total Tetra-Dioxins	ND	U	0.0498	2.53			1
Total Penta-Dioxins	**1.46**	J	0.0448	12.6	1.78		1
Total Hexa-Dioxins	**18.0**		0.0427	12.6	1.24		1
Total Hepta-Dioxins	**132**		0.212	12.6	1.04		1
Total Tetra-Furans	**2.63**		0.0453	2.53	0.76		1
Total Penta-Furans	**5.83**	J	0.0526	12.6	1.56		1
Total Hexa-Furans	**14.5**		0.0544	12.6	1.19		1
Total Hepta-Furans	**43.0**		0.0685	12.6	1.03		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-04	**Units:**	Percent
Lab Code:	E0800847-004	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:58:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.047g	**Instrument Name:**	E-HRMS-04
Percent Solids:	35.8	**GC Column:**	DB-5
Data File Name:	P200260	**Blank File Name:**	U129751
ICAL Name:	08/20/08	**Cal Ver. File Name:**	P200257

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1395.699	70		25-164	0.79	1.007
13C-1,2,3,7,8-PeCDD	2000	1186.109	59		25-181	1.59	1.165
13C-1,2,3,4,7,8-HxCDD	2000	1441.100	72		32-141	1.26	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1173.495	59		28-130	1.27	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1204.154	60		23-140	1.04	1.068
13C-OCDD	4000	1821.103	46		17-157	0.91	1.149
13C-2,3,7,8-TCDF	2000	1003.655	50		24-169	0.78	0.978
13C-1,2,3,7,8-PeCDF	2000	1164.528	58		24-185	1.57	1.127
13C-2,3,4,7,8-PeCDF	2000	1073.041	54		21-178	1.58	1.153
13C-1,2,3,4,7,8-HxCDF	2000	1251.595	63		26-152	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1171.239	59		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1307.134	65		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1223.223	61		28-136	0.53	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1214.601	61		28-143	0.45	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1478.796	74		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	658.214	82		35-197	NA	1.007

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-04	**Units:**	ng/Kg
Lab Code:	E0800847-004	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.0786**	0.0498	1	1	0.0786
1,2,3,7,8-PeCDD	**0.120**	0.0448	1	0.5	0.0600
1,2,3,4,7,8-HxCDD	**0.269**	0.0427	1	0.10	0.0269
1,2,3,6,7,8-HxCDD	**2.38**	0.0531	1	0.10	0.238
1,2,3,7,8,9-HxCDD	**0.887**	0.0460	1	0.10	0.0887
1,2,3,4,6,7,8-HpCDD	**56.3**	0.212	1	0.01	0.563
OCDD	**558**	0.0592	1	0.001	0.558
2,3,7,8-TCDF	ND	0.772	1	0.1	
1,2,3,7,8-PeCDF	**0.192**	0.0523	1	0.05	0.00960
2,3,4,7,8-PeCDF	**0.164**	0.0526	1	0.5	0.0820
1,2,3,4,7,8-HxCDF	**0.719**	0.0544	1	0.1	0.0719
1,2,3,6,7,8-HxCDF	**0.382**	0.0549	1	0.1	0.0382
1,2,3,7,8,9-HxCDF	ND	0.0625	1	0.1	
2,3,4,6,7,8-HxCDF	**0.658**	0.0551	1	0.1	0.0658
1,2,3,4,6,7,8-HpCDF	**14.2**	0.0685	1	0.01	0.142
1,2,3,4,7,8,9-HpCDF	**0.479**	0.0746	1	0.01	0.00479
OCDF	**47.4**	0.0986	1	0.001	0.0474
		Total TEQ			2.07

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-04RE	**Units:**	ng/Kg
Lab Code:	E0800847-004	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 13:25:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.047g	**Instrument Name:**	E-HRMS-70
Percent Solids:	35.8	**GC Column:**	DB-225
Data File Name:	C15341#6	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	ND	U	0.772	2.53			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1057.711	53		24-169	0.76	1.053
37Cl-2,3,7,8-TCDD	800	680.817	85		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-05	**Units:**	ng/Kg
Lab Code:	E0800847-005	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:13:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	12.005g	**Instrument Name:**	E-HRMS-02
Percent Solids:	27.3	**GC Column:**	DB-5
Data File Name:	U217448	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217446

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.156	3.05			1
1,2,3,7,8-PeCDD	**0.299**	JK	0.117	15.3	1.21	1.000	1
1,2,3,4,7,8-HxCDD	**0.490**	J	0.131	15.3	1.11	1.000	1
1,2,3,6,7,8-HxCDD	**2.61**	J	0.175	15.3	1.16	1.000	1
1,2,3,7,8,9-HxCDD	**2.39**	J	0.142	15.3	1.11	1.007	1
1,2,3,4,6,7,8-HpCDD	**79.4**	B	0.428	15.3	1.06	1.000	1
OCDD	**642**	B	0.641	30.5	0.89	1.001	1
2,3,7,8-TCDF	**0.926**	CJ	0.0726	3.05	0.82	1.001	1
1,2,3,7,8-PeCDF	ND	U	0.145	15.3			1
2,3,4,7,8-PeCDF	**0.341**	J	0.144	15.3	1.52	1.001	1
1,2,3,4,7,8-HxCDF	**0.697**	J	0.0918	15.3	1.39	1.000	1
1,2,3,6,7,8-HxCDF	**0.389**	J	0.0925	15.3	1.43	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.106	15.3			1
2,3,4,6,7,8-HxCDF	**0.732**	J	0.0937	15.3	1.12	1.000	1
1,2,3,4,6,7,8-HpCDF	**10.5**	BJ	0.362	15.3	0.97	1.000	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.377	15.3			1
OCDF	**42.9**	B	0.240	30.5	0.88	1.004	1
Total Tetra-Dioxins	ND	U	0.156	3.05			1
Total Penta-Dioxins	**1.44**	J	0.117	15.3	1.33		1
Total Hexa-Dioxins	**21.1**		0.131	15.3	1.27		1
Total Hepta-Dioxins	**198**		0.428	15.3	1.03		1
Total Tetra-Furans	**2.12**	J	0.0726	3.05	0.72		1
Total Penta-Furans	**0.341**	J	0.144	15.3	1.52		1
Total Hexa-Furans	**10.5**	J	0.0918	15.3	1.35		1
Total Hepta-Furans	**32.3**		0.362	15.3	0.97		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-05	**Units:**	Percent
Lab Code:	E0800847-005	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:13:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	12.005g	**Instrument Name:**	E-HRMS-02
Percent Solids:	27.3	**GC Column:**	DB-5
Data File Name:	U217448	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217446

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1528.209	76		25-164	0.79	1.008
13C-1,2,3,7,8-PeCDD	2000	1511.381	76		25-181	1.57	1.170
13C-1,2,3,4,7,8-HxCDD	2000	1519.863	76		32-141	1.27	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1290.533	65		28-130	1.28	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1221.373	61		23-140	1.06	1.069
13C-OCDD	4000	1905.684	48		17-157	0.90	1.152
13C-2,3,7,8-TCDF	2000	1347.733	67		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1663.645	83		24-185	1.60	1.132
13C-2,3,4,7,8-PeCDF	2000	1578.978	79		21-178	1.61	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1399.238	70		26-152	0.53	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1370.883	69		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1420.678	71		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1462.601	73		28-136	0.54	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1308.748	65		28-143	0.45	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1641.516	82		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	695.848	87		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-05	**Units:**	ng/Kg
Lab Code:	E0800847-005	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.156	1	1	
1,2,3,7,8-PeCDD	**0.299**	0.117	1	0.5	0.150
1,2,3,4,7,8-HxCDD	**0.490**	0.131	1	0.10	0.0490
1,2,3,6,7,8-HxCDD	**2.61**	0.175	1	0.10	0.261
1,2,3,7,8,9-HxCDD	**2.39**	0.142	1	0.10	0.239
1,2,3,4,6,7,8-HpCDD	**79.4**	0.428	1	0.01	0.794
OCDD	**642**	0.641	1	0.001	0.642
2,3,7,8-TCDF	ND	0.908	1	0.1	
1,2,3,7,8-PeCDF	ND	0.145	1	0.05	
2,3,4,7,8-PeCDF	**0.341**	0.144	1	0.5	0.171
1,2,3,4,7,8-HxCDF	**0.697**	0.0918	1	0.1	0.0697
1,2,3,6,7,8-HxCDF	**0.389**	0.0925	1	0.1	0.0389
1,2,3,7,8,9-HxCDF	ND	0.106	1	0.1	
2,3,4,6,7,8-HxCDF	**0.732**	0.0937	1	0.1	0.0732
1,2,3,4,6,7,8-HpCDF	**10.5**	0.362	1	0.01	0.105
1,2,3,4,7,8,9-HpCDF	ND	0.377	1	0.01	
OCDF	**42.9**	0.240	1	0.001	0.0429
		Total TEQ			2.64

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-05RE	**Units:**	ng/Kg
Lab Code:	E0800847-005	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 13:57:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	12.005g	**Instrument Name:**	E-HRMS-70
Percent Solids:	27.3	**GC Column:**	DB-225
Data File Name:	C15341#7	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	ND	U	0.908	3.05			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1181.428	59		24-169	0.77	1.053
37Cl-2,3,7,8-TCDD	800	697.971	87		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-06	**Units:**	ng/Kg
Lab Code:	E0800847-006	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 16:01:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.062g	**Instrument Name:**	E-HRMS-02
Percent Solids:	29.6	**GC Column:**	DB-5
Data File Name:	U217449	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217446

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.457**	JK	0.0507	3.05	0.62	1.001	1
1,2,3,7,8-PeCDD	**0.560**	JK	0.114	15.3	1.91	1.000	1
1,2,3,4,7,8-HxCDD	**0.668**	JK	0.225	15.3	0.91	1.000	1
1,2,3,6,7,8-HxCDD	**5.11**	J	0.287	15.3	1.34	1.000	1
1,2,3,7,8,9-HxCDD	**2.83**	J	0.239	15.3	1.26	1.008	1
1,2,3,4,6,7,8-HpCDD	**128**	B	0.354	15.3	1.05	1.000	1
OCDD	**1130**	B	0.653	30.5	0.90	1.000	1
2,3,7,8-TCDF	**1.63**	CJ	0.0925	3.05	0.89	1.001	1
1,2,3,7,8-PeCDF	**0.345**	JK	0.185	15.3	2.76	1.001	1
2,3,4,7,8-PeCDF	**0.648**	JK	0.182	15.3	1.95	1.001	1
1,2,3,4,7,8-HxCDF	**1.46**	J	0.105	15.3	1.43	1.000	1
1,2,3,6,7,8-HxCDF	**0.790**	JK	0.105	15.3	1.64	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.110	15.3			1
2,3,4,6,7,8-HxCDF	**1.63**	J	0.104	15.3	1.33	1.000	1
1,2,3,4,6,7,8-HpCDF	**27.2**	B	0.683	15.3	1.02	1.000	1
1,2,3,4,7,8,9-HpCDF	**1.00**	J	0.722	15.3	0.91	1.001	1
OCDF	**83.8**	B	0.244	30.5	0.87	1.004	1
Total Tetra-Dioxins	**2.80**	J	0.0507	3.05	0.69		1
Total Penta-Dioxins	**4.65**	J	0.114	15.3	1.60		1
Total Hexa-Dioxins	**45.4**		0.225	15.3	1.25		1
Total Hepta-Dioxins	**350**		0.354	15.3	1.05		1
Total Tetra-Furans	**6.91**		0.0925	3.05	0.83		1
Total Penta-Furans	**14.0**	J	0.182	15.3	1.55		1
Total Hexa-Furans	**25.8**		0.105	15.3	1.26		1
Total Hepta-Furans	**78.3**		0.683	15.3	1.02		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-06	**Units:**	Percent
Lab Code:	E0800847-006	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 16:01:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.062g	**Instrument Name:**	E-HRMS-02
Percent Solids:	29.6	**GC Column:**	DB-5
Data File Name:	U217449	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217446

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1616.271	81		25-164	0.79	1.008
13C-1,2,3,7,8-PeCDD	2000	1611.756	81		25-181	1.60	1.170
13C-1,2,3,4,7,8-HxCDD	2000	1594.555	80		32-141	1.27	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1420.549	71		28-130	1.27	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1317.121	66		23-140	1.05	1.069
13C-OCDD	4000	2115.434	53		17-157	0.90	1.152
13C-2,3,7,8-TCDF	2000	1443.901	72		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1765.929	88		24-185	1.59	1.131
13C-2,3,4,7,8-PeCDF	2000	1689.735	84		21-178	1.59	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1420.703	71		26-152	0.53	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1390.079	70		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1548.109	77		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1515.341	76		28-136	0.54	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1422.043	71		28-143	0.45	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1787.742	89		26-138	0.46	1.080
37Cl-2,3,7,8-TCDD	800	697.653	87		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-06	**Units:**	ng/Kg
Lab Code:	E0800847-006	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.457**	0.0507	1	1	0.457
1,2,3,7,8-PeCDD	**0.560**	0.114	1	0.5	0.280
1,2,3,4,7,8-HxCDD	**0.668**	0.225	1	0.10	0.0668
1,2,3,6,7,8-HxCDD	**5.11**	0.287	1	0.10	0.511
1,2,3,7,8,9-HxCDD	**2.83**	0.239	1	0.10	0.283
1,2,3,4,6,7,8-HpCDD	**128**	0.354	1	0.01	1.28
OCDD	**1130**	0.653	1	0.001	1.13
2,3,7,8-TCDF	**1.14**	0.614	1	0.1	0.114
1,2,3,7,8-PeCDF	**0.345**	0.185	1	0.05	0.0173
2,3,4,7,8-PeCDF	**0.648**	0.182	1	0.5	0.324
1,2,3,4,7,8-HxCDF	**1.46**	0.105	1	0.1	0.146
1,2,3,6,7,8-HxCDF	**0.790**	0.105	1	0.1	0.0790
1,2,3,7,8,9-HxCDF	ND	0.110	1	0.1	
2,3,4,6,7,8-HxCDF	**1.63**	0.104	1	0.1	0.163
1,2,3,4,6,7,8-HpCDF	**27.2**	0.683	1	0.01	0.272
1,2,3,4,7,8,9-HpCDF	**1.00**	0.722	1	0.01	0.0100
OCDF	**83.8**	0.244	1	0.001	0.0838
		Total TEQ			5.22

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-06RE	**Units:**	ng/Kg
Lab Code:	E0800847-006	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 14:30:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.062g	**Instrument Name:**	E-HRMS-70
Percent Solids:	29.6	**GC Column:**	DB-225
Data File Name:	C15341#8	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**1.14**	JK	0.614	3.05	0.96	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1247.542	62		24-169	0.77	1.054
37Cl-2,3,7,8-TCDD	800	703.344	88		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-07	**Units:**	ng/Kg
Lab Code:	E0800847-007	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 19:54:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.250g	**Instrument Name:**	E-HRMS-02
Percent Solids:	50.4	**GC Column:**	DB-5
Data File Name:	U217453	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.567**	J	0.0825	1.94	0.66	1.001	1
1,2,3,7,8-PeCDD	**1.29**	J	0.0736	9.68	1.75	1.000	1
1,2,3,4,7,8-HxCDD	**1.74**	J	0.669	9.68	1.21	1.000	1
1,2,3,6,7,8-HxCDD	**13.2**		0.927	9.68	1.26	1.000	1
1,2,3,7,8,9-HxCDD	**6.13**	J	0.738	9.68	1.25	1.008	1
1,2,3,4,6,7,8-HpCDD	**278**	B	0.575	9.68	1.05	1.000	1
OCDD	**2130**	B	0.744	19.4	0.89	1.000	1
2,3,7,8-TCDF	**5.89**	C	0.0538	1.94	0.77	1.002	1
1,2,3,7,8-PeCDF	**1.73**	J	0.338	9.68	1.51	1.000	1
2,3,4,7,8-PeCDF	**2.49**	J	0.333	9.68	1.65	1.001	1
1,2,3,4,7,8-HxCDF	**8.80**	J	0.0844	9.68	1.24	1.000	1
1,2,3,6,7,8-HxCDF	**2.99**	J	0.0875	9.68	1.09	1.000	1
1,2,3,7,8,9-HxCDF	**0.154**	JK	0.0941	9.68	1.03	1.000	1
2,3,4,6,7,8-HxCDF	**4.79**	J	0.0914	9.68	1.21	1.000	1
1,2,3,4,6,7,8-HpCDF	**94.2**	B	0.285	9.68	1.03	1.000	1
1,2,3,4,7,8,9-HpCDF	**2.82**	J	0.272	9.68	1.05	1.000	1
OCDF	**236**	B	0.460	19.4	0.87	1.004	1
Total Tetra-Dioxins	**6.38**		0.0825	1.94	0.82		1
Total Penta-Dioxins	**10.5**		0.0736	9.68	1.36		1
Total Hexa-Dioxins	**105**		0.669	9.68	1.23		1
Total Hepta-Dioxins	**603**		0.575	9.68	1.05		1
Total Tetra-Furans	**48.1**		0.0538	1.94	0.71		1
Total Penta-Furans	**55.6**		0.333	9.68	1.51		1
Total Hexa-Furans	**105**		0.0844	9.68	1.27		1
Total Hepta-Furans	**243**		0.285	9.68	1.03		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-07	**Units:**	Percent
Lab Code:	E0800847-007	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 19:54:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.250g	**Instrument Name:**	E-HRMS-02
Percent Solids:	50.4	**GC Column:**	DB-5
Data File Name:	U217453	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1805.691	90		25-164	0.78	1.008
13C-1,2,3,7,8-PeCDD	2000	1741.381	87		25-181	1.56	1.171
13C-1,2,3,4,7,8-HxCDD	2000	1685.245	84		32-141	1.29	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1419.847	71		28-130	1.29	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1255.763	63		23-140	1.04	1.070
13C-OCDD	4000	1923.024	48		17-157	0.91	1.152
13C-2,3,7,8-TCDF	2000	1635.023	82		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1773.442	89		24-185	1.61	1.133
13C-2,3,4,7,8-PeCDF	2000	1678.993	84		21-178	1.57	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1521.095	76		26-152	0.53	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1518.615	76		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1536.473	77		29-147	0.54	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1530.259	77		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1242.140	62		28-143	0.45	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1623.542	81		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	761.096	95		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-07	**Units:**	ng/Kg
Lab Code:	E0800847-007	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.567**	0.0825	1	1	0.567
1,2,3,7,8-PeCDD	**1.29**	0.0736	1	0.5	0.645
1,2,3,4,7,8-HxCDD	**1.74**	0.669	1	0.10	0.174
1,2,3,6,7,8-HxCDD	**13.2**	0.927	1	0.10	1.32
1,2,3,7,8,9-HxCDD	**6.13**	0.738	1	0.10	0.613
1,2,3,4,6,7,8-HpCDD	**278**	0.575	1	0.01	2.78
OCDD	**2130**	0.744	1	0.001	2.13
2,3,7,8-TCDF	**3.78**	1.39	1	0.1	0.378
1,2,3,7,8-PeCDF	**1.73**	0.338	1	0.05	0.0865
2,3,4,7,8-PeCDF	**2.49**	0.333	1	0.5	1.25
1,2,3,4,7,8-HxCDF	**8.80**	0.0844	1	0.1	0.880
1,2,3,6,7,8-HxCDF	**2.99**	0.0875	1	0.1	0.299
1,2,3,7,8,9-HxCDF	**0.154**	0.0941	1	0.1	0.0154
2,3,4,6,7,8-HxCDF	**4.79**	0.0914	1	0.1	0.479
1,2,3,4,6,7,8-HpCDF	**94.2**	0.285	1	0.01	0.942
1,2,3,4,7,8,9-HpCDF	**2.82**	0.272	1	0.01	0.0282
OCDF	**236**	0.460	1	0.001	0.236
		Total TEQ			12.8

EPA TEFs, ND = 0

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-07RE	**Units:**	ng/Kg
Lab Code:	E0800847-007	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 15:03:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.250g	**Instrument Name:**	E-HRMS-70
Percent Solids:		**GC Column:**	DB-225
Data File Name:	C15341#9	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**3.78**		1.39	1.94	0.78	1.002	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1435.005	72		24-169	0.77	1.053
37Cl-2,3,7,8-TCDD	800	763.419	95		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-08	**Units:**	ng/Kg
Lab Code:	E0800847-008	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 20:41:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	12.693g	**Instrument Name:**	E-HRMS-02
Percent Solids:	47.7	**GC Column:**	DB-5
Data File Name:	U217454	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.198**	JK	0.0530	1.65	0.61	1.000	1
1,2,3,7,8-PeCDD	**0.388**	J	0.0796	8.26	1.42	1.000	1
1,2,3,4,7,8-HxCDD	**0.358**	JK	0.293	8.26	1.72	1.000	1
1,2,3,6,7,8-HxCDD	**2.96**	J	0.414	8.26	1.20	1.000	1
1,2,3,7,8,9-HxCDD	**1.25**	J	0.326	8.26	1.25	1.008	1
1,2,3,4,6,7,8-HpCDD	**61.4**	B	0.192	8.26	1.03	1.000	1
OCDD	**484**	B	0.291	16.5	0.90	1.000	1
2,3,7,8-TCDF	**1.63**	CJ	0.0362	1.65	0.85	1.001	1
1,2,3,7,8-PeCDF	**0.464**	J	0.0702	8.26	1.67	1.001	1
2,3,4,7,8-PeCDF	**0.835**	J	0.0705	8.26	1.67	1.001	1
1,2,3,4,7,8-HxCDF	**6.01**	J	0.0651	8.26	1.18	1.000	1
1,2,3,6,7,8-HxCDF	**1.35**	J	0.0634	8.26	1.33	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.0733	8.26			1
2,3,4,6,7,8-HxCDF	**1.50**	J	0.0699	8.26	1.29	1.000	1
1,2,3,4,6,7,8-HpCDF	**21.5**	B	0.153	8.26	1.05	1.000	1
1,2,3,4,7,8,9-HpCDF	**3.60**	J	0.147	8.26	1.07	1.000	1
OCDF	**62.1**	B	0.175	16.5	0.87	1.004	1
Total Tetra-Dioxins	**1.67**		0.0530	1.65	0.77		1
Total Penta-Dioxins	**2.71**	J	0.0796	8.26	1.45		1
Total Hexa-Dioxins	**23.4**		0.293	8.26	1.20		1
Total Hepta-Dioxins	**131**		0.192	8.26	1.08		1
Total Tetra-Furans	**9.08**		0.0362	1.65	0.79		1
Total Penta-Furans	**14.7**		0.0705	8.26	1.53		1
Total Hexa-Furans	**29.6**		0.0651	8.26	1.17		1
Total Hepta-Furans	**56.1**		0.153	8.26	1.05		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-08	**Units:**	Percent
Lab Code:	E0800847-008	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 20:41:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	12.693g	**Instrument Name:**	E-HRMS-02
Percent Solids:	47.7	**GC Column:**	DB-5
Data File Name:	U217454	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1774.562	89		25-164	0.78	1.008
13C-1,2,3,7,8-PeCDD	2000	1654.161	83		25-181	1.55	1.170
13C-1,2,3,4,7,8-HxCDD	2000	1588.780	79		32-141	1.29	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1292.183	65		28-130	1.28	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1167.714	58		23-140	1.06	1.069
13C-OCDD	4000	1681.489	42		17-157	0.90	1.152
13C-2,3,7,8-TCDF	2000	1542.490	77		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1727.467	86		24-185	1.61	1.132
13C-2,3,4,7,8-PeCDF	2000	1624.423	81		21-178	1.55	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1510.229	76		26-152	0.54	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1504.757	75		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1517.500	76		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1450.666	73		28-136	0.54	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1191.246	60		28-143	0.45	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1579.045	79		26-138	0.46	1.081
37Cl-2,3,7,8-TCDD	800	705.170	88		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-08	**Units:**	ng/Kg
Lab Code:	E0800847-008	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.198**	0.0530	1	1	0.198
1,2,3,7,8-PeCDD	**0.388**	0.0796	1	0.5	0.194
1,2,3,4,7,8-HxCDD	**0.358**	0.293	1	0.10	0.0358
1,2,3,6,7,8-HxCDD	**2.96**	0.414	1	0.10	0.296
1,2,3,7,8,9-HxCDD	**1.25**	0.326	1	0.10	0.125
1,2,3,4,6,7,8-HpCDD	**61.4**	0.192	1	0.01	0.614
OCDD	**484**	0.291	1	0.001	0.484
2,3,7,8-TCDF	**1.07**	0.430	1	0.1	0.107
1,2,3,7,8-PeCDF	**0.464**	0.0702	1	0.05	0.0232
2,3,4,7,8-PeCDF	**0.835**	0.0705	1	0.5	0.418
1,2,3,4,7,8-HxCDF	**6.01**	0.0651	1	0.1	0.601
1,2,3,6,7,8-HxCDF	**1.35**	0.0634	1	0.1	0.135
1,2,3,7,8,9-HxCDF	ND	0.0733	1	0.1	
2,3,4,6,7,8-HxCDF	**1.50**	0.0699	1	0.1	0.150
1,2,3,4,6,7,8-HpCDF	**21.5**	0.153	1	0.01	0.215
1,2,3,4,7,8,9-HpCDF	**3.60**	0.147	1	0.01	0.0360
OCDF	**62.1**	0.175	1	0.001	0.0621
		Total TEQ			3.69

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-08RE	**Units:**	ng/Kg
Lab Code:	E0800847-008	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 15:35:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	12.693g	**Instrument Name:**	E-HRMS-70
Percent Solids:		**GC Column:**	DB-225
Data File Name:	C15341#10	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**1.07**	J	0.430	1.65	0.71	1.000	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1425.185	71		24-169	0.77	1.054
37Cl-2,3,7,8-TCDD	800	746.811	93		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-09	**Units:**	ng/Kg
Lab Code:	E0800847-009	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 21:29:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.226g	**Instrument Name:**	E-HRMS-02
Percent Solids:	57.4	**GC Column:**	DB-5
Data File Name:	U217455	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0596	1.70			1
1,2,3,7,8-PeCDD	**0.134**	JK	0.0617	8.52	2.23	1.000	1
1,2,3,4,7,8-HxCDD	**0.172**	J	0.169	8.52	1.32	1.000	1
1,2,3,6,7,8-HxCDD	**1.14**	J	0.236	8.52	1.19	1.000	1
1,2,3,7,8,9-HxCDD	**0.735**	J	0.187	8.52	1.30	1.008	1
1,2,3,4,6,7,8-HpCDD	**23.9**	B	0.101	8.52	1.03	1.000	1
OCDD	**206**	B	0.224	17.0	0.91	1.000	1
2,3,7,8-TCDF	**1.00**	CJ	0.0612	1.70	0.75	1.001	1
1,2,3,7,8-PeCDF	**0.239**	J	0.0957	8.52	1.41	1.000	1
2,3,4,7,8-PeCDF	**0.367**	J	0.0963	8.52	1.56	1.001	1
1,2,3,4,7,8-HxCDF	**0.716**	J	0.162	8.52	1.18	1.000	1
1,2,3,6,7,8-HxCDF	**0.285**	JK	0.157	8.52	0.97	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.183	8.52			1
2,3,4,6,7,8-HxCDF	**0.691**	J	0.174	8.52	1.19	1.000	1
1,2,3,4,6,7,8-HpCDF	**6.31**	BJ	0.0618	8.52	1.05	1.000	1
1,2,3,4,7,8,9-HpCDF	**0.252**	J	0.0581	8.52	0.92	1.000	1
OCDF	**15.2**	BJ	0.155	17.0	0.86	1.004	1
Total Tetra-Dioxins	**0.513**	J	0.0596	1.70	0.78		1
Total Penta-Dioxins	**1.31**	J	0.0617	8.52	1.32		1
Total Hexa-Dioxins	**12.8**		0.169	8.52	1.24		1
Total Hepta-Dioxins	**64.4**		0.101	8.52	1.02		1
Total Tetra-Furans	**4.61**		0.0612	1.70	0.79		1
Total Penta-Furans	**5.42**	J	0.0963	8.52	1.57		1
Total Hexa-Furans	**8.17**	J	0.162	8.52	1.16		1
Total Hepta-Furans	**16.2**		0.0618	8.52	1.05		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-09	**Units:**	Percent
Lab Code:	E0800847-009	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 21:29:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.226g	**Instrument Name:**	E-HRMS-02
Percent Solids:	57.4	**GC Column:**	DB-5
Data File Name:	U217455	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1802.411	90		25-164	0.82	1.008
13C-1,2,3,7,8-PeCDD	2000	1675.047	84		25-181	1.57	1.171
13C-1,2,3,4,7,8-HxCDD	2000	1601.790	80		32-141	1.24	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1309.020	65		28-130	1.22	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1248.366	62		23-140	1.01	1.070
13C-OCDD	4000	1826.376	46		17-157	0.92	1.152
13C-2,3,7,8-TCDF	2000	1551.434	78		24-169	0.82	0.979
13C-1,2,3,7,8-PeCDF	2000	1742.234	87		24-185	1.64	1.133
13C-2,3,4,7,8-PeCDF	2000	1612.195	81		21-178	1.56	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1495.625	75		26-152	0.53	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1496.460	75		26-123	0.55	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1457.949	73		29-147	0.55	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1470.031	74		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1204.501	60		28-143	0.47	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1634.472	82		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	749.980	94		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-09	**Units:**	ng/Kg
Lab Code:	E0800847-009	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.0596	1	1	
1,2,3,7,8-PeCDD	**0.134**	0.0617	1	0.5	0.0670
1,2,3,4,7,8-HxCDD	**0.172**	0.169	1	0.10	0.0172
1,2,3,6,7,8-HxCDD	**1.14**	0.236	1	0.10	0.114
1,2,3,7,8,9-HxCDD	**0.735**	0.187	1	0.10	0.0735
1,2,3,4,6,7,8-HpCDD	**23.9**	0.101	1	0.01	0.239
OCDD	**206**	0.224	1	0.001	0.206
2,3,7,8-TCDF	**0.627**	0.331	1	0.1	0.0627
1,2,3,7,8-PeCDF	**0.239**	0.0957	1	0.05	0.0120
2,3,4,7,8-PeCDF	**0.367**	0.0963	1	0.5	0.184
1,2,3,4,7,8-HxCDF	**0.716**	0.162	1	0.1	0.0716
1,2,3,6,7,8-HxCDF	**0.285**	0.157	1	0.1	0.0285
1,2,3,7,8,9-HxCDF	ND	0.183	1	0.1	
2,3,4,6,7,8-HxCDF	**0.691**	0.174	1	0.1	0.0691
1,2,3,4,6,7,8-HpCDF	**6.31**	0.0618	1	0.01	0.0631
1,2,3,4,7,8,9-HpCDF	**0.252**	0.0581	1	0.01	0.00252
OCDF	**15.2**	0.155	1	0.001	0.0152
		Total TEQ			1.23

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-09RE	**Units:**	ng/Kg
Lab Code:	E0800847-009	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 16:08:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.226g	**Instrument Name:**	E-HRMS-70
Percent Solids:		**GC Column:**	DB-225
Data File Name:	C15341#11	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**0.627**	JK	0.331	1.70	0.90	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1403.143	70		24-169	0.77	1.053
37Cl-2,3,7,8-TCDD	800	744.038	93		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-10	**Units:**	ng/Kg
Lab Code:	E0800847-010	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 22:16:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.982g	**Instrument Name:**	E-HRMS-02
Percent Solids:	46.5	**GC Column:**	DB-5
Data File Name:	U217456	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.594**	JK	0.0736	1.79	0.62	1.000	1
1,2,3,7,8-PeCDD	**1.47**	J	0.0592	8.97	1.58	1.000	1
1,2,3,4,7,8-HxCDD	**2.14**	J	0.575	8.97	1.40	1.000	1
1,2,3,6,7,8-HxCDD	**14.7**		0.804	8.97	1.27	1.000	1
1,2,3,7,8,9-HxCDD	**7.56**	J	0.636	8.97	1.29	1.008	1
1,2,3,4,6,7,8-HpCDD	**313**	B	0.349	8.97	1.08	1.000	1
OCDD	**2620**	B	0.887	17.9	0.90	1.000	1
2,3,7,8-TCDF	**5.30**	C	0.0495	1.79	0.76	1.001	1
1,2,3,7,8-PeCDF	**1.43**	J	0.124	8.97	1.42	1.000	1
2,3,4,7,8-PeCDF	**2.17**	J	0.120	8.97	1.55	1.001	1
1,2,3,4,7,8-HxCDF	**6.97**	J	0.105	8.97	1.20	1.000	1
1,2,3,6,7,8-HxCDF	**3.06**	J	0.110	8.97	1.26	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.119	8.97			1
2,3,4,6,7,8-HxCDF	**4.57**	J	0.112	8.97	1.25	1.000	1
1,2,3,4,6,7,8-HpCDF	**80.8**	B	0.312	8.97	1.04	1.000	1
1,2,3,4,7,8,9-HpCDF	**2.76**	J	0.312	8.97	1.05	1.000	1
OCDF	**197**	B	0.283	17.9	0.89	1.004	1
Total Tetra-Dioxins	**5.56**		0.0736	1.79	0.78		1
Total Penta-Dioxins	**20.0**		0.0592	8.97	1.33		1
Total Hexa-Dioxins	**135**		0.575	8.97	1.27		1
Total Hepta-Dioxins	**703**		0.349	8.97	1.06		1
Total Tetra-Furans	**37.4**		0.0495	1.79	0.80		1
Total Penta-Furans	**41.8**		0.120	8.97	1.54		1
Total Hexa-Furans	**89.6**		0.105	8.97	1.26		1
Total Hepta-Furans	**200**		0.312	8.97	1.04		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-10	**Units:**	Percent
Lab Code:	E0800847-010	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 22:16:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.982g	**Instrument Name:**	E-HRMS-02
Percent Solids:	46.5	**GC Column:**	DB-5
Data File Name:	U217456	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1732.225	87		25-164	0.79	1.009
13C-1,2,3,7,8-PeCDD	2000	1669.282	83		25-181	1.58	1.171
13C-1,2,3,4,7,8-HxCDD	2000	1701.466	85		32-141	1.29	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1363.560	68		28-130	1.16	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1218.939	61		23-140	1.07	1.070
13C-OCDD	4000	1750.987	44		17-157	0.92	1.152
13C-2,3,7,8-TCDF	2000	1455.011	73		24-169	0.79	0.979
13C-1,2,3,7,8-PeCDF	2000	1695.106	85		24-185	1.55	1.133
13C-2,3,4,7,8-PeCDF	2000	1614.553	81		21-178	1.61	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1491.276	75		26-152	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1489.408	74		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1567.389	78		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1491.890	75		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1230.839	62		28-143	0.46	1.046
13C-1,2,3,4,7,8,9-HpCDF	2000	1569.519	78		26-138	0.46	1.081
37Cl-2,3,7,8-TCDD	800	683.292	85		35-197	NA	1.009

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-10	**Units:**	ng/Kg
Lab Code:	E0800847-010	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.594**	0.0736	1	1	0.594
1,2,3,7,8-PeCDD	**1.47**	0.0592	1	0.5	0.735
1,2,3,4,7,8-HxCDD	**2.14**	0.575	1	0.10	0.214
1,2,3,6,7,8-HxCDD	**14.7**	0.804	1	0.10	1.47
1,2,3,7,8,9-HxCDD	**7.56**	0.636	1	0.10	0.756
1,2,3,4,6,7,8-HpCDD	**313**	0.349	1	0.01	3.13
OCDD	**2620**	0.887	1	0.001	2.62
2,3,7,8-TCDF	**3.76**	0.632	1	0.1	0.376
1,2,3,7,8-PeCDF	**1.43**	0.124	1	0.05	0.0715
2,3,4,7,8-PeCDF	**2.17**	0.120	1	0.5	1.09
1,2,3,4,7,8-HxCDF	**6.97**	0.105	1	0.1	0.697
1,2,3,6,7,8-HxCDF	**3.06**	0.110	1	0.1	0.306
1,2,3,7,8,9-HxCDF	ND	0.119	1	0.1	
2,3,4,6,7,8-HxCDF	**4.57**	0.112	1	0.1	0.457
1,2,3,4,6,7,8-HpCDF	**80.8**	0.312	1	0.01	0.808
1,2,3,4,7,8,9-HpCDF	**2.76**	0.312	1	0.01	0.0276
OCDF	**197**	0.283	1	0.001	0.197
		Total TEQ			13.5

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-10RE	**Units:**	ng/Kg
Lab Code:	E0800847-010	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 16:40:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.982g	**Instrument Name:**	E-HRMS-70
Percent Solids:		**GC Column:**	DB-225
Data File Name:	C15341#12	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**3.76**		0.632	1.79	0.76	1.000	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1280.236	64		24-169	0.76	1.054
37Cl-2,3,7,8-TCDD	800	679.350	85		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-11	**Units:**	ng/Kg
Lab Code:	E0800847-011	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 23:04:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.790g	**Instrument Name:**	E-HRMS-02
Percent Solids:	41.5	**GC Column:**	DB-5
Data File Name:	U217457	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.656**	J	0.0889	2.23	0.67	1.000	1
1,2,3,7,8-PeCDD	**1.35**	J	0.265	11.2	1.48	1.000	1
1,2,3,4,7,8-HxCDD	**2.26**	J	0.515	11.2	1.28	1.000	1
1,2,3,6,7,8-HxCDD	**13.5**		0.697	11.2	1.32	1.000	1
1,2,3,7,8,9-HxCDD	**7.42**	J	0.562	11.2	1.18	1.008	1
1,2,3,4,6,7,8-HpCDD	**313**	B	0.405	11.2	1.05	1.000	1
OCDD	**2960**	B	1.12	22.3	0.91	1.000	1
2,3,7,8-TCDF	**4.84**	C	0.0681	2.23	0.75	1.001	1
1,2,3,7,8-PeCDF	**1.39**	J	0.142	11.2	1.48	1.000	1
2,3,4,7,8-PeCDF	**1.99**	J	0.144	11.2	1.46	1.001	1
1,2,3,4,7,8-HxCDF	**7.15**	J	0.100	11.2	1.27	1.000	1
1,2,3,6,7,8-HxCDF	**2.76**	J	0.0989	11.2	1.21	1.000	1
1,2,3,7,8,9-HxCDF	**0.129**	J	0.114	11.2	1.27	1.000	1
2,3,4,6,7,8-HxCDF	**3.98**	J	0.104	11.2	1.34	1.000	1
1,2,3,4,6,7,8-HpCDF	**81.3**	B	0.363	11.2	1.04	1.000	1
1,2,3,4,7,8,9-HpCDF	**3.51**	J	0.360	11.2	1.04	1.000	1
OCDF	**212**	B	0.312	22.3	0.88	1.004	1
Total Tetra-Dioxins	**6.67**		0.0889	2.23	0.73		1
Total Penta-Dioxins	**8.85**	J	0.265	11.2	1.47		1
Total Hexa-Dioxins	**133**		0.515	11.2	1.26		1
Total Hepta-Dioxins	**684**		0.405	11.2	1.08		1
Total Tetra-Furans	**26.1**		0.0681	2.23	0.82		1
Total Penta-Furans	**38.0**		0.144	11.2	1.55		1
Total Hexa-Furans	**86.2**		0.100	11.2	1.21		1
Total Hepta-Furans	**202**		0.363	11.2	1.04		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-11	**Units:**	Percent
Lab Code:	E0800847-011	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 23:04:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.790g	**Instrument Name:**	E-HRMS-02
Percent Solids:	41.5	**GC Column:**	DB-5
Data File Name:	U217457	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1855.555	93		25-164	0.79	1.008
13C-1,2,3,7,8-PeCDD	2000	1720.371	86		25-181	1.59	1.170
13C-1,2,3,4,7,8-HxCDD	2000	1649.196	82		32-141	1.24	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1445.911	72		28-130	1.20	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1325.062	66		23-140	1.04	1.070
13C-OCDD	4000	1859.248	46		17-157	0.90	1.152
13C-2,3,7,8-TCDF	2000	1476.649	74		24-169	0.81	0.978
13C-1,2,3,7,8-PeCDF	2000	1729.270	86		24-185	1.64	1.132
13C-2,3,4,7,8-PeCDF	2000	1596.596	80		21-178	1.56	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1499.762	75		26-152	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1549.309	77		26-123	0.55	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1513.320	76		29-147	0.54	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1533.604	77		28-136	0.54	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1315.565	66		28-143	0.45	1.046
13C-1,2,3,4,7,8,9-HpCDF	2000	1680.708	84		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	727.943	91		35-197	NA	1.008

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-11	**Units:**	ng/Kg
Lab Code:	E0800847-011	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.656**	0.0889	1	1	0.656
1,2,3,7,8-PeCDD	**1.35**	0.265	1	0.5	0.675
1,2,3,4,7,8-HxCDD	**2.26**	0.515	1	0.10	0.226
1,2,3,6,7,8-HxCDD	**13.5**	0.697	1	0.10	1.35
1,2,3,7,8,9-HxCDD	**7.42**	0.562	1	0.10	0.742
1,2,3,4,6,7,8-HpCDD	**313**	0.405	1	0.01	3.13
OCDD	**2960**	1.12	1	0.001	2.96
2,3,7,8-TCDF	**3.37**	0.422	1	0.1	0.337
1,2,3,7,8-PeCDF	**1.39**	0.142	1	0.05	0.0695
2,3,4,7,8-PeCDF	**1.99**	0.144	1	0.5	0.995
1,2,3,4,7,8-HxCDF	**7.15**	0.100	1	0.1	0.715
1,2,3,6,7,8-HxCDF	**2.76**	0.0989	1	0.1	0.276
1,2,3,7,8,9-HxCDF	**0.129**	0.114	1	0.1	0.0129
2,3,4,6,7,8-HxCDF	**3.98**	0.104	1	0.1	0.398
1,2,3,4,6,7,8-HpCDF	**81.3**	0.363	1	0.01	0.813
1,2,3,4,7,8,9-HpCDF	**3.51**	0.360	1	0.01	0.0351
OCDF	**212**	0.312	1	0.001	0.212
		Total TEQ			13.6

EPA TEFs, ND = 0

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-11RE	**Units:**	ng/Kg
Lab Code:	E0800847-011	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 17:13:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.790g	**Instrument Name:**	E-HRMS-70
Percent Solids:		**GC Column:**	DB-225
Data File Name:	C15341#13	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**3.37**		0.422	2.23	0.82	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1483.419	74		24-169	0.78	1.054
37Cl-2,3,7,8-TCDD	800	733.753	92		35-197	NA	0.989

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-12	**Units:**	ng/Kg
Lab Code:	E0800847-012	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 23:52:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	14.399g	**Instrument Name:**	E-HRMS-02
Percent Solids:	53.7	**GC Column:**	DB-5
Data File Name:	U217458	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.183**	JK	0.0522	1.29	0.50	1.000	1
1,2,3,7,8-PeCDD	**0.472**	J	0.0673	6.47	1.38	1.000	1
1,2,3,4,7,8-HxCDD	**0.672**	J	0.236	6.47	1.11	1.000	1
1,2,3,6,7,8-HxCDD	**4.58**	J	0.331	6.47	1.23	1.000	1
1,2,3,7,8,9-HxCDD	**2.33**	J	0.261	6.47	1.17	1.008	1
1,2,3,4,6,7,8-HpCDD	**94.9**	B	0.154	6.47	1.04	1.000	1
OCDD	**759**	B	0.425	12.9	0.91	1.000	1
2,3,7,8-TCDF	**1.88**	C	0.0406	1.29	0.79	1.001	1
1,2,3,7,8-PeCDF	**0.482**	J	0.0610	6.47	1.32	1.001	1
2,3,4,7,8-PeCDF	**0.752**	J	0.0579	6.47	1.48	1.001	1
1,2,3,4,7,8-HxCDF	**1.90**	J	0.173	6.47	1.29	1.000	1
1,2,3,6,7,8-HxCDF	**0.868**	J	0.172	6.47	1.07	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.198	6.47			1
2,3,4,6,7,8-HxCDF	**1.39**	J	0.175	6.47	1.13	1.000	1
1,2,3,4,6,7,8-HpCDF	**22.6**	B	0.370	6.47	1.02	1.000	1
1,2,3,4,7,8,9-HpCDF	**0.834**	J	0.332	6.47	0.98	1.000	1
OCDF	**63.8**	B	0.145	12.9	0.87	1.004	1
Total Tetra-Dioxins	**1.24**	J	0.0522	1.29	0.73		1
Total Penta-Dioxins	**3.78**	J	0.0673	6.47	1.50		1
Total Hexa-Dioxins	**44.0**		0.236	6.47	1.25		1
Total Hepta-Dioxins	**214**		0.154	6.47	1.04		1
Total Tetra-Furans	**11.6**		0.0406	1.29	0.89		1
Total Penta-Furans	**13.1**		0.0579	6.47	1.66		1
Total Hexa-Furans	**27.2**		0.173	6.47	1.23		1
Total Hepta-Furans	**58.5**		0.370	6.47	1.02		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-12	**Units:**	Percent
Lab Code:	E0800847-012	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 23:52:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	14.399g	**Instrument Name:**	E-HRMS-02
Percent Solids:	53.7	**GC Column:**	DB-5
Data File Name:	U217458	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1700.554	85		25-164	0.78	1.008
13C-1,2,3,7,8-PeCDD	2000	1645.489	82		25-181	1.55	1.170
13C-1,2,3,4,7,8-HxCDD	2000	1609.613	80		32-141	1.25	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1246.196	62		28-130	1.22	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1160.506	58		23-140	1.06	1.070
13C-OCDD	4000	1519.659	38		17-157	0.90	1.152
13C-2,3,7,8-TCDF	2000	1461.213	73		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1660.679	83		24-185	1.61	1.132
13C-2,3,4,7,8-PeCDF	2000	1598.797	80		21-178	1.60	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1344.825	67		26-152	0.53	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1389.099	69		26-123	0.54	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1363.507	68		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1426.998	71		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1092.699	55		28-143	0.47	1.046
13C-1,2,3,4,7,8,9-HpCDF	2000	1585.836	79		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	673.182	84		35-197	NA	1.008

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-12	**Units:**	ng/Kg
Lab Code:	E0800847-012	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.183**	0.0522	1	1	0.183
1,2,3,7,8-PeCDD	**0.472**	0.0673	1	0.5	0.236
1,2,3,4,7,8-HxCDD	**0.672**	0.236	1	0.10	0.0672
1,2,3,6,7,8-HxCDD	**4.58**	0.331	1	0.10	0.458
1,2,3,7,8,9-HxCDD	**2.33**	0.261	1	0.10	0.233
1,2,3,4,6,7,8-HpCDD	**94.9**	0.154	1	0.01	0.949
OCDD	**759**	0.425	1	0.001	0.759
2,3,7,8-TCDF	**1.55**	0.403	1	0.1	0.155
1,2,3,7,8-PeCDF	**0.482**	0.0610	1	0.05	0.0241
2,3,4,7,8-PeCDF	**0.752**	0.0579	1	0.5	0.376
1,2,3,4,7,8-HxCDF	**1.90**	0.173	1	0.1	0.190
1,2,3,6,7,8-HxCDF	**0.868**	0.172	1	0.1	0.0868
1,2,3,7,8,9-HxCDF	ND	0.198	1	0.1	
2,3,4,6,7,8-HxCDF	**1.39**	0.175	1	0.1	0.139
1,2,3,4,6,7,8-HpCDF	**22.6**	0.370	1	0.01	0.226
1,2,3,4,7,8,9-HpCDF	**0.834**	0.332	1	0.01	0.00834
OCDF	**63.8**	0.145	1	0.001	0.0638
		Total TEQ			4.15

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-12RE	**Units:**	ng/Kg
Lab Code:	E0800847-012	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 17:46:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	14.399g	**Instrument Name:**	E-HRMS-70
Percent Solids:		**GC Column:**	DB-225
Data File Name:	C15341#14	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**1.55**		0.403	1.29	0.86	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1437.269	72		24-169	0.77	1.054
37Cl-2,3,7,8-TCDD	800	718.425	90		35-197	NA	0.989

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/Kg
Lab Code:	EQ0800380-01	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/9/08 12:26:00
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-01
Percent Solids:		**GC Column:**	DB-5
Data File Name:	U129751	**Blank File Name:**	U129751
ICAL Name:	05/02/08	**Cal Ver. File Name:**	U129750

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0434	1.00			1
1,2,3,7,8-PeCDD	ND	U	0.0516	5.00			1
1,2,3,4,7,8-HxCDD	ND	U	0.0493	5.00			1
1,2,3,6,7,8-HxCDD	ND	U	0.0687	5.00			1
1,2,3,7,8,9-HxCDD	ND	U	0.0550	5.00			1
1,2,3,4,6,7,8-HpCDD	**0.640**	JK	0.117	5.00	0.87	1.000	1
OCDD	**2.59**	J	0.215	10.0	0.88	1.000	1
2,3,7,8-TCDF	ND	U	0.0634	1.00			1
1,2,3,7,8-PeCDF	ND	U	0.0342	5.00			1
2,3,4,7,8-PeCDF	ND	U	0.0341	5.00			1
1,2,3,4,7,8-HxCDF	ND	U	0.0382	5.00			1
1,2,3,6,7,8-HxCDF	ND	U	0.0377	5.00			1
1,2,3,7,8,9-HxCDF	ND	U	0.0521	5.00			1
2,3,4,6,7,8-HxCDF	ND	U	0.0408	5.00			1
1,2,3,4,6,7,8-HpCDF	**0.218**	J	0.0378	5.00	0.91	1.000	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.0497	5.00			1
OCDF	**0.235**	JK	0.0893	10.0	1.14	1.003	1
Total Tetra-Dioxins	ND	U	0.0434	1.00			1
Total Penta-Dioxins	ND	U	0.0516	5.00			1
Total Hexa-Dioxins	ND	U	0.0493	5.00			1
Total Hepta-Dioxins	**0.662**	J	0.117	5.00	1.07		1
Total Tetra-Furans	ND	U	0.0634	1.00			1
Total Penta-Furans	ND	U	0.0341	5.00			1
Total Hexa-Furans	ND	U	0.0382	5.00			1
Total Hepta-Furans	**0.218**	J	0.0378	5.00	0.91		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ0800380-01	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/9/08 12:26:00
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-01
Percent Solids:		**GC Column:**	DB-5
Data File Name:	U129751	**Blank File Name:**	U129751
ICAL Name:	05/02/08	**Cal Ver. File Name:**	U129750

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1150.005	58		25-164	0.78	1.009
13C-1,2,3,7,8-PeCDD	2000	1261.610	63		25-181	1.56	1.175
13C-1,2,3,4,7,8-HxCDD	2000	1738.027	87		32-141	1.25	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1459.612	73		28-130	1.28	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1474.718	74		23-140	1.05	1.067
13C-OCDD	4000	2272.133	57		17-157	0.90	1.145
13C-2,3,7,8-TCDF	2000	910.033	46		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1229.167	61		24-185	1.57	1.135
13C-2,3,4,7,8-PeCDF	2000	1128.191	56		21-178	1.57	1.162
13C-1,2,3,4,7,8-HxCDF	2000	1490.125	75		26-152	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1507.883	75		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1422.302	71		29-147	0.51	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1513.665	76		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1506.990	75		28-143	0.45	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1703.963	85		26-138	0.45	1.078
37Cl-2,3,7,8-TCDD	800	454.796	57		35-197	NA	1.009

Comments:

Columbia Analytical Services INC

Accuracy and Precision

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Client: Resource Laboratories
Project: Dioxins & Furans in Soil/15079
Sample Matrix: Soil

Service Request: E0800847
Date Analyzed: 09/09/2008

Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Sample Name: Lab Control Sample
Lab Code: EQ0800380-02

Units: ng/Kg
Basis: Dry

Analytical Method: 1613B
Prep Method: Method

Extraction Lot: 73429

Analyte Name	Lab Control Sample Result	Lab Control Sample Expected	Lab Control Sample % Rec	Duplicate Lab Control Sample Result	Duplicate Lab Control Sample Expected	Duplicate Lab Control Sample % Rec	% Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD	22.9	20.0	114	23.6	20.0	118	67 - 158	3	50
1,2,3,7,8-PeCDD	100	100	100	102	100	102	70 - 142	2	50
1,2,3,4,7,8-HxCDD	80.7	100	81	82.9	100	83	70 - 164	2	50
1,2,3,6,7,8-HxCDD	109	100	109	112	100	112	76 - 134	3	50
1,2,3,7,8,9-HxCDD	96.2	100	96	102	100	102	64 - 162	6	50
1,2,3,4,6,7,8-HpCDD	98.9	100	99	100	100	100	70 - 140	1	50
OCDD	211	200	106	217	200	109	78 - 144	3	50
2,3,7,8-TCDF	20.1	20.0	101	20.5	20.0	103	75 - 158	2	50
1,2,3,7,8-PeCDF	104	100	104	105	100	105	80 - 134	1	50
2,3,4,7,8-PeCDF	103	100	103	107	100	107	68 - 160	4	50
1,2,3,4,7,8-HxCDF	106	100	106	110	100	110	72 - 134	4	50
1,2,3,6,7,8-HxCDF	107	100	107	109	100	109	84 - 130	2	50
1,2,3,7,8,9-HxCDF	86.4	100	86	89.0	100	89	78 - 130	3	50
2,3,4,6,7,8-HxCDF	96.4	100	96	100	100	100	70 - 156	4	50
1,2,3,4,6,7,8-HpCDF	101	100	101	103	100	103	82 - 132	2	50
1,2,3,4,7,8,9-HpCDF	84.8	100	85	85.8	100	86	78 - 138	1	50
OCDF	239	200	120	242	200	121	63 - 170	1	50

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	ng/Kg
Lab Code:	EQ0800380-02	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/9/08 14:38:00
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-02
Percent Solids:		**GC Column:**	DB-5
Data File Name:	U217430	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217427

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**22.9**		0.0788	1.00	0.79	1.001	1
1,2,3,7,8-PeCDD	**100**		0.0666	5.00	1.58	1.000	1
1,2,3,4,7,8-HxCDD	**80.7**		0.0566	5.00	1.27	1.000	1
1,2,3,6,7,8-HxCDD	**109**		0.0757	5.00	1.25	1.000	1
1,2,3,7,8,9-HxCDD	**96.2**		0.0614	5.00	1.26	1.008	1
1,2,3,4,6,7,8-HpCDD	**98.9**		0.0486	5.00	1.08	1.000	1
OCDD	**211**		0.103	10.0	0.90	1.000	1
2,3,7,8-TCDF	**20.1**		0.0607	1.00	0.79	1.001	1
1,2,3,7,8-PeCDF	**104**		0.0514	5.00	1.60	1.001	1
2,3,4,7,8-PeCDF	**103**		0.0517	5.00	1.57	1.001	1
1,2,3,4,7,8-HxCDF	**106**		0.0466	5.00	1.25	1.000	1
1,2,3,6,7,8-HxCDF	**107**		0.0486	5.00	1.26	1.000	1
1,2,3,7,8,9-HxCDF	**86.4**		0.0713	5.00	1.25	1.000	1
2,3,4,6,7,8-HxCDF	**96.4**		0.0520	5.00	1.27	1.000	1
1,2,3,4,6,7,8-HpCDF	**101**		0.0702	5.00	1.06	1.000	1
1,2,3,4,7,8,9-HpCDF	**84.8**		0.0791	5.00	1.05	1.000	1
OCDF	**239**		0.0977	10.0	0.90	1.004	1
Total Tetra-Dioxins	**22.9**		0.0788	1.00	0.79		1
Total Penta-Dioxins	**100**		0.0666	5.00	1.58		1
Total Hexa-Dioxins	**286**		0.0566	5.00	1.27		1
Total Hepta-Dioxins	**99.5**		0.0486	5.00	0.93		1
Total Tetra-Furans	**20.5**		0.0607	1.00	0.73		1
Total Penta-Furans	**211**		0.0517	5.00	1.33		1
Total Hexa-Furans	**396**		0.0466	5.00	1.25		1
Total Hepta-Furans	**185**		0.0702	5.00	1.06		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	EQ0800380-02	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/9/08 14:38:00
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-02
Percent Solids:		**GC Column:**	DB-5
Data File Name:	U217430	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217427

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1489.312	74		25-164	0.80	1.008
13C-1,2,3,7,8-PeCDD	2000	1825.932	91		25-181	1.59	1.169
13C-1,2,3,4,7,8-HxCDD	2000	1553.797	78		32-141	1.27	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1353.461	68		28-130	1.27	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1347.104	67		23-140	1.05	1.069
13C-OCDD	4000	2417.410	60		17-157	0.90	1.152
13C-2,3,7,8-TCDF	2000	1353.586	68		24-169	0.79	0.979
13C-1,2,3,7,8-PeCDF	2000	2016.829	101		24-185	1.57	1.131
13C-2,3,4,7,8-PeCDF	2000	1884.591	94		21-178	1.60	1.157
13C-1,2,3,4,7,8-HxCDF	2000	1620.700	81		26-152	0.53	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1639.085	82		26-123	0.54	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1290.610	65		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1629.728	81		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1574.411	79		28-143	0.46	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1767.730	88		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	619.483	77		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Lab Control Sample Dup	**Units:**	ng/Kg
Lab Code:	EQ0800380-03	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/9/08 15:26:00
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-02
Percent Solids:		**GC Column:**	DB-5
Data File Name:	U217431	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217427

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**23.6**		0.0600	1.00	0.76	1.001	1
1,2,3,7,8-PeCDD	**102**		0.0657	5.00	1.57	1.000	1
1,2,3,4,7,8-HxCDD	**82.9**		0.0532	5.00	1.24	1.000	1
1,2,3,6,7,8-HxCDD	**112**		0.0731	5.00	1.28	1.000	1
1,2,3,7,8,9-HxCDD	**102**		0.0584	5.00	1.27	1.008	1
1,2,3,4,6,7,8-HpCDD	**100**		0.0562	5.00	1.04	1.000	1
OCDD	**217**		0.137	10.0	0.89	1.000	1
2,3,7,8-TCDF	**20.5**		0.0686	1.00	0.79	1.001	1
1,2,3,7,8-PeCDF	**105**		0.0383	5.00	1.60	1.001	1
2,3,4,7,8-PeCDF	**107**		0.0387	5.00	1.60	1.000	1
1,2,3,4,7,8-HxCDF	**110**		0.0408	5.00	1.25	1.000	1
1,2,3,6,7,8-HxCDF	**109**		0.0393	5.00	1.27	1.000	1
1,2,3,7,8,9-HxCDF	**89.0**		0.0586	5.00	1.26	1.000	1
2,3,4,6,7,8-HxCDF	**100**		0.0423	5.00	1.28	1.000	1
1,2,3,4,6,7,8-HpCDF	**103**		0.0822	5.00	1.05	1.000	1
1,2,3,4,7,8,9-HpCDF	**85.8**		0.0936	5.00	1.05	1.000	1
OCDF	**242**		0.0878	10.0	0.91	1.004	1
Total Tetra-Dioxins	**23.6**		0.0600	1.00	0.76		1
Total Penta-Dioxins	**102**		0.0657	5.00	1.57		1
Total Hexa-Dioxins	**297**		0.0532	5.00	1.24		1
Total Hepta-Dioxins	**100**		0.0562	5.00	1.04		1
Total Tetra-Furans	**21.1**		0.0686	1.00	0.85		1
Total Penta-Furans	**214**		0.0387	5.00	1.44		1
Total Hexa-Furans	**408**		0.0408	5.00	1.25		1
Total Hepta-Furans	**189**		0.0822	5.00	1.05		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Lab Control Sample Dup	**Units:**	Percent
Lab Code:	EQ0800380-03	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/9/08 15:26:00
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-02
Percent Solids:		**GC Column:**	DB-5
Data File Name:	U217431	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217427

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1594.188	80		25-164	0.79	1.008
13C-1,2,3,7,8-PeCDD	2000	1945.528	97		25-181	1.57	1.169
13C-1,2,3,4,7,8-HxCDD	2000	1666.771	83		32-141	1.25	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1392.107	70		28-130	1.26	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1419.796	71		23-140	1.06	1.069
13C-OCDD	4000	2543.971	64		17-157	0.91	1.152
13C-2,3,7,8-TCDF	2000	1493.541	75		24-169	0.80	0.979
13C-1,2,3,7,8-PeCDF	2000	2185.467	109		24-185	1.58	1.131
13C-2,3,4,7,8-PeCDF	2000	1997.733	100		21-178	1.60	1.157
13C-1,2,3,4,7,8-HxCDF	2000	1668.706	83		26-152	0.55	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1671.187	84		26-123	0.55	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1424.371	71		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1694.571	85		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1617.670	81		28-143	0.46	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1842.506	92		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	656.622	82		35-197	NA	1.009

Comments:

USEPA, ITD

CAS, INC.
2378-TCDF ANALYSIS DATA SHEET
Use for Sample and Blank Results

CLIENT ID
INST. BLANK

Lab Name: Columbia Analytical Services

Episode No.:

Client Name:

Lab Sample ID: INST. BLANK

Matrix (aqueous/solid/leachate):

Sample Wt/Vol: g or mL:

Sample Receipt Date:

Initial Calibration Date: 05/30/08

Ext. Date:

Instrument ID: 70S

Analysis Date: 10-SEP-08 Time: 11:22:46

GC Column ID: DB-225

Ext. Vol(ul): 20.0

Sample Data Filename: C15338#3

Inj. Vol(ul): 1.0

Blank Data Filename: C15338#3

Dilution Factor: 1

Cal. Ver. Data Filename: C15338#2

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Solids(Lipid):

ANALYTE	CONCENTRATION FOUND(1)	DETECTION LIMIT	Q	ION ABUND. RATIO	RRT	TEF
2,3,7,8-TCDF	*	0.346	U	*	*	*

INT. STANDARD	SPIKE CONCENT.(pg)	CONCENT. FOUND(pg)	RECOV. %	ION ABUND. RATIO	RRT
13C-2,3,7,8-TCDF	2000	932.98	46.65	0.75	1.05
CLEANUP STANDARD					
37Cl-2,3,7,8-TCDD	800	482.81	60.35		0.99

(1)'*' indicates non-detected.

TCDFF1

USEPA, ITD

CAS, INC.
2378-TCDF ANALYSIS DATA SHEET
Use for Sample and Blank Results

CLIENT ID
INST. BLANK

Lab Name: Columbia Analytical Services

Episode No.:

Client Name:

Lab Sample ID: INST. BLANK

Matrix (aqueous/solid/leachate):

Sample Wt/Vol: g or mL:

Sample Receipt Date:

Initial Calibration Date: 05/30/08

Ext. Date:

Instrument ID: 70S

Analysis Date: 11-SEP-08 Time: 11:47:03

GC Column ID: DB-225

Ext. Vol(ul): 20.0

Sample Data Filename: C15341#3

Inj. Vol(ul): 1.0

Blank Data Filename: C15341#3

Dilution Factor: 1

Cal. Ver. Data Filename: C15341#2

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Solids(Lipid):

ANALYTE	CONCENTRATION FOUND(1)	DETECTION LIMIT	Q	ION ABUND. RATIO	RRT	TEF
2,3,7,8-TCDF	*	0.219	U	*	*	*

INT. STANDARD	SPIKE CONCENT.(pg)	CONCENT. FOUND(pg)	RECOV. %	ION ABUND. RATIO	RRT
13C-2,3,7,8-TCDF	2000	1159.00	57.95	0.77	1.05
CLEANUP STANDARD					
37Cl-2,3,7,8-TCDD	800	586.87	73.36		0.99

(1)'*' indicates non-detected.

TCDFF1

USEPA, ITD

CAS, INC.
2378-TCDF ANALYSIS DATA SHEET
Use for Sample and Blank Results

CLIENT ID
INST. BLANK

Lab Name: Columbia Analytical Services

Episode No.:

Client Name:

Lab Sample ID: INST. BLANK

Matrix (aqueous/solid/leachate):

Sample Wt/Vol: g or mL:

Sample Receipt Date:

Initial Calibration Date: 05/30/08

Ext. Date:

Instrument ID: 70S

Analysis Date: 17-SEP-08 Time: 11:18:27

GC Column ID: DB-225

Ext. Vol(ul): 20.0

Sample Data Filename: C15352#2

Inj. Vol(ul): 1.0

Blank Data Filename: C15352#2

Dilution Factor: 1

Cal. Ver. Data Filename: C15352#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Solids(Lipid):

ANALYTE	CONCENTRATION FOUND(1)	DETECTION LIMIT	Q	ION ABUND. RATIO	RRT	TEF
2,3,7,8-TCDF	*	0.263	U	*	*	*

INT. STANDARD	SPIKE CONCENT.(pg)	CONCENT. FOUND(pg)	RECOV. %	ION ABUND. RATIO	RRT
13C-2,3,7,8-TCDF	2000	1106.46	55.32	0.78	1.05
CLEANUP STANDARD					
37Cl-2,3,7,8-TCDD	800	589.54	73.69		0.99

(1)'*' indicates non-detected.

TCDFF1

Columbia Analytical Services INC

Chain of Custody

19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
www.caslab.com

An Employee Owned Company

Columbia

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Company Name: See Above
Phone #:
FAX #:
Company Address:
Report To: Sue Sylvester
Project Info: NH MA ME VT 15079
Invoice To:
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*
	15079-01	1		X								8/19/08	1155	
	-02												1235	
	-03												1355	
	-04											8/20/08	730	
	-05												815	
	-06												835	
	-07												1300	
	-08												1215	
	-09												1120	
	-10												1040	
	-11												1000	

ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only
☐ VPH MADEP ☐ MEGRO ☐ GRO
☐ VOC 524.2 ☐ VOC 524.2 NH List
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☐ 8270PAH ☐ 8270ABN ☐ 625
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals
☐ Total Metals-list ☐ Dissolved Metals-list
☐ Ammonia ☐ COD ☐ TKN
☐ T-Phosphorus ☐ Phenol
☐ Cyanide ☐ Sulfide
☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☐ Chloride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC
☐ TCLP Pesticide ☐ TCLP Herbicides (subcontract)
☐ Standard Drinking Water Test ☐ Bacteria P/A
☐ Dioxins 8290 16/13 per Cyan 8/29/08
Grab (G) or Composite (C)

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed: Std. TAT

* See www.reslabs.com for sample acceptance policy.

E-Mail Address: jane@reslabs.com
Quote #
PO #: 15079

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☒ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☐ YES ☐ NO
TEMPERATURE _____ °C

CUSTODY RECORD

Relinquished by Sampler:	Date	Time	Received by:	Date	Time
Relinquished by: Jane Cornu	8/20/08	1000	Received by: UPS	8/21/08	
Relinquished by: UPS			Received by Laboratory: Way Bill#:	8/27/08	1400

6°C

Columbia

RL Resource Laboratories, LLC
124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Company Name: See Above
Phone #:
FAX #:
Company Address:
Report To: Joe Sylvester
Project Info: NH MA ME VT 15079
Invoice To:
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*	Dioxins 8290	Grab (G) or Composite (C)
	15079-12	1		X								8/20/08	1350		X	

ANALYSIS REQUEST: ☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP ☐ VOC 624 ☐ VOC BTEX ☐ MTBE, only ☐ VPH MADEP ☐ MEGRO ☐ GRO ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint ☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB ☐ O&G 1664 ☐ Mineral O&G SM5520F ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☐ TSS ☐ TDS ☐ TS ☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Total Metals-list ☐ Dissolved Metals-list ☐ Ammonia ☐ COD ☐ TKN ☐ T-Phosphorus ☐ Phenol ☐ Cyanide ☐ Sulfide ☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☐ Chloride ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide ☐ TCLP Herbicides (subcontract) ☐ Standard Drinking Water Test ☐ Bacteria P/A

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed: Std TAT

* See www.reslabs.com for sample acceptance policy.

E-Mail Address: janebereslabs.com
Quote #
PO #: 15079

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☒ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☐ YES ☐ NO
TEMPERATURE °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler:			Received by:		
Relinquished by: [signature]	8/21/08	1000	Received by: UPS	8/21/08	
Relinquished by:			Received by Laboratory: [signature] Way Bill#:	8/27/08	1400

Reset Form

Print Form

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client/Project: Resource Laboratories Service Request: E0800847

Received: 8/27/08 Opened (Date/Time): 14:00 By: AE

1. Samples were received via? ☐ *US Mail* ☐ *Fedex* ☑ *UPS* ☐ *DHL* ☐ *Courier* ☐ *Hand Delivered*
2. Samples were received in: (circle) ☑ *Cooler* ☐ *Box* ☐ *Other* _____ ☐ *NA*
3. Were custody seals present on coolers? ☑ Y ☑ N If yes, how many and where? _____
   If present, were custody seals intact? ☐ Y ☐ N If present, were they signed and dated? ☐ Y ☐ N
4. Is shipper's air-bill filed? ☐ NA ☑ Y ☐ N If not, record air bill number: _____
5. Temperature of cooler(s) upon receipt (°C): 6
6. If applicable, list Chain of Custody numbers: _____
7. Were custody papers properly filled our (ink, signed, etc.)? ☐ NA ☑ Y ☐ N
8. Packing material used: ☐ *Inserts* ☑ *Bubble Wrap* ☑ *Blue Ice* ☐ *Wet Ice* ☐ *Sleeves* ☐ *Other* _____
9. Were the correct types of bottles used for the tests indicated? ☑ Y ☐ N
   Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* ☑ Y ☐ N

Sample ID	Bottle Count	Bottle Type	Out of Temp	Broken	Initials
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	

10. Were all bottle labels complete (i.e. analysis, ID, etc.)? ☑ Y ☐ N
    Did all bottle labels and tags agree with custody papers? *Indicate in the table below.* ☑ Y ☐ N

Sample ID on Bottle	Sample ID on COC		Sample ID on Bottle	Sample ID on COC

11. Additional notes, discrepancies, and resolutions:

_____

_____

_____

Page 1 of: ☑ 1 ☐ 2

Sample Acceptance Policy

Custody Seals (desirable, mandatory if specified in SAP):

- ✓ On outside of cooler
- ✓ Seals intact, signed and dated

Chain-of-Custody documentation (mandatory):

- ✓ Properly filled out in ink & signed by the client
- ✓ Sign and date the coc for CAS/HOU upon cooler receipt
- ✓ Coc must list method number
- ✓ If no coc was submitted with the samples, complete a CAS/HOU coc for the client

Sample Integrity (mandatory):

- ✓ Sample containers must arrive in good condition (not broken or leaking)
- ✓ Sample IDs on the bottles must match the sample IDs on the coc
- ✓ The correct type of sample bottle must be used for the method requested
- ✓ The correct number of sample containers received must agree with the documentation on the coc
- ✓ The correct sample matrix must appear on the coc
- ✓ An appropriate sample volume or weight must be received

Temperature Preservatives (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C
- ✓ Air samples can be shipped and stored at ambient temperature, ~23°C
- ✓ The sample temperature must be recorded on the coc
- ✓ Notify a Project Chemist if any samples are outside the acceptance temperature or have compromised sample integrity – the client must decide re: replacement sample submittal or continue with the analysis

Cooler Receipt Form, CRF (mandatory):

- ✓ Cooler receipt forms must be completed for each coc & SR#
- ✓ Sample integrity issues must be documented on the CRF
- ✓ A scan of the carrier and the airbill number must be recorded in CAS LIMS

Sample Integrity Issues/Resolutions (mandatory):

- ✓ Sample integrity issues are documented on the CRF and given to the Project Chemist for resolution with the client
- ✓ Client resolution is documented in writing (typically email or on the CRF) and filed in the project folder(s)

Service Request Summary

Folder #: **E0800847**
Client Name: Resource Laboratories
Project Name: Dioxins & Furans in Soil
Project Number: 15079

Report To: Sue Sylvester
Resource Laboratories
124 Heritage Ave
Portsmith, NH 03801
Phone Number: 603-436-2001
Cell Number:
Fax Number: 603-430-2100
E-mail: sues@reslabs.com

Project Chemist: Karen Verschoor
Originating Lab: HOUSTON
Logged By: AENNIS
Date Received: 08/27/2008
Internal Due Date: 09/11/2008
QAPP: LAB QAP
Qualifier Set: CAS Standard
Formset: CAS Standard
Merged?: N
Report to MDL?: Y
P.O. Number: 15079
EDD: No EDD Specified

24 - 4 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved

Location: E-WIC01

CAS Samp No.	Client Samp No.	Matrix	Collected		SVM	
					1613B/ Dioxins Furans	1613B/ Total Solids
E0800847-001	15079-01	Soil	8/19/08	1155	II	II
E0800847-002	15079-02	Soil	8/19/08	1235	II	II
E0800847-003	15079-03	Soil	8/19/08	1355	II	II
E0800847-004	15079-04	Soil	8/20/08	0730	II	II
E0800847-005	15079-05	Soil	8/20/08	0815	II	II
E0800847-006	15079-06	Soil	8/20/08	0835	II	II
E0800847-007	15079-07	Soil	8/20/08	1300	II	II
E0800847-008	15079-08	Soil	8/20/08	1215	II	II
E0800847-009	15079-09	Soil	8/20/08	1120	II	II
E0800847-010	15079-10	Soil	8/20/08	1040	II	II
E0800847-011	15079-11	Soil	8/20/08	1000	II	II
E0800847-012	15079-12	Soil	8/20/08	1355	II	II

COLUMBIA ANALYTICAL SERVICES, INC.

Total Solids, (Gravimetric, Dried at 110 Deg C)

Group ID: 73744
Analyst: NBROWN
Date Acquired: 09/04/2008

Reviewed By: _____
Date Reviewed: _____

Lab Code	Client Sample Name	Test	Tare Weight	Wet Weight + Tare	Dry Weight + Tare	Percent Solids
E0800847-001	15079-01	1613B/Total Solids	12.9090g	21.7500g	15.6650g	31.2
E0800847-002	15079-02	1613B/Total Solids	12.9040g	25.3220g	17.7750g	39.2
E0800847-003	15079-03	1613B/Total Solids	12.8920g	21.5790g	16.0170g	36.0
E0800847-004	15079-04	1613B/Total Solids	12.8390g	28.6560g	18.4950g	35.8
E0800847-005	15079-05	1613B/Total Solids	12.8200g	25.2310g	16.2060g	27.3
E0800847-006	15079-06	1613B/Total Solids	12.8320g	26.7600g	16.9530g	29.6
E0800847-007	15079-07	1613B/Total Solids	12.9390g	25.6890g	19.3590g	50.4
E0800847-008	15079-08	1613B/Total Solids	12.8880g	28.1740g	20.1870g	47.7
E0800847-009	15079-09	1613B/Total Solids	12.8570g	24.3260g	19.4350g	57.4
E0800847-010	15079-10	1613B/Total Solids	12.8700g	23.7630g	17.9320g	46.5
E0800847-011	15079-11	1613B/Total Solids	12.8790g	29.5960g	19.8110g	41.5
E0800847-012	15079-12	1613B/Total Solids	12.8220g	24.5470g	19.1210g	53.7
E0800860-001	08A-0078-C1AS	1613B/Total Solids	12.8900g	22.2530g	18.4200g	59.1
E0800860-002	08A-0078-C1BS	1613B/Total Solids	12.8970g	31.0390g	24.1070g	61.8
E0800860-003	08A-0078-C1CS	1613B/Total Solids	12.8590g	21.2490g	18.2580g	64.4
E0800860-004	08A-0078-C1DS	1613B/Total Solids	12.8670g	27.8850g	21.2550g	55.9
E0800860-005	08A-0078-C1ES	1613B/Total Solids	12.8750g	25.1040g	20.5600g	62.8
E0800860-006	08A-0078-C1FS	1613B/Total Solids	12.8430g	20.4700g	17.2870g	58.3
E0800862-001	030380	1613B/Total Solids	12.8940g	24.0050g	22.3620g	85.2

Preparation Information Benchsheet

Prep Run#: 73429 **Prep WorkFlow:** OrgExtS(365) **Status:** Prepped
Team: Semivoa GCMS/SMALHOTRA **Prep Method:** Method **Prep Date/Time:** 09/04/2008 03:00 PM

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Sample Description
1	EQ0800380-01	MB		1613B/Dioxins Furans		Solid	10.000g	
2	EQ0800380-02	LCS		1613B/Dioxins Furans		Solid	10.000g	
3	EQ0800380-03	DLCS		1613B/Dioxins Furans		Solid	10.000g	
4	E0800847-001	15079-01	.01	1613B/Dioxins Furans		Soil	10.024g	Black mud
5	E0800847-002	15079-02	.01	1613B/Dioxins Furans		Soil	10.215g	Black mud
6	E0800847-003	15079-03	.01	1613B/Dioxins Furans		Soil	10.566g	Black mud
7	E0800847-004	15079-04	.01	1613B/Dioxins Furans		Soil	11.047g	Black mud
8	E0800847-005	15079-05	.01	1613B/Dioxins Furans		Soil	12.005g	Black mud
9	E0800847-006	15079-06	.01	1613B/Dioxins Furans		Soil	11.062g	Black mud
10	E0800847-007	15079-07	.01	1613B/Dioxins Furans		Soil	10.250g	Black mud
11	E0800847-008	15079-08	.01	1613B/Dioxins Furans		Soil	12.693g	Black mud
12	E0800847-009	15079-09	.01	1613B/Dioxins Furans		Soil	10.226g	Black mud
13	E0800847-010	15079-10	.01	1613B/Dioxins Furans		Soil	11.982g	Black mud
14	E0800847-011	15079-11	.01	1613B/Dioxins Furans		Soil	10.790g	Black mud
15	E0800847-012	15079-12	.01	1613B/Dioxins Furans		Soil	14.399g	Black mud
18	E0800860-001	08A-0078-C1AS	.01	1613B/Dioxins Furans		Sediment	3.581g	Brown, wet soil
19	E0800860-002	08A-0078-C1BS	.01	1613B/Dioxins Furans		Sediment	3.405g	Brown, wet soil
19	E0800860-003	08A-0078-C1CS	.01	1613B/Dioxins Furans		Sediment	3.514g	Brown, wet soil
19	E0800860-004	08A-0078-C1DS	.01	1613B/Dioxins Furans		Sediment	3.034g	Brown, wet soil
20	E0800860-005	08A-0078-C1ES	.01	1613B/Dioxins Furans		Sediment	2.970g	Brown, wet soil
21	E0800860-006	08A-0078-C1FS	.01	1613B/Dioxins Furans		Sediment	3.028g	Brown, wet soil
22	E0800862-001	030380	.01	1613B/Dioxins Furans		Soil	10.793g	Brown soil
23	K0807873-035	SPD0055	.01	1613B/Dioxins Furans		Soil	32.873g	Brown sand

Preparation Information Benchsheet

Prep Run#: 73429 **Prep WorkFlow:** OrgExtS(365) **Status:** Prepped
Team: Semivoa GCMS/SMALHOTRA **Prep Method:** Method **Prep Date/Time:** 09/04/2008 03:00 PM

Spiking Solutions

Name:	1613B Matrix Working Standard	Inventory ID	5156	Logbook Ref:	D9-78-2B	Expires On:	08/18/2018

EQ0800380-02	100.00uL	EQ0800380-03	100.00uL

Name:	8290/1613B Cleanup Working Standard	Inventory ID	5344	Logbook Ref:	D9-84-4A/B	Expires On:	03/07/2009

E0800847-001	100.00uL	E0800847-002	100.00uL	E0800847-003	100.00uL	E0800847-004	100.00uL	E0800847-005	100.00uL	E0800847-006	100.00uL
E0800847-007	100.00uL	E0800847-008	100.00uL	E0800847-009	100.00uL	E0800847-010	100.00uL	E0800847-011	100.00uL	E0800847-012	100.00uL
E0800860-001	100.00uL	E0800860-002	100.00uL	E0800860-003	100.00uL	E0800860-004	100.00uL	E0800860-005	100.00uL	E0800860-006	100.00uL
E0800862-001	100.00uL	EQ0800380-01	100.00uL	EQ0800380-02	100.00uL	EQ0800380-03	100.00uL	K0807873-035	100.00uL		

Name:	1613B Labeled Working Standard	Inventory ID	5348	Logbook Ref:	D9-84-2B	Expires On:	03/08/2009

E0800847-001	1,000.00uL	E0800847-002	1,000.00uL	E0800847-003	1,000.00uL	E0800847-004	1,000.00uL	E0800847-005	1,000.00uL	E0800847-006	1,000.00uL
E0800847-007	1,000.00uL	E0800847-008	1,000.00uL	E0800847-009	1,000.00uL	E0800847-010	1,000.00uL	E0800847-011	1,000.00uL	E0800847-012	1,000.00uL
E0800860-001	1,000.00uL	E0800860-002	1,000.00uL	E0800860-003	1,000.00uL	E0800860-004	1,000.00uL	E0800860-005	1,000.00uL	E0800860-006	1,000.00uL
E0800862-001	1,000.00uL	EQ0800380-01	1,000.00uL	EQ0800380-02	1,000.00uL	EQ0800380-03	1,000.00uL	K0807873-035	1,000.00uL		

Preparation Materials

Sand Reagent Grade	C1-99-1 (345)	Silica Gel Reagent Grade	C2-6-004 (3305)	Carbon, High Purity	C2-9-004 (3628)
Glass Wool	C2-1-004 (3060)	Acetone 99.5% Minimum	C1-124-004 (3063)	Nonane (n-Nonane) 99%	C2-4-003 (3304)
Sodium Chloride Reagent Grade I	C1-104-2 (3306)	Sodium Sulfate Anhydrous Reage	C2-10-001 (3635)	Dichloromethane (Methylene Chl	C2-9-007 (3629)
Toluene 99.9% Minimum	C2-9-005 (3634)	Ethyl Acetate 99.9% Minimum Et	C2-1-005 (3059)	Hexane (n-Hexane) 98.5% Minim	C2-9-006 (3631)
Tridecane (n-Tridecane)	C2-7-002 (3360)	Sulfuric Acid Reagent Grade H2S	C2-7-005 (3357)	Extraction Thimbles 43 x123 mm	(1577)

Preparation Steps

Step:	Extraction	Step:	Acid Clean	Step:	Silica Gel Clean	Step:	Final Volume
Started:	9/4/08 15:00	Started:	9/8/08 09:00	Started:	9/8/08 15:00	Started:	9/9/08 08:00
Finished:	9/4/08 18:00	Finished:	9/8/08 10:00	Finished:	9/8/08 18:00	Finished:	9/9/08 09:00
By:	AKODUR	By:	AKODUR	By:	AKODUR	By:	AKODUR

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

September 8, 2008

Ms. Sue Sylvester
Resource Laboratories,LLC
124 Heritage Avenue
Portsmouth NH 03801

SAMPLE DATA

Lab Sample ID:	62086-1
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	08/19/08
Lab Receipt Date:	08/27/08
TCLP Extraction Date:	08/25/08
Extraction Date:	08/25/08
Analysis Date:	09/04/08

CLIENT SAMPLE ID

Project Name:	
Project Number:	15079
Client Sample ID:	15079-01

TCLP CHLORINATED HERBICIDE RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	Regulatory Limit µg/L	Matrix Spike Percent Recovery
2,4-D	10	U	10,000	56%
2,4,5-TP (Silvex)	10	U	1,000	84%

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid 105 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: TCLP sample extraction was performed according to Test Methods for Evaluating Solid Waste, SW-846 Method 1311. TCLP extract analysis was conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS: **TCLP extraction was performed by Resource Laboratories, LLC on 08/25/08.**

Authorized signature

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2161
800-929-9906

Ms. Sue Sylvester
Resource Laboratories,LLC
124 Heritage Avenue
Portsmouth NH 03801

September 8, 2008

SAMPLE DATA

Lab Sample ID:	62086-2
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	08/20/08
Lab Receipt Date:	08/27/08
TCLP Extraction Date:	08/25/08
Extraction Date:	08/29/08
Analysis Date:	09/04/08

CLIENT SAMPLE ID

Project Name:	
Project Number:	15079
Client Sample ID:	15079-04

TCLP CHLORINATED HERBICIDE RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	Regulatory Limit µg/L
2,4-D	10	U	10,000
2,4,5-TP (Silvex)	10	U	1,000

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid 94 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: TCLP sample extraction was performed according to Test Methods for Evaluating Solid Waste, SW-846 Method 1311. TCLP extract analysis was conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS: **TCLP extraction was performed by Resource Laboratories, LLC on 08/25/08.**

Authorized signature

analytics environmental laboratory LLC

195 Commerce Way
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800-929-9906

September 8, 2008

Ms. Sue Sylvester
Resource Laboratories,LLC
124 Heritage Avenue
Portsmouth NH 03801

CLIENT SAMPLE ID

Project Name:	
Project Number:	15079
Client Sample ID:	15079-07

SAMPLE DATA

Lab Sample ID:	62086-3
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	08/20/08
Lab Receipt Date:	08/27/08
TCLP Extraction Date:	08/25/08
Extraction Date:	08/29/08
Analysis Date:	09/05/08

TCLP CHLORINATED HERBICIDE RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	Regulatory Limit µg/L
2,4-D	10	U	10,000
2,4,5-TP (Silvex)	10	U	1,000

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid 81 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: TCLP sample extraction was performed according to Test Methods for Evaluating Solid Waste, SW-846 Method 1311. TCLP extract analysis was conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS: **TCLP extraction was performed by Resource Laboratories, LLC on 08/25/08.**

Authorized signature

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

September 8, 2008

Ms. Sue Sylvester
Resource Laboratories,LLC
124 Heritage Avenue
Portsmouth NH 03801

SAMPLE DATA

Lab Sample ID:	62086-4
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	08/20/08
Lab Receipt Date:	08/27/08
TCLP Extraction Date:	08/25/08
Extraction Date:	08/29/08
Analysis Date:	09/05/08

CLIENT SAMPLE ID

Project Name:	
Project Number:	15079
Client Sample ID:	15079-09

TCLP CHLORINATED HERBICIDE RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	Regulatory Limit µg/L
2,4-D	10	U	10,000
2,4,5-TP (Silvex)	10	U	1,000

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid 92 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: TCLP sample extraction was performed according to Test Methods for Evaluating Solid Waste, SW-846 Method 1311. TCLP extract analysis was conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS: **TCLP extraction was performed by Resource Laboratories, LLC on 08/25/08.**

Authorized signature

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

September 8, 2008

Ms. Sue Sylvester
Resource Laboratories,LLC
124 Heritage Avenue
Portsmouth NH 03801

CLIENT SAMPLE ID

Project Name:	
Project Number:	15079
Client Sample ID:	15079-10

SAMPLE DATA

Lab Sample ID:	62086-5
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	08/20/08
Lab Receipt Date:	08/27/08
TCLP Extraction Date:	08/25/08
Extraction Date:	08/27/08
Analysis Date:	09/05/08

TCLP CHLORINATED HERBICIDE RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	Regulatory Limit µg/L
2,4-D	10	U	10,000
2,4,5-TP (Silvex)	10	U	1,000

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid 89 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: TCLP sample extraction was performed according to Test Methods for Evaluating Solid Waste, SW-846 Method 1311. TCLP extract analysis was conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS: **TCLP extraction was performed by Resource Laboratories, LLC on 08/25/08.**

Authorized signature

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

September 8, 2008

Ms. Sue Sylvester
Resource Laboratories,LLC
124 Heritage Avenue
Portsmouth NH 03801

SAMPLE DATA

Lab Sample ID:	62086-6
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	08/20/08
Lab Receipt Date:	08/27/08
TCLP Extraction Date:	08/25/08
Extraction Date:	08/27/08
Analysis Date:	09/05/08

CLIENT SAMPLE ID

Project Name:	
Project Number:	15079
Client Sample ID:	15079-11

TCLP CHLORINATED HERBICIDE RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	Regulatory Limit µg/L
2,4-D	10	U	10,000
2,4,5-TP (Silvex)	10	U	1,000

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid 86 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: TCLP sample extraction was performed according to Test Methods for Evaluating Solid Waste, SW-846 Method 1311. TCLP extract analysis was conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS: **TCLP extraction was performed by Resource Laboratories, LLC on 08/25/08.**

Authorized signature

PAGE 1 OF 3

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

15079

Company Name: Appledore Engineering, Inc. Phone #: 603-433-8818 FAX #: 603-433-8988

Company Address: 15 Rye Street, Suite 305

Report To: Appledore Eng. Inc.

Project Info: NH MA ME VT — PNSY Dredging Project

Invoice To: Appledore Eng. Inc.

Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# Containers	Matrix: Water	Matrix: Solid	Matrix: Other (Sediment)	Pres.: HCl	Pres.: HNO_3	Pres.: H_2SO_4	Pres.: NaOH	Pres.: MeOH	Pres.: Other (Specify)	Sampling Date	Sampling Time	Sampler*
15079-01	Dry Dock1 S-1	9			X							8-19-08	1155	
-01	S-1	2			X							↓	↓	
-02	S-2	9	QB		X							↓	1235	
	~~S-2~~	~~[illegible]~~			X							↓	↓	
-03	S-3	9	QB		X							↓	1355	
	~~S-3~~	~~[illegible]~~			X							↓	↓	
	QB ~~[illegible]~~k													

ANALYSIS REQUEST

Analysis columns:

1. ☐ VOC 8260 ☒ VOC 8260 NHDES ☐ VOC 8260 MADEP
2. ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only
3. ☐ VPH MADEP ☐ MEGRO ☐ GRO
4. ☐ VOC 524.2 ☐ VOC 524.2 NH List
5. ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
6. ☒ 8270PAH ☐ 8270ABN ☐ 625
7. ☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
8. ☐ O&G 1664 ☐ Mineral O&G SM5520F
9. ☒ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☒ CN
10. ☐ TSS ☐ TDS ☐ TS
11. ~~☒ RCRA Metals ☐ Priority Pollutant Metals~~ ☐ TAL Metals
12. ☒ Total Metals-list ☐ Dissolved Metals-list
13. ~~☐ Ammonia ☐ COD ☐ TKN~~ Herbicides SS
14. ☒ T-Phosphorus ☐ Phenol
15. ☐ Cyanide ☒ Sulfide
16. ☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☒ Chloride
17. ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☒ Ignitibility/FP
18. ☒ TCLP Metals ☒ TCLP VOC ☒ TCLP SVOC
19. ☒ TCLP Pesticide ☒ TCLP Herbicides (subcontract)
20. ☐ Standard Drinking Water Test ☐ Bacteria P/A.
21. Dioxins 8290 ☒ Cr VI
22. Grain Size w/Hydrometer
23. Total Organic Carbon (+Dup)

Grab (G) or Composite (C)

Sample	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	G/C
Dry Dock1 S-1 (9)	X					X	X		X		~~X~~	X	~~X~~	X	~~X~~	X	X				X	X	X	
S-1 (2)											X				X			X	X					
S-2 (9)	X					X	X		X		~~X~~	X	~~X~~	X	~~X~~	X	X	QB			X	X	X	
~~S-2~~																		~~[illegible]~~						
S-3 (9)	X					X	X		X		~~X~~ SS	X	~~X~~ SS	X	~~X~~ SS	X	X	QB			X	X	X	
~~S-3~~																		~~[illegible]~~						

TAT REQUESTED

Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed

* See www.reslabs.com for sample acceptance policy.

E-Mail Address

Quote #

PO #

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE all coolers 5 °C

CUSTODY RECORD

Relinquished	Date	Time	Received	Date	Time
Relinquished by Sampler: James Bajek	8/20/08	1510 (JB)	Received by: [signature]	8/20/08	1510
Relinquished by: [signature]	8/20/08	1547	Received by:		
Relinquished by:			Received by Laboratory: [signature] Way Bill #:	8/20/08	1547

PAGE 2 OF 3

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 15079

Company Name: Appledore Engineering, Inc. Phone # 603-433-8818 FAX # 603-433-8988

Company Address: 15 Rye St., Suite 305

Report To: Appledore Eng, Inc

Project Info: NH MA ME VT — PNSY Dredging Project

Invoice To: Appledore Eng., Inc

Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# Containers	Matrix: Water	Matrix: Solid	Matrix: Other (Sediment)	Preservation: HCl	HNO_3	H_2SO_4	NaOH	MeOH	Other (Specify)	Sampling Date	Sampling Time	Sampler*
-04	DryDock S-4	9			X							8-20-08	0730	
↓	3 S-4	2			X							↓	0730	
-05	S-5	9			X							↓	0815	
-06	↓ S-6	9			X							↓	0835	

ANALYSIS REQUEST

Lab Sample ID	VOC 8260 / VOC 8260 NHDES (X) / VOC 8260 MADEP	VOC 624 / VOC BTEX / MtBE, only	VPH MADEP / MEGRO / GRO	VOC 524.2 / VOC 524.2 NH List	TPH / DRO 8015 / MEDRO / EPH MADEP / TPH Fingerprint	8270PAH (X) / 8270ABN / 625	8082 PCB (X) / 8081 Pesticides / 608 Pest/PCB	O&G 1664 / Mineral O&G SM5520F	pH (X) / BOD / Conductivity / Turbidity / CN (X)	TSS / TDS / TS	RCRA Metals / Priority Pollutant Metals / TAL Metals (struck)	Total Metals-list (X) / Dissolved Metals-list	Ammonia / COD / TKN (struck) Herbicides	T-Phosphorus (X) / Phenol	Cyanide / Sulfide (X)	Nitrate / Nitrite / Ortho P / Sulfate / Bromide / Chloride (X)	Corrosivity / Reactive CN / Reactive S- / Ignitibility/FP (X)	TCLP Metals (X) / TCLP VOC (X) / TCLP SVOC (X)	TCLP Pesticide (X) / TCLP Herbicides (subcontract) (X)	Standard Drinking Water Test / Bacteria P/A	Dioxins 8290 / CrVI (X)	Grain Size w/Hydrometer	Total Organic Carbon (+Dup)
-04	X					X	X		X		X	X	X	X	X	X	X				X	X	X
↓											X				X			X	X				
-05	X					X	X		X		X	X	X	X	X	X	X				X	X	X
-06	X					X	X		X		X	X	X	X	X	X	X				X	X	X

Grab (G) or Composite (C)

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed

* See www.reslabs.com for sample acceptance policy.

E-Mail Address
Quote #
PO #

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE all Coolers 5 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: James Bayek	8/20/08	1510	Received by: [signature]	8/20/08	1510
Relinquished by: [signature]	8/20/08	1547	Received by: [signature]	8/20/08	1547
Relinquished by:			Received by Laboratory: Way Bill#:		

PAGE 3 OF 3

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 15079

Company Name: Appledore Engineering, Inc.
Phone #: 603-433-8818
FAX #: 603-433-8988
Company Address: 15 Rye St., Suite 305
Report To: Appledore Eng, Inc.
Project Info: NH MA ME VT — PNSY Dredging Project
Invoice To: ↓
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

ANALYSIS REQUEST

Analysis columns:
1. ☐ VOC 8260 ☒ VOC 8260 NHDES ☐ VOC 8260 MADEP
2. ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only
3. ☐ VPH MADEP ☐ MEGRO ☐ GRO
4. ☐ VOC 524.2 ☐ VOC 524.2 NH List
5. ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
6. ☒ 8270PAH ☐ 8270ABN ☐ 625
7. ☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
8. ☐ O&G 1664 ☐ Mineral O&G SM5520F
9. ☒ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☒ Cyanide SS
10. ☐ TSS ☐ TDS ☐ TS
11. ~~☒ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals~~ SS
12. ☒ Total Metals-list ☐ Dissolved Metals-list
13. ~~☐ Ammonia ☐ COD ☐ TKN~~ Herbicides SS
14. ☒ T-Phosphorus ☐ Phenol
15. ☐ Cyanide ☒ Sulfide
16. ☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☒ Chloride
17. ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☒ Ignitibility/FP
18. ☒ TCLP Metals ☒ TCLP VOC ☒ TCLP SVOC
19. ☒ TCLP Pesticide ☒ TCLP Herbicides (subcontract)
20. ☐ Standard Drinking Water Test ☐ Bacteria P/A
21. Dioxins, CrVI - subcontract SS
22. Grain Size w/ Hydrometer
23. Total Organic Carbon (+Dup)

Grab (G) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	SOLID	OTHER (SEDIMENT)	Pres.: HCl	HNO3	H2SO4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
-07	Dry Dock 2 5-7	9			X							8-20-08	1300		X					X	X		X		X	X	X	X	X	X	X				X	X	X
d	Top 5-7	2			↓							↓	↓												X				X			X	X				
-08	5-8	9			↓							↓	1215		X					X	X		X		X	X	X	X	X	X	X				X	X	X
-09	5-9	9			↓							↓	1120		X					X	X		X		X	X	X	X	X	X	X				X	X	X
d	5-9	2			↓							↓	1120												X				X			X	X				
-10	5-10	9			↓							↓	1040		X					X	X		X		X	X	X	X	X	X	X				X	X	X
d	Top 5-10	2			↓							↓	1040												X				X			X	X				
-11	5-11	9			↓							↓	1000		X					X	X		X		X	X	X	X	X	X	X				X	X	X
d	Bot 5-11	2			↓							↓	1000												X				X			X	X				
-12	5-12	9			↓							↓	1350		X					X	X		X		X	X	X	X	X	X	X				X	X	X
-13	Trip Blank	1			X					X		—	—		X @ 8/20/08																						

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed ______

* See www.reslabs.com for sample acceptance policy.

E-Mail Address ______
Quote # ______
PO # ______

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify) ______
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE all coolers 5 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: James Bayek	8/20/08	1510	Received by: [signature]	8/20/08	1510
Relinquished by: [signature]	8/20/08	1547	Received by: [signature]	8/20/08	1547
Relinquished by:			Received by Laboratory:		
			Way Bill#:		

ID	QA Type	PARAMETER	LAB ID	MATRIX	RESULT	QUAL	QLIMIT	UNITS	SAMPLED	PREPARED	ANALYZED	METHOD
Dry Dock 1 S-1		TCLP gamma-BHC (Lindane)	15079-01	TCLP Extract	< 5		5	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 1 S-1		TCLP Heptachlor	15079-01	TCLP Extract	< 5		5	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 1 S-1		TCLP Endrin	15079-01	TCLP Extract	< 5		5	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 1 S-1		TCLP Methoxychlor	15079-01	TCLP Extract	< 5		5	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 1 S-1		TCLP alpha-Chlordane	15079-01	TCLP Extract	< 5		5	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 1 S-1		TCLP gamma-Chlordane	15079-01	TCLP Extract	< 5		5	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 1 S-1		TCLP Toxaphene	15079-01	TCLP Extract	< 20		20	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP gamma-BHC (Lindane)	15079-04	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP Heptachlor	15079-04	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP Endrin	15079-04	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP Methoxychlor	15079-04	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP alpha-Chlordane	15079-04	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP gamma-Chlordane	15079-04	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP Toxaphene	15079-04	TCLP Extract	< 20		20	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP gamma-BHC (Lindane)	15079-07	TCLP Extract	< 6		6	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP Heptachlor	15079-07	TCLP Extract	< 6		6	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP Endrin	15079-07	TCLP Extract	< 6		6	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP Methoxychlor	15079-07	TCLP Extract	< 6		6	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP alpha-Chlordane	15079-07	TCLP Extract	< 6		6	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP gamma-Chlordane	15079-07	TCLP Extract	< 6		6	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP Toxaphene	15079-07	TCLP Extract	< 20		20	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP gamma-BHC (Lindane)	15079-09	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP Heptachlor	15079-09	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP Endrin	15079-09	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP Methoxychlor	15079-09	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP alpha-Chlordane	15079-09	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP gamma-Chlordane	15079-09	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP Toxaphene	15079-09	TCLP Extract	< 20		20	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP gamma-BHC (Lindane)	15079-10	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP Heptachlor	15079-10	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP Endrin	15079-10	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP Methoxychlor	15079-10	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP alpha-Chlordane	15079-10	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP gamma-Chlordane	15079-10	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP Toxaphene	15079-10	TCLP Extract	< 20		20	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP gamma-BHC (Lindane)	15079-11	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP Heptachlor	15079-11	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP Endrin	15079-11	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP Methoxychlor	15079-11	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP alpha-Chlordane	15079-11	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP gamma-Chlordane	15079-11	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP Toxaphene	15079-11	TCLP Extract	< 20		20	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B

RL Resource Laboratories, LLC

Laboratory Report

Bob Snover
Appledore Engineering, Inc.
15 Rye St. Suite 305
Portsmouth, NH 03801

PO Number: None
LabID: 15079
Date Received: 8/20/08

Project: PNSY Dredging Project

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

Susan Sylvester
Principal, General Manager

10-1-08
Date

Total number of pages _____

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

124 Heritage Avenue #10 Portsmouth NH 03801
Voice: 603-436-2001 Fax: 603-430-2100
www.reslabs.com

Lab Number:	15079-01
Sample Designation:	Dry Dock 1 S-1
Date Sampled:	8/19/08
Date Prepared:	8/21/08
Date Analyzed:	8/22/08
Matrix:	Solid
Instrument Dilution Factor:	1
Analyst:	LMM
Percent Solids:	32.0%

TCLP VOLATILE ORGANICS

SW 846 Method 8260B

	Concentration ug/g	Quantitation Limit ug/g	Maximum Possible TCLP value ug/L	Regulatory TCLP Limit ug/L
TCLP 1,2-dichloroethane	U	0.4	20	500
TCLP 1,1-dichloroethene	U	0.4	20	700
TCLP 1,4-dichlorobenzene	U	0.4	20	7,500
TCLP benzene	U	0.4	20	500
TCLP carbon tetrachloride	U	0.4	20	500
TCLP chlorobenzene	U	0.4	20	100,000
TCLP chloroform	U	2	100	6,000
TCLP 2-butanone (MEK)	U	10	500	200,000
TCLP tetrachloroethene	U	0.4	20	700
TCLP trichloroethene	U	1	50	500
TCLP vinyl chloride	U	0.4	20	200

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
dibromofluoromethane	98	78-114
toluene-D8	99	88-110
4-bromofluorobenzene	102	86-115

U = Below quantitation limit

Lab Number:	15079-04
Sample Designation:	Dry Dock 3 S-4
Date Sampled:	8/20/08
Date Prepared:	8/21/08
Date Analyzed:	8/22/08
Matrix:	Solid
Instrument Dilution Factor:	1
Analyst:	LMM
Percent Solids:	38.4%

TCLP VOLATILE ORGANICS

SW 846 Method 8260B

	Concentration ug/g	Quantitation Limit ug/g	Maximum Possible TCLP value ug/L	Regulatory TCLP Limit ug/L
TCLP 1,2-dichloroethane	U	0.3	15	500
TCLP 1,1-dichloroethene	U	0.3	15	700
TCLP 1,4-dichlorobenzene	U	0.3	15	7,500
TCLP benzene	U	0.3	15	500
TCLP carbon tetrachloride	U	0.3	15	500
TCLP chlorobenzene	U	0.3	15	100,000
TCLP chloroform	U	2	100	6,000
TCLP 2-butanone (MEK)	U	9	450	200,000
TCLP tetrachloroethene	U	0.3	15	700
TCLP trichloroethene	U	0.9	45	500
TCLP vinyl chloride	U	0.3	15	200

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
dibromofluoromethane	93	78-114
toluene-D8	100	88-110
4-bromofluorobenzene	98	86-115

U = Below quantitation limit

Lab Number:	15079-07
Sample Designation:	Dry Dock 2 S-7 (top)
Date Sampled:	8/20/08
Date Prepared:	8/21/08
Date Analyzed:	8/23/08
Matrix:	Solid
Instrument Dilution Factor:	1
Analyst:	LMM
Percent Solids:	51.1%

TCLP VOLATILE ORGANICS

SW 846 Method 8260B

	Concentration ug/g	Quantitation Limit ug/g	Maximum Possible TCLP value ug/L	Regulatory TCLP Limit ug/L
TCLP 1,2-dichloroethane	U	0.2	10	500
TCLP 1,1-dichloroethene	U	0.2	10	700
TCLP 1,4-dichlorobenzene	U	0.2	10	7,500
TCLP benzene	U	0.2	10	500
TCLP carbon tetrachloride	U	0.2	10	500
TCLP chlorobenzene	U	0.2	10	100,000
TCLP chloroform	U	1	50	6,000
TCLP 2-butanone (MEK)	U	6	300	200,000
TCLP tetrachloroethene	U	0.2	10	700
TCLP trichloroethene	U	0.6	30	500
TCLP vinyl chloride	U	0.2	10	200

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
dibromofluoromethane	91	78-114
toluene-D8	99	88-110
4-bromofluorobenzene	100	86-115

U = Below quantitation limit

Lab Number:	15079-09
Sample Designation:	Dry Dock 2 S-9 (mid)
Date Sampled:	8/20/08
Date Prepared:	8/21/08
Date Analyzed:	8/23/08
Matrix:	Solid
Instrument Dilution Factor:	1
Analyst:	LMM
Percent Solids:	59.5%

TCLP VOLATILE ORGANICS

SW 846 Method 8260B

	Concentration ug/g	Quantitation Limit ug/g	Maximum Possible TCLP value ug/L	Regulatory TCLP Limit ug/L
TCLP 1,2-dichloroethane	U	0.2	10	500
TCLP 1,1-dichloroethene	U	0.2	10	700
TCLP 1,4-dichlorobenzene	U	0.2	10	7,500
TCLP benzene	U	0.2	10	500
TCLP carbon tetrachloride	U	0.2	10	500
TCLP chlorobenzene	U	0.2	10	100,000
TCLP chloroform	U	0.9	45	6,000
TCLP 2-butanone (MEK)	U	4	200	200,000
TCLP tetrachloroethene	U	0.2	10	700
TCLP trichloroethene	U	0.4	20	500
TCLP vinyl chloride	U	0.2	10	200

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
dibromofluoromethane	93	78-114
toluene-D8	103	88-110
4-bromofluorobenzene	101	86-115

U = Below quantitation limit

Lab Number:	15079-10
Sample Designation:	Dry Dock 2 S-10 (top)
Date Sampled:	8/20/08
Date Prepared:	8/21/08
Date Analyzed:	8/23/08
Matrix:	Solid
Instrument Dilution Factor:	1
Analyst:	LMM
Percent Solids:	45.7%

TCLP VOLATILE ORGANICS

SW 846 Method 8260B

	Concentration ug/g	Quantitation Limit ug/g	Maximum Possible TCLP value ug/L	Regulatory TCLP Limit ug/L
TCLP 1,2-dichloroethane	U	0.3	15	500
TCLP 1,1-dichloroethene	U	0.3	15	700
TCLP 1,4-dichlorobenzene	U	0.3	15	7,500
TCLP benzene	U	0.3	15	500
TCLP carbon tetrachloride	U	0.3	15	500
TCLP chlorobenzene	U	0.3	15	100,000
TCLP chloroform	U	1	50	6,000
TCLP 2-butanone (MEK)	U	7	350	200,000
TCLP tetrachloroethene	U	0.3	15	700
TCLP trichloroethene	U	0.7	35	500
TCLP vinyl chloride	U	0.3	15	200

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
dibromofluoromethane	93	78-114
toluene-D8	103	88-110
4-bromofluorobenzene	96	86-115

U = Below quantitation limit

Lab Number:	15079-11
Sample Designation:	Dry Dock 2 S-11 (bot)
Date Sampled:	8/20/08
Date Prepared:	8/21/08
Date Analyzed:	8/23/08
Matrix:	Solid
Instrument Dilution Factor:	1
Analyst:	LMM
Percent Solids:	38.3%

TCLP VOLATILE ORGANICS

SW 846 Method 8260B

	Concentration ug/g	Quantitation Limit ug/g	Maximum Possible TCLP value ug/L	Regulatory TCLP Limit ug/L
TCLP 1,2-dichloroethane	U	0.4	20	500
TCLP 1,1-dichloroethene	U	0.4	20	700
TCLP 1,4-dichlorobenzene	U	0.4	20	7,500
TCLP benzene	U	0.4	20	500
TCLP carbon tetrachloride	U	0.4	20	500
TCLP chlorobenzene	U	0.4	20	100,000
TCLP chloroform	U	2	100	6,000
TCLP 2-butanone (MEK)	U	10	500	200,000
TCLP tetrachloroethene	U	0.4	20	700
TCLP trichloroethene	U	1	50	500
TCLP vinyl chloride	U	0.4	20	200

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
dibromofluoromethane	91	78-114
toluene-D8	102	88-110
4-bromofluorobenzene	97	86-115

U = Below quantitation limit

Lab Number:	15079-01
Sample Designation:	Dry Dock 1 S-1
Date Sampled:	8/19/08
Date Extracted:	8/28/08
Date Analyzed:	9/3/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS

SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP pyridine	U	10	5,000
TCLP 1,4-dichlorobenzene	U	10	7,500
TCLP 2-methylphenol & 3-methylphenol	U	20	400,000
TCLP hexachloroethane	U	10	3,000
TCLP 4-methylphenol	U	10	200,000
TCLP nitrobenzene	U	10	2,000
TCLP hexachloro-1,3-butadiene	U	10	500
TCLP 2,4,6-trichlorophenol	U	10	2,000
TCLP 2,4,5-trichlorophenol	U	10	400,000
TCLP 2,4-dinitrotoluene	U	10	130
TCLP hexachlorobenzene	U	10	130
TCLP pentachlorophenol	U	60	100,000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	49	21-100	nitrobenzene D5	67	35-114
phenol D5	36	10-102	2-fluorobiphenyl	59	43-116
2,4,6-tribromophenol	61	10-123	terphenyl D14	79	33-141

U = Below quantitation limit

Lab Number:	15079-04
Sample Designation:	Dry Dock 3 S-4
Date Sampled:	8/20/08
Date Extracted:	8/28/08
Date Analyzed:	9/3/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS
SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP pyridine	U	10	5,000
TCLP 1,4-dichlorobenzene	U	10	7,500
TCLP 2-methylphenol & 3-methylphenol	U	20	400,000
TCLP hexachloroethane	U	10	3,000
TCLP 4-methylphenol	U	10	200,000
TCLP nitrobenzene	U	10	2,000
TCLP hexachloro-1,3-butadiene	U	10	500
TCLP 2,4,6-trichlorophenol	U	10	2,000
TCLP 2,4,5-trichlorophenol	U	10	400,000
TCLP 2,4-dinitrotoluene	U	10	130
TCLP hexachlorobenzene	U	10	130
TCLP pentachlorophenol	U	60	100,000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	57	21-100	nitrobenzene D5	72	35-114
phenol D5	42	10-102	2-fluorobiphenyl	63	43-116
2,4,6-tribromophenol	75	10-123	terphenyl D14	85	33-141

U = Below quantitation limit

Lab Number:	15079-07
Sample Designation:	Dry Dock 2 TOP S-7
Date Sampled:	8/20/08
Date Extracted:	8/28/08
Date Analyzed:	9/4/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS
SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP pyridine	U	10	5,000
TCLP 1,4-dichlorobenzene	U	10	7,500
TCLP 2-methylphenol & 3-methylphenol	U	20	400,000
TCLP hexachloroethane	U	10	3,000
TCLP 4-methylphenol	U	10	200,000
TCLP nitrobenzene	U	10	2,000
TCLP hexachloro-1,3-butadiene	U	10	500
TCLP 2,4,6-trichlorophenol	U	10	2,000
TCLP 2,4,5-trichlorophenol	U	10	400,000
TCLP 2,4-dinitrotoluene	U	10	130
TCLP hexachlorobenzene	U	10	130
TCLP pentachlorophenol	U	60	100,000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	54	21-100	nitrobenzene D5	69	35-114
phenol D5	40	10-102	2-fluorobiphenyl	61	43-116
2,4,6-tribromophenol	68	10-123	terphenyl D14	78	33-141

U = Below quantitation limit

Lab Number:	15079-09
Sample Designation:	Dry Dock 2 MID S-9
Date Sampled:	8/20/08
Date Extracted:	8/28/08
Date Analyzed:	9/4/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS
SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP pyridine	U	10	5,000
TCLP 1,4-dichlorobenzene	U	10	7,500
TCLP 2-methylphenol & 3-methylphenol	U	20	400,000
TCLP hexachloroethane	U	10	3,000
TCLP 4-methylphenol	U	10	200,000
TCLP nitrobenzene	U	10	2,000
TCLP hexachloro-1,3-butadiene	U	10	500
TCLP 2,4,6-trichlorophenol	U	10	2,000
TCLP 2,4,5-trichlorophenol	U	10	400,000
TCLP 2,4-dinitrotoluene	U	10	130
TCLP hexachlorobenzene	U	10	130
TCLP pentachlorophenol	U	60	100,000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	55	21-100	nitrobenzene D5	69	35-114
phenol D5	43	10-102	2-fluorobiphenyl	60	43-116
2,4,6-tribromophenol	71	10-123	terphenyl D14	79	33-141

U = Below quantitation limit

Lab Number:	15079-10
Sample Designation:	Dry Dock 2 TOP S-10
Date Sampled:	8/20/08
Date Extracted:	8/28/08
Date Analyzed:	9/4/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS
SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP pyridine	U	10	5,000
TCLP 1,4-dichlorobenzene	U	10	7,500
TCLP 2-methylphenol & 3-methylphenol	U	20	400,000
TCLP hexachloroethane	U	10	3,000
TCLP 4-methylphenol	U	10	200,000
TCLP nitrobenzene	U	10	2,000
TCLP hexachloro-1,3-butadiene	U	10	500
TCLP 2,4,6-trichlorophenol	U	10	2,000
TCLP 2,4,5-trichlorophenol	U	10	400,000
TCLP 2,4-dinitrotoluene	U	10	130
TCLP hexachlorobenzene	U	10	130
TCLP pentachlorophenol	U	60	100,000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	47	21-100	nitrobenzene D5	66	35-114
phenol D5	36	10-102	2-fluorobiphenyl	58	43-116
2,4,6-tribromophenol	61	10-123	terphenyl D14	74	33-141

U = Below quantitation limit

Lab Number:	15079-11
Sample Designation:	Dry Dock 2 BOT S-11
Date Sampled:	8/20/08
Date Extracted:	8/28/08
Date Analyzed:	9/4/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS
SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP pyridine	U	10	5,000
TCLP 1,4-dichlorobenzene	U	10	7,500
TCLP 2-methylphenol & 3-methylphenol	U	20	400,000
TCLP hexachloroethane	U	10	3,000
TCLP 4-methylphenol	U	10	200,000
TCLP nitrobenzene	U	10	2,000
TCLP hexachloro-1,3-butadiene	U	10	500
TCLP 2,4,6-trichlorophenol	U	10	2,000
TCLP 2,4,5-trichlorophenol	U	10	400,000
TCLP 2,4-dinitrotoluene	U	10	130
TCLP hexachlorobenzene	U	10	130
TCLP pentachlorophenol	U	60	100,000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	53	21-100	nitrobenzene D5	75	35-114
phenol D5	39	10-102	2-fluorobiphenyl	66	43-116
2,4,6-tribromophenol	68	10-123	terphenyl D14	90	33-141

U = Below quantitation limit

METALS RESULTS

Lab Number: 15079-01
Sample ID: Dry Dock 1 S-1
Date Sampled: 8/19/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Arsenic	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Barium	< 0.5	0.5	8/26/08	100	10	BJS	SW 1311/3005A/6010B
TCLP Cadmium	< 0.05	0.05	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Chromium	< 0.5	0.5	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Selenium	< 0.5	0.5	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Silver	< 0.07	0.07	8/26/08	5	10	BJS	SW 1311/3005A/6010B
Total Mercury	0.08 ug/g	0.05 ug/g	8/25/08	4 ug/g	1	BJS	SW 7470A

Lab Number: 15079-04
Sample ID: Dry Dock 3 S-4
Date Sampled: 8/19/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Arsenic	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Barium	< 0.5	0.5	8/26/08	100	10	BJS	SW 1311/3005A/6010B
TCLP Cadmium	< 0.05	0.05	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Chromium	< 0.5	0.5	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Selenium	< 0.5	0.5	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Silver	< 0.07	0.07	8/26/08	5	10	BJS	SW 1311/3005A/6010B
Total Mercury	0.10 ug/g	0.04 ug/g	8/25/08	4 ug/g	1	BJS	SW 7470A

Lab Number: 15079-07
Sample ID: Dry Dock 2 TOP S-7
Date Sampled: 8/20/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Arsenic	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Barium	< 0.5	0.5	8/26/08	100	10	BJS	SW 1311/3005A/6010B
TCLP Cadmium	< 0.05	0.05	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Chromium	< 0.5	0.5	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Selenium	< 0.5	0.5	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Silver	< 0.07	0.07	8/26/08	5	10	BJS	SW 1311/3005A/6010B
Total Mercury	0.56 ug/g	0.03 ug/g	8/25/08	4 ug/g	1	BJS	SW 7470A

Total mercury analysis values were below those which could possibly exceed TCLP regulatory limits.
As per Federal Register, Vol.55, No.61, June 29,1990, TCLP extraction for mercury not necessary.

METALS RESULTS

Lab Number: 15079-09
Sample ID: Dry Dock 2 MID S-9
Date Sampled: 8/20/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Arsenic	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Barium	0.6	0.5	8/26/08	100	10	BJS	SW 1311/3005A/6010B
TCLP Cadmium	< 0.05	0.05	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Chromium	< 0.5	0.5	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Selenium	< 0.5	0.5	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Silver	< 0.07	0.07	8/26/08	5	10	BJS	SW 1311/3005A/6010B
Total Mercury	0.98 ug/g	0.03 ug/g	8/25/08	4 ug/g	1	BJS	SW 7470A

Lab Number: 15079-10
Sample ID: Dry Dock 2 TOP S-10
Date Sampled: 8/20/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Arsenic	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Barium	< 0.5	0.5	8/26/08	100	10	BJS	SW 1311/3005A/6010B
TCLP Cadmium	< 0.05	0.05	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Chromium	< 0.5	0.5	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Selenium	< 0.5	0.5	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Silver	< 0.07	0.07	8/26/08	5	10	BJS	SW 1311/3005A/6010B
Total Mercury	0.19 ug/g	0.04 ug/g	8/25/08	4 ug/g	1	BJS	SW 7470A

Lab Number: 15079-11
Sample ID: Dry Dock 2 BOT S-11
Date Sampled: 8/20/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Arsenic	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Barium	< 0.5	0.5	8/26/08	100	10	BJS	SW 1311/3005A/6010B
TCLP Cadmium	< 0.05	0.05	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Chromium	< 0.5	0.5	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	< 0.1	0.1	8/26/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Selenium	< 0.5	0.5	8/26/08	1	10	BJS	SW 1311/3005A/6010B
TCLP Silver	< 0.07	0.07	8/26/08	5	10	BJS	SW 1311/3005A/6010B
Total Mercury	0.08 ug/g	0.04 ug/g	8/25/08	4 ug/g	1	BJS	SW 7470A

Total mercury analysis values were below those which could possibly exceed TCLP regulatory limits.
As per Federal Register, Vol.55, No.61, June 29,1990, TCLP extraction for mercury not necessary.

Lab Number:	15079-01
Sample Designation:	Dry Dock 1 S-1
Date Sampled:	8/19/08
Date Extracted:	8/27/08
Date Analyzed:	9/17/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	JLZ

TCLP ORGANOCHLORINE PESTICIDES

SW 846 Method 3510C/8081B.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP gamma-BHC (Lindane)	U	5	400
TCLP Heptachlor	U	5	8
TCLP Endrin	U	5	20
TCLP Methoxychlor	U	5	10000
TCLP alpha-Chlordane	U	5	30
TCLP gamma-Chlordane	U	5	30
TCLP Toxaphene	U	20	500

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	68	30-150
Decachlorobiphenyl	96	30-150

U = Below quantitation limit

Lab Number:	15079-04
Sample Designation:	Dry Dock 3 S-4
Date Sampled:	8/20/08
Date Extracted:	8/27/08
Date Analyzed:	9/17/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	JLZ

TCLP ORGANOCHLORINE PESTICIDES

SW 846 Method 3510C/8081B.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP gamma-BHC (Lindane)	U	5	400
TCLP Heptachlor	U	5	8
TCLP Endrin	U	5	20
TCLP Methoxychlor	U	5	10000
TCLP alpha-Chlordane	U	5	30
TCLP gamma-Chlordane	U	5	30
TCLP Toxaphene	U	20	500

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	74	30-150
Decachlorobiphenyl	99	30-150

U = Below quantitation limit

Lab Number:	15079-07
Sample Designation:	Dry Dock 2 TOP S-7
Date Sampled:	8/20/08
Date Extracted:	8/27/08
Date Analyzed:	9/17/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	JLZ

TCLP ORGANOCHLORINE PESTICIDES

SW 846 Method 3510C/8081B.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP gamma-BHC (Lindane)	U	6	400
TCLP Heptachlor	U	6	8
TCLP Endrin	U	6	20
TCLP Methoxychlor	U	6	10000
TCLP alpha-Chlordane	U	6	30
TCLP gamma-Chlordane	U	6	30
TCLP Toxaphene	U	20	500

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	73	30-150
Decachlorobiphenyl	98	30-150

U = Below quantitation limit

Lab Number:	15079-09
Sample Designation:	Dry Dock 2 MID S-9
Date Sampled:	8/20/08
Date Extracted:	8/27/08
Date Analyzed:	9/17/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	JLZ

TCLP ORGANOCHLORINE PESTICIDES

SW 846 Method 3510C/8081B.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP gamma-BHC (Lindane)	U	5	400
TCLP Heptachlor	U	5	8
TCLP Endrin	U	5	20
TCLP Methoxychlor	U	5	10000
TCLP alpha-Chlordane	U	5	30
TCLP gamma-Chlordane	U	5	30
TCLP Toxaphene	U	20	500

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	80	30-150
Decachlorobiphenyl	109	30-150

U = Below quantitation limit

Lab Number:	15079-10
Sample Designation:	Dry Dock 2 TOP S-10
Date Sampled:	8/20/08
Date Extracted:	8/27/08
Date Analyzed:	9/17/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	JLZ

TCLP ORGANOCHLORINE PESTICIDES

SW 846 Method 3510C/8081B.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP gamma-BHC (Lindane)	U	5	400
TCLP Heptachlor	U	5	8
TCLP Endrin	U	5	20
TCLP Methoxychlor	U	5	10000
TCLP alpha-Chlordane	U	5	30
TCLP gamma-Chlordane	U	5	30
TCLP Toxaphene	U	20	500

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	87	30-150
Decachlorobiphenyl	117	30-150

U = Below quantitation limit

Lab Number:	15079-11
Sample Designation:	Dry Dock 2 BOT S-11
Date Sampled:	8/20/08
Date Extracted:	8/27/08
Date Analyzed:	9/17/08
Matrix:	TCLP Extract
Dilution Factor:	1
Analyst:	JLZ

TCLP ORGANOCHLORINE PESTICIDES

SW 846 Method 3510C/8081B.

	Concentration ug/L	Quantitation Limit ug/L	Regulatory TCLP Limit ug/L
TCLP gamma-BHC (Lindane)	U	5	400
TCLP Heptachlor	U	5	8
TCLP Endrin	U	5	20
TCLP Methoxychlor	U	5	10000
TCLP alpha-Chlordane	U	5	30
TCLP gamma-Chlordane	U	5	30
TCLP Toxaphene	U	20	500

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	88	30-150
Decachlorobiphenyl	110	30-150

U = Below quantitation limit

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-001
Sample ID: Dry Dock 1 S-1
Matrix: Solid Percent Dry: 32 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 11:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
chloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
vinyl chloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
bromomethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
chloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
trichlorofluoromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
diethyl ether	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
acetone	< 11	11	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
methylene chloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
carbon disulfide	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
trans-1,2-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
isopropyl ether (DIPE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1-dichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
t-butanol (TBA)	< 11	11	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
2-butanone (MEK)	< 1.3	1.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
2,2-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
cis-1,2-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
chloroform	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
bromochloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
tetrahydrofuran (THF)	< 2.2	2.2	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1,1-trichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
carbon tetrachloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2-dichloroethane	< 0.11	0.11	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
benzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
trichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
bromodichloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,4-dioxane	< 2.2	2.2	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
dibromomethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 2.0	2.0	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
cis-1,3-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
toluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
trans-1,3-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
2-hexanone	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1,2-trichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,3-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
tetrachloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
dibromochloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-001
Sample ID: Dry Dock 1 S-1
Matrix: Solid Percent Dry: 32 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 11:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
ethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
m&p-xylenes	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
o-xylene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
styrene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
bromoform	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
isopropylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2,3-trichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
n-propylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
bromobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,3,5-trimethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
2-chlorotoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
4-chlorotoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
tert-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2,4-trimethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
sec-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,3-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
4-isopropyltoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,4-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
n-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2,4-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,3,5-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
hexachlorobutadiene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
naphthalene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
1,2,3-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
toluene-D8 SUR	99	88-110	%	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
4-bromofluorobenzene SUR	102	86-115	%	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B
a,a,a-trifluorotoluene SUR	103	70-130	%	1	LMM	8/21/08	1621	8/22/08	4:18	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-002
Sample ID: Dry Dock 1 S-2
Matrix: Solid Percent Dry: 40.6 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 12:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
chloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
vinyl chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
bromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
chloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
trichlorofluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
diethyl ether	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
acetone	< 8	8	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
methylene chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
carbon disulfide	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
trans-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
isopropyl ether (DIPE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1-dichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
t-butanol (TBA)	< 8	8	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
2-butanone (MEK)	< 1.0	1.0	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
2,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
cis-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
chloroform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
bromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
tetrahydrofuran (THF)	< 1.6	1.6	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1,1-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
carbon tetrachloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2-dichloroethane	< 0.08	0.08	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
benzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
trichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
bromodichloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,4-dioxane	< 1.6	1.6	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
dibromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.4	1.4	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
cis-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
toluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
trans-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
2-hexanone	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1,2-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,3-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
tetrachloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
dibromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-002
Sample ID: Dry Dock 1 S-2
Matrix: Solid Percent Dry: 40.6 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 12:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
chlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
ethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
m&p-xylenes	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
o-xylene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
styrene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
bromoform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
isopropylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2,3-trichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
n-propylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
bromobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,3,5-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
2-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
4-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
tert-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2,4-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
sec-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,3-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
4-isopropyltoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,4-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
n-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2,4-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,3,5-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
hexachlorobutadiene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
naphthalene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
1,2,3-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	94	78-114	%	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
toluene-D8 SUR	98	88-110	%	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
4-bromofluorobenzene SUR	104	86-115	%	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B
a,a,a-trifluorotoluene SUR	99	70-130	%	1	LMM	8/21/08	1621	8/22/08	4:49	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-003
Sample ID: Dry Dock 1 S-3
Matrix: Solid Percent Dry: 37.2 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 13:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
chloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
vinyl chloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
bromomethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
chloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
trichlorofluoromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
diethyl ether	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
acetone	< 9	9	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
methylene chloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
carbon disulfide	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
trans-1,2-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
isopropyl ether (DIPE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1-dichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
t-butanol (TBA)	< 9	9	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
2-butanone (MEK)	< 1.1	1.1	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
2,2-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
cis-1,2-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
chloroform	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
bromochloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
tetrahydrofuran (THF)	< 1.9	1.9	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1,1-trichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
carbon tetrachloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2-dichloroethane	< 0.09	0.09	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
benzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
trichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
bromodichloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,4-dioxane	< 1.9	1.9	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
dibromomethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.7	1.7	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
cis-1,3-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
toluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
trans-1,3-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
2-hexanone	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1,2-trichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,3-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
tetrachloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
dibromochloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-003
Sample ID: Dry Dock 1 S-3
Matrix: Solid Percent Dry: 37.2 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 13:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
ethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
m&p-xylenes	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
o-xylene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
styrene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
bromoform	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
isopropylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2,3-trichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
n-propylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
bromobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,3,5-trimethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
2-chlorotoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
4-chlorotoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
tert-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2,4-trimethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
sec-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,3-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
4-isopropyltoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,4-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
n-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2,4-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,3,5-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
hexachlorobutadiene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
naphthalene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
1,2,3-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	95	78-114	%	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
toluene-D8 SUR	98	88-110	%	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
4-bromofluorobenzene SUR	103	86-115	%	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B
a,a,a-trifluorotoluene SUR	100	70-130	%	1	LMM	8/21/08	1621	8/22/08	5:21	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-004
Sample ID: Dry Dock 3 S-4
Matrix: Solid Percent Dry: 38.4 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 7:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
chloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
vinyl chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
bromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
chloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
trichlorofluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
diethyl ether	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
acetone	< 9	9	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
methylene chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
carbon disulfide	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
trans-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
isopropyl ether (DIPE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1-dichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
t-butanol (TBA)	< 9	9	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
2-butanone (MEK)	< 1.0	1.0	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
2,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
cis-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
chloroform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
bromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
tetrahydrofuran (THF)	< 1.7	1.7	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1,1-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
carbon tetrachloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2-dichloroethane	< 0.09	0.09	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
benzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
trichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
bromodichloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,4-dioxane	< 1.7	1.7	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
dibromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.5	1.5	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
cis-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
toluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
trans-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
2-hexanone	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1,2-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,3-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
tetrachloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
dibromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-004
Sample ID: Dry Dock 3 S-4
Matrix: Solid Percent Dry: 38.4 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 7:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
ethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
m&p-xylenes	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
o-xylene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
styrene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
bromoform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
isopropylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2,3-trichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
n-propylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
bromobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,3,5-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
2-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
4-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
tert-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2,4-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
sec-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,3-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
4-isopropyltoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,4-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
n-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2,4-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,3,5-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
hexachlorobutadiene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
naphthalene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
1,2,3-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	93	78-114	%	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
toluene-D8 SUR	100	88-110	%	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
4-bromofluorobenzene SUR	98	86-115	%	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B
a,a,a-trifluorotoluene SUR	106	70-130	%	1	LMM	8/21/08	1621	8/22/08	5:53	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-005
Sample ID: Dry Dock 3 S-5
Matrix: Solid Percent Dry: 28 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
chloromethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
vinyl chloride	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
bromomethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
chloroethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
trichlorofluoromethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
diethyl ether	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
acetone	< 15	15	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1-dichloroethene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
methylene chloride	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
carbon disulfide	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
trans-1,2-dichloroethene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
isopropyl ether (DIPE)	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1-dichloroethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
t-butanol (TBA)	< 15	15	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
2-butanone (MEK)	< 1.8	1.8	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
2,2-dichloropropane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
cis-1,2-dichloroethene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
chloroform	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
bromochloromethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
tetrahydrofuran (THF)	< 3.0	3.0	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1,1-trichloroethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1-dichloropropene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
carbon tetrachloride	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2-dichloroethane	< 0.15	0.15	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
benzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
trichloroethene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2-dichloropropane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
bromodichloromethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,4-dioxane	< 3.0	3.0	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
dibromomethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 2.7	2.7	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
cis-1,3-dichloropropene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
toluene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
trans-1,3-dichloropropene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
2-hexanone	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1,2-trichloroethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,3-dichloropropane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
tetrachloroethene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
dibromochloromethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-005
Sample ID: Dry Dock 3 S-5
Matrix: Solid Percent Dry: 28 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
ethylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
m&p-xylenes	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
o-xylene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
styrene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
bromoform	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
isopropylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2,3-trichloropropane	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
n-propylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
bromobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,3,5-trimethylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
2-chlorotoluene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
4-chlorotoluene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
tert-butylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2,4-trimethylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
sec-butylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,3-dichlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
4-isopropyltoluene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,4-dichlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2-dichlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
n-butylbenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2,4-trichlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,3,5-trichlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
hexachlorobutadiene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
naphthalene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
1,2,3-trichlorobenzene	< 0.6	0.6	ug/g	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	95	78-114	%	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
toluene-D8 SUR	104	88-110	%	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
4-bromofluorobenzene SUR	102	86-115	%	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B
a,a,a-trifluorotoluene SUR	105	70-130	%	1	LMM	8/21/08	1621	8/22/08	6:24	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-006
Sample ID: Dry Dock 3 S-6
Matrix: Solid Percent Dry: 29.6 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
chloromethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
vinyl chloride	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
bromomethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
chloroethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
trichlorofluoromethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
diethyl ether	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
acetone	< 13	13	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1-dichloroethene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
methylene chloride	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
carbon disulfide	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
trans-1,2-dichloroethene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
isopropyl ether (DIPE)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1-dichloroethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
t-butanol (TBA)	< 13	13	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
2-butanone (MEK)	< 1.5	1.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
2,2-dichloropropane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
cis-1,2-dichloroethene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
chloroform	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
bromochloromethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
tetrahydrofuran (THF)	< 2.6	2.6	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1,1-trichloroethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1-dichloropropene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
carbon tetrachloride	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2-dichloroethane	< 0.13	0.13	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
benzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
trichloroethene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2-dichloropropane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
bromodichloromethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,4-dioxane	< 2.6	2.6	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
dibromomethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 2.3	2.3	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
cis-1,3-dichloropropene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
toluene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
trans-1,3-dichloropropene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
2-hexanone	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1,2-trichloroethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,3-dichloropropane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
tetrachloroethene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
dibromochloromethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-006
Sample ID: Dry Dock 3 S-6
Matrix: Solid Percent Dry: 29.6 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
ethylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
m&p-xylenes	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
o-xylene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
styrene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
bromoform	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
isopropylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2,3-trichloropropane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
n-propylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
bromobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,3,5-trimethylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
2-chlorotoluene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
4-chlorotoluene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
tert-butylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2,4-trimethylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
sec-butylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,3-dichlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
4-isopropyltoluene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,4-dichlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2-dichlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
n-butylbenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2,4-trichlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,3,5-trichlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
hexachlorobutadiene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
naphthalene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
1,2,3-trichlorobenzene	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	93	78-114	%	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
toluene-D8 SUR	100	88-110	%	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
4-bromofluorobenzene SUR	101	86-115	%	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B
a,a,a-trifluorotoluene SUR	102	70-130	%	1	LMM	8/21/08	1621	8/23/08	9:42	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-007
Sample ID: Dry Dock 2 S-7
Matrix: Solid Percent Dry: 51 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
chloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
vinyl chloride	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
bromomethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
chloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
trichlorofluoromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
diethyl ether	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
acetone	< 6	6	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1-dichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
methylene chloride	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
carbon disulfide	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
trans-1,2-dichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
isopropyl ether (DIPE)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1-dichloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
t-butanol (TBA)	< 6	6	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
2-butanone (MEK)	< 0.7	0.7	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
2,2-dichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
cis-1,2-dichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
chloroform	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
bromochloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
tetrahydrofuran (THF)	< 1.1	1.1	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1,1-trichloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1-dichloropropene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
carbon tetrachloride	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2-dichloroethane	< 0.06	0.06	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
benzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
trichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2-dichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
bromodichloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,4-dioxane	< 1.1	1.1	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
dibromomethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.0	1.0	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
cis-1,3-dichloropropene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
toluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
trans-1,3-dichloropropene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
2-hexanone	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1,2-trichloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,3-dichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
tetrachloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
dibromochloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-007
Sample ID: Dry Dock 2 S-7
Matrix: Solid Percent Dry: 51 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
ethylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
m&p-xylenes	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
o-xylene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
styrene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
bromoform	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
isopropylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2,3-trichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
n-propylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
bromobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,3,5-trimethylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
2-chlorotoluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
4-chlorotoluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
tert-butylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2,4-trimethylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
sec-butylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,3-dichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
4-isopropyltoluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,4-dichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2-dichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
n-butylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2,4-trichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,3,5-trichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
hexachlorobutadiene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
naphthalene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
1,2,3-trichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	91	78-114	%	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
toluene-D8 SUR	99	88-110	%	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
4-bromofluorobenzene SUR	100	86-115	%	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B
a,a,a-trifluorotoluene SUR	90	70-130	%	1	LMM	8/21/08	1621	8/23/08	10:14	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-008
Sample ID: Dry Dock 2 S-8
Matrix: Solid Percent Dry: 47.1 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 12:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
chloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
vinyl chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
bromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
chloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
trichlorofluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
diethyl ether	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
acetone	< 6	6	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
methylene chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
carbon disulfide	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
trans-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
isopropyl ether (DIPE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1-dichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
t-butanol (TBA)	< 6	6	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
2-butanone (MEK)	< 0.8	0.8	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
2,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
cis-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
chloroform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
bromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
tetrahydrofuran (THF)	< 1.3	1.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1,1-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
carbon tetrachloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2-dichloroethane	< 0.06	0.06	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
benzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
trichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
bromodichloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,4-dioxane	< 1.3	1.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
dibromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.1	1.1	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
cis-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
toluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
trans-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
2-hexanone	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1,2-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,3-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
tetrachloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
dibromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-008
Sample ID: Dry Dock 2 S-8
Matrix: Solid Percent Dry: 47.1 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 12:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
ethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
m&p-xylenes	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
o-xylene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
styrene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
bromoform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
isopropylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2,3-trichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
n-propylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
bromobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,3,5-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
2-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
4-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
tert-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2,4-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
sec-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,3-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
4-isopropyltoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,4-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
n-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2,4-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,3,5-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
hexachlorobutadiene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
naphthalene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
1,2,3-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	97	78-114	%	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
toluene-D8 SUR	102	88-110	%	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
4-bromofluorobenzene SUR	102	86-115	%	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B
a,a,a-trifluorotoluene SUR	94	70-130	%	1	LMM	8/21/08	1621	8/23/08	10:46	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-009
Sample ID: Dry Dock 2 S-9
Matrix: Solid Percent Dry: 59.5 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 11:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
chloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
vinyl chloride	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
bromomethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
chloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
trichlorofluoromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
diethyl ether	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
acetone	< 4	4	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1-dichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
methylene chloride	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
carbon disulfide	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
trans-1,2-dichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
isopropyl ether (DIPE)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1-dichloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
t-butanol (TBA)	< 4	4	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
2-butanone (MEK)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
2,2-dichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
cis-1,2-dichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
chloroform	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
bromochloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
tetrahydrofuran (THF)	< 0.9	0.9	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1,1-trichloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1-dichloropropene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
carbon tetrachloride	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2-dichloroethane	< 0.04	0.04	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
benzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
trichloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2-dichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
bromodichloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,4-dioxane	< 0.9	0.9	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
dibromomethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 0.8	0.8	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
cis-1,3-dichloropropene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
toluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
trans-1,3-dichloropropene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
2-hexanone	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1,2-trichloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,3-dichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
tetrachloroethene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
dibromochloromethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-009
Sample ID: Dry Dock 2 S-9
Matrix: Solid Percent Dry: 59.5 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 11:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
ethylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
m&p-xylenes	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
o-xylene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
styrene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
bromoform	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
isopropylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2,3-trichloropropane	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
n-propylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
bromobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,3,5-trimethylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
2-chlorotoluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
4-chlorotoluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
tert-butylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2,4-trimethylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
sec-butylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,3-dichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
4-isopropyltoluene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,4-dichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2-dichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
n-butylbenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2,4-trichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,3,5-trichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
hexachlorobutadiene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
naphthalene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
1,2,3-trichlorobenzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	93	78-114	%	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
toluene-D8 SUR	103	88-110	%	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
4-bromofluorobenzene SUR	101	86-115	%	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B
a,a,a-trifluorotoluene SUR	105	70-130	%	1	LMM	8/21/08	1621	8/23/08	11:17	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-010
Sample ID: Dry Dock 2 S-10
Matrix: Solid Percent Dry: 45.7 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
chloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
vinyl chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
bromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
chloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
trichlorofluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
diethyl ether	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
acetone	< 7	7	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
methylene chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
carbon disulfide	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
trans-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
isopropyl ether (DIPE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1-dichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
t-butanol (TBA)	< 7	7	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
2-butanone (MEK)	< 0.8	0.8	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
2,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
cis-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
chloroform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
bromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
tetrahydrofuran (THF)	< 1.3	1.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1,1-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
carbon tetrachloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2-dichloroethane	< 0.07	0.07	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
benzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
trichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
bromodichloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,4-dioxane	< 1.3	1.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
dibromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.2	1.2	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
cis-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
toluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
trans-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
2-hexanone	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1,2-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,3-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
tetrachloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
dibromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-010
Sample ID: Dry Dock 2 S-10
Matrix: Solid Percent Dry: 45.7 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
ethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
m&p-xylenes	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
o-xylene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
styrene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
bromoform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
isopropylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2,3-trichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
n-propylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
bromobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,3,5-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
2-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
4-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
tert-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2,4-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
sec-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,3-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
4-isopropyltoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,4-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
n-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2,4-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,3,5-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
hexachlorobutadiene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
naphthalene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
1,2,3-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	93	78-114	%	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
toluene-D8 SUR	103	88-110	%	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
4-bromofluorobenzene SUR	96	86-115	%	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B
a,a,a-trifluorotoluene SUR	90	70-130	%	1	LMM	8/21/08	1621	8/23/08	11:49	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-011
Sample ID: Dry Dock 2 S-11
Matrix: Solid Percent Dry: 38.3 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
chloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
vinyl chloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
bromomethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
chloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
trichlorofluoromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
diethyl ether	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
acetone	< 10	10	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
methylene chloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
carbon disulfide	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
trans-1,2-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
isopropyl ether (DIPE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1-dichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
t-butanol (TBA)	< 10	10	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
2-butanone (MEK)	< 1.2	1.2	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
2,2-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
cis-1,2-dichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
chloroform	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
bromochloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
tetrahydrofuran (THF)	< 2.1	2.1	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1,1-trichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
carbon tetrachloride	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2-dichloroethane	< 0.10	0.10	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
benzene	< 0.2	0.2	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
trichloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
bromodichloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,4-dioxane	< 2.1	2.1	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
dibromomethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.9	1.9	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
cis-1,3-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
toluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
trans-1,3-dichloropropene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
2-hexanone	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1,2-trichloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,3-dichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
tetrachloroethene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
dibromochloromethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-011
Sample ID: Dry Dock 2 S-11
Matrix: Solid Percent Dry: 38.3 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
ethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
m&p-xylenes	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
o-xylene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
styrene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
bromoform	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
isopropylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2,3-trichloropropane	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
n-propylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
bromobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,3,5-trimethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
2-chlorotoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
4-chlorotoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
tert-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2,4-trimethylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
sec-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,3-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
4-isopropyltoluene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,4-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2-dichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
n-butylbenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2,4-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,3,5-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
hexachlorobutadiene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
naphthalene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
1,2,3-trichlorobenzene	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	91	78-114	%	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
toluene-D8 SUR	102	88-110	%	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
4-bromofluorobenzene SUR	97	86-115	%	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B
a,a,a-trifluorotoluene SUR	103	70-130	%	1	LMM	8/21/08	1621	8/23/08	12:20	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-012
Sample ID: Dry Dock 2 S-12
Matrix: Solid Percent Dry: 44.2 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
chloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
vinyl chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
bromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
chloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
trichlorofluoromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
diethyl ether	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
acetone	< 7	7	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
methylene chloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
carbon disulfide	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
trans-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
isopropyl ether (DIPE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1-dichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
t-butanol (TBA)	< 7	7	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
2-butanone (MEK)	< 0.9	0.9	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
2,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
cis-1,2-dichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
chloroform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
bromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
tetrahydrofuran (THF)	< 1.4	1.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1,1-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
carbon tetrachloride	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2-dichloroethane	< 0.07	0.07	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
benzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
trichloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
bromodichloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,4-dioxane	< 1.4	1.4	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
dibromomethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 1.3	1.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
cis-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
toluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
trans-1,3-dichloropropene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
2-hexanone	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1,2-trichloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,3-dichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
tetrachloroethene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
dibromochloromethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-012
Sample ID: Dry Dock 2 S-12
Matrix: Solid Percent Dry: 44.2 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
ethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
m&p-xylenes	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
o-xylene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
styrene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
bromoform	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
isopropylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2,3-trichloropropane	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
n-propylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
bromobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,3,5-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
2-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
4-chlorotoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
tert-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2,4-trimethylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
sec-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,3-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
4-isopropyltoluene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,4-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2-dichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
n-butylbenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2,4-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,3,5-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
hexachlorobutadiene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
naphthalene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
1,2,3-trichlorobenzene	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	94	78-114	%	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
toluene-D8 SUR	102	88-110	%	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
4-bromofluorobenzene SUR	99	86-115	%	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B
a,a,a-trifluorotoluene SUR	98	70-130	%	1	LMM	8/21/08	1621	8/23/08	12:52	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-013
Sample ID: Trip Blank
Matrix: Solid
Sampled: 8/20/08

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
chloromethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
bromomethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
chloroethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
diethyl ether	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
acetone	< 2	2	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
methylene chloride	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
t-butanol (TBA)	< 2	2	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
2-butanone (MEK)	< 0.3	0.3	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
chloroform	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
tetrahydrofuran (THF)	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2-dichloroethane	< 0.02	0.02	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
benzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
trichloroethene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,4-dioxane	< 0.5	0.5	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
dibromomethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
4-methyl-2-pentanone (MIBK)	< 0.4	0.4	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
toluene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
2-hexanone	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-013
Sample ID: Trip Blank
Matrix: Solid
Sampled: 8/20/08

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
o-xylene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
styrene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
bromoform	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
bromobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
naphthalene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	89	78-114	%	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
toluene-D8 SUR	98	88-110	%	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
4-bromofluorobenzene SUR	98	86-115	%	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B
a,a,a-trifluorotoluene SUR	101	70-130	%	1	LMM	8/21/08	1621	8/22/08	3:14	SW5035A8260B

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-001
Sample ID: Dry Dock 1 S-1
Matrix: Solid Percent Dry: 32 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 11:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
2-methylnaphthalene	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
acenaphthylene	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
acenaphthene	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
dibenzofuran	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
fluorene	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
phenanthrene	**0.2**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
anthracene	**0.2**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
fluoranthene	**0.7**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
pyrene	**0.8**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
benzo(a)anthracene	**0.4**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
chrysene	**0.4**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
carbazole	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
benzo(b)fluoranthene	**0.4**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
benzo(k)fluoranthene	**0.3**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
benzo(a)pyrene	**0.4**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
indeno(1,2,3-cd)pyrene	**0.2**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
dibenzo(a,h)anthracene	< 0.2	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
benzo(g,h,i)perylene	**0.2**	0.2	ug/g	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	55	43-116	%	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
o-terphenyl SUR	64	33-141	%	1	AJD	8/26/08	1628	8/28/08	20:29	SW3550B8270C
PCB-1016	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
PCB-1221	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
PCB-1232	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
PCB-1242	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
PCB-1248	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
PCB-1254	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
PCB-1260	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	94	30-150	%	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082
decachlorobiphenyl SUR	69	30-150	%	1	JLZ	8/25/08	1624	8/25/08	18:52	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-002
Sample ID: Dry Dock 1 S-2
Matrix: Solid Percent Dry: 40.6 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 12:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
2-methylnaphthalene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
acenaphthylene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
acenaphthene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
dibenzofuran	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
fluorene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
phenanthrene	**0.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
anthracene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
fluoranthene	**0.6**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
pyrene	**0.6**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
benzo(a)anthracene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
chrysene	**0.3**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
carbazole	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
benzo(b)fluoranthene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
benzo(k)fluoranthene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
benzo(a)pyrene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
dibenzo(a,h)anthracene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
benzo(g,h,i)perylene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	39 #	43-116	%	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C
o-terphenyl SUR	47	33-141	%	1	AJD	8/26/08	1628	8/29/08	12:27	SW3550B8270C

 # = This surrogate is below the acceptance criteria. Matrix interference is suspected.

PCB-1016	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
PCB-1221	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
PCB-1232	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
PCB-1242	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
PCB-1248	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
PCB-1254	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
PCB-1260	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	80	30-150	%	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082
decachlorobiphenyl SUR	65	30-150	%	1	JLZ	8/25/08	1624	8/25/08	19:14	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-003
Sample ID: Dry Dock 1 S-3
Matrix: Solid Percent Dry: 37.2 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 13:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
2-methylnaphthalene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
acenaphthylene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
acenaphthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
dibenzofuran	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
fluorene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
phenanthrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
fluoranthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
benzo(a)anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
chrysene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
carbazole	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
benzo(b)fluoranthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
benzo(k)fluoranthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
benzo(a)pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
dibenzo(a,h)anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
benzo(g,h,i)perylene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	72	43-116	%	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
o-terphenyl SUR	77	33-141	%	1	AJD	8/26/08	1628	8/28/08	15:03	SW3550B8270C
PCB-1016	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
PCB-1221	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
PCB-1232	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
PCB-1242	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
PCB-1248	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
PCB-1254	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
PCB-1260	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	67	30-150	%	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082
decachlorobiphenyl SUR	49	30-150	%	1	JLZ	8/25/08	1624	8/25/08	19:36	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-004
Sample ID: Dry Dock 3 S-4
Matrix: Solid Percent Dry: 38.4 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 7:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
2-methylnaphthalene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
acenaphthylene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
acenaphthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
dibenzofuran	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
fluorene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
phenanthrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
fluoranthene	**1.0**	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
pyrene	**1.1**	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
benzo(a)anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
chrysene	**0.6**	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
carbazole	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
benzo(b)fluoranthene	**0.6**	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
benzo(k)fluoranthene	**0.5**	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
benzo(a)pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
dibenzo(a,h)anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
benzo(g,h,i)perylene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	93	43-116	%	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
o-terphenyl SUR	94	33-141	%	1	AJD	8/26/08	1628	8/28/08	15:44	SW3550B8270C
PCB-1016	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
PCB-1221	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
PCB-1232	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
PCB-1242	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
PCB-1248	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
PCB-1254	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
PCB-1260	< 0.4	0.4	ug/g	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	93	30-150	%	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082
decachlorobiphenyl SUR	76	30-150	%	1	JLZ	8/25/08	1624	8/25/08	19:59	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-005
Sample ID: Dry Dock 3 S-5
Matrix: Solid Percent Dry: 28 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
2-methylnaphthalene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
acenaphthylene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
acenaphthene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
dibenzofuran	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
fluorene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
phenanthrene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
anthracene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
fluoranthene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
pyrene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
benzo(a)anthracene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
chrysene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
carbazole	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
benzo(b)fluoranthene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
benzo(k)fluoranthene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
benzo(a)pyrene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
dibenzo(a,h)anthracene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
benzo(g,h,i)perylene	< 0.7	0.7	ug/g	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	40 #	43-116	%	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C
o-terphenyl SUR	48	33-141	%	1	AJD	8/26/08	1628	8/28/08	16:25	SW3550B8270C

 # = This surrogate is below the acceptance criteria. Matrix interference is suspected.

PCB-1016	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
PCB-1221	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
PCB-1232	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
PCB-1242	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
PCB-1248	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
PCB-1254	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
PCB-1260	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	74	30-150	%	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082
decachlorobiphenyl SUR	54	30-150	%	1	JLZ	8/25/08	1624	8/25/08	20:21	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-006
Sample ID: Dry Dock 3 S-6
Matrix: Solid Percent Dry: 29.6 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
2-methylnaphthalene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
acenaphthylene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
acenaphthene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
dibenzofuran	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
fluorene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
phenanthrene	**0.7**	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
anthracene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
fluoranthene	**0.9**	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
pyrene	**0.7**	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
benzo(a)anthracene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
chrysene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
carbazole	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
benzo(b)fluoranthene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
benzo(k)fluoranthene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
benzo(a)pyrene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
dibenzo(a,h)anthracene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
benzo(g,h,i)perylene	< 0.6	0.6	ug/g	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	50	43-116	%	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
o-terphenyl SUR	57	33-141	%	1	AJD	8/26/08	1628	8/28/08	17:05	SW3550B8270C
PCB-1016	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
PCB-1221	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
PCB-1232	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
PCB-1242	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
PCB-1248	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
PCB-1254	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
PCB-1260	< 0.5	0.5	ug/g	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	74	30-150	%	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082
decachlorobiphenyl SUR	55	30-150	%	1	JLZ	8/25/08	1624	8/25/08	20:43	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-007
Sample ID: Dry Dock 2 S-7
Matrix: Solid Percent Dry: 51 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
2-methylnaphthalene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
acenaphthylene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
acenaphthene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
dibenzofuran	**0.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
fluorene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
phenanthrene	**1.6**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
anthracene	**0.4**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
fluoranthene	**2.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
pyrene	**2.0**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
benzo(a)anthracene	**0.9**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
chrysene	**1.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
carbazole	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
benzo(b)fluoranthene	**0.6**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
benzo(k)fluoranthene	**0.7**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
benzo(a)pyrene	**0.8**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
indeno(1,2,3-cd)pyrene	**0.3**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
dibenzo(a,h)anthracene	**0.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
benzo(g,h,i)perylene	**0.3**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	56	43-116	%	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
o-terphenyl SUR	62	33-141	%	1	AJD	8/26/08	1628	8/29/08	13:07	SW3550B8270C
PCB-1016	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
PCB-1221	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
PCB-1232	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
PCB-1242	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
PCB-1248	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
PCB-1254	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
PCB-1260	< 0.7	0.7	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	92	30-150	%	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082
decachlorobiphenyl SUR	82	30-150	%	1	JLZ	8/25/08	1624	8/25/08	21:05	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-008
Sample ID: Dry Dock 2 S-8
Matrix: Solid Percent Dry: 47.1 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 12:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
2-methylnaphthalene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
acenaphthylene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
acenaphthene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
dibenzofuran	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
fluorene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
phenanthrene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
anthracene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
fluoranthene	**0.7**	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
pyrene	**0.5**	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
benzo(a)anthracene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
chrysene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
carbazole	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
benzo(b)fluoranthene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
benzo(k)fluoranthene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
benzo(a)pyrene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
dibenzo(a,h)anthracene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
benzo(g,h,i)perylene	< 0.4	0.4	ug/g	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	57	43-116	%	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
o-terphenyl SUR	74	33-141	%	1	AJD	8/27/08	1628	8/28/08	17:46	SW3550B8270C
PCB-1016	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
PCB-1221	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
PCB-1232	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
PCB-1242	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
PCB-1248	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
PCB-1254	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
PCB-1260	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	91	30-150	%	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082
decachlorobiphenyl SUR	93	30-150	%	1	JLZ	8/25/08	1624	8/25/08	21:28	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-009
Sample ID: Dry Dock 2 S-9
Matrix: Solid Percent Dry: 59.5 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 11:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
2-methylnaphthalene	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
acenaphthylene	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
acenaphthene	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
dibenzofuran	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
fluorene	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
phenanthrene	**1.2**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
anthracene	**0.4**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
fluoranthene	**2.2**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
pyrene	**1.8**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
benzo(a)anthracene	**0.7**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
chrysene	**1.0**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
carbazole	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
benzo(b)fluoranthene	**0.5**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
benzo(k)fluoranthene	**0.7**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
benzo(a)pyrene	**0.6**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
indeno(1,2,3-cd)pyrene	**0.4**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
dibenzo(a,h)anthracene	< 0.3	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
benzo(g,h,i)perylene	**0.4**	0.3	ug/g	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	93	43-116	%	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
o-terphenyl SUR	111	33-141	%	1	AJD	8/26/08	1628	8/28/08	18:27	SW3550B8270C
PCB-1016	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
PCB-1221	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
PCB-1232	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
PCB-1242	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
PCB-1248	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
PCB-1254	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
PCB-1260	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	95	30-150	%	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082
decachlorobiphenyl SUR	97	30-150	%	1	JLZ	8/25/08	1624	8/25/08	23:18	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-010
Sample ID: Dry Dock 2 S-10
Matrix: Solid Percent Dry: 45.7 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
2-methylnaphthalene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
acenaphthylene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
acenaphthene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
dibenzofuran	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
fluorene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
phenanthrene	**0.6**	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
anthracene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
fluoranthene	**1.8**	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
pyrene	**1.5**	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
benzo(a)anthracene	**0.4**	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
chrysene	**0.9**	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
carbazole	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
benzo(b)fluoranthene	**0.5**	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
benzo(k)fluoranthene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
benzo(a)pyrene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
dibenzo(a,h)anthracene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
benzo(g,h,i)perylene	< 0.4	0.4	ug/g	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	69	43-116	%	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
o-terphenyl SUR	83	33-141	%	1	AJD	8/26/08	1628	8/28/08	19:07	SW3550B8270C
PCB-1016	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
PCB-1221	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
PCB-1232	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
PCB-1242	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
PCB-1248	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
PCB-1254	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
PCB-1260	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	54	30-150	%	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082
decachlorobiphenyl SUR	42	30-150	%	1	JLZ	8/25/08	1624	8/25/08	23:41	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-011
Sample ID: Dry Dock 2 S-11
Matrix: Solid Percent Dry: 38.3 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
2-methylnaphthalene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
acenaphthylene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
acenaphthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
dibenzofuran	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
fluorene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
phenanthrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
fluoranthene	0.7	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
pyrene	0.6	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
benzo(a)anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
chrysene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
carbazole	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
benzo(b)fluoranthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
benzo(k)fluoranthene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
benzo(a)pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
dibenzo(a,h)anthracene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
benzo(g,h,i)perylene	< 0.5	0.5	ug/g	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	66	43-116	%	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
o-terphenyl SUR	71	33-141	%	1	AJD	8/26/08	1628	8/28/08	19:48	SW3550B8270C
PCB-1016	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
PCB-1221	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
PCB-1232	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
PCB-1242	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
PCB-1248	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
PCB-1254	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
PCB-1260	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	40	30-150	%	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082
decachlorobiphenyl SUR	22 *	30-150	%	1	JLZ	8/25/08	1624	8/26/08	0:03	SW3546/8082

***** = *This surrogate showed recovery outside the acceptance limits. Matrix interference suspected.***

Project ID: PNSY Dredging Project
Lab ID: 15079
Lab Number: 15079-012
Sample ID: Dry Dock 2 S-12
Matrix: Solid Percent Dry: 44.2 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
naphthalene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
2-methylnaphthalene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
acenaphthylene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
acenaphthene	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
dibenzofuran	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
fluorene	**0.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
phenanthrene	**0.7**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
anthracene	**6.4** M	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
M = The percent recovery for the matrix spike was outside of the acceptance limits. All other batch QC met acceptance criteria. Matrix interference suspected.										
fluoranthene	**2.0**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
pyrene	**1.8**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
benzo(a)anthracene	**2.6**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
chrysene	**3.9** M	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
M = The percent recovery for the matrix spike was outside of the acceptance limits. All other batch QC met acceptance criteria. Matrix interference suspected.										
carbazole	< 0.1	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
benzo(b)fluoranthene	**0.9**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
benzo(k)fluoranthene	**1.3**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
benzo(a)pyrene	**1.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
indeno(1,2,3-cd)pyrene	**0.3**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
dibenzo(a,h)anthracene	**0.1**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
benzo(g,h,i)perylene	**0.2**	0.1	ug/g	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	55	43-116	%	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C
o-terphenyl SUR	57	33-141	%	1	AJD	8/26/08	1628	8/29/08	13:48	SW3550B8270C

Note: Sample duplicate analysis showed poor precision. The analysis with higher values has been reported.

PCB-1016	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
PCB-1221	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
PCB-1232	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
PCB-1242	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
PCB-1248	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
PCB-1254	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
PCB-1260	< 0.3	0.3	ug/g	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	109	30-150	%	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082
decachlorobiphenyl SUR	89	30-150	%	1	JLZ	8/25/08	1624	8/26/08	0:25	SW3546/8082

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-001
Sample ID: Dry Dock 1 S-1
Matrix: Solid Percent Dry: 32 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 11:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**15000**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Arsenic	**15**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Barium	**40**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Boron	**38**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Cadmium	**0.4**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Chromium	**78**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Copper	**43**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Lead	**37**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Mercury	**0.08**	0.05	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Nickel	**18**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Silver	< 0.5	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B
Zinc	**120**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:27	SW3051A6010B

Lab Number: 15079-002
Sample ID: Dry Dock 1 S-2
Matrix: Solid Percent Dry: 40.6 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 12:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**14000**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Arsenic	**9.8**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Barium	**40**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Boron	**41**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Cadmium	**0.5**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Chromium	**100**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Copper	**65**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Lead	**62**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Mercury	**0.13**	0.04	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Nickel	**24**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Silver	**0.5**	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B
Zinc	**150**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:39	SW3051A6010B

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-003
Sample ID: Dry Dock 1 S-3
Matrix: Solid Percent Dry: 37.2 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 13:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**17000**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Arsenic	**13**	0.9	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Barium	**53**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Boron	**50**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Cadmium	**0.5**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Chromium	**94**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Copper	**71**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Lead	**71**	0.9	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Mercury	**0.06**	0.04	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Nickel	**23**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Silver	< 0.6	0.6	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B
Zinc	**150**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:44	SW3051A6010B

Lab Number: 15079-004
Sample ID: Dry Dock 3 S-4
Matrix: Solid Percent Dry: 38.4 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 7:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**14000**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Arsenic	**16**	0.8	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Barium	**36**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Boron	**33**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Cadmium	**0.6**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Chromium	**99**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Copper	**76**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Lead	**40**	0.8	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Mercury	**0.10**	0.04	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Nickel	**17**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Silver	< 0.5	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B
Zinc	**110**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	15:55	SW3051A6010B

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-005
Sample ID: Dry Dock 3 S-5
Matrix: Solid Percent Dry: 28 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**16000**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Arsenic	**12**	1.2	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Barium	**45**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Boron	**59**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Cadmium	**0.7**	0.6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Chromium	**72**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Copper	**44**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Lead	**40**	1.2	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Mercury	< 0.06	0.06	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 6	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Nickel	**21**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Selenium	< 6	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Silver	< 0.8	0.8	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B
Zinc	**120**	6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:02	SW3051A6010B

Lab Number: 15079-006
Sample ID: Dry Dock 3 S-6
Matrix: Solid Percent Dry: 29.6 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**18000**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Arsenic	**17**	1.4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Barium	**54**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Boron	**53**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Cadmium	< 0.7	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Chromium	**93**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Copper	**38**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Lead	**43**	1.4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Mercury	< 0.06 M	0.06	ug/g	1	BJS		0802244	8/25/08		SW7470A
M - Matrix spike recovery was 49%, outside the control limits of 75-125%. Matrix interference suspected.										
Molybdenum	< 7	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Nickel	**21**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Selenium	< 7	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Silver	< 1.0	1.0	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B
Zinc	**120**	7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:08	SW3051A6010B

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-007
Sample ID: Dry Dock 2 S-7
Matrix: Solid Percent Dry: 51 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	12000	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Arsenic	**9.8**	0.6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Barium	**68**	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Boron	**32**	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Cadmium	**0.8**	0.3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Chromium	**100**	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Copper	**110**	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Lead	**380**	0.6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Mercury	**0.56**	0.03	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 3	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Nickel	**26**	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Selenium	< 3	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Silver	**0.7**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B
Zinc	**310**	3	ug/g	1	BJS	8/27/08	1633	8/27/08	16:13	SW3051A6010B

Lab Number: 15079-008
Sample ID: Dry Dock 2 S-8
Matrix: Solid Percent Dry: 47.1 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 12:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	14000	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Arsenic	**88**	0.9	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Barium	**68**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Boron	**37**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Cadmium	**1.0**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Chromium	**140**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Copper	**850**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Lead	**420**	0.9	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Mercury	**0.27**	0.03	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Nickel	**25**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Silver	**0.7**	0.6	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B
Zinc	**260**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:20	SW3051A6010B

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-009
Sample ID: Dry Dock 2 S-9
Matrix: Solid Percent Dry: 59.5 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 11:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**9400**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Arsenic	**14**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Barium	**100**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Boron	**32**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Cadmium	**1.0**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Chromium	**50**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Copper	**290**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Lead	**910**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Mercury	**0.98**	0.03	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Nickel	**17**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Silver	< 0.5	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B
Zinc	**600**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	16:26	SW3051A6010B

Lab Number: 15079-010
Sample ID: Dry Dock 2 S-10
Matrix: Solid Percent Dry: 45.7 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**10000**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Arsenic	**9.8**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Barium	**35**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Boron	**32**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Cadmium	**0.4**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Chromium	**62**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Copper	**35**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Lead	**45**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Mercury	**0.19**	0.04	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Nickel	**17**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Silver	**0.5**	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B
Zinc	**230**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:10	SW3051A6010B

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-011
Sample ID: Dry Dock 2 S-11
Matrix: Solid Percent Dry: 38.3 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**15000**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Arsenic	**12**	0.9	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Barium	**76**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Boron	**47**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Cadmium	**0.8**	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Chromium	**120**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Copper	**150**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Lead	**450**	0.9	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Mercury	**0.08**	0.04	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 5	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Nickel	**35**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Selenium	< 5	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Silver	**0.7**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B
Zinc	**1900**	5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:19	SW3051A6010B

Lab Number: 15079-012
Sample ID: Dry Dock 2 S-12
Matrix: Solid Percent Dry: 44.2 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Aluminum	**14000**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Arsenic	**9.3**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Barium	**52**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Boron	**40**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Cadmium	**0.5**	0.4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Chromium	**99**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Copper	**110**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Lead	**77**	0.7	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Mercury	**0.13**	0.04	ug/g	1	BJS		0802244	8/25/08		SW7470A
Molybdenum	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Nickel	**21**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Selenium	< 4	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Silver	< 0.5	0.5	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B
Zinc	**160**	4	ug/g	1	BJS	8/27/08	1633	8/27/08	17:27	SW3051A6010B

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-001
Sample ID: Dry Dock 1 S-1
Matrix: Solid Percent Dry: 32 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 11:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**27000**	780	ug/g	50	AJD		0802294	8/27/08	15:45	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**7.67**		pH	1	APA		0802225	8/22/08	3:30	E150.1
Sulfide-soluble	< 1.2	1.2	ug/g	1	APA		0802235	8/25/08		SM4500-S
Cyanide, total	< 6.2	6.2	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**560**	39	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-002
Sample ID: Dry Dock 1 S-2
Matrix: Solid Percent Dry: 40.6 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 12:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**21000**	620	ug/g	50	AJD		0802294	8/27/08	19:13	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.33**		pH	1	APA		0802225	8/22/08	3:35	E150.1
Cyanide, total	< 4.9	4.9	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**460**	31	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-003
Sample ID: Dry Dock 1 S-3
Matrix: Solid Percent Dry: 37.2 % Results are expressed on a dry weight basis.
Sampled: 8/19/08 13:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**25000**	670	ug/g	50	AJD		0802294	8/27/08	19:27	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**7.54**		pH	1	APA		0802225	8/22/08	3:40	E150.1
Cyanide, total	< 5.4	5.4	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**510**	34	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-004
Sample ID: Dry Dock 3 S-4
Matrix: Solid Percent Dry: 38.4 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 7:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**22000**	650	ug/g	50	AJD		0802294	8/27/08	19:40	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**7.73**		pH	1	APA		0802225	8/22/08	3:45	E150.1
Sulfide-soluble	< 1.0	1.0	ug/g	1	APA		0802235	8/25/08		SM4500-S
Cyanide, total	< 5.2	5.2	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**510**	33	ug/g	50	APA		0802248	8/26/08		E365.3

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-005
Sample ID: Dry Dock 3 S-5
Matrix: Solid Percent Dry: 28 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**37000**	890	ug/g	50	AJD		0802294	8/27/08	19:53	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**7.85**		pH	1	APA		0802225	8/22/08	3:50	E150.1
Cyanide, total	< 7.2	7.2	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**570**	45	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-006
Sample ID: Dry Dock 3 S-6
Matrix: Solid Percent Dry: 29.6 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**32000**	840	ug/g	50	AJD		0802294	8/27/08	20:07	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**7.75**		pH	1	APA		0802225	8/22/08	3:55	E150.1
Cyanide, total	< 6.8	6.8	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**680**	42	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-007
Sample ID: Dry Dock 2 S-7
Matrix: Solid Percent Dry: 51 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**15000**	490	ug/g	50	AJD		0802294	8/27/08	20:20	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.51**		pH	1	APA		0802225	8/22/08	4:00	E150.1
Sulfide-soluble	< 0.8	0.8	ug/g	1	APA		0802235	8/25/08		SM4500-S
Cyanide, total	< 3.9	3.9	ug/g	1	APA		0802260	8/27/08		E9014
Total Phosphorus as P	**360**	24	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-008
Sample ID: Dry Dock 2 S-8
Matrix: Solid Percent Dry: 47.1 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 12:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**12000**	530	ug/g	50	AJD		0802294	8/27/08	20:47	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.25**		pH	1	APA		0802225	8/22/08	4:05	E150.1
Cyanide, total	< 4.2	4.2	ug/g	1	APA		0802261	8/27/08		E9014
Total Phosphorus as P	**450**	27	ug/g	50	APA		0802248	8/26/08		E365.3

Project ID: PNSY Dredging Project
Lab ID: 15079

Lab Number: 15079-009
Sample ID: Dry Dock 2 S-9
Matrix: Solid Percent Dry: 59.5 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 11:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**9500**	420	ug/g	50	AJD		0802317	8/28/08	16:14	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.38**		pH	1	APA		0802225	8/22/08	4:10	E150.1
Sulfide-soluble	< 0.7	0.7	ug/g	1	APA		0802235	8/25/08		SM4500-S
Cyanide, total	< 3.4	3.4	ug/g	1	APA		0802261	8/27/08		E9014
Total Phosphorus as P	**290**	21	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-010
Sample ID: Dry Dock 2 S-10
Matrix: Solid Percent Dry: 45.7 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**16000**	550	ug/g	50	AJD		0802317	8/28/08	16:27	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.23**		pH	1	APA		0802225	8/22/08	4:15	E150.1
Sulfide-soluble	< 0.9	0.9	ug/g	1	APA		0802235	8/25/08		SM4500-S
Cyanide, total	< 4.4	4.4	ug/g	1	APA		0802261	8/27/08		E9014
Total Phosphorus as P	**530**	27	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-011
Sample ID: Dry Dock 2 S-11
Matrix: Solid Percent Dry: 38.3 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**17000**	650	ug/g	50	AJD		0802317	8/28/08	16:40	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.06**		pH	1	APA		0802225	8/22/08	4:20	E150.1
Sulfide-soluble	< 1.0	1.0	ug/g	1	APA		0802235	8/25/08		SM4500-S
Cyanide, total	< 5.2	5.2	ug/g	1	APA		0802261	8/27/08		E9014
Total Phosphorus as P	**550**	33	ug/g	50	APA		0802248	8/26/08		E365.3

Lab Number: 15079-012
Sample ID: Dry Dock 2 S-12
Matrix: Solid Percent Dry: 44.2 % Results are expressed on a dry weight basis.
Sampled: 8/20/08 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chloride	**17000**	570	ug/g	50	AJD		0802317	8/28/08	16:54	E300.0A
Ignitability	**NonIgnitable**			1	BJS		0802301	8/29/08		SW1010
pH	**8.36**		pH	1	APA		0802225	8/22/08	4:25	E150.1
Cyanide, total	< 4.5	4.5	ug/g	1	APA		0802261	8/27/08		E9014
Total Phosphorus as P	**550**	28	ug/g	50	APA		0802248	8/26/08		E365.3

Project ID: PNSY Dredging Project

Lab ID: 15079

Lab Number: 15079-001

Sample ID: Dry Dock 1 S-1

Matrix: Solid Percent Dry: 32 % Results are expressed on a dry weight basis.

Sampled: 8/19/08 11:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.5 S	2.5	ug/g	1	ST		0802363	8/29/08		SW7196A

M = The percent recovery for the MS/D were below the acceptance criteria (15%/12%); however, the associated LCS/LCSD recoveries were within criteria. The results of the sample utilized for the MS/D are considered to have a potentially low bias.

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.33 S	0.30	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	2.69 S	0.30	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-002

Sample ID: Dry Dock 1 S-2

Matrix: Solid Percent Dry: 40.6 % Results are expressed on a dry weight basis.

Sampled: 8/19/08 12:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.0 S	2.0	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.56 S	0.24	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	2.90 S	0.23	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-003

Sample ID: Dry Dock 1 S-3

Matrix: Solid Percent Dry: 37.2 % Results are expressed on a dry weight basis.

Sampled: 8/19/08 13:55

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.2 S	2.2	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.87 S	0.26	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	3.13 S	0.26	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-004

Sample ID: Dry Dock 3 S-4

Matrix: Solid Percent Dry: 38.4 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 7:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.1 S	2.1	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.05 S	0.25	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	1.84 S	0.26	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Project ID: PNSY Dredging Project

Lab ID: 15079

Lab Number: 15079-005

Sample ID: Dry Dock 3 S-5

Matrix: Solid Percent Dry: 28 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 8:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.8 S	2.8	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	3.62 S	0.34	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	3.51 S	0.37	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-006

Sample ID: Dry Dock 3 S-6

Matrix: Solid Percent Dry: 29.6 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 8:35

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.7 S	2.7	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	1.88 S	0.29	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	2.28 S	0.32	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-007

Sample ID: Dry Dock 2 S-7

Matrix: Solid Percent Dry: 51 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 13:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 1.6 S	1.6	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	3.02 S	0.20	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	3.46 S	0.19	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-008

Sample ID: Dry Dock 2 S-8

Matrix: Solid Percent Dry: 47.1 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 12:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 1.7 S	1.7	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.55 S	0.20	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	2.63 S	0.20	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Project ID: PNSY Dredging Project

Lab ID: 15079

Lab Number: 15079-009

Sample ID: Dry Dock 2 S-9

Matrix: Solid Percent Dry: 59.5 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 11:20

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 1.4 S	1.4	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.16 S	0.17	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	1.90 S	0.16	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-010

Sample ID: Dry Dock 2 S-10

Matrix: Solid Percent Dry: 45.7 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 1.7 S	1.7	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.83 S	0.19	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	2.62 S	0.21	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-011

Sample ID: Dry Dock 2 S-11

Matrix: Solid Percent Dry: 38.3 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 2.1 S	2.1	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	1.92 S	0.24	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	1.96 S	0.24	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

Lab Number: 15079-012

Sample ID: Dry Dock 2 S-12

Matrix: Solid Percent Dry: 44.2 % Results are expressed on a dry weight basis.

Sampled: 8/20/08 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 1.8 S	1.8	ug/g	1	ST		0802363	8/29/08		SW7196A

S = The hexavalent chromium result provided by Alpha Analytical of Westborough, MA.

Total Organic Carbon (TOC)	2.89 S	0.22	%	1	JFG		0802356	8/28/08		SW9060
Total Organic Carbon (TOC) dup	2.61 S	0.22	%	1	JFG		0802357	8/28/08		SW9060

S = The TOC result provided by Northeast Laboratory Services of Waterville, ME.

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

15079

Company Name: Appledore Engineering, Inc.
Phone #: 603-433-8818
FAX #: 603-433-8988

Company Address: 15 Rye Street, Suite 305

Report To: Appledore Eng. Inc.

Project Info: NH MA ME VT
PNSY Dredging Project

Invoice To: Appledore Eng. Inc.

Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER (Sediment)	Preservation: HCl	HNO3	H2SO4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*
15079-01	Dry Dock1 S-1	9			X							8-19-08	1155	
↓	S-1	2			X							↓	↓	
-02	S-2	9	~~JB~~		X								1235	
	~~S-2~~	~~4~~			X								↓	
-03	S-3	9	~~JB~~		X								1355	
↓	~~S-3~~	~~4~~			X							↓	↓	
	~~JB~~ [illegible]													

ANALYSIS REQUEST

Columns:
1. ☐ VOC 8260 ☒ VOC 8260 NHDES ☐ VOC 8260 MADEP
2. ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only
3. ☐ VPH MADEP ☐ MEGRO ☐ GRO
4. ☐ VOC 524.2 ☐ VOC 524.2 NH List
5. ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
6. ☒ 8270PAH ☐ 8270ABN ☐ 625
7. ☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
8. ☐ O&G 1664 ☐ Mineral O&G SM5520F
9. ☒ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☒ CN JB
10. ☐ TSS ☐ TDS ☐ TS
11. ☒ ~~RCRA Metals ☐ Priority Pollutant Metals~~ ☐ TAL Metals
12. ☒ Total Metals-list ☐ Dissolved Metals-list
13. ~~☒ Ammonia ☐ COD ☐ TKN~~ Herbicides SS
14. ☒ T-Phosphorus ☐ Phenol
15. ☐ Cyanide ☒ Sulfide
16. ☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☒ Chloride
17. ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☒ Ignitibility/FP
18. ☒ TCLP Metals ☒ TCLP VOC ☒ TCLP SVOC
19. ☒ TCLP Pesticide ☒ TCLP Herbicides (subcontract)
20. ☐ Standard Drinking Water Test ☐ Bacteria P/A
21. Dioxins 8290 ☒ CrVI JB
22. Grain Size w/Hydrometer
23. Total Organic Carbon (+Dup)
24. Grab (G) or Composite (C)

Field ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Dry Dock1 S-1 (9)	X					X	X		X		~~X~~	X	~~X~~	X	~~X~~	X	X				X	X	X	
S-1 (2)											X				X			X	X					
S-2 (9)	X					X	X		X		~~X~~	X	~~X~~	X	~~X~~	X	X	~~JB~~	~~JB~~		X	X	X	
~~S-2~~																								
S-3 (9)	X					X	X		X		~~X~~	X	~~X~~	X	~~X~~	X	X	~~JB~~	~~JB~~		X	X	X	
~~S-3~~											SS		SS		SS									

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed

* See www.reslabs.com for sample acceptance policy.

E-Mail Address
Quote #
PO #

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE ~~ae~~ Callers 5 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: James Bajek	8/20/08	~~JB~~ 1510	Received by: [signature]	8/20/08	1510
Relinquished by: [signature]	8/20/08	1547	Received by:		
Relinquished by:			Received by Laboratory: [signature] Way Bill #:	8/20/08	1547

RL Resource Laboratories, LLC
124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

15079

Company Name: Appledore Engineering, Inc.
Phone #603-433-8818
FAX #603-433-8988
Company Address: 15 Rye St., Suite 305
Report To: Appledore Eng, Inc
Project Info: NH MA ME VT — PNSY Dredging Project
Invoice To: Appledore Eng., Inc
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation: HCl	Preservation: HNO_3	Preservation: H_2SO_4	Preservation: NaOH	Preservation: MeOH	Preservation: OTHER (Specify)	Sampling: DATE	Sampling: TIME	SAMPLER*
04	DryDock 3 S-4	9			X							8-20-08	0730	
1	S-4	2			X								0730	
05	S-5	9			X								0815	
06	S-6	9			X								0835	

ANALYSIS REQUEST

Lab Sample ID	VOC 8260 NHDES	VOC 8260 MADEP	VOC 8260	VOC 624	VOC BTEX	VPH MADEP	VOC 524.2	TPH	8270PAH	8082 PCB	O&G 1664	pH	TSS	RCRA Metals	Total Metals-list	T-Phosphorus	Cyanide	Nitrate	Corrosivity	TCLP Metals	TCLP Pesticide	Standard Drinking Water Test	Dioxins 8290	Grain Size	Total Organic Carbon (+Dup)
04			X						X	X		X		X	X	X	X	X	X				X	X	X
1																	X			X	X				
05	X								X	X		X		X	X	X	X	X	X				X	X	X
06	X								X	X		X		X	X	X	X	X	X				X	X	X

Herbicides

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed

* See www.reslabs.com for sample acceptance policy.

E-Mail Address
Quote #
PO #

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE all Coolers 5 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Sampler: James Bajek	8/20/08	1510	[signature]	8/20/08	1510
[signature]	8/20/08	1547	[signature]	8/20/08	1547
			Received by Laboratory:		
			Way Bill#:		

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 1507?

Company Name: Appledore Engineering, Inc.
Phone #: 603-433-8818
FAX #: 603-433-8988
Company Address: 15 Rye St., Suite 305
Report To: Appledore Eng, Inc.
Project Info: NH MA ME VT — PNSY Dredging Project
Invoice To: ↓
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER (SEDIMENT)	Preservation: HCl	HNO₃	H₂SO₄	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*
-07	Dry Dock 2 5-7	9			X							8-20-08	1300	
↓	TOP 5-7	2			↓							↓	↓	
-08	5-8	9			↓							↓	1215	
-09	5-9	9			↓							↓	1120	
↓	BOT S-9	2			↓							↓	1120	
-10	5-10	9			↓							↓	1040	
↓	TOP 5-10	2			↓							↓	1040	
-11	5-11	9			↓							↓	1000	
↓	BOT 5-11	2			↓							↓	1000	
-12	5-12	9			↓							↓	1350	
-13	Trip Blank	1			X					X		—	—	

ANALYSIS REQUEST

Columns: (1) VOC 8260 / ☒ VOC 8260 NHDES / VOC 8260 MADEP; (2) VOC 624 / VOC BTEX / MtBE, only; (3) VPH MADEP / MEGRO / GRO; (4) VOC 524.2 / VOC 524.2 NH List; (5) TPH / DRO 8015 / MEDRO / EPH MADEP / TPH Fingerprint; (6) ☒ 8270PAH / 8270ABN / 625; (7) ☒ 8082 PCB / 8081 Pesticides / 608 Pest/PCB; (8) O&G 1664 / Mineral O&G SM5520F; (9) ☒ pH / BOD / Conductivity / ☒ Turbidity / Cyanides; (10) TSS / TDS / TS; (11) ☒ ~~RCRA Metals / Priority Pollutant Metals / TAL Metals~~ SS; (12) ☒ Total Metals-list / Dissolved Metals-list; (13) ~~Ammonia / COD / TKN~~ Herbicides SS; (14) ☒ T-Phosphorus / Phenol; (15) Cyanide / ☒ Sulfide; (16) Nitrate / Nitrite / Ortho P / Sulfate / Bromide / ☒ Chloride; (17) Corrosivity / Reactive CN / Reactive S- / ☒ Ignitibility/FP; (18) ☒ TCLP Metals / ☒ TCLP VOC / ☒ TCLP SVOC; (19) ☒ TCLP Pesticide / ☒ TCLP Herbicides (subcontract); (20) Standard Drinking Water Test / Bacteria P/A; (21) Dioxins, CrVI - subcontract SS; (22) Grain Size w/ Hydrometer; (23) Total Organic Carbon (+Dup); (24) Grab (G) or Composite (C)

Lab Sample ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-07	X					X	X		X		X	X	X	X	X	X	X				X	X	X	
↓ (TOP 5-7)											X				X			X	X					
-08	X					X	X		X		X	X	X	X	X	X	X				X	X	X	
-09	X					X	X		X		X	X	X	X	X	X	X				X	X	X	
↓ (BOT S-9)											X				X			X	X					
-10	X					X	X		X		X	X	X	X	X	X	X				X	X	X	
↓ (TOP 5-10)											X				X			X	X					
-11	X					X	X		X		X	X	X	X	X	X	X				X	X	X	
↓ (BOT 5-11)											X				X			X	X					
-12	X					X	X		X		X	X	X	X	X	X	X				X	X	X	
-13	X	@ 8/20/08																						

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed

* See www.reslabs.com for sample acceptance policy.

E-Mail Address
Quote #
PO #

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE all coolers 5 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: James Bayel	8/20/08	1510	Received by: [signature]	8/20/08	1510
Relinquished by: [signature]	8/20/08	1547	Received by: [signature]	8/20/08	1547
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time
			Way Bill#:		

Laboratory Report

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

Robert Snover
Appledore Engineering, Inc.
600 State Street, Suite E
Portsmouth , NH 03801

PO Number: None
LabID: 15458
Date Received: 10/14/08

Project: PNSY Dredging Project- TCLP

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

Susan Sylvester
Principal, General Manager

10-17-08
Date

Total number of pages 3

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

METALS RESULTS

Lab Number: 15458-01
Sample ID: S-2 (15079-02)
Date Sampled: 8/19/08
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Chromium	< 0.5	0.5	10/16/08	5	10	BJS	SW 1311/3005A/6010B

Lab Number: 15458-02
Sample ID: S-8 (15079-08)
Date Sampled: 8/20/2008
Matrix: TCLP Extract

Analyte	Concentration mg/L	Quantitation Limit mg/L	Analysis Date	TCLP Limit mg/L	Instrument Dil'n Factor	Init	Method Reference
TCLP Chromium	< 0.5	0.5	10/16/08	5	10	BJS	SW 1311/3005A/6010B
TCLP Lead	0.3	0.1	10/16/08	5	10	BJS	SW 1311/3005A/6010B

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY AND ANALYSIS RE 15458 ~~15079~~

Company Name: Appledore Engineering, Inc.
Phone #: 603-433-8818
FAX #: 603-433-8988
Company Address: 15 Rye Street, Suite 305
Report To: Appledore Eng. Inc.
Project Info: NH MA ME VT — PNSY Dredging Project
Invoice To: Appledore Eng. Inc.
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER Sediment	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*
* 15458 15079-01	Dry Dock 1 S-1	9			X							8-19-08	1155	
	S-1	2			X									
-01 -02	S-2	9			X	[TCLP Cr]					*		1235	
	~~S-2~~	~~2~~			X									
-03	S-3	9			X								1355	
	~~S-3~~	~~2~~			X									

Lab Sample ID	VOC 8260 ☒	VOC 624 ☐	VPH MADEP ☐	VOC 524.2 ☐	TPH ☐	8270PAH ☒	8082 PCB ☒	O&G 1664 ☐	pH ☒	TSS ☐	RCRA Metals ☒	Total Metals-list ☒	Ammonia ☐	T-Phosphorus ☐	Cyanide ☒	Nitrate ☐	Corrosivity ☐	TCLP Metals ☒	TCLP Pesticide ☒	Standard Drinking Water Test ☐	Dioxins 8290	Grain Size w/Hydrometer	Total Organic Carbon (+Dup)	Grab (G) or Composite (C)
15079-01	X					X	X		X		X	X	X	X	X	X	X				X	X	X	
-01 -02											X				X			X	X					
-02	X					X	X		X		X	X	X	X	X	X	X				X	X	X	
-03	X					X	X		X		X	X	X	X	X	X	X				X	X	X	

TAT REQUESTED: Priority (24 hr) ☐ Expedited (48 hr) ☐ 10 Business Days ☐ Date Needed

* See www.reslabs.com for sample acceptance policy.

E-Mail Address
Quote #
PO #

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS: ☐ FAX ☐ OTHER (specify) ☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE as carried 5 °C

CUSTODY RECORD

	Date	Time
Relinquished by Sampler: James Bayek	8/20/08	1510
Relinquished by:	8/20/08	1547
Relinquished by:		

	Date	Time
Received by:	8/20/08	1510
Received by:		
Received by Laboratory: Way Bill #:	8/20/08	1547

19408 Park Row Suite 320 Houston, TX 77084 (713) 266-1599 (713) 266-0130 fax

Columbia Analytical Services INC.
An Employee - Owned Company

September 22, 2008

Service Request No: E0800847

Sue Sylvester
Resource Laboratories
124 Heritage Ave
Portsmith, NH 03801

Laboratory Results for: Dioxins & Furans in Soil/15079

Dear Sue:

Enclosed are the results of the sample(s) submitted to our laboratory on August 27, 2008. For your reference, these analyses have been assigned our service request number **E0800847**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2960. You may also contact me via email at KVerschoor@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Karen Verschoor
Project Manager

Page 1 of _____

Columbia Analytical Services INC

Certificate of Analysis

19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
www.caslab.com

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COLUMBIA ANALYTICAL SERVICES, INC

Client:	Resource Laboratories	**Service Request No.:**	E0800847
Project:	15079	**Date Received:**	08/27/08
Sample Matrix:	Solid		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Twelve solid samples were received for analysis at Columbia Analytical Services on 08/27/08.

The following discrepancies were noted upon initial sample inspection: no custody seals on cooler(s). The exceptions are also noted on the cooler receipt and preservation form included in this data package.

The samples were received at 6°C in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

B flags – Method Blanks

The Method Blank EQ0800380-01/U129751 contained low levels of 1234678-HpCDD, OCDD, 1234678-HpCDF and OCDF at or below the Method Reporting Limit (MRL).

The associated compounds in the samples are flagged with 'B' flags.

MS/DMS

EQ0800380: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of an MS/DMS for this extraction batch. The batch quality control criteria were met.

C flags – 2378-TCDF Confirmation

Confirmation of the TCDF compound: When 2378-TCDF is detected on the DB-5 column, confirmation analyses are performed on a second column (DB-225.) The results from both the DB-5 column and the DB-225 column are included in this data package.

The valid result for the 2378-TCDF compound is reported from the confirmation column.

The confirmation results have been included on the TEQ summary pages.

Approved by: Xiangqiu Liang **Date:** 9/23/08

Xiangqiu Liang, Laboratory Director

K flags

CAS/Houston reports EMPC results that comply with Section 11.2.6 of the DLM02.0 SOW. An EMPC result is flagged with a 'K' flag.

Detection Limits

Detection limits are calculated for each congener in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ results for each sample have been calculated by CAS/Houston to include:

- EPA-89 TEFs ("Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs)", 1989 EPA Update (EPA/625/3-89/016, March 1989))
- 2378-TCDF from the DB-225 column, when confirmation required
- Non-detected compounds are not included in the 'Total'

Approved by: Xiangqi Liang **Date:** 9/23/08

Xiangqiu Liang, Laboratory Director

Client: Resource Laboratories
Project: Dioxins & Furans in Soil/15079

Service Request: E0800847

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E0800847-001	15079-01	08/19/08	11:55
E0800847-002	15079-02	08/19/08	12:35
E0800847-003	15079-03	08/19/08	13:55
E0800847-004	15079-04	08/20/08	07:30
E0800847-005	15079-05	08/20/08	08:15
E0800847-006	15079-06	08/20/08	08:35
E0800847-007	15079-07	08/20/08	13:00
E0800847-008	15079-08	08/20/08	12:15
E0800847-009	15079-09	08/20/08	11:20
E0800847-010	15079-10	08/20/08	10:40
E0800847-011	15079-11	08/20/08	10:00
E0800847-012	15079-12	08/20/08	13:55

Abbreviations, Acronyms & Definitions

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

Data Qualifier Flags – Dioxin/Furans

- **B** Indicates the associated analyte is found in the method blank, as well as in the sample

- **C** Confirmation of the compound: When an analyte is detected on the DB-5 column and a confirmation analyses on a second columna (DB-225) is required, that analyte is flagged with a 'C' flag. The results from both the DB-5 column and the DB-225 column are included in this data package. For Method 1613B, results from the DB-225 analyses should be used to evaluate the 2378-TCDF in the samples. The confirm result should be used in determining the TEQ value for TCDF. For 1613Modified, a DB-225 column confirmation was run for the TCDD/TCDF, Pecad/PeCDF and SHCD/HxCDF. The TEQ summary reports a 'Total' result that includes the smaller of two concentrations found for the associated target analytes.

- **E** Indicates an estimated value – used when the analyte concentration exceeds the upper end of the linear calibration range

- **J** Indicates an estimated value – used when the analyte concentration is below the method reporting limit (MRL) and above the estimated detection limit (EDL)

- **K** EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

- **U** Indicates the compound was analyzed and not detected

- **Y** Samples that had recoveries of labeled standards outside the acceptance limits are flagged with 'Y' flags. In all cases, the signal-to-noise ratios are greater than 10:1, making these data acceptable.

- **ND** Indicates concentration is reported as 'Not Detected'

- **S** Peak is saturated; data not reportable

- **Q** Lock-mass interference by ether compounds

CAS/HOU - Form Production, Peer Review & Project Review Signatures

SR# Unique ID E0800847

First Level - Data Processing - to be filled by person generating the forms

Date	9/11/08	Person 1	Cle
Date		Person 2	

Second Level - Data Review – to be filled by person doing peer review

Date	9/18/08	Primary Data Reviewer	LL (-001, -002)
Date		Secondary Data Reviewer	

Project Level - Review - to be filled by person doing project compliance review

Date	9/23/08	Reviewer	[illegible]

CAS/HOU - Form Production, Peer Review & Project Review Signatures

SR# Unique ID: E0800847

First Level - Data Processing – to be filled by person generating the forms

Date	9/11/08	Person 1	CCe
Date		Person 2	

Second Level - Data Review – to be filled by person doing peer review

Date	9/16/08	Primary Data Reviewer	LL (-003, -004)
Date		Secondary Data Reviewer	

Project Level - Review - to be filled by person doing project compliance review

Date	9/23/08	Reviewer	DB

CAS/HOU - Form Production, Peer Review & Project Review Signatures

SR# Unique ID E0800847

First Level - Data Processing - to be filled by person(s) processing the forms

Date	9/16/08	Person 1	Cee
Date		Person 2	

Second Level Data Review – to be filled by person(s) doing peer review

Date	9/18/08	Primary Data Reviewer	ZZ (-007, -008, -009, -010, -011, -012)
Date		Secondary Data Reviewer	

Project Level - Review - to be filled by person doing project compliance review

Date	9/23/08	Reviewer	DB

Columbia Analytical Services INC

Analytical Results

19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
www.caslab.com

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Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-01	**Units:**	ng/Kg
Lab Code:	E0800847-001	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:08:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.024g	**Instrument Name:**	E-HRMS-01
Percent Solids:	31.2	**GC Column:**	DB-5
Data File Name:	U129772	**Blank File Name:**	U129751
ICAL Name:	05/02/08	**Cal Ver. File Name:**	U129770

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.153	3.20			1
1,2,3,7,8-PeCDD	ND	U	0.199	16.0			1
1,2,3,4,7,8-HxCDD	**0.312**	JK	0.157	16.0	1.98	1.000	1
1,2,3,6,7,8-HxCDD	**2.05**	J	0.209	16.0	1.40	1.000	1
1,2,3,7,8,9-HxCDD	**0.898**	JK	0.172	16.0	1.77	1.008	1
1,2,3,4,6,7,8-HpCDD	**44.1**	B	0.168	16.0	1.04	1.000	1
OCDD	**492**	B	0.204	32.0	0.88	1.000	1
2,3,7,8-TCDF	**0.672**	CJ	0.191	3.20	0.70	1.002	1
1,2,3,7,8-PeCDF	ND	U	0.126	16.0			1
2,3,4,7,8-PeCDF	ND	U	0.130	16.0			1
1,2,3,4,7,8-HxCDF	**0.851**	J	0.288	16.0	1.11	1.000	1
1,2,3,6,7,8-HxCDF	**0.299**	JK	0.291	16.0	0.75	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.320	16.0			1
2,3,4,6,7,8-HxCDF	ND	U	0.301	16.0			1
1,2,3,4,6,7,8-HpCDF	**11.1**	BJ	0.122	16.0	1.11	1.000	1
1,2,3,4,7,8,9-HpCDF	**0.406**	JK	0.136	16.0	0.84	1.000	1
OCDF	**36.2**	B	0.219	32.0	0.88	1.004	1
Total Tetra-Dioxins	ND	U	0.153	3.20			1
Total Penta-Dioxins	**0.893**	J	0.199	16.0	1.56		1
Total Hexa-Dioxins	**15.5**	J	0.157	16.0	1.27		1
Total Hepta-Dioxins	**99.8**		0.168	16.0	1.07		1
Total Tetra-Furans	**0.672**	J	0.191	3.20	0.70		1
Total Penta-Furans	**3.99**	J	0.130	16.0	1.71		1
Total Hexa-Furans	**10.3**	J	0.288	16.0	1.30		1
Total Hepta-Furans	**31.4**		0.122	16.0	1.11		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-01	**Units:**	Percent
Lab Code:	E0800847-001	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:08:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.024g	**Instrument Name:**	E-HRMS-01
Percent Solids:	31.2	**GC Column:**	DB-5
Data File Name:	U129772	**Blank File Name:**	U129751
ICAL Name:	05/02/08	**Cal Ver. File Name:**	U129770

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1356.076	68		25-164	0.77	1.009
13C-1,2,3,7,8-PeCDD	2000	1337.360	67		25-181	1.54	1.174
13C-1,2,3,4,7,8-HxCDD	2000	1461.391	73		32-141	1.24	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1292.482	65		28-130	1.26	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1316.899	66		23-140	1.05	1.067
13C-OCDD	4000	2214.078	55		17-157	0.91	1.144
13C-2,3,7,8-TCDF	2000	1020.579	51		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1272.806	64		24-185	1.56	1.135
13C-2,3,4,7,8-PeCDF	2000	1146.483	57		21-178	1.56	1.162
13C-1,2,3,4,7,8-HxCDF	2000	1124.374	56		26-152	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1249.461	62		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1452.425	73		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1220.043	61		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1236.981	62		28-143	0.45	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1630.779	82		26-138	0.44	1.078
37Cl-2,3,7,8-TCDD	800	601.192	75		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-01	**Units:**	ng/Kg
Lab Code:	E0800847-001	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.153	1	1	
1,2,3,7,8-PeCDD	ND	0.199	1	0.5	
1,2,3,4,7,8-HxCDD	**0.312**	0.157	1	0.10	0.0312
1,2,3,6,7,8-HxCDD	**2.05**	0.209	1	0.10	0.205
1,2,3,7,8,9-HxCDD	**0.898**	0.172	1	0.10	0.0898
1,2,3,4,6,7,8-HpCDD	**44.1**	0.168	1	0.01	0.441
OCDD	**492**	0.204	1	0.001	0.492
2,3,7,8-TCDF	ND	0.823	1	0.1	
1,2,3,7,8-PeCDF	ND	0.126	1	0.05	
2,3,4,7,8-PeCDF	ND	0.130	1	0.5	
1,2,3,4,7,8-HxCDF	**0.851**	0.288	1	0.1	0.0851
1,2,3,6,7,8-HxCDF	**0.299**	0.291	1	0.1	0.0299
1,2,3,7,8,9-HxCDF	ND	0.320	1	0.1	
2,3,4,6,7,8-HxCDF	ND	0.301	1	0.1	
1,2,3,4,6,7,8-HpCDF	**11.1**	0.122	1	0.01	0.111
1,2,3,4,7,8,9-HpCDF	**0.406**	0.136	1	0.01	0.00406
OCDF	**36.2**	0.219	1	0.001	0.0362
		Total TEQ			1.53

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-01RE	**Units:**	ng/Kg
Lab Code:	E0800847-001	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/17/08 17:16:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.024g	**Instrument Name:**	E-HRMS-70
Percent Solids:	31.2	**GC Column:**	DB-225
Data File Name:	C15352#13	**Blank File Name:**	C15352#2
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15352#1

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	ND	U	0.823	3.20			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	887.528	44		24-169	0.81	1.054
37Cl-2,3,7,8-TCDD	800	580.329	73		35-197	NA	0.989

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-02	**Units:**	ng/Kg
Lab Code:	E0800847-002	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:56:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.215g	**Instrument Name:**	E-HRMS-01
Percent Solids:	39.2	**GC Column:**	DB-5
Data File Name:	U129773	**Blank File Name:**	U129751
ICAL Name:	05/02/08	**Cal Ver. File Name:**	U129770

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.746**	JK	0.146	2.50	0.62	0.999	1
1,2,3,7,8-PeCDD	**1.38**	JK	0.231	12.5	1.26	1.000	1
1,2,3,4,7,8-HxCDD	**2.25**	J	0.200	12.5	1.31	1.000	1
1,2,3,6,7,8-HxCDD	**13.5**		0.248	12.5	1.25	1.000	1
1,2,3,7,8,9-HxCDD	**6.69**	J	0.211	12.5	1.30	1.008	1
1,2,3,4,6,7,8-HpCDD	**313**	B	0.511	12.5	1.01	1.000	1
OCDD	**2780**	B	0.342	25.0	0.87	1.000	1
2,3,7,8-TCDF	**4.25**	CK	0.201	2.50	0.91	1.001	1
1,2,3,7,8-PeCDF	**1.08**	JK	0.174	12.5	1.96	1.000	1
2,3,4,7,8-PeCDF	**1.87**	J	0.180	12.5	1.49	1.000	1
1,2,3,4,7,8-HxCDF	**4.15**	JK	0.875	12.5	1.49	1.000	1
1,2,3,6,7,8-HxCDF	**2.09**	J	0.871	12.5	1.31	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	1.02	12.5			1
2,3,4,6,7,8-HxCDF	**3.10**	JK	0.957	12.5	1.70	1.000	1
1,2,3,4,6,7,8-HpCDF	**69.8**	B	0.510	12.5	1.00	1.000	1
1,2,3,4,7,8,9-HpCDF	**2.38**	J	0.554	12.5	1.06	1.000	1
OCDF	**164**	B	0.419	25.0	0.83	1.003	1
Total Tetra-Dioxins	**4.09**		0.146	2.50	0.85		1
Total Penta-Dioxins	**5.47**	J	0.231	12.5	1.39		1
Total Hexa-Dioxins	**133**		0.200	12.5	1.33		1
Total Hepta-Dioxins	**725**		0.511	12.5	1.06		1
Total Tetra-Furans	**19.0**		0.201	2.50	0.69		1
Total Penta-Furans	**35.0**		0.180	12.5	1.56		1
Total Hexa-Furans	**65.9**		0.875	12.5	1.39		1
Total Hepta-Furans	**171**		0.510	12.5	1.00		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-02	**Units:**	Percent
Lab Code:	E0800847-002	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:56:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.215g	**Instrument Name:**	E-HRMS-01
Percent Solids:	39.2	**GC Column:**	DB-5
Data File Name:	U129773	**Blank File Name:**	U129751
ICAL Name:	05/02/08	**Cal Ver. File Name:**	U129770

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	823.472	41		25-164	0.79	1.009
13C-1,2,3,7,8-PeCDD	2000	754.082	38		25-181	1.56	1.175
13C-1,2,3,4,7,8-HxCDD	2000	780.302	39		32-141	1.23	0.990
13C-1,2,3,6,7,8-HxCDD	2000	709.874	35		28-130	1.28	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	639.899	32		23-140	1.05	1.067
13C-OCDD	4000	946.047	24		17-157	0.91	1.144
13C-2,3,7,8-TCDF	2000	617.002	31		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	710.179	36		24-185	1.53	1.136
13C-2,3,4,7,8-PeCDF	2000	651.851	33		21-178	1.59	1.162
13C-1,2,3,4,7,8-HxCDF	2000	596.039	30		26-152	0.52	0.971
13C-1,2,3,6,7,8-HxCDF	2000	668.975	33		26-123	0.51	0.974
13C-1,2,3,7,8,9-HxCDF	2000	745.539	37		29-147	0.52	1.006
13C-2,3,4,6,7,8-HxCDF	2000	619.024	31		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	597.870	30		28-143	0.45	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	817.024	41		26-138	0.44	1.078
37Cl-2,3,7,8-TCDD	800	559.736	70		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-02	**Units:**	ng/Kg
Lab Code:	E0800847-002	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.746**	0.146	1	1	0.746
1,2,3,7,8-PeCDD	**1.38**	0.231	1	0.5	0.690
1,2,3,4,7,8-HxCDD	**2.25**	0.200	1	0.10	0.225
1,2,3,6,7,8-HxCDD	**13.5**	0.248	1	0.10	1.35
1,2,3,7,8,9-HxCDD	**6.69**	0.211	1	0.10	0.669
1,2,3,4,6,7,8-HpCDD	**313**	0.511	1	0.01	3.13
OCDD	**2780**	0.342	1	0.001	2.78
2,3,7,8-TCDF	**3.66**	2.10	1	0.1	0.366
1,2,3,7,8-PeCDF	**1.08**	0.174	1	0.05	0.0540
2,3,4,7,8-PeCDF	**1.87**	0.180	1	0.5	0.935
1,2,3,4,7,8-HxCDF	**4.15**	0.875	1	0.1	0.415
1,2,3,6,7,8-HxCDF	**2.09**	0.871	1	0.1	0.209
1,2,3,7,8,9-HxCDF	ND	1.02	1	0.1	
2,3,4,6,7,8-HxCDF	**3.10**	0.957	1	0.1	0.310
1,2,3,4,6,7,8-HpCDF	**69.8**	0.510	1	0.01	0.698
1,2,3,4,7,8,9-HpCDF	**2.38**	0.554	1	0.01	0.0238
OCDF	**164**	0.419	1	0.001	0.164
		Total TEQ			12.8

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-02RE	**Units:**	ng/Kg
Lab Code:	E0800847-002	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 17:24:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.215g	**Instrument Name:**	E-HRMS-70
Percent Solids:	39.2	**GC Column:**	DB-225
Data File Name:	C15338#14	**Blank File Name:**	C15338#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15338#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**3.66**		2.10	2.50	0.81	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	501.566	25		24-169	0.75	1.053
37Cl-2,3,7,8-TCDD	800	553.096	69		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-03	**Units:**	ng/Kg
Lab Code:	E0800847-003	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:11:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.566g	**Instrument Name:**	E-HRMS-04
Percent Solids:	36.0	**GC Column:**	DB-5
Data File Name:	P200259	**Blank File Name:**	U129751
ICAL Name:	08/20/08	**Cal Ver. File Name:**	P200257

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.146**	JK	0.0557	2.63	0.29	1.001	1
1,2,3,7,8-PeCDD	**0.657**	J	0.0607	13.1	1.39	1.000	1
1,2,3,4,7,8-HxCDD	**0.815**	JK	0.0394	13.1	1.01	1.000	1
1,2,3,6,7,8-HxCDD	**5.71**	J	0.0552	13.1	1.33	1.000	1
1,2,3,7,8,9-HxCDD	**3.10**	J	0.0447	13.1	1.16	1.008	1
1,2,3,4,6,7,8-HpCDD	**129**	B	0.165	13.1	1.04	1.000	1
OCDD	**1340**	B	0.0794	26.3	0.90	1.000	1
2,3,7,8-TCDF	**2.40**	CJ	0.0381	2.63	0.70	1.001	1
1,2,3,7,8-PeCDF	**0.664**	J	0.0358	13.1	1.50	1.001	1
2,3,4,7,8-PeCDF	**0.827**	J	0.0347	13.1	1.54	1.000	1
1,2,3,4,7,8-HxCDF	**1.99**	J	0.0570	13.1	1.14	1.000	1
1,2,3,6,7,8-HxCDF	**1.04**	J	0.0578	13.1	1.17	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.0681	13.1			1
2,3,4,6,7,8-HxCDF	**1.74**	J	0.0636	13.1	1.27	1.000	1
1,2,3,4,6,7,8-HpCDF	**30.2**	B	0.0791	13.1	1.03	1.000	1
1,2,3,4,7,8,9-HpCDF	**0.887**	J	0.0847	13.1	1.00	1.000	1
OCDF	**98.9**	B	0.136	26.3	0.87	1.004	1
Total Tetra-Dioxins	**4.93**		0.0557	2.63	0.70		1
Total Penta-Dioxins	**4.63**	J	0.0607	13.1	1.42		1
Total Hexa-Dioxins	**52.7**		0.0394	13.1	1.29		1
Total Hepta-Dioxins	**284**		0.165	13.1	1.03		1
Total Tetra-Furans	**12.7**		0.0381	2.63	0.72		1
Total Penta-Furans	**16.9**		0.0347	13.1	1.60		1
Total Hexa-Furans	**32.6**		0.0570	13.1	1.26		1
Total Hepta-Furans	**78.8**		0.0791	13.1	1.03		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-03	**Units:**	Percent
Lab Code:	E0800847-003	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:11:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.566g	**Instrument Name:**	E-HRMS-04
Percent Solids:	36.0	**GC Column:**	DB-5
Data File Name:	P200259	**Blank File Name:**	U129751
ICAL Name:	08/20/08	**Cal Ver. File Name:**	P200257

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1512.163	76		25-164	0.78	1.007
13C-1,2,3,7,8-PeCDD	2000	1362.858	68		25-181	1.59	1.165
13C-1,2,3,4,7,8-HxCDD	2000	1695.151	85		32-141	1.26	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1235.929	62		28-130	1.28	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1306.536	65		23-140	1.03	1.068
13C-OCDD	4000	2012.474	50		17-157	0.90	1.150
13C-2,3,7,8-TCDF	2000	1229.023	61		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1342.238	67		24-185	1.58	1.128
13C-2,3,4,7,8-PeCDF	2000	1289.434	64		21-178	1.58	1.153
13C-1,2,3,4,7,8-HxCDF	2000	1381.226	69		26-152	0.54	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1317.545	66		26-123	0.51	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1419.241	71		29-147	0.52	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1321.622	66		28-136	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1305.708	65		28-143	0.44	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1633.086	82		26-138	0.45	1.080
37Cl-2,3,7,8-TCDD	800	625.127	78		35-197	NA	1.008

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-03	**Units:**	ng/Kg
Lab Code:	E0800847-003	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.146**	0.0557	1	1	0.146
1,2,3,7,8-PeCDD	**0.657**	0.0607	1	0.5	0.329
1,2,3,4,7,8-HxCDD	**0.815**	0.0394	1	0.10	0.0815
1,2,3,6,7,8-HxCDD	**5.71**	0.0552	1	0.10	0.571
1,2,3,7,8,9-HxCDD	**3.10**	0.0447	1	0.10	0.310
1,2,3,4,6,7,8-HpCDD	**129**	0.165	1	0.01	1.29
OCDD	**1340**	0.0794	1	0.001	1.34
2,3,7,8-TCDF	**1.41**	0.819	1	0.1	0.141
1,2,3,7,8-PeCDF	**0.664**	0.0358	1	0.05	0.0332
2,3,4,7,8-PeCDF	**0.827**	0.0347	1	0.5	0.414
1,2,3,4,7,8-HxCDF	**1.99**	0.0570	1	0.1	0.199
1,2,3,6,7,8-HxCDF	**1.04**	0.0578	1	0.1	0.104
1,2,3,7,8,9-HxCDF	ND	0.0681	1	0.1	
2,3,4,6,7,8-HxCDF	**1.74**	0.0636	1	0.1	0.174
1,2,3,4,6,7,8-HpCDF	**30.2**	0.0791	1	0.01	0.302
1,2,3,4,7,8,9-HpCDF	**0.887**	0.0847	1	0.01	0.00887
OCDF	**98.9**	0.136	1	0.001	0.0989
		Total TEQ			5.54

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/19/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-03RE	**Units:**	ng/Kg
Lab Code:	E0800847-003	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 12:52:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.566g	**Instrument Name:**	E-HRMS-70
Percent Solids:	36.0	**GC Column:**	DB-225
Data File Name:	C15341#5	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**1.41**	JK	0.819	2.63	1.06	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1225.576	61		24-169	0.76	1.053
37Cl-2,3,7,8-TCDD	800	711.014	89		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-04	**Units:**	ng/Kg
Lab Code:	E0800847-004	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:58:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.047g	**Instrument Name:**	E-HRMS-04
Percent Solids:	35.8	**GC Column:**	DB-5
Data File Name:	P200260	**Blank File Name:**	U129751
ICAL Name:	08/20/08	**Cal Ver. File Name:**	P200257

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.0786**	JK	0.0498	2.53	0.21	1.001	1
1,2,3,7,8-PeCDD	**0.120**	JK	0.0448	12.6	0.81	1.000	1
1,2,3,4,7,8-HxCDD	**0.269**	J	0.0427	12.6	1.33	1.000	1
1,2,3,6,7,8-HxCDD	**2.38**	J	0.0531	12.6	1.21	1.000	1
1,2,3,7,8,9-HxCDD	**0.887**	JK	0.0460	12.6	0.99	1.008	1
1,2,3,4,6,7,8-HpCDD	**56.3**	B	0.212	12.6	1.05	1.000	1
OCDD	**558**	B	0.0592	25.3	0.90	1.000	1
2,3,7,8-TCDF	**0.681**	CJ	0.0453	2.53	0.69	1.001	1
1,2,3,7,8-PeCDF	**0.192**	J	0.0523	12.6	1.44	1.001	1
2,3,4,7,8-PeCDF	**0.164**	JK	0.0526	12.6	2.01	1.000	1
1,2,3,4,7,8-HxCDF	**0.719**	J	0.0544	12.6	1.14	1.000	1
1,2,3,6,7,8-HxCDF	**0.382**	J	0.0549	12.6	1.26	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.0625	12.6			1
2,3,4,6,7,8-HxCDF	**0.658**	J	0.0551	12.6	1.31	0.999	1
1,2,3,4,6,7,8-HpCDF	**14.2**	B	0.0685	12.6	1.03	1.000	1
1,2,3,4,7,8,9-HpCDF	**0.479**	J	0.0746	12.6	1.15	1.000	1
OCDF	**47.4**	B	0.0986	25.3	0.84	1.004	1
Total Tetra-Dioxins	ND	U	0.0498	2.53			1
Total Penta-Dioxins	**1.46**	J	0.0448	12.6	1.78		1
Total Hexa-Dioxins	**18.0**		0.0427	12.6	1.24		1
Total Hepta-Dioxins	**132**		0.212	12.6	1.04		1
Total Tetra-Furans	**2.63**		0.0453	2.53	0.76		1
Total Penta-Furans	**5.83**	J	0.0526	12.6	1.56		1
Total Hexa-Furans	**14.5**		0.0544	12.6	1.19		1
Total Hepta-Furans	**43.0**		0.0685	12.6	1.03		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-04	**Units:**	Percent
Lab Code:	E0800847-004	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:58:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.047g	**Instrument Name:**	E-HRMS-04
Percent Solids:	35.8	**GC Column:**	DB-5
Data File Name:	P200260	**Blank File Name:**	U129751
ICAL Name:	08/20/08	**Cal Ver. File Name:**	P200257

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1395.699	70		25-164	0.79	1.007
13C-1,2,3,7,8-PeCDD	2000	1186.109	59		25-181	1.59	1.165
13C-1,2,3,4,7,8-HxCDD	2000	1441.100	72		32-141	1.26	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1173.495	59		28-130	1.27	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1204.154	60		23-140	1.04	1.068
13C-OCDD	4000	1821.103	46		17-157	0.91	1.149
13C-2,3,7,8-TCDF	2000	1003.655	50		24-169	0.78	0.978
13C-1,2,3,7,8-PeCDF	2000	1164.528	58		24-185	1.57	1.127
13C-2,3,4,7,8-PeCDF	2000	1073.041	54		21-178	1.58	1.153
13C-1,2,3,4,7,8-HxCDF	2000	1251.595	63		26-152	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1171.239	59		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1307.134	65		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1223.223	61		28-136	0.53	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1214.601	61		28-143	0.45	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1478.796	74		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	658.214	82		35-197	NA	1.007

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-04	**Units:**	ng/Kg
Lab Code:	E0800847-004	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.0786**	0.0498	1	1	0.0786
1,2,3,7,8-PeCDD	**0.120**	0.0448	1	0.5	0.0600
1,2,3,4,7,8-HxCDD	**0.269**	0.0427	1	0.10	0.0269
1,2,3,6,7,8-HxCDD	**2.38**	0.0531	1	0.10	0.238
1,2,3,7,8,9-HxCDD	**0.887**	0.0460	1	0.10	0.0887
1,2,3,4,6,7,8-HpCDD	**56.3**	0.212	1	0.01	0.563
OCDD	**558**	0.0592	1	0.001	0.558
2,3,7,8-TCDF	ND	0.772	1	0.1	
1,2,3,7,8-PeCDF	**0.192**	0.0523	1	0.05	0.00960
2,3,4,7,8-PeCDF	**0.164**	0.0526	1	0.5	0.0820
1,2,3,4,7,8-HxCDF	**0.719**	0.0544	1	0.1	0.0719
1,2,3,6,7,8-HxCDF	**0.382**	0.0549	1	0.1	0.0382
1,2,3,7,8,9-HxCDF	ND	0.0625	1	0.1	
2,3,4,6,7,8-HxCDF	**0.658**	0.0551	1	0.1	0.0658
1,2,3,4,6,7,8-HpCDF	**14.2**	0.0685	1	0.01	0.142
1,2,3,4,7,8,9-HpCDF	**0.479**	0.0746	1	0.01	0.00479
OCDF	**47.4**	0.0986	1	0.001	0.0474
		Total TEQ			2.07

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-04RE	**Units:**	ng/Kg
Lab Code:	E0800847-004	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 13:25:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.047g	**Instrument Name:**	E-HRMS-70
Percent Solids:	35.8	**GC Column:**	DB-225
Data File Name:	C15341#6	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	ND	U	0.772	2.53			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1057.711	53		24-169	0.76	1.053
37Cl-2,3,7,8-TCDD	800	680.817	85		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-05	**Units:**	ng/Kg
Lab Code:	E0800847-005	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:13:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	12.005g	**Instrument Name:**	E-HRMS-02
Percent Solids:	27.3	**GC Column:**	DB-5
Data File Name:	U217448	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217446

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.156	3.05			1
1,2,3,7,8-PeCDD	**0.299**	JK	0.117	15.3	1.21	1.000	1
1,2,3,4,7,8-HxCDD	**0.490**	J	0.131	15.3	1.11	1.000	1
1,2,3,6,7,8-HxCDD	**2.61**	J	0.175	15.3	1.16	1.000	1
1,2,3,7,8,9-HxCDD	**2.39**	J	0.142	15.3	1.11	1.007	1
1,2,3,4,6,7,8-HpCDD	**79.4**	B	0.428	15.3	1.06	1.000	1
OCDD	**642**	B	0.641	30.5	0.89	1.001	1
2,3,7,8-TCDF	**0.926**	CJ	0.0726	3.05	0.82	1.001	1
1,2,3,7,8-PeCDF	ND	U	0.145	15.3			1
2,3,4,7,8-PeCDF	**0.341**	J	0.144	15.3	1.52	1.001	1
1,2,3,4,7,8-HxCDF	**0.697**	J	0.0918	15.3	1.39	1.000	1
1,2,3,6,7,8-HxCDF	**0.389**	J	0.0925	15.3	1.43	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.106	15.3			1
2,3,4,6,7,8-HxCDF	**0.732**	J	0.0937	15.3	1.12	1.000	1
1,2,3,4,6,7,8-HpCDF	**10.5**	BJ	0.362	15.3	0.97	1.000	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.377	15.3			1
OCDF	**42.9**	B	0.240	30.5	0.88	1.004	1
Total Tetra-Dioxins	ND	U	0.156	3.05			1
Total Penta-Dioxins	**1.44**	J	0.117	15.3	1.33		1
Total Hexa-Dioxins	**21.1**		0.131	15.3	1.27		1
Total Hepta-Dioxins	**198**		0.428	15.3	1.03		1
Total Tetra-Furans	**2.12**	J	0.0726	3.05	0.72		1
Total Penta-Furans	**0.341**	J	0.144	15.3	1.52		1
Total Hexa-Furans	**10.5**	J	0.0918	15.3	1.35		1
Total Hepta-Furans	**32.3**		0.362	15.3	0.97		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-05	**Units:**	Percent
Lab Code:	E0800847-005	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 15:13:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	12.005g	**Instrument Name:**	E-HRMS-02
Percent Solids:	27.3	**GC Column:**	DB-5
Data File Name:	U217448	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217446

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1528.209	76		25-164	0.79	1.008
13C-1,2,3,7,8-PeCDD	2000	1511.381	76		25-181	1.57	1.170
13C-1,2,3,4,7,8-HxCDD	2000	1519.863	76		32-141	1.27	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1290.533	65		28-130	1.28	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1221.373	61		23-140	1.06	1.069
13C-OCDD	4000	1905.684	48		17-157	0.90	1.152
13C-2,3,7,8-TCDF	2000	1347.733	67		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1663.645	83		24-185	1.60	1.132
13C-2,3,4,7,8-PeCDF	2000	1578.978	79		21-178	1.61	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1399.238	70		26-152	0.53	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1370.883	69		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1420.678	71		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1462.601	73		28-136	0.54	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1308.748	65		28-143	0.45	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1641.516	82		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	695.848	87		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-05	**Units:**	ng/Kg
Lab Code:	E0800847-005	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.156	1	1	
1,2,3,7,8-PeCDD	**0.299**	0.117	1	0.5	0.150
1,2,3,4,7,8-HxCDD	**0.490**	0.131	1	0.10	0.0490
1,2,3,6,7,8-HxCDD	**2.61**	0.175	1	0.10	0.261
1,2,3,7,8,9-HxCDD	**2.39**	0.142	1	0.10	0.239
1,2,3,4,6,7,8-HpCDD	**79.4**	0.428	1	0.01	0.794
OCDD	**642**	0.641	1	0.001	0.642
2,3,7,8-TCDF	ND	0.908	1	0.1	
1,2,3,7,8-PeCDF	ND	0.145	1	0.05	
2,3,4,7,8-PeCDF	**0.341**	0.144	1	0.5	0.171
1,2,3,4,7,8-HxCDF	**0.697**	0.0918	1	0.1	0.0697
1,2,3,6,7,8-HxCDF	**0.389**	0.0925	1	0.1	0.0389
1,2,3,7,8,9-HxCDF	ND	0.106	1	0.1	
2,3,4,6,7,8-HxCDF	**0.732**	0.0937	1	0.1	0.0732
1,2,3,4,6,7,8-HpCDF	**10.5**	0.362	1	0.01	0.105
1,2,3,4,7,8,9-HpCDF	ND	0.377	1	0.01	
OCDF	**42.9**	0.240	1	0.001	0.0429
		Total TEQ			2.64

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-05RE	**Units:**	ng/Kg
Lab Code:	E0800847-005	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 13:57:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	12.005g	**Instrument Name:**	E-HRMS-70
Percent Solids:	27.3	**GC Column:**	DB-225
Data File Name:	C15341#7	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	ND	U	0.908	3.05			1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1181.428	59		24-169	0.77	1.053
37Cl-2,3,7,8-TCDD	800	697.971	87		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-06	**Units:**	ng/Kg
Lab Code:	E0800847-006	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 16:01:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.062g	**Instrument Name:**	E-HRMS-02
Percent Solids:	29.6	**GC Column:**	DB-5
Data File Name:	U217449	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217446

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.457**	JK	0.0507	3.05	0.62	1.001	1
1,2,3,7,8-PeCDD	**0.560**	JK	0.114	15.3	1.91	1.000	1
1,2,3,4,7,8-HxCDD	**0.668**	JK	0.225	15.3	0.91	1.000	1
1,2,3,6,7,8-HxCDD	**5.11**	J	0.287	15.3	1.34	1.000	1
1,2,3,7,8,9-HxCDD	**2.83**	J	0.239	15.3	1.26	1.008	1
1,2,3,4,6,7,8-HpCDD	**128**	B	0.354	15.3	1.05	1.000	1
OCDD	**1130**	B	0.653	30.5	0.90	1.000	1
2,3,7,8-TCDF	**1.63**	CJ	0.0925	3.05	0.89	1.001	1
1,2,3,7,8-PeCDF	**0.345**	JK	0.185	15.3	2.76	1.001	1
2,3,4,7,8-PeCDF	**0.648**	JK	0.182	15.3	1.95	1.001	1
1,2,3,4,7,8-HxCDF	**1.46**	J	0.105	15.3	1.43	1.000	1
1,2,3,6,7,8-HxCDF	**0.790**	JK	0.105	15.3	1.64	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.110	15.3			1
2,3,4,6,7,8-HxCDF	**1.63**	J	0.104	15.3	1.33	1.000	1
1,2,3,4,6,7,8-HpCDF	**27.2**	B	0.683	15.3	1.02	1.000	1
1,2,3,4,7,8,9-HpCDF	**1.00**	J	0.722	15.3	0.91	1.001	1
OCDF	**83.8**	B	0.244	30.5	0.87	1.004	1
Total Tetra-Dioxins	**2.80**	J	0.0507	3.05	0.69		1
Total Penta-Dioxins	**4.65**	J	0.114	15.3	1.60		1
Total Hexa-Dioxins	**45.4**		0.225	15.3	1.25		1
Total Hepta-Dioxins	**350**		0.354	15.3	1.05		1
Total Tetra-Furans	**6.91**		0.0925	3.05	0.83		1
Total Penta-Furans	**14.0**	J	0.182	15.3	1.55		1
Total Hexa-Furans	**25.8**		0.105	15.3	1.26		1
Total Hepta-Furans	**78.3**		0.683	15.3	1.02		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-06	**Units:**	Percent
Lab Code:	E0800847-006	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 16:01:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.062g	**Instrument Name:**	E-HRMS-02
Percent Solids:	29.6	**GC Column:**	DB-5
Data File Name:	U217449	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217446

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1616.271	81		25-164	0.79	1.008
13C-1,2,3,7,8-PeCDD	2000	1611.756	81		25-181	1.60	1.170
13C-1,2,3,4,7,8-HxCDD	2000	1594.555	80		32-141	1.27	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1420.549	71		28-130	1.27	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1317.121	66		23-140	1.05	1.069
13C-OCDD	4000	2115.434	53		17-157	0.90	1.152
13C-2,3,7,8-TCDF	2000	1443.901	72		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1765.929	88		24-185	1.59	1.131
13C-2,3,4,7,8-PeCDF	2000	1689.735	84		21-178	1.59	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1420.703	71		26-152	0.53	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1390.079	70		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1548.109	77		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1515.341	76		28-136	0.54	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1422.043	71		28-143	0.45	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1787.742	89		26-138	0.46	1.080
37Cl-2,3,7,8-TCDD	800	697.653	87		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-06	**Units:**	ng/Kg
Lab Code:	E0800847-006	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.457**	0.0507	1	1	0.457
1,2,3,7,8-PeCDD	**0.560**	0.114	1	0.5	0.280
1,2,3,4,7,8-HxCDD	**0.668**	0.225	1	0.10	0.0668
1,2,3,6,7,8-HxCDD	**5.11**	0.287	1	0.10	0.511
1,2,3,7,8,9-HxCDD	**2.83**	0.239	1	0.10	0.283
1,2,3,4,6,7,8-HpCDD	**128**	0.354	1	0.01	1.28
OCDD	**1130**	0.653	1	0.001	1.13
2,3,7,8-TCDF	**1.14**	0.614	1	0.1	0.114
1,2,3,7,8-PeCDF	**0.345**	0.185	1	0.05	0.0173
2,3,4,7,8-PeCDF	**0.648**	0.182	1	0.5	0.324
1,2,3,4,7,8-HxCDF	**1.46**	0.105	1	0.1	0.146
1,2,3,6,7,8-HxCDF	**0.790**	0.105	1	0.1	0.0790
1,2,3,7,8,9-HxCDF	ND	0.110	1	0.1	
2,3,4,6,7,8-HxCDF	**1.63**	0.104	1	0.1	0.163
1,2,3,4,6,7,8-HpCDF	**27.2**	0.683	1	0.01	0.272
1,2,3,4,7,8,9-HpCDF	**1.00**	0.722	1	0.01	0.0100
OCDF	**83.8**	0.244	1	0.001	0.0838
		Total TEQ			5.22

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-06RE	**Units:**	ng/Kg
Lab Code:	E0800847-006	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 14:30:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.062g	**Instrument Name:**	E-HRMS-70
Percent Solids:	29.6	**GC Column:**	DB-225
Data File Name:	C15341#8	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**1.14**	JK	0.614	3.05	0.96	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1247.542	62		24-169	0.77	1.054
37Cl-2,3,7,8-TCDD	800	703.344	88		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-07	**Units:**	ng/Kg
Lab Code:	E0800847-007	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 19:54:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.250g	**Instrument Name:**	E-HRMS-02
Percent Solids:	50.4	**GC Column:**	DB-5
Data File Name:	U217453	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.567**	J	0.0825	1.94	0.66	1.001	1
1,2,3,7,8-PeCDD	**1.29**	J	0.0736	9.68	1.75	1.000	1
1,2,3,4,7,8-HxCDD	**1.74**	J	0.669	9.68	1.21	1.000	1
1,2,3,6,7,8-HxCDD	**13.2**		0.927	9.68	1.26	1.000	1
1,2,3,7,8,9-HxCDD	**6.13**	J	0.738	9.68	1.25	1.008	1
1,2,3,4,6,7,8-HpCDD	**278**	B	0.575	9.68	1.05	1.000	1
OCDD	**2130**	B	0.744	19.4	0.89	1.000	1
2,3,7,8-TCDF	**5.89**	C	0.0538	1.94	0.77	1.002	1
1,2,3,7,8-PeCDF	**1.73**	J	0.338	9.68	1.51	1.000	1
2,3,4,7,8-PeCDF	**2.49**	J	0.333	9.68	1.65	1.001	1
1,2,3,4,7,8-HxCDF	**8.80**	J	0.0844	9.68	1.24	1.000	1
1,2,3,6,7,8-HxCDF	**2.99**	J	0.0875	9.68	1.09	1.000	1
1,2,3,7,8,9-HxCDF	**0.154**	JK	0.0941	9.68	1.03	1.000	1
2,3,4,6,7,8-HxCDF	**4.79**	J	0.0914	9.68	1.21	1.000	1
1,2,3,4,6,7,8-HpCDF	**94.2**	B	0.285	9.68	1.03	1.000	1
1,2,3,4,7,8,9-HpCDF	**2.82**	J	0.272	9.68	1.05	1.000	1
OCDF	**236**	B	0.460	19.4	0.87	1.004	1
Total Tetra-Dioxins	**6.38**		0.0825	1.94	0.82		1
Total Penta-Dioxins	**10.5**		0.0736	9.68	1.36		1
Total Hexa-Dioxins	**105**		0.669	9.68	1.23		1
Total Hepta-Dioxins	**603**		0.575	9.68	1.05		1
Total Tetra-Furans	**48.1**		0.0538	1.94	0.71		1
Total Penta-Furans	**55.6**		0.333	9.68	1.51		1
Total Hexa-Furans	**105**		0.0844	9.68	1.27		1
Total Hepta-Furans	**243**		0.285	9.68	1.03		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-07	**Units:**	Percent
Lab Code:	E0800847-007	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 19:54:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.250g	**Instrument Name:**	E-HRMS-02
Percent Solids:	50.4	**GC Column:**	DB-5
Data File Name:	U217453	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1805.691	90		25-164	0.78	1.008
13C-1,2,3,7,8-PeCDD	2000	1741.381	87		25-181	1.56	1.171
13C-1,2,3,4,7,8-HxCDD	2000	1685.245	84		32-141	1.29	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1419.847	71		28-130	1.29	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1255.763	63		23-140	1.04	1.070
13C-OCDD	4000	1923.024	48		17-157	0.91	1.152
13C-2,3,7,8-TCDF	2000	1635.023	82		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1773.442	89		24-185	1.61	1.133
13C-2,3,4,7,8-PeCDF	2000	1678.993	84		21-178	1.57	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1521.095	76		26-152	0.53	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1518.615	76		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1536.473	77		29-147	0.54	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1530.259	77		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1242.140	62		28-143	0.45	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1623.542	81		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	761.096	95		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-07	**Units:**	ng/Kg
Lab Code:	E0800847-007	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.567**	0.0825	1	1	0.567
1,2,3,7,8-PeCDD	**1.29**	0.0736	1	0.5	0.645
1,2,3,4,7,8-HxCDD	**1.74**	0.669	1	0.10	0.174
1,2,3,6,7,8-HxCDD	**13.2**	0.927	1	0.10	1.32
1,2,3,7,8,9-HxCDD	**6.13**	0.738	1	0.10	0.613
1,2,3,4,6,7,8-HpCDD	**278**	0.575	1	0.01	2.78
OCDD	**2130**	0.744	1	0.001	2.13
2,3,7,8-TCDF	**3.78**	1.39	1	0.1	0.378
1,2,3,7,8-PeCDF	**1.73**	0.338	1	0.05	0.0865
2,3,4,7,8-PeCDF	**2.49**	0.333	1	0.5	1.25
1,2,3,4,7,8-HxCDF	**8.80**	0.0844	1	0.1	0.880
1,2,3,6,7,8-HxCDF	**2.99**	0.0875	1	0.1	0.299
1,2,3,7,8,9-HxCDF	**0.154**	0.0941	1	0.1	0.0154
2,3,4,6,7,8-HxCDF	**4.79**	0.0914	1	0.1	0.479
1,2,3,4,6,7,8-HpCDF	**94.2**	0.285	1	0.01	0.942
1,2,3,4,7,8,9-HpCDF	**2.82**	0.272	1	0.01	0.0282
OCDF	**236**	0.460	1	0.001	0.236
		Total TEQ			12.8

EPA TEFs, ND = 0

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-07RE	**Units:**	ng/Kg
Lab Code:	E0800847-007	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 15:03:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.250g	**Instrument Name:**	E-HRMS-70
Percent Solids:		**GC Column:**	DB-225
Data File Name:	C15341#9	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**3.78**		1.39	1.94	0.78	1.002	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1435.005	72		24-169	0.77	1.053
37Cl-2,3,7,8-TCDD	800	763.419	95		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-08	**Units:**	ng/Kg
Lab Code:	E0800847-008	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 20:41:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	12.693g	**Instrument Name:**	E-HRMS-02
Percent Solids:	47.7	**GC Column:**	DB-5
Data File Name:	U217454	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.198**	JK	0.0530	1.65	0.61	1.000	1
1,2,3,7,8-PeCDD	**0.388**	J	0.0796	8.26	1.42	1.000	1
1,2,3,4,7,8-HxCDD	**0.358**	JK	0.293	8.26	1.72	1.000	1
1,2,3,6,7,8-HxCDD	**2.96**	J	0.414	8.26	1.20	1.000	1
1,2,3,7,8,9-HxCDD	**1.25**	J	0.326	8.26	1.25	1.008	1
1,2,3,4,6,7,8-HpCDD	**61.4**	B	0.192	8.26	1.03	1.000	1
OCDD	**484**	B	0.291	16.5	0.90	1.000	1
2,3,7,8-TCDF	**1.63**	CJ	0.0362	1.65	0.85	1.001	1
1,2,3,7,8-PeCDF	**0.464**	J	0.0702	8.26	1.67	1.001	1
2,3,4,7,8-PeCDF	**0.835**	J	0.0705	8.26	1.67	1.001	1
1,2,3,4,7,8-HxCDF	**6.01**	J	0.0651	8.26	1.18	1.000	1
1,2,3,6,7,8-HxCDF	**1.35**	J	0.0634	8.26	1.33	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.0733	8.26			1
2,3,4,6,7,8-HxCDF	**1.50**	J	0.0699	8.26	1.29	1.000	1
1,2,3,4,6,7,8-HpCDF	**21.5**	B	0.153	8.26	1.05	1.000	1
1,2,3,4,7,8,9-HpCDF	**3.60**	J	0.147	8.26	1.07	1.000	1
OCDF	**62.1**	B	0.175	16.5	0.87	1.004	1
Total Tetra-Dioxins	**1.67**		0.0530	1.65	0.77		1
Total Penta-Dioxins	**2.71**	J	0.0796	8.26	1.45		1
Total Hexa-Dioxins	**23.4**		0.293	8.26	1.20		1
Total Hepta-Dioxins	**131**		0.192	8.26	1.08		1
Total Tetra-Furans	**9.08**		0.0362	1.65	0.79		1
Total Penta-Furans	**14.7**		0.0705	8.26	1.53		1
Total Hexa-Furans	**29.6**		0.0651	8.26	1.17		1
Total Hepta-Furans	**56.1**		0.153	8.26	1.05		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-08	**Units:**	Percent
Lab Code:	E0800847-008	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 20:41:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	12.693g	**Instrument Name:**	E-HRMS-02
Percent Solids:	47.7	**GC Column:**	DB-5
Data File Name:	U217454	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1774.562	89		25-164	0.78	1.008
13C-1,2,3,7,8-PeCDD	2000	1654.161	83		25-181	1.55	1.170
13C-1,2,3,4,7,8-HxCDD	2000	1588.780	79		32-141	1.29	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1292.183	65		28-130	1.28	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1167.714	58		23-140	1.06	1.069
13C-OCDD	4000	1681.489	42		17-157	0.90	1.152
13C-2,3,7,8-TCDF	2000	1542.490	77		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1727.467	86		24-185	1.61	1.132
13C-2,3,4,7,8-PeCDF	2000	1624.423	81		21-178	1.55	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1510.229	76		26-152	0.54	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1504.757	75		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1517.500	76		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1450.666	73		28-136	0.54	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1191.246	60		28-143	0.45	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1579.045	79		26-138	0.46	1.081
37Cl-2,3,7,8-TCDD	800	705.170	88		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-08	**Units:**	ng/Kg
Lab Code:	E0800847-008	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.198**	0.0530	1	1	0.198
1,2,3,7,8-PeCDD	**0.388**	0.0796	1	0.5	0.194
1,2,3,4,7,8-HxCDD	**0.358**	0.293	1	0.10	0.0358
1,2,3,6,7,8-HxCDD	**2.96**	0.414	1	0.10	0.296
1,2,3,7,8,9-HxCDD	**1.25**	0.326	1	0.10	0.125
1,2,3,4,6,7,8-HpCDD	**61.4**	0.192	1	0.01	0.614
OCDD	**484**	0.291	1	0.001	0.484
2,3,7,8-TCDF	**1.07**	0.430	1	0.1	0.107
1,2,3,7,8-PeCDF	**0.464**	0.0702	1	0.05	0.0232
2,3,4,7,8-PeCDF	**0.835**	0.0705	1	0.5	0.418
1,2,3,4,7,8-HxCDF	**6.01**	0.0651	1	0.1	0.601
1,2,3,6,7,8-HxCDF	**1.35**	0.0634	1	0.1	0.135
1,2,3,7,8,9-HxCDF	ND	0.0733	1	0.1	
2,3,4,6,7,8-HxCDF	**1.50**	0.0699	1	0.1	0.150
1,2,3,4,6,7,8-HpCDF	**21.5**	0.153	1	0.01	0.215
1,2,3,4,7,8,9-HpCDF	**3.60**	0.147	1	0.01	0.0360
OCDF	**62.1**	0.175	1	0.001	0.0621
		Total TEQ			3.69

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-08RE	**Units:**	ng/Kg
Lab Code:	E0800847-008	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 15:35:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	12.693g	**Instrument Name:**	E-HRMS-70
Percent Solids:		**GC Column:**	DB-225
Data File Name:	C15341#10	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**1.07**	J	0.430	1.65	0.71	1.000	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1425.185	71		24-169	0.77	1.054
37Cl-2,3,7,8-TCDD	800	746.811	93		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-09	**Units:**	ng/Kg
Lab Code:	E0800847-009	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 21:29:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.226g	**Instrument Name:**	E-HRMS-02
Percent Solids:	57.4	**GC Column:**	DB-5
Data File Name:	U217455	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0596	1.70			1
1,2,3,7,8-PeCDD	**0.134**	JK	0.0617	8.52	2.23	1.000	1
1,2,3,4,7,8-HxCDD	**0.172**	J	0.169	8.52	1.32	1.000	1
1,2,3,6,7,8-HxCDD	**1.14**	J	0.236	8.52	1.19	1.000	1
1,2,3,7,8,9-HxCDD	**0.735**	J	0.187	8.52	1.30	1.008	1
1,2,3,4,6,7,8-HpCDD	**23.9**	B	0.101	8.52	1.03	1.000	1
OCDD	**206**	B	0.224	17.0	0.91	1.000	1
2,3,7,8-TCDF	**1.00**	CJ	0.0612	1.70	0.75	1.001	1
1,2,3,7,8-PeCDF	**0.239**	J	0.0957	8.52	1.41	1.000	1
2,3,4,7,8-PeCDF	**0.367**	J	0.0963	8.52	1.56	1.001	1
1,2,3,4,7,8-HxCDF	**0.716**	J	0.162	8.52	1.18	1.000	1
1,2,3,6,7,8-HxCDF	**0.285**	JK	0.157	8.52	0.97	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.183	8.52			1
2,3,4,6,7,8-HxCDF	**0.691**	J	0.174	8.52	1.19	1.000	1
1,2,3,4,6,7,8-HpCDF	**6.31**	BJ	0.0618	8.52	1.05	1.000	1
1,2,3,4,7,8,9-HpCDF	**0.252**	J	0.0581	8.52	0.92	1.000	1
OCDF	**15.2**	BJ	0.155	17.0	0.86	1.004	1
Total Tetra-Dioxins	**0.513**	J	0.0596	1.70	0.78		1
Total Penta-Dioxins	**1.31**	J	0.0617	8.52	1.32		1
Total Hexa-Dioxins	**12.8**		0.169	8.52	1.24		1
Total Hepta-Dioxins	**64.4**		0.101	8.52	1.02		1
Total Tetra-Furans	**4.61**		0.0612	1.70	0.79		1
Total Penta-Furans	**5.42**	J	0.0963	8.52	1.57		1
Total Hexa-Furans	**8.17**	J	0.162	8.52	1.16		1
Total Hepta-Furans	**16.2**		0.0618	8.52	1.05		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-09	**Units:**	Percent
Lab Code:	E0800847-009	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 21:29:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.226g	**Instrument Name:**	E-HRMS-02
Percent Solids:	57.4	**GC Column:**	DB-5
Data File Name:	U217455	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1802.411	90		25-164	0.82	1.008
13C-1,2,3,7,8-PeCDD	2000	1675.047	84		25-181	1.57	1.171
13C-1,2,3,4,7,8-HxCDD	2000	1601.790	80		32-141	1.24	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1309.020	65		28-130	1.22	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1248.366	62		23-140	1.01	1.070
13C-OCDD	4000	1826.376	46		17-157	0.92	1.152
13C-2,3,7,8-TCDF	2000	1551.434	78		24-169	0.82	0.979
13C-1,2,3,7,8-PeCDF	2000	1742.234	87		24-185	1.64	1.133
13C-2,3,4,7,8-PeCDF	2000	1612.195	81		21-178	1.56	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1495.625	75		26-152	0.53	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1496.460	75		26-123	0.55	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1457.949	73		29-147	0.55	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1470.031	74		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1204.501	60		28-143	0.47	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1634.472	82		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	749.980	94		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-09	**Units:**	ng/Kg
Lab Code:	E0800847-009	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.0596	1	1	
1,2,3,7,8-PeCDD	**0.134**	0.0617	1	0.5	0.0670
1,2,3,4,7,8-HxCDD	**0.172**	0.169	1	0.10	0.0172
1,2,3,6,7,8-HxCDD	**1.14**	0.236	1	0.10	0.114
1,2,3,7,8,9-HxCDD	**0.735**	0.187	1	0.10	0.0735
1,2,3,4,6,7,8-HpCDD	**23.9**	0.101	1	0.01	0.239
OCDD	**206**	0.224	1	0.001	0.206
2,3,7,8-TCDF	**0.627**	0.331	1	0.1	0.0627
1,2,3,7,8-PeCDF	**0.239**	0.0957	1	0.05	0.0120
2,3,4,7,8-PeCDF	**0.367**	0.0963	1	0.5	0.184
1,2,3,4,7,8-HxCDF	**0.716**	0.162	1	0.1	0.0716
1,2,3,6,7,8-HxCDF	**0.285**	0.157	1	0.1	0.0285
1,2,3,7,8,9-HxCDF	ND	0.183	1	0.1	
2,3,4,6,7,8-HxCDF	**0.691**	0.174	1	0.1	0.0691
1,2,3,4,6,7,8-HpCDF	**6.31**	0.0618	1	0.01	0.0631
1,2,3,4,7,8,9-HpCDF	**0.252**	0.0581	1	0.01	0.00252
OCDF	**15.2**	0.155	1	0.001	0.0152
		Total TEQ			1.23

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-09RE	**Units:**	ng/Kg
Lab Code:	E0800847-009	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 16:08:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.226g	**Instrument Name:**	E-HRMS-70
Percent Solids:		**GC Column:**	DB-225
Data File Name:	C15341#11	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**0.627**	JK	0.331	1.70	0.90	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1403.143	70		24-169	0.77	1.053
37Cl-2,3,7,8-TCDD	800	744.038	93		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-10	**Units:**	ng/Kg
Lab Code:	E0800847-010	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 22:16:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.982g	**Instrument Name:**	E-HRMS-02
Percent Solids:	46.5	**GC Column:**	DB-5
Data File Name:	U217456	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.594**	JK	0.0736	1.79	0.62	1.000	1
1,2,3,7,8-PeCDD	**1.47**	J	0.0592	8.97	1.58	1.000	1
1,2,3,4,7,8-HxCDD	**2.14**	J	0.575	8.97	1.40	1.000	1
1,2,3,6,7,8-HxCDD	**14.7**		0.804	8.97	1.27	1.000	1
1,2,3,7,8,9-HxCDD	**7.56**	J	0.636	8.97	1.29	1.008	1
1,2,3,4,6,7,8-HpCDD	**313**	B	0.349	8.97	1.08	1.000	1
OCDD	**2620**	B	0.887	17.9	0.90	1.000	1
2,3,7,8-TCDF	**5.30**	C	0.0495	1.79	0.76	1.001	1
1,2,3,7,8-PeCDF	**1.43**	J	0.124	8.97	1.42	1.000	1
2,3,4,7,8-PeCDF	**2.17**	J	0.120	8.97	1.55	1.001	1
1,2,3,4,7,8-HxCDF	**6.97**	J	0.105	8.97	1.20	1.000	1
1,2,3,6,7,8-HxCDF	**3.06**	J	0.110	8.97	1.26	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.119	8.97			1
2,3,4,6,7,8-HxCDF	**4.57**	J	0.112	8.97	1.25	1.000	1
1,2,3,4,6,7,8-HpCDF	**80.8**	B	0.312	8.97	1.04	1.000	1
1,2,3,4,7,8,9-HpCDF	**2.76**	J	0.312	8.97	1.05	1.000	1
OCDF	**197**	B	0.283	17.9	0.89	1.004	1
Total Tetra-Dioxins	**5.56**		0.0736	1.79	0.78		1
Total Penta-Dioxins	**20.0**		0.0592	8.97	1.33		1
Total Hexa-Dioxins	**135**		0.575	8.97	1.27		1
Total Hepta-Dioxins	**703**		0.349	8.97	1.06		1
Total Tetra-Furans	**37.4**		0.0495	1.79	0.80		1
Total Penta-Furans	**41.8**		0.120	8.97	1.54		1
Total Hexa-Furans	**89.6**		0.105	8.97	1.26		1
Total Hepta-Furans	**200**		0.312	8.97	1.04		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-10	**Units:**	Percent
Lab Code:	E0800847-010	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 22:16:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.982g	**Instrument Name:**	E-HRMS-02
Percent Solids:	46.5	**GC Column:**	DB-5
Data File Name:	U217456	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1732.225	87		25-164	0.79	1.009
13C-1,2,3,7,8-PeCDD	2000	1669.282	83		25-181	1.58	1.171
13C-1,2,3,4,7,8-HxCDD	2000	1701.466	85		32-141	1.29	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1363.560	68		28-130	1.16	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1218.939	61		23-140	1.07	1.070
13C-OCDD	4000	1750.987	44		17-157	0.92	1.152
13C-2,3,7,8-TCDF	2000	1455.011	73		24-169	0.79	0.979
13C-1,2,3,7,8-PeCDF	2000	1695.106	85		24-185	1.55	1.133
13C-2,3,4,7,8-PeCDF	2000	1614.553	81		21-178	1.61	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1491.276	75		26-152	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1489.408	74		26-123	0.53	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1567.389	78		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1491.890	75		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1230.839	62		28-143	0.46	1.046
13C-1,2,3,4,7,8,9-HpCDF	2000	1569.519	78		26-138	0.46	1.081
37Cl-2,3,7,8-TCDD	800	683.292	85		35-197	NA	1.009

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-10	**Units:**	ng/Kg
Lab Code:	E0800847-010	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.594**	0.0736	1	1	0.594
1,2,3,7,8-PeCDD	**1.47**	0.0592	1	0.5	0.735
1,2,3,4,7,8-HxCDD	**2.14**	0.575	1	0.10	0.214
1,2,3,6,7,8-HxCDD	**14.7**	0.804	1	0.10	1.47
1,2,3,7,8,9-HxCDD	**7.56**	0.636	1	0.10	0.756
1,2,3,4,6,7,8-HpCDD	**313**	0.349	1	0.01	3.13
OCDD	**2620**	0.887	1	0.001	2.62
2,3,7,8-TCDF	**3.76**	0.632	1	0.1	0.376
1,2,3,7,8-PeCDF	**1.43**	0.124	1	0.05	0.0715
2,3,4,7,8-PeCDF	**2.17**	0.120	1	0.5	1.09
1,2,3,4,7,8-HxCDF	**6.97**	0.105	1	0.1	0.697
1,2,3,6,7,8-HxCDF	**3.06**	0.110	1	0.1	0.306
1,2,3,7,8,9-HxCDF	ND	0.119	1	0.1	
2,3,4,6,7,8-HxCDF	**4.57**	0.112	1	0.1	0.457
1,2,3,4,6,7,8-HpCDF	**80.8**	0.312	1	0.01	0.808
1,2,3,4,7,8,9-HpCDF	**2.76**	0.312	1	0.01	0.0276
OCDF	**197**	0.283	1	0.001	0.197
		Total TEQ			13.5

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-10RE	**Units:**	ng/Kg
Lab Code:	E0800847-010	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 16:40:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	11.982g	**Instrument Name:**	E-HRMS-70
Percent Solids:		**GC Column:**	DB-225
Data File Name:	C15341#12	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**3.76**		0.632	1.79	0.76	1.000	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1280.236	64		24-169	0.76	1.054
37Cl-2,3,7,8-TCDD	800	679.350	85		35-197	NA	0.988

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-11	**Units:**	ng/Kg
Lab Code:	E0800847-011	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 23:04:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.790g	**Instrument Name:**	E-HRMS-02
Percent Solids:	41.5	**GC Column:**	DB-5
Data File Name:	U217457	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.656**	J	0.0889	2.23	0.67	1.000	1
1,2,3,7,8-PeCDD	**1.35**	J	0.265	11.2	1.48	1.000	1
1,2,3,4,7,8-HxCDD	**2.26**	J	0.515	11.2	1.28	1.000	1
1,2,3,6,7,8-HxCDD	**13.5**		0.697	11.2	1.32	1.000	1
1,2,3,7,8,9-HxCDD	**7.42**	J	0.562	11.2	1.18	1.008	1
1,2,3,4,6,7,8-HpCDD	**313**	B	0.405	11.2	1.05	1.000	1
OCDD	**2960**	B	1.12	22.3	0.91	1.000	1
2,3,7,8-TCDF	**4.84**	C	0.0681	2.23	0.75	1.001	1
1,2,3,7,8-PeCDF	**1.39**	J	0.142	11.2	1.48	1.000	1
2,3,4,7,8-PeCDF	**1.99**	J	0.144	11.2	1.46	1.001	1
1,2,3,4,7,8-HxCDF	**7.15**	J	0.100	11.2	1.27	1.000	1
1,2,3,6,7,8-HxCDF	**2.76**	J	0.0989	11.2	1.21	1.000	1
1,2,3,7,8,9-HxCDF	**0.129**	J	0.114	11.2	1.27	1.000	1
2,3,4,6,7,8-HxCDF	**3.98**	J	0.104	11.2	1.34	1.000	1
1,2,3,4,6,7,8-HpCDF	**81.3**	B	0.363	11.2	1.04	1.000	1
1,2,3,4,7,8,9-HpCDF	**3.51**	J	0.360	11.2	1.04	1.000	1
OCDF	**212**	B	0.312	22.3	0.88	1.004	1
Total Tetra-Dioxins	**6.67**		0.0889	2.23	0.73		1
Total Penta-Dioxins	**8.85**	J	0.265	11.2	1.47		1
Total Hexa-Dioxins	**133**		0.515	11.2	1.26		1
Total Hepta-Dioxins	**684**		0.405	11.2	1.08		1
Total Tetra-Furans	**26.1**		0.0681	2.23	0.82		1
Total Penta-Furans	**38.0**		0.144	11.2	1.55		1
Total Hexa-Furans	**86.2**		0.100	11.2	1.21		1
Total Hepta-Furans	**202**		0.363	11.2	1.04		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-11	**Units:**	Percent
Lab Code:	E0800847-011	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 23:04:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.790g	**Instrument Name:**	E-HRMS-02
Percent Solids:	41.5	**GC Column:**	DB-5
Data File Name:	U217457	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1855.555	93		25-164	0.79	1.008
13C-1,2,3,7,8-PeCDD	2000	1720.371	86		25-181	1.59	1.170
13C-1,2,3,4,7,8-HxCDD	2000	1649.196	82		32-141	1.24	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1445.911	72		28-130	1.20	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1325.062	66		23-140	1.04	1.070
13C-OCDD	4000	1859.248	46		17-157	0.90	1.152
13C-2,3,7,8-TCDF	2000	1476.649	74		24-169	0.81	0.978
13C-1,2,3,7,8-PeCDF	2000	1729.270	86		24-185	1.64	1.132
13C-2,3,4,7,8-PeCDF	2000	1596.596	80		21-178	1.56	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1499.762	75		26-152	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1549.309	77		26-123	0.55	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1513.320	76		29-147	0.54	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1533.604	77		28-136	0.54	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1315.565	66		28-143	0.45	1.046
13C-1,2,3,4,7,8,9-HpCDF	2000	1680.708	84		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	727.943	91		35-197	NA	1.008

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-11	**Units:**	ng/Kg
Lab Code:	E0800847-011	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.656**	0.0889	1	1	0.656
1,2,3,7,8-PeCDD	**1.35**	0.265	1	0.5	0.675
1,2,3,4,7,8-HxCDD	**2.26**	0.515	1	0.10	0.226
1,2,3,6,7,8-HxCDD	**13.5**	0.697	1	0.10	1.35
1,2,3,7,8,9-HxCDD	**7.42**	0.562	1	0.10	0.742
1,2,3,4,6,7,8-HpCDD	**313**	0.405	1	0.01	3.13
OCDD	**2960**	1.12	1	0.001	2.96
2,3,7,8-TCDF	**3.37**	0.422	1	0.1	0.337
1,2,3,7,8-PeCDF	**1.39**	0.142	1	0.05	0.0695
2,3,4,7,8-PeCDF	**1.99**	0.144	1	0.5	0.995
1,2,3,4,7,8-HxCDF	**7.15**	0.100	1	0.1	0.715
1,2,3,6,7,8-HxCDF	**2.76**	0.0989	1	0.1	0.276
1,2,3,7,8,9-HxCDF	**0.129**	0.114	1	0.1	0.0129
2,3,4,6,7,8-HxCDF	**3.98**	0.104	1	0.1	0.398
1,2,3,4,6,7,8-HpCDF	**81.3**	0.363	1	0.01	0.813
1,2,3,4,7,8,9-HpCDF	**3.51**	0.360	1	0.01	0.0351
OCDF	**212**	0.312	1	0.001	0.212
		Total TEQ			13.6

EPA TEFs, ND = 0

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-11RE	**Units:**	ng/Kg
Lab Code:	E0800847-011	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 17:13:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.790g	**Instrument Name:**	E-HRMS-70
Percent Solids:		**GC Column:**	DB-225
Data File Name:	C15341#13	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**3.37**		0.422	2.23	0.82	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1483.419	74		24-169	0.78	1.054
37Cl-2,3,7,8-TCDD	800	733.753	92		35-197	NA	0.989

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-12	**Units:**	ng/Kg
Lab Code:	E0800847-012	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 23:52:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	14.399g	**Instrument Name:**	E-HRMS-02
Percent Solids:	53.7	**GC Column:**	DB-5
Data File Name:	U217458	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**0.183**	JK	0.0522	1.29	0.50	1.000	1
1,2,3,7,8-PeCDD	**0.472**	J	0.0673	6.47	1.38	1.000	1
1,2,3,4,7,8-HxCDD	**0.672**	J	0.236	6.47	1.11	1.000	1
1,2,3,6,7,8-HxCDD	**4.58**	J	0.331	6.47	1.23	1.000	1
1,2,3,7,8,9-HxCDD	**2.33**	J	0.261	6.47	1.17	1.008	1
1,2,3,4,6,7,8-HpCDD	**94.9**	B	0.154	6.47	1.04	1.000	1
OCDD	**759**	B	0.425	12.9	0.91	1.000	1
2,3,7,8-TCDF	**1.88**	C	0.0406	1.29	0.79	1.001	1
1,2,3,7,8-PeCDF	**0.482**	J	0.0610	6.47	1.32	1.001	1
2,3,4,7,8-PeCDF	**0.752**	J	0.0579	6.47	1.48	1.001	1
1,2,3,4,7,8-HxCDF	**1.90**	J	0.173	6.47	1.29	1.000	1
1,2,3,6,7,8-HxCDF	**0.868**	J	0.172	6.47	1.07	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.198	6.47			1
2,3,4,6,7,8-HxCDF	**1.39**	J	0.175	6.47	1.13	1.000	1
1,2,3,4,6,7,8-HpCDF	**22.6**	B	0.370	6.47	1.02	1.000	1
1,2,3,4,7,8,9-HpCDF	**0.834**	J	0.332	6.47	0.98	1.000	1
OCDF	**63.8**	B	0.145	12.9	0.87	1.004	1
Total Tetra-Dioxins	**1.24**	J	0.0522	1.29	0.73		1
Total Penta-Dioxins	**3.78**	J	0.0673	6.47	1.50		1
Total Hexa-Dioxins	**44.0**		0.236	6.47	1.25		1
Total Hepta-Dioxins	**214**		0.154	6.47	1.04		1
Total Tetra-Furans	**11.6**		0.0406	1.29	0.89		1
Total Penta-Furans	**13.1**		0.0579	6.47	1.66		1
Total Hexa-Furans	**27.2**		0.173	6.47	1.23		1
Total Hepta-Furans	**58.5**		0.370	6.47	1.02		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-12	**Units:**	Percent
Lab Code:	E0800847-012	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/10/08 23:52:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	14.399g	**Instrument Name:**	E-HRMS-02
Percent Solids:	53.7	**GC Column:**	DB-5
Data File Name:	U217458	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217450

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1700.554	85		25-164	0.78	1.008
13C-1,2,3,7,8-PeCDD	2000	1645.489	82		25-181	1.55	1.170
13C-1,2,3,4,7,8-HxCDD	2000	1609.613	80		32-141	1.25	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1246.196	62		28-130	1.22	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1160.506	58		23-140	1.06	1.070
13C-OCDD	4000	1519.659	38		17-157	0.90	1.152
13C-2,3,7,8-TCDF	2000	1461.213	73		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1660.679	83		24-185	1.61	1.132
13C-2,3,4,7,8-PeCDF	2000	1598.797	80		21-178	1.60	1.158
13C-1,2,3,4,7,8-HxCDF	2000	1344.825	67		26-152	0.53	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1389.099	69		26-123	0.54	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1363.507	68		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1426.998	71		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1092.699	55		28-143	0.47	1.046
13C-1,2,3,4,7,8,9-HpCDF	2000	1585.836	79		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	673.182	84		35-197	NA	1.008

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-12	**Units:**	ng/Kg
Lab Code:	E0800847-012	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**0.183**	0.0522	1	1	0.183
1,2,3,7,8-PeCDD	**0.472**	0.0673	1	0.5	0.236
1,2,3,4,7,8-HxCDD	**0.672**	0.236	1	0.10	0.0672
1,2,3,6,7,8-HxCDD	**4.58**	0.331	1	0.10	0.458
1,2,3,7,8,9-HxCDD	**2.33**	0.261	1	0.10	0.233
1,2,3,4,6,7,8-HpCDD	**94.9**	0.154	1	0.01	0.949
OCDD	**759**	0.425	1	0.001	0.759
2,3,7,8-TCDF	**1.55**	0.403	1	0.1	0.155
1,2,3,7,8-PeCDF	**0.482**	0.0610	1	0.05	0.0241
2,3,4,7,8-PeCDF	**0.752**	0.0579	1	0.5	0.376
1,2,3,4,7,8-HxCDF	**1.90**	0.173	1	0.1	0.190
1,2,3,6,7,8-HxCDF	**0.868**	0.172	1	0.1	0.0868
1,2,3,7,8,9-HxCDF	ND	0.198	1	0.1	
2,3,4,6,7,8-HxCDF	**1.39**	0.175	1	0.1	0.139
1,2,3,4,6,7,8-HpCDF	**22.6**	0.370	1	0.01	0.226
1,2,3,4,7,8,9-HpCDF	**0.834**	0.332	1	0.01	0.00834
OCDF	**63.8**	0.145	1	0.001	0.0638
		Total TEQ			4.15

EPA TEFs, ND = 0

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	08/20/2008
Sample Matrix:	Soil	**Date Received:**	08/27/2008
Sample Name:	15079-12RE	**Units:**	ng/Kg
Lab Code:	E0800847-012	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/11/08 17:46:0(
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	14.399g	**Instrument Name:**	E-HRMS-70
Percent Solids:		**GC Column:**	DB-225
Data File Name:	C15341#14	**Blank File Name:**	C15341#3
ICAL Name:	05/30/08	**Cal Ver. File Name:**	C15341#2

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	**1.55**		0.403	1.29	0.86	1.001	1

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1437.269	72		24-169	0.77	1.054
37Cl-2,3,7,8-TCDD	800	718.425	90		35-197	NA	0.989

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/Kg
Lab Code:	EQ0800380-01	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/9/08 12:26:00
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-01
Percent Solids:		**GC Column:**	DB-5
Data File Name:	U129751	**Blank File Name:**	U129751
ICAL Name:	05/02/08	**Cal Ver. File Name:**	U129750

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0434	1.00			1
1,2,3,7,8-PeCDD	ND	U	0.0516	5.00			1
1,2,3,4,7,8-HxCDD	ND	U	0.0493	5.00			1
1,2,3,6,7,8-HxCDD	ND	U	0.0687	5.00			1
1,2,3,7,8,9-HxCDD	ND	U	0.0550	5.00			1
1,2,3,4,6,7,8-HpCDD	**0.640**	JK	0.117	5.00	0.87	1.000	1
OCDD	**2.59**	J	0.215	10.0	0.88	1.000	1
2,3,7,8-TCDF	ND	U	0.0634	1.00			1
1,2,3,7,8-PeCDF	ND	U	0.0342	5.00			1
2,3,4,7,8-PeCDF	ND	U	0.0341	5.00			1
1,2,3,4,7,8-HxCDF	ND	U	0.0382	5.00			1
1,2,3,6,7,8-HxCDF	ND	U	0.0377	5.00			1
1,2,3,7,8,9-HxCDF	ND	U	0.0521	5.00			1
2,3,4,6,7,8-HxCDF	ND	U	0.0408	5.00			1
1,2,3,4,6,7,8-HpCDF	**0.218**	J	0.0378	5.00	0.91	1.000	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.0497	5.00			1
OCDF	**0.235**	JK	0.0893	10.0	1.14	1.003	1
Total Tetra-Dioxins	ND	U	0.0434	1.00			1
Total Penta-Dioxins	ND	U	0.0516	5.00			1
Total Hexa-Dioxins	ND	U	0.0493	5.00			1
Total Hepta-Dioxins	**0.662**	J	0.117	5.00	1.07		1
Total Tetra-Furans	ND	U	0.0634	1.00			1
Total Penta-Furans	ND	U	0.0341	5.00			1
Total Hexa-Furans	ND	U	0.0382	5.00			1
Total Hepta-Furans	**0.218**	J	0.0378	5.00	0.91		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ0800380-01	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/9/08 12:26:00
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-01
Percent Solids:		**GC Column:**	DB-5
Data File Name:	U129751	**Blank File Name:**	U129751
ICAL Name:	05/02/08	**Cal Ver. File Name:**	U129750

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1150.005	58		25-164	0.78	1.009
13C-1,2,3,7,8-PeCDD	2000	1261.610	63		25-181	1.56	1.175
13C-1,2,3,4,7,8-HxCDD	2000	1738.027	87		32-141	1.25	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1459.612	73		28-130	1.28	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1474.718	74		23-140	1.05	1.067
13C-OCDD	4000	2272.133	57		17-157	0.90	1.145
13C-2,3,7,8-TCDF	2000	910.033	46		24-169	0.79	0.978
13C-1,2,3,7,8-PeCDF	2000	1229.167	61		24-185	1.57	1.135
13C-2,3,4,7,8-PeCDF	2000	1128.191	56		21-178	1.57	1.162
13C-1,2,3,4,7,8-HxCDF	2000	1490.125	75		26-152	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1507.883	75		26-123	0.52	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1422.302	71		29-147	0.51	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1513.665	76		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1506.990	75		28-143	0.45	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1703.963	85		26-138	0.45	1.078
37Cl-2,3,7,8-TCDD	800	454.796	57		35-197	NA	1.009

Comments:

Columbia Analytical Services INC

Accuracy and Precision

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Client: Resource Laboratories
Project: Dioxins & Furans in Soil/15079
Sample Matrix: Soil

Service Request: E0800847
Date Analyzed: 09/09/2008

Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Sample Name: Lab Control Sample
Lab Code: EQ0800380-02

Units: ng/Kg
Basis: Dry

Analytical Method: 1613B
Prep Method: Method

Extraction Lot: 73429

Analyte Name	Lab Control Sample Result	Lab Control Sample Expected	Lab Control Sample % Rec	Duplicate Lab Control Sample Result	Duplicate Lab Control Sample Expected	Duplicate Lab Control Sample % Rec	% Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD	22.9	20.0	114	23.6	20.0	118	67 - 158	3	50
1,2,3,7,8-PeCDD	100	100	100	102	100	102	70 - 142	2	50
1,2,3,4,7,8-HxCDD	80.7	100	81	82.9	100	83	70 - 164	2	50
1,2,3,6,7,8-HxCDD	109	100	109	112	100	112	76 - 134	3	50
1,2,3,7,8,9-HxCDD	96.2	100	96	102	100	102	64 - 162	6	50
1,2,3,4,6,7,8-HpCDD	98.9	100	99	100	100	100	70 - 140	1	50
OCDD	211	200	106	217	200	109	78 - 144	3	50
2,3,7,8-TCDF	20.1	20.0	101	20.5	20.0	103	75 - 158	2	50
1,2,3,7,8-PeCDF	104	100	104	105	100	105	80 - 134	1	50
2,3,4,7,8-PeCDF	103	100	103	107	100	107	68 - 160	4	50
1,2,3,4,7,8-HxCDF	106	100	106	110	100	110	72 - 134	4	50
1,2,3,6,7,8-HxCDF	107	100	107	109	100	109	84 - 130	2	50
1,2,3,7,8,9-HxCDF	86.4	100	86	89.0	100	89	78 - 130	3	50
2,3,4,6,7,8-HxCDF	96.4	100	96	100	100	100	70 - 156	4	50
1,2,3,4,6,7,8-HpCDF	101	100	101	103	100	103	82 - 132	2	50
1,2,3,4,7,8,9-HpCDF	84.8	100	85	85.8	100	86	78 - 138	1	50
OCDF	239	200	120	242	200	121	63 - 170	1	50

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	ng/Kg
Lab Code:	EQ0800380-02	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/9/08 14:38:00
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-02
Percent Solids:		**GC Column:**	DB-5
Data File Name:	U217430	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217427

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**22.9**		0.0788	1.00	0.79	1.001	1
1,2,3,7,8-PeCDD	**100**		0.0666	5.00	1.58	1.000	1
1,2,3,4,7,8-HxCDD	**80.7**		0.0566	5.00	1.27	1.000	1
1,2,3,6,7,8-HxCDD	**109**		0.0757	5.00	1.25	1.000	1
1,2,3,7,8,9-HxCDD	**96.2**		0.0614	5.00	1.26	1.008	1
1,2,3,4,6,7,8-HpCDD	**98.9**		0.0486	5.00	1.08	1.000	1
OCDD	**211**		0.103	10.0	0.90	1.000	1
2,3,7,8-TCDF	**20.1**		0.0607	1.00	0.79	1.001	1
1,2,3,7,8-PeCDF	**104**		0.0514	5.00	1.60	1.001	1
2,3,4,7,8-PeCDF	**103**		0.0517	5.00	1.57	1.001	1
1,2,3,4,7,8-HxCDF	**106**		0.0466	5.00	1.25	1.000	1
1,2,3,6,7,8-HxCDF	**107**		0.0486	5.00	1.26	1.000	1
1,2,3,7,8,9-HxCDF	**86.4**		0.0713	5.00	1.25	1.000	1
2,3,4,6,7,8-HxCDF	**96.4**		0.0520	5.00	1.27	1.000	1
1,2,3,4,6,7,8-HpCDF	**101**		0.0702	5.00	1.06	1.000	1
1,2,3,4,7,8,9-HpCDF	**84.8**		0.0791	5.00	1.05	1.000	1
OCDF	**239**		0.0977	10.0	0.90	1.004	1
Total Tetra-Dioxins	**22.9**		0.0788	1.00	0.79		1
Total Penta-Dioxins	**100**		0.0666	5.00	1.58		1
Total Hexa-Dioxins	**286**		0.0566	5.00	1.27		1
Total Hepta-Dioxins	**99.5**		0.0486	5.00	0.93		1
Total Tetra-Furans	**20.5**		0.0607	1.00	0.73		1
Total Penta-Furans	**211**		0.0517	5.00	1.33		1
Total Hexa-Furans	**396**		0.0466	5.00	1.25		1
Total Hepta-Furans	**185**		0.0702	5.00	1.06		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	EQ0800380-02	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/9/08 14:38:00
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-02
Percent Solids:		**GC Column:**	DB-5
Data File Name:	U217430	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217427

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1489.312	74		25-164	0.80	1.008
13C-1,2,3,7,8-PeCDD	2000	1825.932	91		25-181	1.59	1.169
13C-1,2,3,4,7,8-HxCDD	2000	1553.797	78		32-141	1.27	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1353.461	68		28-130	1.27	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1347.104	67		23-140	1.05	1.069
13C-OCDD	4000	2417.410	60		17-157	0.90	1.152
13C-2,3,7,8-TCDF	2000	1353.586	68		24-169	0.79	0.979
13C-1,2,3,7,8-PeCDF	2000	2016.829	101		24-185	1.57	1.131
13C-2,3,4,7,8-PeCDF	2000	1884.591	94		21-178	1.60	1.157
13C-1,2,3,4,7,8-HxCDF	2000	1620.700	81		26-152	0.53	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1639.085	82		26-123	0.54	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1290.610	65		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1629.728	81		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1574.411	79		28-143	0.46	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1767.730	88		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	619.483	77		35-197	NA	1.009

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Lab Control Sample Dup	**Units:**	ng/Kg
Lab Code:	EQ0800380-03	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/9/08 15:26:00
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-02
Percent Solids:		**GC Column:**	DB-5
Data File Name:	U217431	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217427

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**23.6**		0.0600	1.00	0.76	1.001	1
1,2,3,7,8-PeCDD	**102**		0.0657	5.00	1.57	1.000	1
1,2,3,4,7,8-HxCDD	**82.9**		0.0532	5.00	1.24	1.000	1
1,2,3,6,7,8-HxCDD	**112**		0.0731	5.00	1.28	1.000	1
1,2,3,7,8,9-HxCDD	**102**		0.0584	5.00	1.27	1.008	1
1,2,3,4,6,7,8-HpCDD	**100**		0.0562	5.00	1.04	1.000	1
OCDD	**217**		0.137	10.0	0.89	1.000	1
2,3,7,8-TCDF	**20.5**		0.0686	1.00	0.79	1.001	1
1,2,3,7,8-PeCDF	**105**		0.0383	5.00	1.60	1.001	1
2,3,4,7,8-PeCDF	**107**		0.0387	5.00	1.60	1.000	1
1,2,3,4,7,8-HxCDF	**110**		0.0408	5.00	1.25	1.000	1
1,2,3,6,7,8-HxCDF	**109**		0.0393	5.00	1.27	1.000	1
1,2,3,7,8,9-HxCDF	**89.0**		0.0586	5.00	1.26	1.000	1
2,3,4,6,7,8-HxCDF	**100**		0.0423	5.00	1.28	1.000	1
1,2,3,4,6,7,8-HpCDF	**103**		0.0822	5.00	1.05	1.000	1
1,2,3,4,7,8,9-HpCDF	**85.8**		0.0936	5.00	1.05	1.000	1
OCDF	**242**		0.0878	10.0	0.91	1.004	1
Total Tetra-Dioxins	**23.6**		0.0600	1.00	0.76		1
Total Penta-Dioxins	**102**		0.0657	5.00	1.57		1
Total Hexa-Dioxins	**297**		0.0532	5.00	1.24		1
Total Hepta-Dioxins	**100**		0.0562	5.00	1.04		1
Total Tetra-Furans	**21.1**		0.0686	1.00	0.85		1
Total Penta-Furans	**214**		0.0387	5.00	1.44		1
Total Hexa-Furans	**408**		0.0408	5.00	1.25		1
Total Hepta-Furans	**189**		0.0822	5.00	1.05		1

Comments:

Client:	Resource Laboratories	**Service Request:**	E0800847
Project:	Dioxins & Furans in Soil/15079	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Lab Control Sample Dup	**Units:**	Percent
Lab Code:	EQ0800380-03	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	9/9/08 15:26:00
Prep Method:	Method	**Date Extracted:**	9/4/08
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-02
Percent Solids:		**GC Column:**	DB-5
Data File Name:	U217431	**Blank File Name:**	U129751
ICAL Name:	04/13/07	**Cal Ver. File Name:**	U217427

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1594.188	80		25-164	0.79	1.008
13C-1,2,3,7,8-PeCDD	2000	1945.528	97		25-181	1.57	1.169
13C-1,2,3,4,7,8-HxCDD	2000	1666.771	83		32-141	1.25	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1392.107	70		28-130	1.26	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1419.796	71		23-140	1.06	1.069
13C-OCDD	4000	2543.971	64		17-157	0.91	1.152
13C-2,3,7,8-TCDF	2000	1493.541	75		24-169	0.80	0.979
13C-1,2,3,7,8-PeCDF	2000	2185.467	109		24-185	1.58	1.131
13C-2,3,4,7,8-PeCDF	2000	1997.733	100		21-178	1.60	1.157
13C-1,2,3,4,7,8-HxCDF	2000	1668.706	83		26-152	0.55	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1671.187	84		26-123	0.55	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1424.371	71		29-147	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1694.571	85		28-136	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1617.670	81		28-143	0.46	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1842.506	92		26-138	0.45	1.081
37Cl-2,3,7,8-TCDD	800	656.622	82		35-197	NA	1.009

Comments:

USEPA, ITD

CAS, INC.
2378-TCDF ANALYSIS DATA SHEET
Use for Sample and Blank Results

CLIENT ID
INST. BLANK

Lab Name: Columbia Analytical Services

Episode No.:

Client Name:

Lab Sample ID: INST. BLANK

Matrix (aqueous/solid/leachate):

Sample Wt/Vol: g or mL:

Sample Receipt Date:

Initial Calibration Date: 05/30/08

Ext. Date:

Instrument ID: 70S

Analysis Date: 10-SEP-08 Time: 11:22:46

GC Column ID: DB-225

Ext. Vol(ul): 20.0

Sample Data Filename: C15338#3

Inj. Vol(ul): 1.0

Blank Data Filename: C15338#3

Dilution Factor: 1

Cal. Ver. Data Filename: C15338#2

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Solids(Lipid):

ANALYTE	CONCENTRATION FOUND(1)	DETECTION LIMIT	Q	ION ABUND. RATIO	RRT	TEF
2,3,7,8-TCDF	*	0.346	U	*	*	*

INT. STANDARD	SPIKE CONCENT.(pg)	CONCENT. FOUND(pg)	RECOV. %	ION ABUND. RATIO	RRT
13C-2,3,7,8-TCDF	2000	932.98	46.65	0.75	1.05
CLEANUP STANDARD					
37Cl-2,3,7,8-TCDD	800	482.81	60.35		0.99

(1)'*' indicates non-detected.

TCDFF1

USEPA, ITD

CAS, INC.
2378-TCDF ANALYSIS DATA SHEET
Use for Sample and Blank Results

CLIENT ID
INST. BLANK

Lab Name: Columbia Analytical Services

Episode No.:

Client Name:

Lab Sample ID: INST. BLANK

Matrix (aqueous/solid/leachate):

Sample Wt/Vol: g or mL:

Sample Receipt Date:

Initial Calibration Date: 05/30/08

Ext. Date:

Instrument ID: 70S

Analysis Date: 11-SEP-08 Time: 11:47:03

GC Column ID: DB-225

Ext. Vol(ul): 20.0

Sample Data Filename: C15341#3

Inj. Vol(ul): 1.0

Blank Data Filename: C15341#3

Dilution Factor: 1

Cal. Ver. Data Filename: C15341#2

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Solids(Lipid):

ANALYTE	CONCENTRATION FOUND(1)	DETECTION LIMIT	Q	ION ABUND. RATIO	RRT	TEF
2,3,7,8-TCDF	*	0.219	U	*	*	*

INT. STANDARD	SPIKE CONCENT.(pg)	CONCENT. FOUND(pg)	RECOV. %	ION ABUND. RATIO	RRT
13C-2,3,7,8-TCDF	2000	1159.00	57.95	0.77	1.05
CLEANUP STANDARD					
37Cl-2,3,7,8-TCDD	800	586.87	73.36		0.99

(1)'*' indicates non-detected.

TCDFF1

USEPA, ITD

CAS, INC.
2378-TCDF ANALYSIS DATA SHEET
Use for Sample and Blank Results

CLIENT ID
INST. BLANK

Lab Name: Columbia Analytical Services

Episode No.:

Client Name:

Lab Sample ID: INST. BLANK

Matrix (aqueous/solid/leachate):

Sample Wt/Vol: g or mL:

Sample Receipt Date:

Initial Calibration Date: 05/30/08

Ext. Date:

Instrument ID: 70S

Analysis Date: 17-SEP-08 Time: 11:18:27

GC Column ID: DB-225

Ext. Vol(ul): 20.0

Sample Data Filename: C15352#2

Inj. Vol(ul): 1.0

Blank Data Filename: C15352#2

Dilution Factor: 1

Cal. Ver. Data Filename: C15352#1

Concentration Units (pg/L or ng/Kg dry weight): ng/Kg % Solids(Lipid):

ANALYTE	CONCENTRATION FOUND(1)	DETECTION LIMIT	Q	ION ABUND. RATIO	RRT	TEF
2,3,7,8-TCDF	*	0.263	U	*	*	*

INT. STANDARD	SPIKE CONCENT.(pg)	CONCENT. FOUND(pg)	RECOV. %	ION ABUND. RATIO	RRT
13C-2,3,7,8-TCDF	2000	1106.46	55.32	0.78	1.05
CLEANUP STANDARD					
37Cl-2,3,7,8-TCDD	800	589.54	73.69		0.99

(1)'*' indicates non-detected.

TCDFF1

Columbia Analytical Services INC

Chain of Custody

19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
www.caslab.com

An Employee Owned Company

Columbia

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Company Name: See Above
Phone #:
FAX #:
Company Address:
Report To: Sue Sylvester
Project Info: NH MA ME VT 15079
Invoice To:
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*
	15079-01	1		X								8/19/08	1155	
	-02												1235	
	-03												1355	
	-04											8/20/08	730	
	-05												815	
	-06												835	
	-07												1300	
	-08												1215	
	-09												1120	
	-10												1040	
	-11												1000	

ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only
☐ VPH MADEP ☐ MEGRO ☐ GRO
☐ VOC 524.2 ☐ VOC 524.2 NH List
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☐ 8270PAH ☐ 8270ABN ☐ 625
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals
☐ Total Metals-list ☐ Dissolved Metals-list
☐ Ammonia ☐ COD ☐ TKN
☐ T-Phosphorus ☐ Phenol
☐ Cyanide ☐ Sulfide
☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☐ Chloride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC
☐ TCLP Pesticide ☐ TCLP Herbicides (subcontract)
☐ Standard Drinking Water Test ☐ Bacteria P/A
☐ Dioxins 8290 16/13 per Cyan 8/29/08
Grab (G) or Composite (C)

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed: Std. TAT

* See www.reslabs.com for sample acceptance policy.

E-Mail Address: jane@reslabs.com
Quote #
PO #: 15079

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☒ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☐ YES ☐ NO
TEMPERATURE _____ °C

CUSTODY RECORD

Relinquished by Sampler:	Date	Time	Received by:	Date	Time
Relinquished by: Jane Cornu	8/20/08	1000	Received by: UPS	8/21/08	
Relinquished by: UPS			Received by Laboratory: Way Bill#:	8/27/08	1400

6°C

Columbia

RL Resource Laboratories, LLC
124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Company Name: See Above
Phone #:
FAX #:
Company Address:
Report To: Joe Sylvester
Project Info: NH MA ME VT 15079
Invoice To:
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*	Dioxins 8290	Grab (G) or Composite (C)
	15079-12	1		X								8/20/08	1350		X	

ANALYSIS REQUEST: ☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP ☐ VOC 624 ☐ VOC BTEX ☐ MTBE, only ☐ VPH MADEP ☐ MEGRO ☐ GRO ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint ☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB ☐ O&G 1664 ☐ Mineral O&G SM5520F ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☐ TSS ☐ TDS ☐ TS ☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Total Metals-list ☐ Dissolved Metals-list ☐ Ammonia ☐ COD ☐ TKN ☐ T-Phosphorus ☐ Phenol ☐ Cyanide ☐ Sulfide ☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☐ Chloride ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide ☐ TCLP Herbicides (subcontract) ☐ Standard Drinking Water Test ☐ Bacteria P/A

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed: Std TAT

* See www.reslabs.com for sample acceptance policy.

E-Mail Address: janebereslabs.com
Quote #
PO #: 15079

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☒ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☐ YES ☐ NO
TEMPERATURE °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler:			Received by:		
Relinquished by: [signature]	8/21/08	1000	Received by: UPS	8/21/08	
Relinquished by:			Received by Laboratory: [signature] Way Bill#:	8/27/08	1400

Reset Form

Print Form

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client/Project: Resource Laboratories Service Request: E0800847

Received: 8/27/08 Opened (Date/Time): 14:00 By: AE

1. Samples were received via? ☐ *US Mail* ☐ *Fedex* ☑ *UPS* ☐ *DHL* ☐ *Courier* ☐ *Hand Delivered*
2. Samples were received in: (circle) ☑ *Cooler* ☐ *Box* ☐ *Other* _____ ☐ *NA*
3. Were custody seals present on coolers? ☑ Y ☑ N If yes, how many and where? _____
   If present, were custody seals intact? ☐ Y ☐ N If present, were they signed and dated? ☐ Y ☐ N
4. Is shipper's air-bill filed? ☐ NA ☑ Y ☐ N If not, record air bill number: _____
5. Temperature of cooler(s) upon receipt (°C): 6
6. If applicable, list Chain of Custody numbers: _____
7. Were custody papers properly filled our (ink, signed, etc.)? ☐ NA ☑ Y ☐ N
8. Packing material used: ☐ *Inserts* ☑ *Bubble Wrap* ☑ *Blue Ice* ☐ *Wet Ice* ☐ *Sleeves* ☐ *Other* _____
9. Were the correct types of bottles used for the tests indicated? ☑ Y ☐ N
   Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* ☑ Y ☐ N

Sample ID	Bottle Count	Bottle Type	Out of Temp	Broken	Initials
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	

10. Were all bottle labels complete (i.e. analysis, ID, etc.)? ☑ Y ☐ N
    Did all bottle labels and tags agree with custody papers? *Indicate in the table below.* ☑ Y ☐ N

Sample ID on Bottle	Sample ID on COC		Sample ID on Bottle	Sample ID on COC

11. Additional notes, discrepancies, and resolutions:

_____

_____

_____

Page 1 of: ☑ 1 ☐ 2

Sample Acceptance Policy

Custody Seals (desirable, mandatory if specified in SAP):

- ✓ On outside of cooler
- ✓ Seals intact, signed and dated

Chain-of-Custody documentation (mandatory):

- ✓ Properly filled out in ink & signed by the client
- ✓ Sign and date the coc for CAS/HOU upon cooler receipt
- ✓ Coc must list method number
- ✓ If no coc was submitted with the samples, complete a CAS/HOU coc for the client

Sample Integrity (mandatory):

- ✓ Sample containers must arrive in good condition (not broken or leaking)
- ✓ Sample IDs on the bottles must match the sample IDs on the coc
- ✓ The correct type of sample bottle must be used for the method requested
- ✓ The correct number of sample containers received must agree with the documentation on the coc
- ✓ The correct sample matrix must appear on the coc
- ✓ An appropriate sample volume or weight must be received

Temperature Preservatives (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C
- ✓ Air samples can be shipped and stored at ambient temperature, ~23°C
- ✓ The sample temperature must be recorded on the coc
- ✓ Notify a Project Chemist if any samples are outside the acceptance temperature or have compromised sample integrity – the client must decide re: replacement sample submittal or continue with the analysis

Cooler Receipt Form, CRF (mandatory):

- ✓ Cooler receipt forms must be completed for each coc & SR#
- ✓ Sample integrity issues must be documented on the CRF
- ✓ A scan of the carrier and the airbill number must be recorded in CAS LIMS

Sample Integrity Issues/Resolutions (mandatory):

- ✓ Sample integrity issues are documented on the CRF and given to the Project Chemist for resolution with the client
- ✓ Client resolution is documented in writing (typically email or on the CRF) and filed in the project folder(s)

Service Request Summary

Folder #: **E0800847**
Client Name: Resource Laboratories
Project Name: Dioxins & Furans in Soil
Project Number: 15079

Report To: Sue Sylvester
Resource Laboratories
124 Heritage Ave
Portsmith, NH 03801
Phone Number: 603-436-2001
Cell Number:
Fax Number: 603-430-2100
E-mail: sues@reslabs.com

Project Chemist: Karen Verschoor
Originating Lab: HOUSTON
Logged By: AENNIS
Date Received: 08/27/2008
Internal Due Date: 09/11/2008
QAPP: LAB QAP
Qualifier Set: CAS Standard
Formset: CAS Standard
Merged?: N
Report to MDL?: Y
P.O. Number: 15079
EDD: No EDD Specified

24 - 4 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved

Location: E-WIC01

CAS Samp No.	Client Samp No.	Matrix	Collected		SVM	
					1613B/ Dioxins Furans	1613B/ Total Solids
E0800847-001	15079-01	Soil	8/19/08	1155	II	II
E0800847-002	15079-02	Soil	8/19/08	1235	II	II
E0800847-003	15079-03	Soil	8/19/08	1355	II	II
E0800847-004	15079-04	Soil	8/20/08	0730	II	II
E0800847-005	15079-05	Soil	8/20/08	0815	II	II
E0800847-006	15079-06	Soil	8/20/08	0835	II	II
E0800847-007	15079-07	Soil	8/20/08	1300	II	II
E0800847-008	15079-08	Soil	8/20/08	1215	II	II
E0800847-009	15079-09	Soil	8/20/08	1120	II	II
E0800847-010	15079-10	Soil	8/20/08	1040	II	II
E0800847-011	15079-11	Soil	8/20/08	1000	II	II
E0800847-012	15079-12	Soil	8/20/08	1355	II	II

COLUMBIA ANALYTICAL SERVICES, INC.

Total Solids, (Gravimetric, Dried at 110 Deg C)

Group ID: 73744
Analyst: NBROWN
Date Acquired: 09/04/2008

Reviewed By: _____
Date Reviewed: _____

Lab Code	Client Sample Name	Test	Tare Weight	Wet Weight + Tare	Dry Weight + Tare	Percent Solids
E0800847-001	15079-01	1613B/Total Solids	12.9090g	21.7500g	15.6650g	31.2
E0800847-002	15079-02	1613B/Total Solids	12.9040g	25.3220g	17.7750g	39.2
E0800847-003	15079-03	1613B/Total Solids	12.8920g	21.5790g	16.0170g	36.0
E0800847-004	15079-04	1613B/Total Solids	12.8390g	28.6560g	18.4950g	35.8
E0800847-005	15079-05	1613B/Total Solids	12.8200g	25.2310g	16.2060g	27.3
E0800847-006	15079-06	1613B/Total Solids	12.8320g	26.7600g	16.9530g	29.6
E0800847-007	15079-07	1613B/Total Solids	12.9390g	25.6890g	19.3590g	50.4
E0800847-008	15079-08	1613B/Total Solids	12.8880g	28.1740g	20.1870g	47.7
E0800847-009	15079-09	1613B/Total Solids	12.8570g	24.3260g	19.4350g	57.4
E0800847-010	15079-10	1613B/Total Solids	12.8700g	23.7630g	17.9320g	46.5
E0800847-011	15079-11	1613B/Total Solids	12.8790g	29.5960g	19.8110g	41.5
E0800847-012	15079-12	1613B/Total Solids	12.8220g	24.5470g	19.1210g	53.7
E0800860-001	08A-0078-C1AS	1613B/Total Solids	12.8900g	22.2530g	18.4200g	59.1
E0800860-002	08A-0078-C1BS	1613B/Total Solids	12.8970g	31.0390g	24.1070g	61.8
E0800860-003	08A-0078-C1CS	1613B/Total Solids	12.8590g	21.2490g	18.2580g	64.4
E0800860-004	08A-0078-C1DS	1613B/Total Solids	12.8670g	27.8850g	21.2550g	55.9
E0800860-005	08A-0078-C1ES	1613B/Total Solids	12.8750g	25.1040g	20.5600g	62.8
E0800860-006	08A-0078-C1FS	1613B/Total Solids	12.8430g	20.4700g	17.2870g	58.3
E0800862-001	030380	1613B/Total Solids	12.8940g	24.0050g	22.3620g	85.2

Preparation Information Benchsheet

Prep Run#: 73429 **Prep WorkFlow:** OrgExtS(365) **Status:** Prepped
Team: Semivoa GCMS/SMALHOTRA **Prep Method:** Method **Prep Date/Time:** 09/04/2008 03:00 PM

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Sample Description
1	EQ0800380-01	MB		1613B/Dioxins Furans		Solid	10.000g	
2	EQ0800380-02	LCS		1613B/Dioxins Furans		Solid	10.000g	
3	EQ0800380-03	DLCS		1613B/Dioxins Furans		Solid	10.000g	
4	E0800847-001	15079-01	.01	1613B/Dioxins Furans		Soil	10.024g	Black mud
5	E0800847-002	15079-02	.01	1613B/Dioxins Furans		Soil	10.215g	Black mud
6	E0800847-003	15079-03	.01	1613B/Dioxins Furans		Soil	10.566g	Black mud
7	E0800847-004	15079-04	.01	1613B/Dioxins Furans		Soil	11.047g	Black mud
8	E0800847-005	15079-05	.01	1613B/Dioxins Furans		Soil	12.005g	Black mud
9	E0800847-006	15079-06	.01	1613B/Dioxins Furans		Soil	11.062g	Black mud
10	E0800847-007	15079-07	.01	1613B/Dioxins Furans		Soil	10.250g	Black mud
11	E0800847-008	15079-08	.01	1613B/Dioxins Furans		Soil	12.693g	Black mud
12	E0800847-009	15079-09	.01	1613B/Dioxins Furans		Soil	10.226g	Black mud
13	E0800847-010	15079-10	.01	1613B/Dioxins Furans		Soil	11.982g	Black mud
14	E0800847-011	15079-11	.01	1613B/Dioxins Furans		Soil	10.790g	Black mud
15	E0800847-012	15079-12	.01	1613B/Dioxins Furans		Soil	14.399g	Black mud
18	E0800860-001	08A-0078-C1AS	.01	1613B/Dioxins Furans		Sediment	3.581g	Brown, wet soil
19	E0800860-002	08A-0078-C1BS	.01	1613B/Dioxins Furans		Sediment	3.405g	Brown, wet soil
19	E0800860-003	08A-0078-C1CS	.01	1613B/Dioxins Furans		Sediment	3.514g	Brown, wet soil
19	E0800860-004	08A-0078-C1DS	.01	1613B/Dioxins Furans		Sediment	3.034g	Brown, wet soil
20	E0800860-005	08A-0078-C1ES	.01	1613B/Dioxins Furans		Sediment	2.970g	Brown, wet soil
21	E0800860-006	08A-0078-C1FS	.01	1613B/Dioxins Furans		Sediment	3.028g	Brown, wet soil
22	E0800862-001	030380	.01	1613B/Dioxins Furans		Soil	10.793g	Brown soil
23	K0807873-035	SPD0055	.01	1613B/Dioxins Furans		Soil	32.873g	Brown sand

Preparation Information Benchsheet

Prep Run#: 73429 **Prep WorkFlow:** OrgExtS(365) **Status:** Prepped
Team: Semivoa GCMS/SMALHOTRA **Prep Method:** Method **Prep Date/Time:** 09/04/2008 03:00 PM

Spiking Solutions

Name:	1613B Matrix Working Standard	Inventory ID	5156	Logbook Ref:	D9-78-2B	Expires On:	08/18/2018

EQ0800380-02	100.00uL	EQ0800380-03	100.00uL

Name:	8290/1613B Cleanup Working Standard	Inventory ID	5344	Logbook Ref:	D9-84-4A/B	Expires On:	03/07/2009

E0800847-001	100.00uL	E0800847-002	100.00uL	E0800847-003	100.00uL	E0800847-004	100.00uL	E0800847-005	100.00uL	E0800847-006	100.00uL
E0800847-007	100.00uL	E0800847-008	100.00uL	E0800847-009	100.00uL	E0800847-010	100.00uL	E0800847-011	100.00uL	E0800847-012	100.00uL
E0800860-001	100.00uL	E0800860-002	100.00uL	E0800860-003	100.00uL	E0800860-004	100.00uL	E0800860-005	100.00uL	E0800860-006	100.00uL
E0800862-001	100.00uL	EQ0800380-01	100.00uL	EQ0800380-02	100.00uL	EQ0800380-03	100.00uL	K0807873-035	100.00uL		

Name:	1613B Labeled Working Standard	Inventory ID	5348	Logbook Ref:	D9-84-2B	Expires On:	03/08/2009

E0800847-001	1,000.00uL	E0800847-002	1,000.00uL	E0800847-003	1,000.00uL	E0800847-004	1,000.00uL	E0800847-005	1,000.00uL	E0800847-006	1,000.00uL
E0800847-007	1,000.00uL	E0800847-008	1,000.00uL	E0800847-009	1,000.00uL	E0800847-010	1,000.00uL	E0800847-011	1,000.00uL	E0800847-012	1,000.00uL
E0800860-001	1,000.00uL	E0800860-002	1,000.00uL	E0800860-003	1,000.00uL	E0800860-004	1,000.00uL	E0800860-005	1,000.00uL	E0800860-006	1,000.00uL
E0800862-001	1,000.00uL	EQ0800380-01	1,000.00uL	EQ0800380-02	1,000.00uL	EQ0800380-03	1,000.00uL	K0807873-035	1,000.00uL		

Preparation Materials

Sand Reagent Grade	C1-99-1 (345)	Silica Gel Reagent Grade	C2-6-004 (3305)	Carbon, High Purity	C2-9-004 (3628)
Glass Wool	C2-1-004 (3060)	Acetone 99.5% Minimum	C1-124-004 (3063)	Nonane (n-Nonane) 99%	C2-4-003 (3304)
Sodium Chloride Reagent Grade I	C1-104-2 (3306)	Sodium Sulfate Anhydrous Reage	C2-10-001 (3635)	Dichloromethane (Methylene Chl	C2-9-007 (3629)
Toluene 99.9% Minimum	C2-9-005 (3634)	Ethyl Acetate 99.9% Minimum Et	C2-1-005 (3059)	Hexane (n-Hexane) 98.5% Minim	C2-9-006 (3631)
Tridecane (n-Tridecane)	C2-7-002 (3360)	Sulfuric Acid Reagent Grade H2S	C2-7-005 (3357)	Extraction Thimbles 43 x123 mm	(1577)

Preparation Steps

Step:	Extraction	Step:	Acid Clean	Step:	Silica Gel Clean	Step:	Final Volume
Started:	9/4/08 15:00	Started:	9/8/08 09:00	Started:	9/8/08 15:00	Started:	9/9/08 08:00
Finished:	9/4/08 18:00	Finished:	9/8/08 10:00	Finished:	9/8/08 18:00	Finished:	9/9/08 09:00
By:	AKODUR	By:	AKODUR	By:	AKODUR	By:	AKODUR

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

September 8, 2008

Ms. Sue Sylvester
Resource Laboratories,LLC
124 Heritage Avenue
Portsmouth NH 03801

SAMPLE DATA

Lab Sample ID:	62086-1
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	08/19/08
Lab Receipt Date:	08/27/08
TCLP Extraction Date:	08/25/08
Extraction Date:	08/25/08
Analysis Date:	09/04/08

CLIENT SAMPLE ID

Project Name:	
Project Number:	15079
Client Sample ID:	15079-01

TCLP CHLORINATED HERBICIDE RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	Regulatory Limit µg/L	Matrix Spike Percent Recovery
2,4-D	10	U	10,000	56%
2,4,5-TP (Silvex)	10	U	1,000	84%

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid 105 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: TCLP sample extraction was performed according to Test Methods for Evaluating Solid Waste, SW-846 Method 1311. TCLP extract analysis was conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS: **TCLP extraction was performed by Resource Laboratories, LLC on 08/25/08.**

Authorized signature

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
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Ms. Sue Sylvester
Resource Laboratories,LLC
124 Heritage Avenue
Portsmouth NH 03801

September 8, 2008

SAMPLE DATA

Lab Sample ID:	62086-2
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	08/20/08
Lab Receipt Date:	08/27/08
TCLP Extraction Date:	08/25/08
Extraction Date:	08/29/08
Analysis Date:	09/04/08

CLIENT SAMPLE ID

Project Name:	
Project Number:	15079
Client Sample ID:	15079-04

TCLP CHLORINATED HERBICIDE RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	Regulatory Limit µg/L
2,4-D	10	U	10,000
2,4,5-TP (Silvex)	10	U	1,000

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid 94 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: TCLP sample extraction was performed according to Test Methods for Evaluating Solid Waste, SW-846 Method 1311. TCLP extract analysis was conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS: **TCLP extraction was performed by Resource Laboratories, LLC on 08/25/08.**

Authorized signature

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800-929-9906

September 8, 2008

Ms. Sue Sylvester
Resource Laboratories,LLC
124 Heritage Avenue
Portsmouth NH 03801

CLIENT SAMPLE ID

Project Name:	
Project Number:	15079
Client Sample ID:	15079-07

SAMPLE DATA

Lab Sample ID:	62086-3
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	08/20/08
Lab Receipt Date:	08/27/08
TCLP Extraction Date:	08/25/08
Extraction Date:	08/29/08
Analysis Date:	09/05/08

TCLP CHLORINATED HERBICIDE RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	Regulatory Limit µg/L
2,4-D	10	U	10,000
2,4,5-TP (Silvex)	10	U	1,000

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid 81 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: TCLP sample extraction was performed according to Test Methods for Evaluating Solid Waste, SW-846 Method 1311. TCLP extract analysis was conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS: **TCLP extraction was performed by Resource Laboratories, LLC on 08/25/08.**

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September 8, 2008

Ms. Sue Sylvester
Resource Laboratories,LLC
124 Heritage Avenue
Portsmouth NH 03801

SAMPLE DATA

Lab Sample ID:	62086-4
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	08/20/08
Lab Receipt Date:	08/27/08
TCLP Extraction Date:	08/25/08
Extraction Date:	08/29/08
Analysis Date:	09/05/08

CLIENT SAMPLE ID

Project Name:	
Project Number:	15079
Client Sample ID:	15079-09

TCLP CHLORINATED HERBICIDE RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	Regulatory Limit µg/L
2,4-D	10	U	10,000
2,4,5-TP (Silvex)	10	U	1,000

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid 92 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: TCLP sample extraction was performed according to Test Methods for Evaluating Solid Waste, SW-846 Method 1311. TCLP extract analysis was conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS: **TCLP extraction was performed by Resource Laboratories, LLC on 08/25/08.**

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September 8, 2008

Ms. Sue Sylvester
Resource Laboratories,LLC
124 Heritage Avenue
Portsmouth NH 03801

CLIENT SAMPLE ID

Project Name:	
Project Number:	15079
Client Sample ID:	15079-10

SAMPLE DATA

Lab Sample ID:	62086-5
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	08/20/08
Lab Receipt Date:	08/27/08
TCLP Extraction Date:	08/25/08
Extraction Date:	08/27/08
Analysis Date:	09/05/08

TCLP CHLORINATED HERBICIDE RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	Regulatory Limit µg/L
2,4-D	10	U	10,000
2,4,5-TP (Silvex)	10	U	1,000

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid 89 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: TCLP sample extraction was performed according to Test Methods for Evaluating Solid Waste, SW-846 Method 1311. TCLP extract analysis was conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS: **TCLP extraction was performed by Resource Laboratories, LLC on 08/25/08.**

Authorized signature

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

September 8, 2008

Ms. Sue Sylvester
Resource Laboratories,LLC
124 Heritage Avenue
Portsmouth NH 03801

SAMPLE DATA

Lab Sample ID:	62086-6
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	08/20/08
Lab Receipt Date:	08/27/08
TCLP Extraction Date:	08/25/08
Extraction Date:	08/27/08
Analysis Date:	09/05/08

CLIENT SAMPLE ID

Project Name:	
Project Number:	15079
Client Sample ID:	15079-11

TCLP CHLORINATED HERBICIDE RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L	Regulatory Limit µg/L
2,4-D	10	U	10,000
2,4,5-TP (Silvex)	10	U	1,000

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid 86 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: TCLP sample extraction was performed according to Test Methods for Evaluating Solid Waste, SW-846 Method 1311. TCLP extract analysis was conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS: **TCLP extraction was performed by Resource Laboratories, LLC on 08/25/08.**

Authorized signature

RL Resource Laboratories, LLC
124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

15079

Company Name: Appledore Engineering, Inc.
Phone #: 603-433-8818
FAX #: 603-433-8988

Company Address: 15 Rye Street, Suite 305

Report To: Appledore Eng. Inc.

Project Info: NH MA ME VT
PNSY Dredging Project

Invoice To: Appledore Eng. Inc.

Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# Containers	Matrix: Water	Matrix: Solid	Matrix: Other (Sediment)	Preservation: HCl	HNO₃	H₂SO₄	NaOH	MeOH	Other (Specify)	Sampling Date	Sampling Time	Sampler*
15079-01	Dry Dock1 S-1	9			X							8-19-08	1155	
↓	↓ S-1	2			X							↓	↓	
-02	S-2	9	DB		X							↓	1235	
↓	~~S-2~~	~~4~~			X							↓	↓	
-03	S-3	9	DB		X							↓	1355	
	~~S-3~~	~~4~~			X							↓	↓	
	DB [redacted]													

ANALYSIS REQUEST

- ☐ VOC 8260 ☒ VOC 8260 NHDES ☐ VOC 8260 MADEP — X (S-1, S-2, S-3)
- ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only
- ☐ VPH MADEP ☐ MEGRO ☐ GRO
- ☐ VOC 524.2 ☐ VOC 524.2 NH List
- ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
- ☒ 8270PAH ☐ 8270ABN ☐ 625 — X (S-1, S-2, S-3)
- ☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB — X (S-1, S-2, S-3)
- ☐ O&G 1664 ☐ Mineral O&G SM5520F
- ☒ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☒ CN — X (S-1, S-2, S-3)
- ☐ TSS ☐ TDS ☐ TS
- ~~☒ RCRA Metals ☐ Priority Pollutant Metals~~ ☐ TAL Metals — X (S-1, 2 containers); S-1, S-2, S-3 struck out (SS)
- ☒ Total Metals-list ☐ Dissolved Metals-list — X (S-1, S-2, S-3)
- ~~☒ Ammonia ☐ COD ☐ TKN~~ Herbicides SS — struck out (S-1, S-2, S-3)
- ☒ T-Phosphorus ☐ Phenol — X (S-1, S-2, S-3)
- ☐ Cyanide ☒ Sulfide — X (S-1, 2 containers); S-1, S-2, S-3 struck out (SS)
- ☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☒ Chloride — X (S-1, S-2, S-3)
- ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☒ Ignitibility/FP — X (S-1, S-2, S-3)
- ☒ TCLP Metals ☒ TCLP VOC ☒ TCLP SVOC — X (S-1, 2 containers); S-2, S-3 struck out (DB)
- ☒ TCLP Pesticide ☒ TCLP Herbicides (subcontract) — X (S-1, 2 containers); S-2, S-3 struck out (DB)
- ☐ Standard Drinking Water Test ☐ Bacteria P/A.
- Dioxins 8290 ☒ Cr VI — X (S-1, S-2, S-3)
- Grain Size w/ Hydrometer — X (S-1, S-2, S-3)
- Total Organic Carbon (+ Dup) — X (S-1, S-2, S-3)
- Grab (G) or Composite (C)

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed

* See www.reslabs.com for sample acceptance policy.

E-Mail Address
Quote #
PO #

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE ave coolers 5 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: James Bayek	8/20/08	1510 (DB)	Received by: [signature]	8/20/08	1510
Relinquished by: [signature]	8/20/08	1547	Received by:		
Relinquished by:			Received by Laboratory: [signature] Way Bill #:	8/20/08	1547

RL Resource Laboratories, LLC
124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

15079

Company Name: Appledore Engineering, Inc. Phone # 603-433-8818 FAX # 603-433-8988

Company Address: 15 Rye St., Suite 305

Report To: Appledore Eng, Inc

Project Info: NH MA ME VT — PNSY Dredging Project

Invoice To: Appledore Eng., Inc

Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: ~~OTHER~~ Sediment	Preservation: HCl	Preservation: HNO_3	Preservation: H_2SO_4	Preservation: NaOH	Preservation: MeOH	Preservation: OTHER (Specify)	Sampling: DATE	Sampling: TIME	Sampling: SAMPLER*
-04	DryDock S-4	9			X							8-20-08	0730	
↓	3 S-4	2			X							↓	0730	
-05	S-5	9			X								0815	
-06	↓ S-6	9			X							↓	0835	

ANALYSIS REQUEST

Lab Sample ID	☐ VOC 8260 ☒ VOC 8260 NHDES ☐ VOC 8260 MADEP	☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only	☐ VPH MADEP ☐ MEGRO ☐ GRO	☐ VOC 524.2 ☐ VOC 524.2 NH List	☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint	☒ 8270PAH ☐ 8270ABN ☐ 625	☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB	☐ O&G 1664 ☐ Mineral O&G SM5520F	☒ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☒ CN	☐ TSS ☐ TDS ☐ TS	~~☒ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals~~	☒ Total Metals-list ☐ Dissolved Metals-list	~~☐ Ammonia ☐ COD ☐ TKN~~ Herbicides	☒ T-Phosphorus ☐ Phenol	☐ Cyanide ☒ Sulfide	☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☒ Chloride	☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☒ Ignitibility/FP	☒ TCLP Metals ☒ TCLP VOC ☒ TCLP SVOC	☒ TCLP Pesticide ☒ TCLP Herbicides (subcontract)	☐ Standard Drinking Water Test ☐ Bacteria P/A	Dioxins 8290 ☒ CrVI	Grain Size w/Hydrometer	Total Organic Carbon (+Dup)
-04	X					X	X		X		X	X	X	X	X	X	X				X	X	X
↓											X				X			X	X				
-05	X					X	X		X		X	X	X	X	X	X	X				X	X	X
-06	X					X	X		X		X	X	X	X	X	X	X				X	X	X

Grab (G) or Composite (C)

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed

* See www.reslabs.com for sample acceptance policy.

E-Mail Address
Quote #
PO #

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE all Coolers 5 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: James Bayek	8/20/08	1510	Received by: [signature]	8/20/08	1510
Relinquished by: [signature]	8/20/08	1547	Received by: [signature]	8/20/08	1547
Relinquished by:			Received by Laboratory: Way Bill#:		

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 1507?

Company Name: Appledore Engineering, Inc.
Phone #: 603-433-8818
FAX #: 603-433-8988
Company Address: 15 Rye St., Suite 305
Report To: Appledore Eng, Inc.
Project Info: NH MA ME VT — PNSY Dredging Project
Invoice To: ↓
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER (SEDIMENT)	Preservation: HCl	Preservation: HNO_3	Preservation: H_2SO_4	Preservation: NaOH	Preservation: MeOH	Preservation: OTHER (Specify)	Sampling: DATE	Sampling: TIME	SAMPLER*
-07	Dry Dock 2 S-7	9			X							8-20-08	1300	
d	Top S-7	2											↓	
-08	S-8	9											1215	
-09	S-9	9											1120	
d	S-9	2											1120	
-10	S-10	9											1040	
d	Top S-10	2											1040	
-11	S-11	9											1000	
d	Bot S-11	2											1000	
-12	S-12	9			↓							↓	1350	
-13	Trip Blank	1			X					X		—	—	

ANALYSIS REQUEST

Lab Sample ID	☐ VOC 8260 ☒ VOC 8260 NHDES ☐ VOC 8260 MADEP	☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only	☐ VPH MADEP ☐ MEGRO ☐ GRO	☐ VOC 524.2 ☐ VOC 524.2 NH List	☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint	☒ 8270PAH ☐ 8270ABN ☐ 625	☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB	☐ O&G 1664 ☐ Mineral O&G SM5520F	☒ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☒ Cyanide SS	☐ TSS ☐ TDS ☐ TS	~~☒ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals~~ SS	☒ Total Metals-list ☐ Dissolved Metals-list	~~☑ Ammonia ☐ COD ☐ TKN~~ Herbicides SS	☒ T-Phosphorus ☐ Phenol	☐ Cyanide ☒ Sulfide	☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☒ Chloride	☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☒ Ignitibility/FP	☒ TCLP Metals ☒ TCLP VOC ☒ TCLP SVOC	☒ TCLP Pesticide ☒ TCLP Herbicides (subcontract)	☐ Standard Drinking Water Test ☐ Bacteria P/A	Dioxins, CrVI - subcontract SS	Grain Size w/ Hydrometer	Total Organic Carbon (+Dup)
-07	X					X	X		X		X	X	X	X	X	X	X				X	X	X
d											X				X			X	X				
-08	X					X	X		X		X	X	X	X	X	X	X				X	X	X
-09	X					X	X		X		X	X	X	X	X	X	X				X	X	X
d											X				X			X	X				
-10	X					X	X		X		X	X	X	X	X	X	X				X	X	X
d											X				X			X	X				
-11	X					X	X		X		X	X	X	X	X	X	X				X	X	X
d											X				X			X	X				
-12	X					X	X		X		X	X	X	X	X	X	X				X	X	X
-13	X @8/20/08																						

Grab (G) or Composite (C)

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☐
Date Needed ______

* See www.reslabs.com for sample acceptance policy.

E-Mail Address ______
Quote # ______
PO # ______

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify) ______
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE all coolers 5 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: James Bayek	8/20/08	1510	Received by: [signature]	8/20/08	1510
Relinquished by: [signature]	8/20/08	1547	Received by: [signature]	8/20/08	1547
Relinquished by:			Received by Laboratory:		
			Way Bill#:		

ID	QA Type	PARAMETER	LAB ID	MATRIX	RESULT	QUAL	QLIMIT	UNITS	SAMPLED	PREPARED	ANALYZED	METHOD
Dry Dock 1 S-1		TCLP gamma-BHC (Lindane)	15079-01	TCLP Extract	< 5		5	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 1 S-1		TCLP Heptachlor	15079-01	TCLP Extract	< 5		5	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 1 S-1		TCLP Endrin	15079-01	TCLP Extract	< 5		5	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 1 S-1		TCLP Methoxychlor	15079-01	TCLP Extract	< 5		5	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 1 S-1		TCLP alpha-Chlordane	15079-01	TCLP Extract	< 5		5	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 1 S-1		TCLP gamma-Chlordane	15079-01	TCLP Extract	< 5		5	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 1 S-1		TCLP Toxaphene	15079-01	TCLP Extract	< 20		20	ug/L	8/19/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP gamma-BHC (Lindane)	15079-04	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP Heptachlor	15079-04	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP Endrin	15079-04	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP Methoxychlor	15079-04	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP alpha-Chlordane	15079-04	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP gamma-Chlordane	15079-04	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 3 S-4		TCLP Toxaphene	15079-04	TCLP Extract	< 20		20	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP gamma-BHC (Lindane)	15079-07	TCLP Extract	< 6		6	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP Heptachlor	15079-07	TCLP Extract	< 6		6	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP Endrin	15079-07	TCLP Extract	< 6		6	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP Methoxychlor	15079-07	TCLP Extract	< 6		6	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP alpha-Chlordane	15079-07	TCLP Extract	< 6		6	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP gamma-Chlordane	15079-07	TCLP Extract	< 6		6	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-7		TCLP Toxaphene	15079-07	TCLP Extract	< 20		20	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP gamma-BHC (Lindane)	15079-09	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP Heptachlor	15079-09	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP Endrin	15079-09	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP Methoxychlor	15079-09	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP alpha-Chlordane	15079-09	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP gamma-Chlordane	15079-09	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 MID S-9		TCLP Toxaphene	15079-09	TCLP Extract	< 20		20	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP gamma-BHC (Lindane)	15079-10	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP Heptachlor	15079-10	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP Endrin	15079-10	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP Methoxychlor	15079-10	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP alpha-Chlordane	15079-10	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP gamma-Chlordane	15079-10	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 TOP S-10		TCLP Toxaphene	15079-10	TCLP Extract	< 20		20	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP gamma-BHC (Lindane)	15079-11	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP Heptachlor	15079-11	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP Endrin	15079-11	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP Methoxychlor	15079-11	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP alpha-Chlordane	15079-11	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP gamma-Chlordane	15079-11	TCLP Extract	< 5		5	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B
Dry Dock 2 BOT S-11		TCLP Toxaphene	15079-11	TCLP Extract	< 20		20	ug/L	8/20/08	8/27/08	9/17/08	SW3510C8081B