Brix Maritime Company Response to EPA's 104(e) Information Request

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File
990056-01

February 25, 2004

Mr. John Edwards
Anchor Environmental, Inc.
6650 SW Redwood Lane, Suite 110
Portland, Oregon 97224

RE: Remedial Investigation Work Plan
Brix Maritime Company
Portland, Oregon
ECSI No. 2364

Dear John:

The Oregon Department of Environmental Quality (DEQ) has reviewed the "Remedial Investigation Work Plan, Brix Maritime Company, Portland, Oregon" dated November 26, 2003 (the RI Work Plan). The RI Work Plan was prepared by Anchor Environmental, Inc. (Anchor) on behalf of Brix Maritime Company (BRIX) and submitted to DEQ consistent with the "Voluntary Agreement for Remedial Investigation, Source Control Measures, and Feasibility Study" (DEQ No. LQDVC-NWR-02-03 [the Agreement]). The Agreement became effective May 8, 2002.

According to Anchor, the focus of the remedial investigation (RI) of the BRIX facility is to assess the "need for source control measures to protect the Willamette River". As such, the RI Work Plan proposes a technical approach to characterize potential pathways to the river and does not include tasks to further evaluate potential human health pathways involving workers at the site.

DEQ's comments regarding the RI Work Plan are provided below and have been prepared to identify items that need additional attention, and communicate DEQ's expectations regarding the technical content of certain items included in the RI Work Plan.

COMMENTS TO SECTION 2, BACKGROUND

Section 2.2 (Site Features), page 3. In Anchor's "Supplemental Preliminary Assessment Report" dated October 2000, mention is made of two "pad-mounted transformers" located at the facility (see Section 3.2, Transformers). Anchor notes that, "The transformer located south of the office building is not labeled and is therefore assumed to contain PCBs."

Please provide a description of this transformer. Surface soil around the transformer pad should be sampled for polychlorinated biphenyls and diesel-range and oil-range petroleum hydrocarbons to assess the potential for releases to have occurred from the transformer.

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COMMENTS TO SECTION 3, REMEDIAL INVESTIGATION STATUS

Section 3.1 (Soil), page 7. This section of the RI Work Plan suggests that soil characterization work previously completed at the site is adequate to address the objectives of the Agreement. DEQ has requested on two previous occasions[1] that BRIX review available soil information to determine if adequate data for gasoline-range, diesel-range, and oil-range petroleum hydrocarbons, and for polycyclic aromatic hydrocarbons (PAHs) and volatile organic compounds (VOCs), have been collected and are representative of impacts to soil. To date the requested evaluation of soil data has not been conducted.

Based on our review of the data, DEQ has identified the following potential analytical data gaps for soil.

- In January 1993 BRIX excavated soil impacted by "lubricating oil" from a leaking transfer line. Soil samples collected from the margins of the soil removal area were analyzed for total petroleum hydrocarbons using USEPA Method 418.1 Modified (418.1M). The concentrations of petroleum hydrocarbons detected using 418.1M exceeded 5,000 milligrams per kilogram (mg/kg or parts per million) in five of nine samples, including a sample obtained from 12 feet below ground surface (bgs) near the source of the release (39,700 mg/kg).

  The current method required to assess the potential impacts to soil by diesel-range petroleum hydrocarbons and oil-range petroleum hydrocarbons is the NWTPH-Dx method. Follow-up testing for contaminants of concern (COC) associated with petroleum hydrocarbons may be required based on the results of analyzing samples using this method. Risk-based decisions involving a petroleum contaminated site[2] depend on this suite of analyses, however none of the samples collected from the margins of the soil removal area in January 1993 were analyzed using current testing methodology.

- During the soil removal work conducted in 1993, "oil" was observed seeping from the sidewalls of the excavation. Measurable thicknesses of oil have been noted in monitoring well MW-3 on numerous occasions since its installation. In DEQ's May 12, 2003 comments letter to the "Progress Report – First Quarter 2003" dated April 15, 2003 (progress report), we indicated that the work plan should include characterization of non-aqueous phase liquids (i.e., "oil") in the subsurface. DEQ considers the occurrence, extent, and movement of "oil" in the subsurface to be considerations for the source control screening assessment.

- In May 2001 additional sampling work was conducted within the margins of the soil removal area. Borings B-27 and B-28 were completed at this time "...to better define the vertical

[1] See DEQ's comment letters dated November 30, 2001 (Attachment A, General Comments, Item B, second bullet) and June 11, 2002 (Comment No. 9 under "Work Plan [Addendum No. 1] for Groundwater Investigation".
[2] See DEQ's "Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites", dated September 22, 2003.

extent of potential petroleum compounds in soil and to collect 'worst case' samples for risk parameter analysis."

One sample from B-27 was collected at a depth of 3 feet bgs. Diesel-range petroleum hydrocarbons (468 mg/kg) and oil-range petroleum hydrocarbons (6,010 mg/kg) were detected in the sample. Follow-up analysis of the sample did not detect petroleum hydrocarbon COC above the method reporting limit (MRL).

Three soil samples were collected at depths of 6 feet, 12 feet, and 23 feet bgs in Boring B-28 and submitted for analysis. The detected concentrations of diesel-range petroleum hydrocarbons ranged from 560 mg/kg (6 feet bgs) to 2,340 mg/kg (12 feet bgs). The range of detected oil-range petroleum hydrocarbon concentrations was 8,330 mg/kg (6 feet bgs) to 22,200 mg/kg (12 feet bgs)[3]. Although the soil sample collected from 12 feet bgs exhibited the highest detected concentrations, the sample obtained from 6 feet bgs was submitted for follow-up analysis of COC. It should be noted that data for the samples collected from Boring B-28 at 12 feet and 23 feet bgs are not included in Table 2 of the RI Work Plan.

In summary, if the concentration trend in Boring B-27 mimicked that observed in Boring B-28, concentrations of petroleum hydrocarbons could increase below 6 feet bgs. If this was the case then the sample with the highest detected concentration may not have been collected and/or submitted for analysis. At Boring B-28 the sample known to have the highest detected concentrations were not analyzed for COC and the objective of evaluating "worst case" was not met at this location (i.e., in the source area of the release).

- The results of soil sampling and analysis preformed in April 1993 indicated that a release of gasoline-range petroleum hydrocarbons occurred near the northwestern corner of the maintenance building. Soil samples collected form Boring B-7 had detected concentrations of gasoline-range petroleum hydrocarbons of 270 mg/kg (10.5 feet bgs), 2,000 mg/kg (15.5 feet bgs), and 13 mg/kg (20 feet bgs). In May 2001 additional borings (e.g., borings B-19, B-21, B-22) were advanced to further assess potential impacts in this portion of the site. The maximum concentration of gasoline-range petroleum hydrocarbons detected in these three borings was 1,370 mg/kg at Boring B-21 at a depth of 5 feet bgs. Follow-up analysis of this sample for the COC of gasoline detected numerous constituent chemicals, one of which exceeded risk-based human exposure screening criteria (benzene, 5.2 mg/kg).

  According to the "Pre-RI Assessment Work Plan" dated May 22, 2002, soil samples collected during the drilling and installation of monitoring wells MW-1 through MW-5 were to be analyzed for gasoline-range petroleum hydrocarbons and diesel-range and oil-range petroleum hydrocarbons. Monitoring well MW-1 was installed in the immediate vicinity of

[3] Note that the concentrations of diesel-range petroleum hydrocarbons and oil-range petroleum hydrocarbons detected in the soil collected obtained from 23 feet bgs at boring B-28 were also higher than those detected at 6 feet bgs.

borings B-7 and B-22 to assess potential impacts to groundwater in this portion of the site. Soil samples collected during the drilling of the MW-1 borehole were not analyzed for gasoline-range petroleum hydrocarbons. As mentioned in DEQ's May 12, 2003 comments letter regarding the "Progress Report – First Quarter 2003" dated April 15, 2003, values of gasoline-range petroleum hydrocarbons are included in a number of risk pathways.

Although not mentioned in the RI Work Plan, based on the information summarized above there is the potential for gasoline-range petroleum hydrocarbons to be present in soil beneath the maintenance building at concentrations in excess of 2,000 mg/kg. Given that samples with lower detected concentrations of gasoline-range petroleum hydrocarbons contained COC above risk-based criteria, DEQ anticipates future uplands work will include characterizing residual contamination by gasoline-range petroleum hydrocarbons and associated COC. This work should also include evaluating potential human exposure pathways in this portion of the site.

Section 3.2 (Groundwater), page 8. Anchor notes that groundwater seeps have been observed near the contact between the sand fill and underlying silt during times of low river levels. The locations of the observed groundwater seeps should be surveyed and shown on a representative map. If these seeps are interpreted to be downgradient of the known groundwater plume or contaminant source areas, representative samples should be collected and analyzed for contaminants of interest during quarterly groundwater monitoring events.

Section 3.3 (Storm Water), page 9. DEQ and Anchor met on September 5, 2003 to discuss the scope of the RI work plan. During this meeting, DEQ requested additional information be collected and presented in the work plan to allow us to determine if storm water sampling would be required. Specifically, DEQ requests the following information be provided:

- Descriptions of the catch basin design and particulate/oil adsorbent filters;
- Procedures and schedule for catch basin operations, maintenance, and cleanout;
- Observations made during visual inspection of the catch basins (e.g., are sediments present, description of sediments [grain size, color, sheen, odor, debris, etc]).

In addition, a summary of any best management practices implemented at the facility to protect storm water (e.g., lot sweeping; secondary containment; etc.) should be included in the work plan.

Section 3.6 (Beneficial Use), page 10. The RI Work Plan indicates that, "There are no beneficial uses of water with the locality of the facility, aside from the Willamette River." This section of the work plan disregards DEQ's comments to Anchor's September 28, 2001 report[4]. In DEQ's November 30, 2001 comments letter, BRIX was informed that groundwater discharge

[4] Anchor Environmental, Inc., 2001. "Sampling Results Report in Support of the Preliminary Assessment of the Brix Maritime Company Facility". A report prepared on behalf of Brix Maritime Company. September 28.

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(i.e., surface water recharge) to the Willamette River is considered a beneficial use of groundwater and should be recognized as such.

COMMENTS TO SECTION 4, INVESTIGATION PLAN

Section 4.1 (Ground Water), page 11. DEQ concurs with Anchor's proposal to continue the data collection tasks listed in this RI Work Plan section. DEQ would add that, prior to discontinuing groundwater sampling efforts, we expect BRIX to compile and interpret the available geologic, hydrologic, hydrogeologic, and groundwater chemistry data available for the site. The purpose of the data compilation and review is to:

- Assess the hydrogeologic conceptual site model (HCSM) proposed in May 2002 in the context of currently available information (i.e., does data support perched groundwater interpretation?).
- Evaluate the relationship between:
  - Groundwater elevations in monitoring wells and the Willamette River;
  - Groundwater elevations and the elevation of the top of the fine-grained unit;
  - Seasonal groundwater fluctuations and detected concentrations of petroleum hydrocarbons, COC, and "oil" thickness.
- Identify potential ongoing sources of groundwater contamination.
- Present an ecological conceptual site model and the potential pathways for site-related contamination to impact the Willamette River.
- Discuss potential data gaps for the BRIX facility.

The purpose of reviewing the site information collected to date is to determine whether available data sufficiently characterize impacted soil and groundwater, and potential impacts to the Willamette River, to support the source control screening assessment.

To meet the purpose and facilitate our review of the information, DEQ requests that BRIX provide, at a minimum, the following items:

- Geologic cross-sections that graphically depict Anchor's interpretations of the subsurface geology along two transects perpendicular to A-A' (see Figure 6 of the RI Work Plan);
- A structure contour map of the top of the fine-grained unit with the locations of the monitoring wells shown (previously requested by DEQ in our letter dated November 30, 2001);
- An isopach map of the fine-grained unit;
- Monitoring well hydrographs and the elevation of the top of the fine-grained unit;
- Representative equipotential maps for the "dredge fill sand" water-bearing unit, including the locations and elevations of observed groundwater seeps;
- Hydrographs of groundwater elevations and the Willamette River;
- Hydrographs and COC time-concentration plots for monitoring wells;

- Comparison of seasonal groundwater level fluctuations to "oil" thickness at monitoring well MW-3;
- Isoconcentration contour maps for selected COC detected in shallow groundwater;
- Conceptual site exposure model prepared using DEQ's risk-based decision making guidance for USTs (see Figure 2-2, page 19 of the guidance), including consideration of ecological receptors (previously requested by DEQ in our letter dated November 30, 2001).

DEQ considers it essential that the compilation, review, and interpretation of site data be performed before the source control screening assessment is initiated so that disagreements regarding the adequacy of the data, duplication and/or repetition of efforts, and inefficient use of BRIX's resources are minimized.

Section 4.3 (Risk Assessment), page 12. At this time, DEQ does not agree with the statement "...it is certain that the scoping assessment will conclude that there are not complete pathways...on this site." While much of the site is devoid of suitable, high quality habitat because of hard ground (asphalt, concrete, structures), there are some areas that may provide habitat to terrestrial receptors (birds and small mammals). In addition, the City of Portland's Greenway Overlay may affect future development along the riverbank. The risk assessment should assess whether this overlay may affect future exposure scenarios.

The Agreement states that the upland investigation "shall exclude that portion of the facility that is below the mean high-water mark of the Willamette River." For Portland Harbor upland projects, DEQ has initially defined the high-water mark as 8 feet CRD (9.55 feet NGVD). This value was selected for consistency and to minimize gaps in river bank evaluations. Please be aware that this definition will be combined with site-specific discretionary modifications and/or to upland source control evaluations. Sampling may be required to evaluate potential risks to upland ecological receptors from contaminant exposure during their activities in exposed riverbank areas.

A map should be prepared that depicts both the high-water mark and the shoreline during low water conditions. Additionally, a written description of the beach area should be prepared.

Section 4.4 (Source Control Screening Assessment), page 12. See the above comment to Section 4.1 (Ground Water), page 11. The site information review should form the basis for the source control screening assessment.

COMMENTS TO SECTION 5, MONITORING AND REPORTING SCHEDULE

Section 5.1 (Monitoring Schedule), page 13. As discussed in DEQ's comment to Section 4.1 (Groundwater), page 11, groundwater data collection should continue until available site information has been compiled, reviewed, and interpreted, and agreement has been reached on whether the data supports the source control screening assessment.

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COMMENTS TO TABLES AND FIGURES

Table 2. The data for gasoline-range, diesel-range, and oil-range petroleum hydrocarbons for soil samples collected at depths of 12 feet and 23 feet bgs during the drilling of Boring B-28 are not provided. The data should be added and the table reviewed for completeness.

Table 3. On page 8 in Section 3.2 of the work plan, Anchor reports that, "...some of the wells dry up seasonally, preventing sampling." Table 3 compiles water level measurements made at each monitoring, but does not indicate whether an installation was considered dry for purposes of collecting groundwater elevation data and/or sampling. Notes should be added to the "Comments" column of the table to communicate these observations.

Given the interpretations of the site geology and hydrogeology, during seasonal declines in the water table there is the potential for groundwater to be retained in the monitoring well end-cap, or trapped in the borehole due to the fine-grained nature of the material surrounding the sand pack. In both cases misleading groundwater elevation data could be obtained. DEQ requests that Table 3 and future groundwater elevation data be reviewed considering both scenarios, and that comments regarding the representativeness of the data be provided.

Figure 4. The locations of the monitoring wells in relationship to the soil borings and soil removal area are unclear. Please add the well locations to this figure or a similar figure.

DEQ requests that the comments provided in this letter be incorporated into the RI Work Plan and that the revised version be submitted for review.

If you have any questions, please don't hesitate to call me at (503) 229-5543 or email me at bayuk.dana@deq.state.or.us.

Sincerely,

Mr. Dana Bayuk, R.G.
Project Manager
Voluntary Cleanup Program
Lower Willamette Section

Cc: Kim Johannessen, Johannessen & Associates
David Templeton, Anchor Environmental, Inc., Seattle
Frank Williamson, Foss
Rod Struck, DEQ – VCP/LWS
ECSI File No. 2364

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PROGRESS REPORT – FIRST QUARTER 2004

BRIX MARITIME COMPANY
PORTLAND, OREGON

Prepared for

Brix Maritime Company

Prepared by

Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224

April 15, 2004

ANCHOR ENVIRONMENTAL L.L.C.

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PROGRESS REPORT – FIRST QUARTER 2004

BRIX MARITIME COMPANY
PORTLAND, OREGON

Prepared for

Brix Maritime Company

Prepared by

Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224

April 15, 2004

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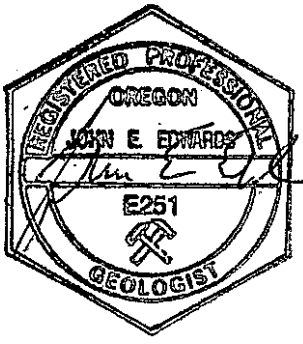
Progress Report – First Quarter 2004

Brix Maritime Company

Portland, Oregon

The material and data in this report were prepared under the supervision and direction of the undersigned.

John J. Renda, R.G.
Anchor Environmental, L.L.C.



John Edwards, R.G. C.E.G.
Anchor Environmental, L.L.C.

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1 INTRODUCTION

This Progress Report was prepared in accordance with Section II(H) of the Oregon Department of Environmental Quality (DEQ) Voluntary Agreement for Remedial Investigation and Source Control Measures (ECSI 2464 No. LQDVC-NWR-02-03). This report covers the work completed during the quarter ending March 31, 2004 for the Brix Maritime site in Portland, Oregon (Figure 1) and is divided into the following subject areas:

- Actions Taken During the First Quarter
- Actions Scheduled for the Second Quarter
- Data Generated in the First Quarter
- Summaries of Problems and Actions Taken To Resolve Problems

2 ACTIONS TAKEN DURING THE FIRST QUARTER

- Anchor submitted the Fourth Quarter 2004 progress report to DEQ on January 15, 2004.
- Water levels were measured in monitoring wells MW-1 through MW-7 and at the river staff gauge on January 30 and March 4, 2004.
- Monitoring wells MW-1 through MW-7 were sampled on January 30, 2004

3 ACTIONS SCHEDULED FOR THE SECOND QUARTER

- Monitoring wells MW-1 through MW-7 will be sampled in April 2004.
- Anchor will prepare and submit the First Quarter Progress Report (this report) to DEQ.

4 DATA GENERATED IN THE FIRST QUARTER

4.1 Hydrology Data and Potentiometric Surface Map

Water levels were measured in all onsite monitoring wells and at the river staff gauge on January 30 and March 4, 2004. Water levels and groundwater elevations based on the 1988 North American Vertical Datum (NAVD 88) are presented in Table 1.

A groundwater potentiometric surface map, using the March 4, 2004 measurements, is shown on Figure 2. Consistent with all past monitoring events, the contour pattern indicates that shallow groundwater flows west to east from the upland portion of the site to the river.

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During the monthly water level measurements, the river bank was examined for petroleum hydrocarbon seeps or sheens. No petroleum hydrocarbon seeps or sheens were observed.

4.2 Groundwater Sampling

Monitoring wells MW-1 through MW-7 were sampled on January 30, 2004. Field sampling procedures, field parameters, field sampling data sheets, and chain of custody documentation are in Appendix A.

4.3 Groundwater Analytical Testing

Groundwater samples were collected from monitoring wells MW-1 through MW-7 on January 30, 2004. The groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by NWTPH-Gx; TPH as diesel and heavy oils by NWTPH-Dx; Polycyclic Aromatic Hydrocarbons (PAHs) by U.S. Environmental Protection Agency (USEPA) Method 8270-SIM; Volatile Organic Compounds (VOCs) by USEPA Method 8260+MTBE; and both total and dissolved lead by USEPA method 200.8. The analytical results are presented in Tables 2 through 5. A copy of the laboratory report is in Appendix B.

4.4 Data Validation

Review of the sampling and laboratory records showed no apparent discrepancies between samples collected in the field and those analyzed in the laboratory. The data are judged to be acceptable, as qualified, for their intended use. The data validation review of the laboratory records is summarized in Appendix C.

5 SUMMARIES OF PROBLEMS AND ACTIONS TAKEN TO RESOLVE PROBLEMS

No problems were encountered.

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6 RECOMMENDATIONS

Anchor has been monitoring water levels in monitoring wells monthly since installation of each well. Anchor has also conducted a monthly shoreline reconnaissance to look for petroleum

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hydrocarbon seeps or sheens. The monitoring wells have been gauged monthly to check for floating product.

The groundwater flow direction toward the river has been consistent on a month to month basis, petroleum hydrocarbon seeps or sheens have not been detected along the shoreline during any of the monthly observations, and free product has only been detected in monitoring well MW-3 during low groundwater elevation conditions. Anchor recommends that the monthly water level measurements, free product monitoring, and river bank observations be reduced to quarterly, to coincide with the quarterly monitoring events.

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TABLES

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Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C. | Site: Brix Maritime | Project No. : 990056-01

Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
Monitoring Wells						
MW-1	41.81	34.7-19.7	02/28/03	18.89	22.92	
MW-1	41.81	34.7-19.7	03/31/03	19.43	22.38	
MW-1	41.81	34.7-19.7	04/29/03	19.69	22.12	
MW-1	41.81	34.7-19.7	05/22/03	20.22	21.59	
MW-1	41.81	34.7-19.7	07/07/03	21.08	20.73	
MW-1	41.81	34.7-19.7	07/30/03	21.13	20.68	
MW-1	41.81	34.7-19.7	08/28/03	21.24	20.57	
MW-1	41.81	34.7-19.7	09/30/03	21.15	20.66	
MW-1	41.81	34.7-19.7	10/16/03	21.10	20.71	
MW-1	41.81	34.7-19.7	12/03/03	21.06	20.75	
MW-1	41.81	34.7-19.7	12/26/03	20.46	21.35	
MW-1	41.81	34.7-19.7	01/30/04	19.01	22.80	
MW-1	41.81	34.7-19.7	03/04/04	19.60	22.21	
MW-2	42.13	32.5-17.5	02/28/03	19.88	22.25	
MW-2	42.13	32.5-17.5	03/31/03	20.36	21.77	
MW-2	42.13	32.5-17.5	04/29/03	20.64	21.49	
MW-2	42.13	32.5-17.5	05/22/03	21.06	21.07	
MW-2	42.13	32.5-17.5	07/07/03	22.17	19.96	
MW-2	42.13	32.5-17.5	07/30/03	22.50	19.63	
MW-2	42.13	32.5-17.5	08/28/03	22.84	19.29	
MW-2	42.13	32.5-17.5	09/30/03	23.07	19.06	
MW-2	42.13	32.5-17.5	10/16/03	23.06	19.07	
MW-2	42.13	32.5-17.5	12/03/03	22.54	19.59	
MW-2	42.13	32.5-17.5	12/26/03	21.58	20.55	
MW-2	42.13	32.5-17.5	01/30/04	20.05	22.08	
MW-2	42.13	32.5-17.5	03/04/04	20.57	21.56	
MW-3	41.93	32.6-17.6	07/29/02	22.91	19.02	
MW-3	41.93	32.6-17.6	08/22/02	23.50	18.43	Oil detected in well, thickness estimated at 0.02 foot
MW-3	41.93	32.6-17.6	09/30/02	23.37	18.56	Oil detected in well, thickness estimated at 0.02 foot
MW-3	41.93	32.6-17.6	10/30/02	23.68	18.25	DTP = 23.49 (0.19 foot thick)
MW-3	41.93	32.6-17.6	11/27/02	23.30	18.63	DTP = 23.16 (0.14 foot thick)
MW-3	41.93	32.6-17.6	12/30/02	21.99	19.94	Oil noted on probe, product too thin to measure with interface probe
MW-3	41.93	32.6-17.6	02/28/03	19.75	22.18	Oil noted on probe, product too thin to measure with interface probe
MW-3	41.93	32.6-17.6	03/31/03	20.24	21.69	No oil noted on probe
MW-3	41.93	32.6-17.6	04/29/03	20.50	21.43	No oil noted on probe
MW-3	41.93	32.6-17.6	05/22/03	20.94	20.99	No oil noted on probe
MW-3	41.93	32.6-17.6	07/07/03	22.21	19.72	No oil noted on probe
MW-3	41.93	32.6-17.6	07/30/03	22.62	19.31	No oil noted on probe
MW-3	41.93	32.6-17.6	08/28/03	22.95	18.98	Oil noted on probe, product too thin to measure with interface probe
MW-3	41.93	32.6-17.6	09/30/03	23.15	18.78	DTP = 23.04 (0.11 foot thick)
MW-3	41.93	32.6-17.6	10/16/03	22.40	19.53	No oil noted on probe
MW-3	41.93	32.6-17.6	12/03/03	22.21	19.72	Sheen, product too thin to measure
MW-3	41.93	32.6-17.6	12/26/03	21.44	20.49	No oil noted on probe
MW-3	41.93	32.6-17.6	01/30/04	19.80	22.13	No oil noted on probe
MW-3	41.93	32.6-17.6	03/04/04	20.41	21.52	No oil noted on probe
MW-4	23.55	19.1-9.1	07/29/02	11.62	11.93	
MW-4	23.55	19.1-9.1	08/22/02	11.77	11.78	
MW-4	23.55	19.1-9.1	09/30/02	11.94	11.61	
MW-4	23.55	19.1-9.1	10/30/02	12.06	11.49	
MW-4	23.55	19.1-9.1	11/27/02	11.85	11.70	
MW-4	23.55	19.1-9.1	12/30/02	10.24	13.31	
MW-4	23.55	19.1-9.1	02/28/03	4.34	19.21	
MW-4	23.55	19.1-9.1	03/31/03	4.59	18.96	
MW-4	23.55	19.1-9.1	04/29/03	5.46	18.09	
MW-4	23.55	19.1-9.1	05/22/03	8.59	14.96	

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Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C. | Site: Brix Maritime | Project No. : 990056-01

Well	Reference Elevation (feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
MW-4	23.55	19.1-9.1	07/07/03	10.69	12.86	
MW-4	23.55	19.1-9.1	07/30/03	11.03	12.52	
MW-4	23.55	19.1-9.1	08/28/03	11.40	12.15	
MW-4	23.55	19.1-9.1	09/30/03	11.74	11.81	
MW-4	23.55	19.1-9.1	10/16/03	11.40	12.15	
MW-4	23.55	19.1-9.1	12/03/03	10.59	12.96	
MW-4	23.55	19.1-9.1	12/26/03	9.50	14.05	
MW-4	23.55	19.1-9.1	01/30/04	5.41	18.14	
MW-4	23.55	19.1-9.1	03/04/04	9.05	14.50	
MW-5	41.66	34.6-19.6	02/28/03	19.45	22.21	
MW-5	41.66	34.6-19.6	03/31/03	19.99	21.67	
MW-5	41.66	34.6-19.6	04/29/03	20.25	21.41	
MW-5	41.66	34.6-19.6	05/22/03	20.75	20.91	
MW-5	41.66	34.6-19.6	07/07/03	21.93	19.73	
MW-5	41.66	34.6-19.6	07/30/03	22.08	19.58	
MW-5	41.66	34.6-19.6	08/28/03	22.08	19.58	
MW-5	41.66	34.6-19.6	09/30/03	22.13	19.53	
MW-5	41.66	34.6-19.6	10/16/03	22.10	19.56	
MW-5	41.66	34.6-19.6	12/03/03	22.13	19.53	
MW-5	41.66	34.6-19.6	12/26/03	21.35	20.31	
MW-5	41.66	34.6-19.6	01/30/04	19.59	22.07	
MW-5	41.66	34.6-19.6	03/04/04	20.16	21.50	
MW-6	41.21	31.1-16.1	07/07/03	20.26	20.95	
MW-6	41.21	31.1-16.1	07/30/03	20.57	20.64	
MW-6	41.21	31.1-16.1	08/28/03	21.02	20.19	
MW-6	41.21	31.1-16.1	09/30/03	21.02	20.19	
MW-6	41.21	31.1-16.1	10/16/03	20.93	20.28	
MW-6	41.21	31.1-16.1	12/03/03	21.53	19.68	
MW-6	41.21	31.1-16.1	12/26/03	19.24	21.97	
MW-6	41.21	31.1-16.1	01/30/04	17.70	23.51	
MW-6	41.21	31.1-16.1	03/04/04	18.16	23.05	
MW-7	40.95	31.2-16.2	07/07/03	21.21	19.74	
MW-7	40.95	31.2-16.2	07/30/03	21.76	19.19	
MW-7	40.95	31.2-16.2	08/28/03	22.32	18.63	
MW-7	40.95	31.2-16.2	09/30/03	22.67	18.28	
MW-7	40.95	31.2-16.2	10/16/03	22.72	18.23	
MW-7	40.95	31.2-16.2	12/03/03	22.90	18.05	
MW-7	40.95	31.2-16.2	12/26/03	20.32	20.63	
MW-7	40.95	31.2-16.2	01/30/04	18.26	22.69	
MW-7	40.95	31.2-16.2	03/04/04	18.96	21.99	
River Gauge[1]						
River	4.33	NA	10/30/02	2.75	7.08	
River	4.33	NA	11/27/02	3.1	7.43	
River	4.33	NA	12/30/02	7.5	11.83	
River	4.33	NA	02/28/03	6.1	10.43	
River	4.33	NA	03/31/03	8.0	12.33	
River	4.33	NA	04/29/03	8.0	12.33	
River	4.33	NA	05/22/03	6.5	10.83	
River	4.33	NA	07/07/03	4.0	8.33	
River	4.33	NA	07/30/03	3.5	7.83	
River	4.33	NA	08/28/03	3.3	7.63	
River	4.33	NA	09/30/03	2.1	6.43	
River	4.33	NA	10/16/03	2.2	6.53	
River	4.33	NA	12/03/03	3.5	7.83	
River	4.33	NA	12/26/03	6.7	11.03	
River	4.33	NA	01/30/04	11.0	15.33	
River	4.33	NA	03/04/04	5.0	9.33	

Note: DTW = Depth to Water; DTP = Depth to Product; NA = Not Applicable

1 - The river gauge is marked in 1-foot increments, field measurements are estimated to the closest 0.1 foot.

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Table 2
Total Petroleum Hydrocarbons
Brix Maritime
Portland, Oregon

Location (sample depth in ft bgs)	Matrix	Date Date Sampled	Diesel Range Organics		Residual Range Organics		Gasoline Range Organics	
MW-1	Water	07/07/03	0.27	L	0.5	U	1.3	H
MW-1	Water	10/16/03	0.73	L	0.5	U	8.1	H
MW-1	Water	01/13/04	0.60	L	0.5	U	4.0	H
MW-2	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-2	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-2	Water	01/13/04	0.25	U	0.5	U	0.05	U
MW-3	Water	07/30/02	3.4	Y	1.6	O		
MW-3	Water	07/07/03	1.9	Y	8.5	O	0.05	U
MW-3	Water	10/16/03	0.92	Y	1.8	O	0.059	Y
MW-3	Water	01/13/04	0.79	Y	0.6	O	0.05	U
MW-4	Water	07/29/02	0.26	U	0.52	U		
MW-4	Water	07/07/03	0.25	U	0.52	O	0.05	U
MW-4 Duplicate	Water	07/07/03	0.25	U	0.52	U	0.05	U
MW-4	Water	10/16/03	0.25	U	0.5	O	0.65	Y
MW-4 Duplicate	Water	10/16/03	0.25	U	0.5	U	0.66	Y
MW-4	Water	01/13/04	0.25	U	0.5	U	0.05	U
MW-5	Water	01/13/04	0.62	L	0.5	U	1.4	H
MW-5 Duplicate	Water	01/13/04	0.63	L	0.5	U	1.5	H
MW-6	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-6	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-6	Water	01/13/04	0.25	U	0.5	U	0.05	U
MW-7	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-7	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-7	Water	01/13/04	0.25	U	0.5	U	0.05	U

Notes: Water concentrations are in mg/L. Soil concentrations are in mg/kg.

ft bgs = feet below ground surface.

U = Not detected at method reporting limit.

O = The fingerprint resembles oil, but does not match the calibration standard.

L = The fingerprint resembles a petroleum product, but the elution pattern indicates the presence of lighter weight constituents than the calibration standard.

H = The fingerprint resembles a petroleum product, but the elution pattern indicates the presence of heavier weight constituents than the calibration standard.

Y = The fingerprint resembles a petroleum product in the correct carbon range, but the elution pattern does not match the calibration standard.

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TABLE 3
Polycyclic Aromatic Hydrocarbons
Brix Maritime
Portland, Oregon

Sample Designation	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4 Dup	MW-4	MW-4 Dup	MW-4
Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Date Sampled	02/28/03	07/07/03	10/16/03	01/13/04	02/28/03	07/07/03	10/16/03	01/13/04	07/30/02	02/28/03	07/07/03	10/16/03	01/13/04	07/29/02	02/28/03	07/07/03	07/07/03	10/16/03	10/16/03	01/13/04
LPAHs																				
Naphthalene	23 D	23 D	160 D	110 D	0.082	0.02 U	0.023	0.037	0.36	0.75	0.34	0.34	0.11	0.039	18 D	0.16	0.12	0.11	0.12	0.074
Acenaphthylene	0.19	0.02 U	0.02 U	0.15 UB	0.023	0.02 U	0.022 U	0.110 UB	0.02 U	0.22	0.02 U	0.02 U	0.14 UB	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.053 UB
Acenaphthene	0.43	0.38	0.34	0.17	0.02 U	0.02 U	0.022 U	0.020 U	0.26	1.3	0.16	0.21	0.04	0.51	0.60	0.11	0.11	0.36	0.40	0.16
Dibenzofuran	0.12	0.067	0.085	0.032	0.02 U	0.02 U	0.022 U	0.020 U	0.025	0.11	0.02 U	0.021	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Fluorene	0.36	0.27	0.24	0.11	0.02 U	0.02 U	0.022 U	0.020 U	0.09	1.0	0.1	0.11	0.037	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Phenanthrene	1.8	0.56	0.42	0.16	0.15	0.02 U	0.031	0.020 U	0.11	2.9	0.2	0.14	0.06	0.043	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Anthracene	0.53	0.11	0.065	0.073	0.032	0.02 U	0.022 U	0.034	0.02 U	0.55	0.039	0.022	0.032	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
2-Methylnaphthalene	9.0	7.9	42.0 D	40.0 D	0.02 U	0.02 U	0.022 U	0.022	0.28	1.8	0.34	0.31	0.15	0.02 U	0.80	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Total LPAH	35.43	32.29	203.15	150.55	0.29		0.05	0.09	1.13	8.63	1.18	1.13	0.43	0.59	19.40	0.27	0.23	0.47	0.52	0.29
HPAHs																				
Fluoranthene	4.3	0.5	0.3	0.39	0.29	0.02 U	0.070	0.022	0.056	4.9	0.22	0.077	0.075	0.033	0.024	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Pyrene	13 D	1.2	0.9	1.6	0.42	0.02 U	0.091	0.020	0.058	7.6 D	0.22	0.082	0.090	0.046	0.055	0.021	0.02 U	0.02	0.024	0.02
Benz(a)anthracene	2.1	0.22	0.16	0.20	0.11	0.02 U	0.023	0.020	0.02 U	2.1 D	0.06	0.02 U	0.022	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Chrysene	2.7	0.27	0.24	0.24	0.17	0.02 U	0.042	0.020 U	0.02 U	2.3 D	0.071	0.02 U	0.023	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(b)fluoranthene	1.4	0.088	0.073	0.047	0.14	0.02 U	0.036	0.020	0.022	1.8 D	0.038	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(k)fluoranthene	1.1	0.098	0.096	0.053	0.13	0.02 U	0.035	0.023	0.02 U	1.7 D	0.065	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(a)pyrene	2.0	0.11	0.097	0.064	0.19	0.02 U	0.022 U	0.035	0.02 U	2.3 D	0.053	0.02 U	0.036	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Indeno(1,2,3-cd)pyrene	1.5	0.023	0.036	0.020 U	0.20	0.02 U	0.073	0.022	0.02 U	1.5 D	0.041	0.02 U	0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dibenz(a,h)anthracene	0.17	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U	0.020 U	0.02 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(g,h,i)perylene	1.5	0.028	0.043	0.02 U	0.22	0.02 U	0.090	0.020	0.02 U	1.9 D	0.039	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Total HPAHs	29.77	2.53	1.98	2.59	1.87		0.46	0.18	0.14	26.10	0.80	0.16	0.27	0.08	0.08	0.021			0.024	

NOTE: µg/L = micrograms per liter or parts per billion.
B = detected in method blank at significant concentration.
J = estimated concentration.
U = not detected at or above the indicated method reporting limit.

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TABLE 3
Polycyclic Aromatic Hydrocarbons
Brix Maritime
Portland, Oregon

Sample Designation	MW-5		MW-5 dup		MW-5		MW-5 dup		MW-6		MW-6		MW-6		MW-7		MW-7		MW-7	
Matrix	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Date Sampled	02/28/03		02/28/03		01/13/04		01/13/04		07/07/03		10/16/03		01/13/04		07/07/03		10/16/03		01/13/04	
LPAHs									**LPAHs**											
Naphthalene	19	D	17	D	2.9		2.1		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Acenaphthylene	0.10		0.40		0.02	U	0.02	U	0.02	U	0.02	U	0.042		0.02	U	0.02	U	0.02	U
Acenaphthene	1.3		1.3		0.6		0.5		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Dibenzofuran	0.2		0.19		0.081		0.057		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Fluorene	1.2		1.3		0.48		0.32		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Phenanthrene	2.3		3.1		1.1		0.8		0.02	U	0.02	U	0.025		0.02	U	0.02	U	0.02	U
Anthracene	0.55		0.93		0.34		0.24		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
2-Methylnaphthalene	31	D	31	D	1.5		1.1		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Total LPAH	55.64		55.22		7.02		5.02						0.07							
HPAHs									**HPAHs**											
Fluoranthene	3.1	J	6.5	J	1.5		1.1		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Pyrene	4.3	J	9.1	J	1.8		1.4		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benz(a)anthracene	0.72	J	2.80	J	0.18		0.14		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Chrysene	0.96	J	3.4	J	0.22		0.17		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benzo(b)fluoranthene	0.44	J	2.2	J	0.046		0.035		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benzo(k)fluoranthene	0.42	J	1.9	J	0.046		0.041		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benzo(a)pyrene	0.65	J	3.6	J	0.061		0.050		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Indeno(1,2,3-cd)pyrene	0.49	J	2.5	J	0.03		0.022		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Dibenz(a,h)anthracene	0.044	J	0.27	J	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benzo(g,h,i)perylene	0.52	J	2.7	J	0.029		0.024		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Total HPAHs	11.64		34.97		3.91		3.00													

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Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	Dichlorodifluoromethane	Chloromethane	Vinyl Chloride	Bromomethane	Chloroethane	Trichlorofluoromethane	Acetone	1,1-Dichloroethene	Methyl tert-Butyl Ether	Carbon Disulfide	Methylene Chloride	*trans*-1, 2-dichloroethene	1,1-Dichloroethane	2-Butanone	2,2-Dichloropropane	*cis*-1, 2-dichloroethene	Chloroform	Bromochloromethane	1,1,1-Trichloroethane	1,1-Dichloropropene	Carbon Tetrachloride
MW-1	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-1	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-1	Water	10/16/03	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
MW-1	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/30/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	07/29/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	1,2-Dichloroethane	Benzene	Trichloroethene	1,2-Dichloropropane	Bromodichloromethane	Dibromomethane	2-Hexanone	cis-1,3-Dichloropropene	Toluene	trans 1,3-Dichloropropene	1,1,2-Trichloroethane	4-Methyl-2-pentanone	1,3 Dichloropropane	Tetrachloroethene	Dibromochloromethane	1,2 Dibromoethane	Chlorobenzene	1,1,1,2-Tetrachloroethane	Ethylbenzene	m,p-Xylenes	o-Xylene	Styrene	Bromoform
MW-1	Water	02/28/03	0.5 U	**5.7**	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	**0.71**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**37**	**50**	**12**	0.5 U	0.5 U
MW-1	Water	07/07/03	0.5 U	**1.3**	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**1.1**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**11**	**18**	**2**	0.5 U	0.5 U
MW-1	Water	10/16/03	2.5 U	**32** D	2.5 U	2.5 U	2.5 U	2.5 U	100 U	2.5 U	**13** D	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	**270** D	**360** D	**110** D	2.5 U	2.5 U
MW-1	Water	01/30/04	0.5 U	**4.1**	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**0.96**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**78** D	**120**	**31**	0.5 U	0.5 U
MW-2	Water	02/28/03	0.5 U	0.50 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	07/07/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	10/16/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.86**	0.5 U	0.5 U	0.5 U
MW-2	Water	01/30/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.86**	0.5 U	0.5 U	0.5 U
MW-3	Water	07/30/02	0.5 U	**0.73**	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**14**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**0.51**	**3.5**	**2**	0.5 U	0.5 U
MW-3	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	**0.63**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**1.2**	**1.2**	0.5 U	0.5 U
MW-3	Water	07/07/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**0.8**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**1.2**	**1.1**	0.5 U	0.5 U
MW-3	Water	10/16/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**1.9**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**0.51**	**2.5**	**1.5**	0.5 U	0.5 U
MW-3	Water	01/30/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.63**	**0.73**	0.5 U	0.5 U
MW-4	Water	07/29/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	02/28/03	0.5 U	**0.76**	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**2.3**	**1.4**	**1.2**	0.5 U	0.5 U
MW-4	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.93**	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.94**	0.5 U	0.5 U	0.5 U
MW-4	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.5**	0.5 U	0.5 U
MW-5	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**15**	**12**	**0.97**	0.5 U	0.5 U
MW-5 Dup	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**16**	**14**	**1.10**	0.5 U	0.5 U
MW-5	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**1.8**	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**2.0**	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.74**	0.5 U	0.5 U	0.5 U
MW-6	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.82**	0.5 U	0.5 U	0.5 U
MW-7	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	Isopropylbenzene	1,1,2,2-Tetrachloroethane	1,2,3-Trichloropropane	Bromobenzene	n-Propylbenzene	2-Chlorotoluene	4-Chlorotoluene	1,3,5-Trimethylbenzene	tert-Butylbenzene	1,2,4-Trimethylbenzene	sec-Butylbenzene	1,3-Dichlorobenzene	4-Isopropyltoluene	1,4-Dichlorobenzene	n-Butylbenzene	1,2-Dichlorobenzene	1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene	1,2,3-Trichlorobenzene	Naphthalene	Hexachlorobutadiene
MW-1	Water	02/28/03	**19**	0.5 U	0.5 U	0.5 U	**65** D	2 U	2 U	**26**	2 U	**140** D	**10**	0.5 U	2 U	0.5 U	**21**	0.5 U	0.5 U	2 U	2 U	**31**	2 U
MW-1	Water	07/07/03	**31**	0.5 U	0.5 U	0.5 U	**64** D	2 U	2 U	**9.3**	2 U	**46**	**8.2**	0.5 U	2 U	0.5 U	**14**	0.5 U	0.5 U	2 U	2 U	**22**	2 U
MW-1	Water	10/16/03	**75** D	2.5 U	2.5 U	10 U	**250** D	10 U	10 U	**280** D	10 U	**1200** D	**28** D	2.5 U	10 U	2.5 U	150 Ui	2.5 U	10 U	10 U	10 U	**460** D	10 U
MW-1	Water	01/30/04	**36**	0.5 U	0.5 U	0.5 U	**140** D	2 U	2 U	**100** D	2 U	**510** D	**17**	0.5 U	2 U	0.5 U	**46**	0.5 U	0.5 U	2 U	2 U	**210** D	2 U
MW-2	Water	02/28/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	07/30/02	0.5 U	0.5 U	0.5 U	0.5 U	**2.2**	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	02/28/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	07/29/02	2 U	0.5 U	0.5 U	0.5 U	**2.3**	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	02/28/03	**29**	0.5 U	0.5 U	0.5 U	**35**	2 U	2 U	**2.2**	2 U	**3.8**	2 U	0.5 U	2 U	0.5 U	**3.1**	0.5 U	0.5 U	2 U	2 U	**45**	2 U
MW-4	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4 Dup	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	10/16/03	**7.1**	0.5 U	0.5 U	0.5 U	**5.5**	2 U	2 U	2 U	2 U	2 U	**4.4**	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4 Dup	Water	10/16/03	**7.5**	0.5 U	0.5 U	0.5 U	**6.3**	2 U	2 U	2 U	2 U	2 U	**4.8**	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-5	Water	02/28/03	**24**	0.5 U	0.5 U	0.5 U	**110** D	2 U	2 U	**26**	2 U	**75** D	**27**	0.5 U	2 U	0.5 U	**87** D	0.5 U	0.5 U	2 U	2 U	**23**	2 U
MW-5 Dup	Water	02/28/03	**25**	0.5 U	0.5 U	0.5 U	**110** D	2 U	2 U	**30**	2 U	**99** D	**30**	0.5 U	**2.3**	0.5 U	**110** D	0.5 U	0.5 U	2 U	2 U	**25**	2 U
MW-5	Water	01/30/04	**9.7**	0.5 U	0.5 U	0.5 U	**49**	2 U	2 U	2 U	2 U	2 U	**38**	0.5 U	2 U	0.5 U	**82** D	0.5 U	0.5 U	2 U	2 U	**2.9**	2 U
MW-5 Dup	Water	01/30/04	**11**	0.5 U	0.5 U	0.5 U	**56**	2 U	2 U	2 U	2 U	2 U	**39**	0.5 U	2 U	0.5 U	**84** D	0.5 U	0.5 U	2 U	2 U	**3.4**	2 U
MW-6	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

Table 5
Lead in Groundwater
Brix Maritime
Portland, Oregon

Location	Matrix	Date Sampled	Total Lead (ppb)		Dissolved Lead (ppb)	
MW-1	Water	02/28/03	288		0.03	
MW-1	Water	07/07/03	1.34		0.05	
MW-1	Water	10/16/03	1.41		0.06	
MW-1	Water	01/30/04	0.05		0.02	U
MW-2	Water	02/28/03	57.6		0.04	
MW-2	Water	07/07/03	0.04		0.05	
MW-2	Water	10/16/03	25.9		0.58	
MW-2	Water	01/13/04	0.03		0.02	U
MW-3	Water	07/30/02	0.88		0.13	
MW-3	Water	02/28/03	65.9		0.05	
MW-3	Water	07/07/03	0.36		0.08	
MW-3	Water	10/16/03	0.22		0.05	
MW-3	Water	01/13/04	0.1		0.05	
MW-4	Water	07/29/02	0.36		0.02	U
MW-4	Water	02/28/03	0.70		0.02	U
MW-4	Water	07/07/03	0.78	J	0.02	
MW-4 Duplicate	Water	07/07/03	0.18	J	0.03	
MW-4	Water	10/16/03	0.46		0.03	
MW-4 Duplicate	Water	10/16/03	0.54		0.02	U
MW-4	Water	01/13/04	0.08		0.03	
MW-5	Water	02/28/03	131		0.06	
MW-5 Duplicate	Water	02/28/03	116		0.03	
MW-5	Water	01/13/04	0.06		0.02	
MW-5 Duplicate	Water	01/13/04	0.08		0.02	
MW-6	Water	07/07/03	0.1		0.02	U
MW-6	Water	10/16/03	0.03		0.07	
MW-6	Water	01/13/03	0.09		0.02	U
MW-7	Water	07/07/03	0.17		0.02	U
MW-7	Water	10/16/03	0.02	U	0.03	
MW-7	Water	./13/04	0.1		0.02	U

Note: U = not detected at method reporting limit. ppb = parts per billion. J = estimated
Water concentrations are in µg/L.

BRIX002079

ANCHOR ENVIRONMENTAL, L.L.C.

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FIGURES

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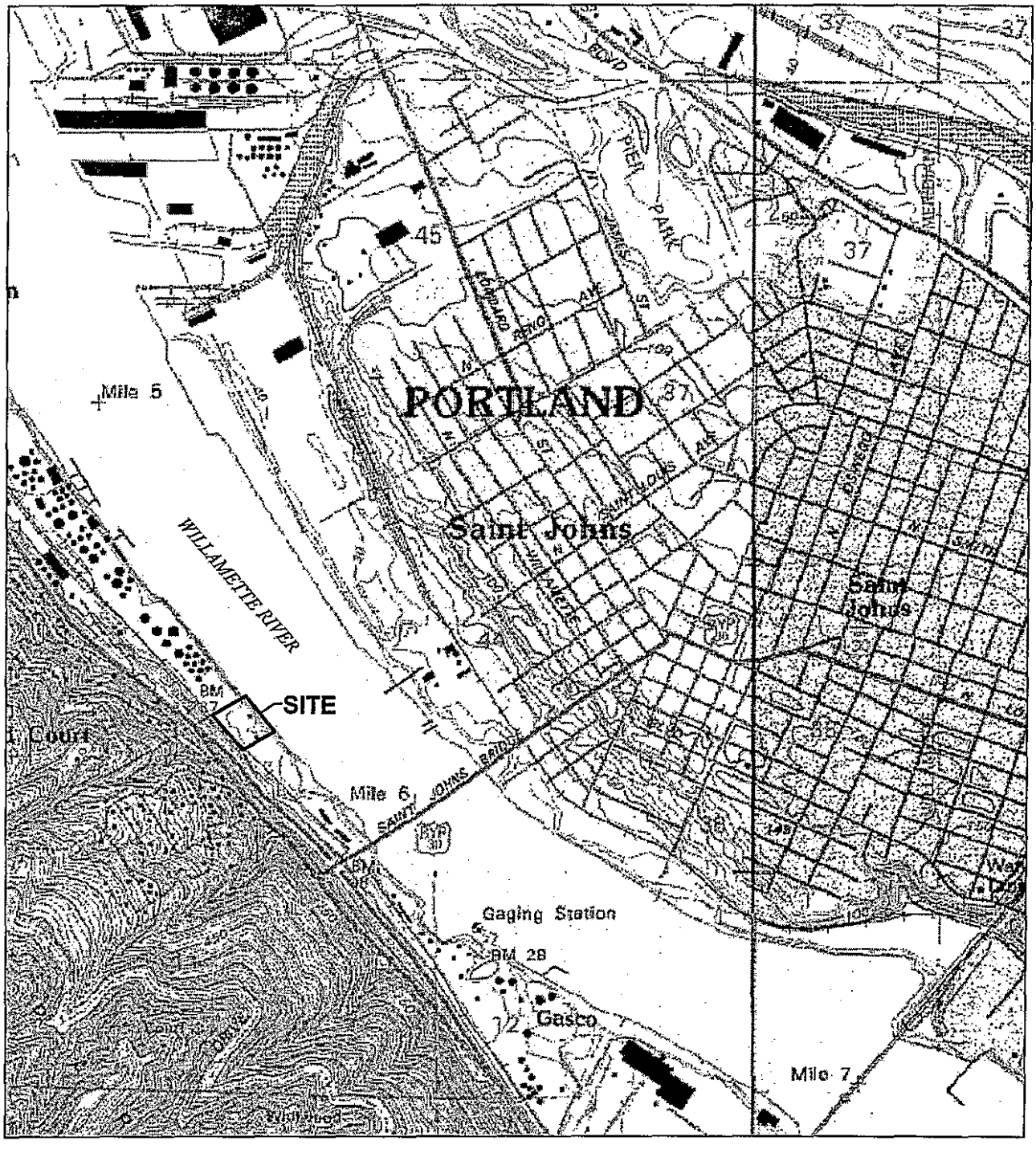
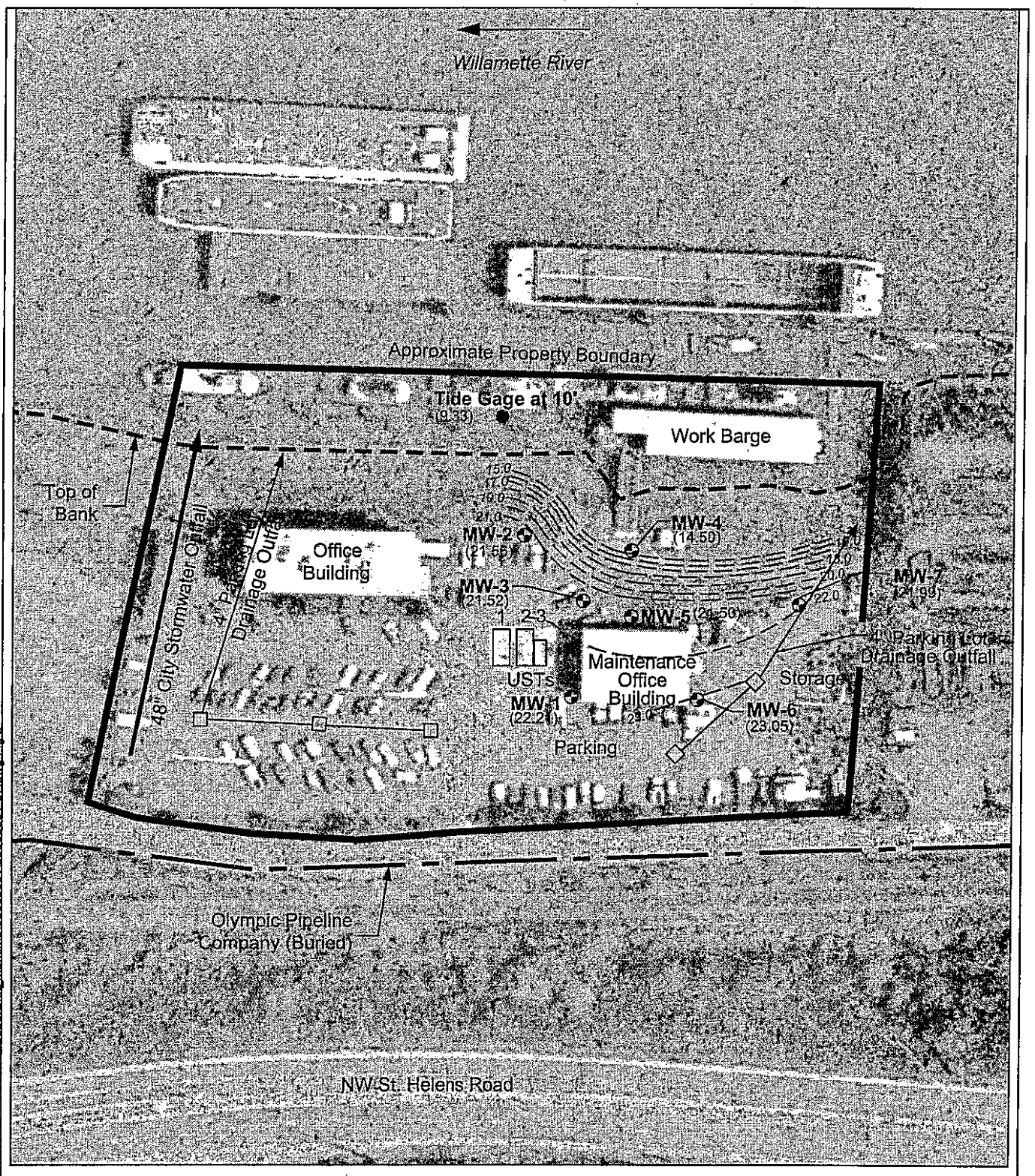


Apr 01, 2003 4:09pm cdavidson I:\CAD\Jobs\1990056-Brix_Maritime\19900560\1990056601-03.dwg FIG 1

BRIX002081

ANCHOR ENVIRONMENTAL, L.L.C.

Figure 1
Site Location Map
Brix Maritime
Portland, Oregon



Apr 06, 2004 6:52am cdavidson K:\Jobs\990056-Brix_Maritime\990056\01\980056\01-07.dwg Fig 2

Source: Aerial photograph acquired from WAC, Corp. 1991.

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Figure 2
Well Location and Potentiometric Surface Map (March 4, 2004)
Brix Maritime
Portland, Oregon

BRIX002082

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Appendix A
Field Sampling Data Package

BRIX002083

ANCHOR ENVIRONMENTAL, L.L.C.

Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Phone 503.670.1108
Fax 503.670.1128

Memorandum

To: File 990056-01

From: Timothy J. Stone

Date: February 2, 2004

Re: January 2004 Groundwater Sample Collection at Brix Maritime, Portland, Oregon

OVERVIEW

On January 30, 2004, Anchor measured groundwater elevations in seven monitoring wells and recorded the river elevation from the staff gauge located at the site. In addition, groundwater samples were collected from the seven monitoring wells. Eight water samples (including one duplicate sample) were submitted for analysis of VOCs by U.S. Environmental Protection Agency (USEPA) Method 8260+MTBE; gasoline by NWTPH-Gx; diesel and heavy oils by NWTPH-Dx; PAHs by USEPA Method 8270-SIM; total lead; and dissolved lead. Trip blanks were submitted for VOCs and NWTPH-Gx.

PURGING AND SAMPLING

Before sampling, wells were purged of at least three casing volumes, until field parameters (temperature, pH, and specific conductivity) stabilized, or the wells purged dry. Temperature, pH, and specific conductivity values were measured and recorded after each casing volume was removed. Field sampling parameters are presented within the attached table.

A minimum of three volumes was purged from each well using a peristaltic pump equipped with new pump tubing, and connected to polyethylene tubing dedicated to each well. Pumping rates were reduced, and samples were then collected directly from the dedicated pump tubing. Samples for dissolved lead were field-filtered using an in-line high-capacity 0.45 micron filter prior to field preservation with nitric acid.

Quality control consisted of collecting and analyzing one duplicate sample from MW-4. A trip blank was submitted for VOC analysis by USEPA Method 8260 + MTBE. A trip blank was also submitted for analysis by NWTPH-Gx method.

SAMPLE HANDLING AND SHIPPING

Ten samples were placed in iced shipping containers and transported by courier to Columbia Analytical Services (CAS), Kelso, Washington, under chain of custody documentation.

Attachments: Table of Sampling Field Parameters
Field Sampling Data Sheets
Chain-of-Custody Documentation

Table
Sampling Field Parameters
Brix Maritime
January 2004

Well	Blind Code	Date Sampled	Depth to Water (feet)	Pore Volumes Purged	Gallons Removed	pH	Specific Conductance µS	Temperature °C	Dissolved Oxygen mg/L
Monitoring Wells									
MW-1	MW-1-013004	1/30/2004	19.01	3	1.8	5.76	413	15.72	1.82
MW-2	MW-2-013004	1/30/2004	20.05	3	2.1	6.07	634	15.69	1.24
MW-3	MW-3-013004	1/30/2004	19.80	3	2.4	6.29	1329	15.47	0.66
MW-4	MW-4-013004	1/30/2004	5.41	3	4.6	6.05	632	12.24	0.86
MW-5	MW-5-013004	1/30/2004	19.59	3	1.5	6.42	662	14.71	0.24
MW-6	MW-6-013004	1/30/2004	17.70	3	3.6	6.36	724	15.35	0.39
MW-7	MW-7-013004	1/30/2004	18.26	3	3.3	6.35	588	15.88	0.37
QA/QC									
MW-5 (DUP)	MW-55-013004	1/30/2004	19.59	3	1.5	6.42	662	14.71	0.24

NA=not applicable

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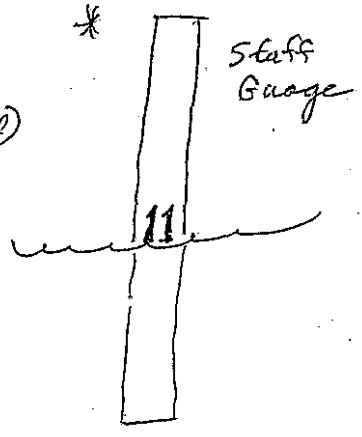
Depth to Water Measurements
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.			Site: Brix Maritime	
			Project No. : 990056-01	
Well	Date (MM/DD/YY)	Time (2400)	DTW (feet)	Comments
MW-1	1/30/04	0945	19.01	No PRODUCT DETECTED / STRONG GASOLINE ODOR
MW-2		0955	20.05	No PRODUCT DETECTED
MW-3		1003	19.80	No PRODUCT DETECTED / PETROLEUM ODOR
MW-4		1010	5.41	No PRODUCT DETECTED
MW-5		1018	19.59	No PRODUCT DETECTED / PETROLEUM ODOR
MW-6		1435**	17.70	No PRODUCT DETECTED
MW-7		1033	18.26	No PRODUCT DETECTED
River Gauge		0950	11.0'	*SEE BELOW
Note: DTW = Depth to Water; DTP = Depth to Product				

** COULD NOT ACCESS DURING WATER LEVEL MEASUREMENTS (engines + pallets covering well)



10:40 Visual inspection of shoreline:
No visual signs of sheen or free product along shoreline and dock areas.

BRIX002087

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FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-1
SITE ADDRESS: Portland, Oregon
BLIND ID: MW-1-013004
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	(SW)	W	NW	LIGHT	(MEDIUM)	HEAVY
WEATHER:	SUNNY	(CLOUDY)	(RAIN)		?				TEMPERATURE:	(°F 52	°C)

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product [Product Thickness]	DT-Water	DTP-DTW [Water Column]	DTB-DTW [Water Column x Gal/ft]		Volume (gal)
~~1/30/04~~	09:45	22.15		19.01		3.14	X1	0.51
01/30/04	:						X3	1.54

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [N if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	1/30/04	11:45	B	16	40 ml HCl	YES	NO		✓
Amber Glass	1/30/04	:	*	42	~~250~~, 500, 1L (None) (HCl) (H_2SO_4)	YES	NO		✓
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L HNO_3	YES	NO		✓
Red Diss. Poly	/ /	:		1	250, 500, 1L HNO_3	YES	YES		✓
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 12

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 11:00 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	1.8	5.76	413	15.72		1.82	↑
2	B	1.2	5.77	412	15.73			
1	B	0.6	5.82	432	15.86			Clear / Colorless
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

* ms/msd for lab

Petroleum

SAMPLER: TIM STONE (PRINTED NAME) Tim Stone (SIGNATURE)

BRIX002088

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FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-2
SITE ADDRESS: Portland, Oregon BLIND ID: MW-2-013004
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN			?			TEMPERATURE:	°F 53	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
1/30/04	09:55	24.25		20.05		4.20	X1	0.68
/ /	:						X3	2.05

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth:

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	[√ if used]
VOA Glass	1/30/04	12:30	B	6	40 mL HCl	YES	NO		√
Amber Glass	/ /	:		4*	250, 500, 1L (None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L HNO_3	YES	NO		√
Red Diss. Poly	/ /	:		1	250, 500, 1L HNO_3	YES	YES		√
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 12

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (PCB-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 11:50 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	2.1	6.05	634	15.69		1.24	↑
2	B	1.4	6.07	634	15.70			↑
1	B	0.7	6.04	635	15.70			Clear/Colorless
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

* MS/MSD for lab.

SAMPLER: Tim Stone (PRINTED NAME) (SIGNATURE)

BRIX002089

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FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-3
SITE ADDRESS: Portland, Oregon
BLIND ID: MW-3-013004
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	(SW)	W	NW	LIGHT	(MEDIUM)	HEAVY
WEATHER:	SUNNY		(CLOUDY)		(RAIN)		?		TEMPERATURE:	°F 53.	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
1/30/04	10:03	24.60		19.80		4.80	X1	0.78
/ /	:						X3	2.35

Gal/ft = (dia./2)² x 0.163	1" =	0.041	(2" =	0.163)	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	1/30/04	13:00	B	(6)	40 ml HCl	YES	NO		✓
Amber Glass	/ /	:		2	250, 500, (1L) (None) (HCl) (H_2SO_4)	YES	NO		✓
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	(250, 500, 1L) HNO_3	YES	NO		✓
Red Diss. Poly	/ /	:		1	(250, 500, 1L) HNO_3	YES	YES		✓
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 12:35 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	2.4	6.29	1329	15.47		0.66	↑
2	B	1.6	6.25	1336	15.45			
1	B	0.8	6.21	1416	15.42			Clear/colorless
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: Tim Stone (PRINTED NAME) Tim Stone (SIGNATURE)

BRIX002090

Confidential Business Information

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-4
SITE ADDRESS: Portland, Oregon BLIND ID: MW-4-013004
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?	TEMPERATURE:	°F 53	°C	[Circle appropriate units]			

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
1/30/04	10:10	14.80		5.41		9.39	X1	1.53
/ /	:						X3	4.59

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	1/30/04	14:05	B	6	40 mL	HCl	YES	NO		✓
Amber Glass	/ /	:		2	250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		✓
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	NO		✓
Red Diss. Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	YES		✓
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_2/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	4.6	6.05	632	12.24		0.86	T
2	B	3.0	6.04	631	12.23			T
1	B	1.5	6.04	619	12.20			Clear/Colorless
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

BRIX002091

Confidential Business Information

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-5
SITE ADDRESS: Portland, Oregon
BLIND ID: MW-5-013004
DUP ID: MW-55-013004 NA 1340

WIND FROM: N | NE | E | SE | S | (SW) | W | NW
LIGHT | (MEDIUM) | HEAVY
WEATHER: SUNNY | (CLOUDY) | (RAIN) | ?
TEMPERATURE: (°F 50) °C
[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW [Product Thickness]	DTB-DTW [Water Column]		Volume (gal) [Water Column x Gal/ft]
1/30/04	10:16	22.20		19.59		2.61	X1	0.42
/ /	:						X3	1.25

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | (2" = 0.163) | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [N if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	1/30/04	13:30	B	(6) 40 ml	(HCl)	(YES)	(NO)		√
Amber Glass	/ /	:		(2) 250, 500, 1L	(None) (HCl) (H_2SO_4)	(YES)	(NO)		√
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		(1) 250, 500, 1L	(HNO_3)	(YES)	(NO)		√
Red Diss. Poly	/ /	:		(1) 250, 500, 1L	(HNO_3)	(YES)	(YES)		√
	/ /	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 20

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time: 13:03
Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	1.5	6.42	662	14.71		0.24	*
2	B	1.0	6.40	660	14.72			
1	B	0.5	6.29	659	14.50			Clear / colorless *
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

* petroleum odor

SAMPLER: Tim Stone (PRINTED NAME) (SIGNATURE)

BRIX002092

Confidential Business Information

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-6
SITE ADDRESS: Portland, Oregon BLIND ID: MW-6-013004
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE:	°F 53	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
1/30/04	~~10:25~~	25.05		11.70		7.35	X1	1.20
/ /	14:35						X3	3.54

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	1/30/04	15:05	B	6	40 ml	HCl	YES	NO		√
Amber Glass	/ /	:		2	250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	NO		√
Red Diss. Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	YES		√
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 14:35 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	13.6	6.36	724	15.35		0.39	T
2	B	2.4	6.31	705	15.33			T
1	B	1.2	6.14	708	14.97			Clear/Colorless
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

BRIX002093

Confidential Business Information

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-7
SITE ADDRESS: Portland, Oregon
BLIND ID: MW-7-013004
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?					TEMPERATURE:	°F 53.	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
01/30/04	10:33	25.00		18.26		6.74	X1	1.10
/ /	:						X3	3.30

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative (circle)	Ice	Filter	pH	√
VOA Glass	1/30/04	14:30	B	6	40 mL HCl	YES	NO		√
Amber Glass	/ /	:		2	250, 500, 1L (None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L HNO_3	YES	NO		√
Red Diss. Poly	/ /	:		1	250, 500, 1L HNO_3	YES	YES		√
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 14:07 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	3.3	6.35	588	15.88		0.37	
2	B	2.2	6.36	587	15.87			
1	B	1.1	6.32	585	15.72			Clear/Colorless
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) Tim Stone (SIGNATURE)

BRIX002094

Confidential Business Information

CHAIN OF CUSTODY

Columbia Analytical Services INC.
An Employee - Owned Company

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 1 OF 1 SR#: _____ COC #: _____

PROJECT NAME: BRIX Maritime
PROJECT NUMBER: 990056-01
PROJECT MANAGER: JOHN REEDA
COMPANY/ADDRESS: ANCHOR / PORTLAND, OR
CITY/STATE/ZIP:
E-MAIL ADDRESS:
PHONE # 503-670-1100 FAX# 670-1128
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐	Volatile Organics 624☐ 8260☒ 8270LL☐	Hydrocarbons (*see below) Gas☒ Diesel☒ Oil☐	BTEX☐ 8021☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐	1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐	Chlorophenolics - 8141A☐ 8151A☐ Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals (Total or Dissolved) (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	REMARKS
MW-1-013004	1/30/04	1145		H_2O	12		X	X							X	X							*
-2-		1230			12		X	X							X	X							#
-3-		1300			10		X	X							X	X							
-5-		1330			10		X	X							X	X							
-55-		1340			10		X	X							X	X							
-4-		1405			10		X	X							X	X							
-7-		1430			10		X	X							X	X							
-6-		1505			10		X	X							X	X							
TRIP BLANK	1/30/04				2		X																
TRIP BLANK	1/30/04				2			X															(2)

REPORT REQUIREMENTS

- ___ I. Routine Report: Method Blank, Surrogate, as required
- X II. Report Dup., MS, MSD as required
- ___ III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- ___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI (NORTHWEST) OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

* extra bottles for lab MS/MSD (TPH$_D$ + PAH)

(2) NWTPH-Gx ONLY

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Tim Flora	Signature	Signature	Signature
Date/Time: 2/2/04-1130	Date/Time	Date/Time	Date/Time
Printed Name: TIM STONE	Printed Name	Printed Name	Printed Name
Firm: ANCHOR-PDX	Firm	Firm	Firm

Confidential Business Information

BRIX002095

Appendix B
Laboratory Report

BRIX002096

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

February 24, 2004 Service Request No: K2400669

John Renda
Anchor Environmental
6650 SW Redwood Lane Suite 110
Portland, OR 97224

RE: BRIX Maritime/990056-01

Dear John:

Enclosed are the results of the sample(s) submitted to our laboratory on February 2, 2004. For your reference, these analyses have been assigned our service request number K2400669.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC 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.

Please call if you have any questions. My extension is 3281.

Respectfully submitted,

Columbia Analytical Services, Inc.

Abbie Spielman for
Project Chemist

AS/afs

BRIX002097

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

BRIX002098

00002

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Anchor Environmental	**Service Request No.:**	K2400669
Project:	BRIX Maritime	**Date Received:**	2/2/04
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

Sample Receipt

Ten water samples were received for analysis at Columbia Analytical Services on 2/2/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Metals

No anomalies associated with the analysis of these samples were observed.

Diesel Range Organics by NWTPH-Dx

No anomalies associated with the analysis of these samples were observed.

Gasoline Range Organics by NWTPH-Gx

No anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260B

Elevated Method Reporting Limits:
Samples MW-1-013004, MW-5-013004, and MW-55-013004 required dilution due to the presence of elevated levels of target analytes. The reporting limits are adjusted to reflect the dilution.

Lab Control Sample Exceptions:
The advisory criterion was exceeded for the following analytes in Laboratory Control Samples (LCS) KWG0401814-3 and/or KWG0401881-3: Methylene Chloride, Carbon Tetrachloride, Bromodichloromethane, Dibromochloromethane, 1,1,1,2-Tetrachloroethane, and Bromoform. As per the CAS/Kelso Standard Operating Procedure (SOP) for this method, these compounds are not included in the subset of analytes used to control the analysis. The recovery information reported for these analytes is for advisory purposes only (i.e. to provide additional detail related to the performance of each individual compound). No further corrective action was required.

Initial Calibration Exceptions:
The primary evaluation criterion was exceeded for the following analytes in Initial Calibration (ICAL) ID CAL3200: cis-1, 3-Dichloropropene, trans-1, 3-Dichloropropene, 2-Hexanone, Dibromochloromethane, 1,1,1,2-Tetrachloroethane, Styrene, Bromoform, and 1,2-Dibromo-3-chloropropane. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was

Approved by _____ **Date** 2-24-04

8.8%. The calibration meets the alternative evaluation criteria. Note that CAS/Kelso policy does not allow the use of averaging if any analyte in the ICAL exceeds 30% RSD.

No other anomalies associated with the analysis of these samples were observed.

Semivolatile Organic Compounds by EPA Method 8270C

Method Blank Exceptions:
The Method Blank KWG0401400-4 contained low levels of Acenaphthylene above the Method Reporting Limit (MRL). In accordance with CAS QA/QC policy, all sample results less than twenty times the level found in the Method Blank are flagged as estimated. The samples were not re-extracted and reanalyzed because insufficient sample remained for additional testing.

No other anomalies associated with the analysis of these samples were observed.

Approved by _____ Date 2-24-04

Chain of Custody Documentation

Confidential Business Information

CHAIN OF CUSTODY

SR#: KZ400669

PAGE 1 OF 1 COC #

Columbia Analytical Services INC.
An Employee - Owned Company

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

80000

PROJECT NAME	BRIX Maritime
PROJECT NUMBER	990056-01
PROJECT MANAGER	JOHN RENDA
COMPANY/ADDRESS	ANCHOR / PORTLAND, OR
CITY/STATE/ZIP	
E-MAIL ADDRESS	
PHONE #	503-670-1108
FAX#	670-1128
SAMPLER'S SIGNATURE	

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ (8260☒)	Hydrocarbons Gas☒ 8021☐ BTEX☐ Diesel☒ (*see below) Oil☐ ☐Fuel Fingerprint (FIQ) ☐NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics Tri☐ Tetra☐ - 8151M PCP☐	PAHs 8310☐ SIM☒	Metals (Total or Dissolved) (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	REMARKS
MW-1-013004	1/30/04	1145		H_2O	12		X	X					X	X						*
-2-		1230			12		X	X					X	X						*
-3-		1300			10		X	X					X	X						
-5-		1330			10		X	X					X	X						
-55-		1340			10		X	X					X	X						
-4-		1405			10		X	X					X	X						
-7-		1430			10		X	X					X	X						
-6-		1505			10		X	X					X	X						
TRIP BLANK	1/30/04				2		X													
TRIP BLANK	1/30/04				2			X												(2)

REPORT REQUIREMENTS

- ___ I. Routine Report: Method Blank, Surrogate, as required
- X II. Report Dup., MS, MSD as required
- ___ III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- ___ V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.

___ 5 Day

X Standard (10-15 working days)

___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI (NORTHWEST) OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

* extra bottles for lab MS/MSD (TPH$_{Dx}$ + PAH)

(2) NWTPH-Gx ONLY

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Jim Stone	Signature:	Signature:	Signature:
Date/Time: 2/2/04-1130	Date/Time: 2/2/04 1900	Date/Time:	Date/Time:
Printed Name: Jim Stone	Printed Name:	Printed Name:	Printed Name:
Firm: ANCHOR-PDX	Firm:	Firm:	Firm:

RCOC #1 06/03

Confidential Business Information

BRIX002104

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

Project/Client ANCHOR Work Order K240 0669

Cooler received on 2/2/04 and opened on 2/2/04 by AP

1.	Were custody seals on outside of coolers?		(Y)	N
	If yes, how many and where? 3F			
2.	Were seals intact and signature & date correct?		(Y)	N
3.	Is the shipper's airbill available and filed? If no, record airbill number:		Y	N
4.	COC#			
	Temperature of cooler(s) upon receipt:	2.0 / 3.2 / 0.1		
	Temperature Blank:	2.6 / 5.5 / 5.2		
5.	Were custody papers properly filled out (ink, signed, etc.)?		(Y)	N
6.	Type of packing material present: MEH, STYRO			
7.	Did all bottles arrive in good condition (unbroken)?		(Y)	N
8.	Were all bottle labels complete (i.e analysis, preservation, etc.)?		(Y)	N
9.	Did all bottle labels and tags agree with custody papers?		(Y)	N
10.	Were the correct types of bottles used for the tests indicated?		(Y)	N
11.	Were all of the preserved bottles received at the lab with the appropriate pH?		(Y)	N
12.	Were VOA vials checked for absence of air bubbles, and if present, noted below?		(Y)	N
13.	Did the bottles originate from CAS/K or a branch laboratory?		(Y)	N
14.	Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?		~~Y~~	~~N~~
15.	Was C12/Res negative?		(Y)	N

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

BRIX002105

00009

Metals

BRIX002106

00010

Confidential Business Information

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Anchor Environmental

Service Request: K2400669

Project No.: 990056-01

Project Name: BRIX Maritime

Sample No.	Lab Sample ID.
MW-1-013004	K2400669-001
MW-1-013004	K2400669-001 DISS
MW-1-013004D	K2400669-001D
MW-1-013004S	K2400669-001S
MW-2-013004	K2400669-002
MW-2-013004	K2400669-002 DISS
MW-3-013004	K2400669-003
MW-3-013004	K2400669-003 DISS
MW-5-013004	K2400669-004
MW-5-013004	K2400669-004 DISS
MW-55-013004	K2400669-005
MW-55-013004	K2400669-005 DISS
MW-4-013004	K2400669-006
MW-4-013004	K2400669-006 DISS
MW-7-013004	K2400669-007
MW-7-013004	K2400669-007 DISS
MW-6-013004	K2400669-008
MW-6-013004	K2400669-008 DISS
MW-6-013004D	K2400669-008D
MW-6-013004S	K2400669-008S

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: Total and Dissolved Metals

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Eileen M Arnold Date: 2/9/04

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Anchor Environmental Service Request: K2400669

Project No.: 990056-01

Project Name: BRIX Maritime

Sample No.	Lab Sample ID.
Method Blank	K2400669-MB

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: Total and Dissolved Metals

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Date: _____

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2400669
Project No.:	990056-01	Date Collected:	01/30/04
Project Name:	BRIX Maritime	Date Received:	02/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: MW-1-013004 Lab Code: K2400669-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.05		

% Solids: 0.0

Comments:

BRIX002109

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2400669
Project No.:	990056-01	Date Collected:	01/30/04
Project Name:	BRIX Maritime	Date Received:	02/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: MW-1-013004 Lab Code: K2400669-001 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.02	U	

% Solids: 0.0

Comments: Dissolved Metals

BRIX002110

00014

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Date Collected: 01/30/04
Date Received: 02/02/04
Units: µG/L
Basis: NA

Sample Name: MW-2-013004
Lab Code: K2400669-002

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.03		

% Solids: 0.0

Comments:

BRIX002111

00015

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2400669
Project No.:	990056-01	Date Collected:	01/30/04
Project Name:	BRIX Maritime	Date Received:	02/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: MW-2-013004 Lab Code: K2400669-002 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.02	U	

% Solids: 0.0

Comments: Dissolved Metals

BRIX002112

00016

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Date Collected: 01/30/04
Date Received: 02/02/04
Units: µG/L
Basis: NA

Sample Name: MW-3-013004
Lab Code: K2400669-003

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.10		

% Solids: 0.0

Comments:

BRIX002113

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Date Collected: 01/30/04
Date Received: 02/02/04
Units: µG/L
Basis: NA

Sample Name: MW-3-013004
Lab Code: K2400669-003 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.05		

% Solids: 0.0

Comments: Dissolved Metals

BRIX002114

00018

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Date Collected: 01/30/04
Date Received: 02/02/04
Units: µG/L
Basis: NA

Sample Name: MW-5-013004
Lab Code: K2400669-004

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.06		

% Solids: 0.0

Comments:

BRIX002115

~~Confidential Business Information~~

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Date Collected: 01/30/04
Date Received: 02/02/04
Units: µG/L
Basis: NA

Sample Name: MW-5-013004
Lab Code: K2400669-004 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.02		

% Solids: 0.0

Comments: Dissolved Metals

BRIX002116

00020

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2400669
Project No.:	990056-01	Date Collected:	01/30/04
Project Name:	BRIX Maritime	Date Received:	02/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: MW-55-013004 Lab Code: K2400669-005

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.08		

% Solids: 0.0

Comments:

BRIX002117

00021

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2400669
Project No.:	990056-01	Date Collected:	01/30/04
Project Name:	BRIX Maritime	Date Received:	02/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: MW-55-013004 Lab Code: K2400669-005 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.02		

% Solids: 0.0

Comments: Dissolved Metals

BRIX002118

00022

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Date Collected: 01/30/04
Date Received: 02/02/04
Units: µG/L
Basis: NA

Sample Name: MW-4-013004
Lab Code: K2400669-006

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.08		

% Solids: 0.0

Comments:

BRIX002119

00023

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2400669
Project No.:	990056-01	Date Collected:	01/30/04
Project Name:	BRIX Maritime	Date Received:	02/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: MW-4-013004 Lab Code: K2400669-006 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.03		

% Solids: 0.0

Comments: Dissolved Metals

BRIX002120

00024

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2400669
Project No.:	990056-01	Date Collected:	01/30/04
Project Name:	BRIX Maritime	Date Received:	02/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: MW-7-013004 Lab Code: K2400669-007

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.10		

% Solids: 0.0

Comments:

BRIX002121

00025

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Date Collected: 01/30/04
Date Received: 02/02/04
Units: µG/L
Basis: NA

Sample Name: MW-7-013004
Lab Code: K2400669-007 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.02	U	

BRIX002122

% Solids: 0.0

Comments: Dissolved Metals

00026

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2400669
Project No.:	990056-01	Date Collected:	01/30/04
Project Name:	BRIX Maritime	Date Received:	02/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: MW-6-013004 Lab Code: K2400669-008

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.09		

% Solids: 0.0

Comments:

BRIX002123

00027

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Date Collected: 01/30/04
Date Received: 02/02/04
Units: µG/L
Basis: NA

Sample Name: MW-6-013004
Lab Code: K2400669-008 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.02	U	

% Solids: 0.0

Comments: Dissolved Metals

BRIX002124

00028

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Date Collected:
Date Received:
Units: µG/L
Basis: NA

Sample Name: Method Blank
Lab Code: K2400669-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	2/5/04	2/9/04	0.02	U	

% Solids: 0.0

Comments:

BRIX002125

00029

Confidential Business Information

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name: MW-1-013004S
Lab Code: K2400669-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Lead	70 - 130	19.3		0.05		20.0	96		200.8

BRIX002126

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
- 5a -
SPIKE SAMPLE RECOVERY

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name: MW-6-013004S
Lab Code: K2400669-008S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Lead	70 - 130	19.9		0.09		20.0	99		200.8

BRIX002127

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
- 6 -
DUPLICATES

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name: MW-1-013004D
Lab Code: K2400669-001D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Lead		0.05		0.04		8		200.8

BRIX002128

An empty field in the Control Limit column indicates the control limit is not applicable.

Form VI - IN

Confidential Business Information

METALS
- 6 -
DUPLICATES

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2400669
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name: MW-6-013004D
Lab Code: K2400669-008D

Analyte	Control Limit (%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Lead		0.09		0.10		2		200.8

BRIX002129

An empty field in the Control Limit column indicates the control limit is not applicable.

Confidential Business Information

Diesel & Residual Range Organics

BRIX002130

00034

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Diesel and Residual Range Organics

Sample Name:	MW-1-013004	**Units:**	ug/L
Lab Code:	K2400669-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	600	L	250	1	02/06/04	02/06/04	KWG0401573	
Residual Range Organics (RRO)	ND	U	500	1	02/06/04	02/06/04	KWG0401573	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	81	50-150	02/06/04	Acceptable
n-Triacontane	77	50-150	02/06/04	Acceptable

BRIX002131

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Diesel and Residual Range Organics

Sample Name:	MW-2-013004	**Units:**	ug/L
Lab Code:	K2400669-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	02/06/04	02/06/04	KWG0401573	
Residual Range Organics (RRO)	ND	U	500	1	02/06/04	02/06/04	KWG0401573	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	83	50-150	02/06/04	Acceptable
n-Triacontane	80	50-150	02/06/04	Acceptable

BRIX002132

Comments:

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Diesel and Residual Range Organics

Sample Name:	MW-3-013004	**Units:**	ug/L
Lab Code:	K2400669-003	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	790	Y	250	1	02/06/04	02/06/04	KWG0401573	
Residual Range Organics (RRO)	600	O	500	1	02/06/04	02/06/04	KWG0401573	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	80	50-150	02/06/04	Acceptable
n-Triacontane	78	50-150	02/06/04	Acceptable

BRIX002133

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Diesel and Residual Range Organics

Sample Name:	MW-5-013004	**Units:**	ug/L
Lab Code:	K2400669-004	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	620	L	250	1	02/06/04	02/06/04	KWG0401573	
Residual Range Organics (RRO)	ND	U	500	1	02/06/04	02/06/04	KWG0401573	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	83	50-150	02/06/04	Acceptable
n-Triacontane	81	50-150	02/06/04	Acceptable

BRIX002134

Comments:

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Diesel and Residual Range Organics

Sample Name:	MW-55-013004	**Units:**	ug/L
Lab Code:	K2400669-005	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	**630**	L	250	1	02/06/04	02/06/04	KWG0401573	
Residual Range Organics (RRO)	ND	U	500	1	02/06/04	02/06/04	KWG0401573	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	86	50-150	02/06/04	Acceptable
n-Triacontane	85	50-150	02/06/04	Acceptable

BRIX002135

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Diesel and Residual Range Organics

Sample Name:	MW-4-013004	**Units:**	ug/L
Lab Code:	K2400669-006	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	02/06/04	02/06/04	KWG0401573	
Residual Range Organics (RRO)	ND	U	500	1	02/06/04	02/06/04	KWG0401573	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	85	50-150	02/06/04	Acceptable
n-Triacontane	82	50-150	02/06/04	Acceptable

BRIX002136

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Diesel and Residual Range Organics

Sample Name:	MW-7-013004	**Units:**	ug/L
Lab Code:	K2400669-007	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	02/06/04	02/06/04	KWG0401573	
Residual Range Organics (RRO)	ND	U	500	1	02/06/04	02/06/04	KWG0401573	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	84	50-150	02/06/04	Acceptable
n-Triacontane	81	50-150	02/06/04	Acceptable

BRIX002137

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Diesel and Residual Range Organics

Sample Name:	MW-6-013004	**Units:**	ug/L
Lab Code:	K2400669-008	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	02/06/04	02/06/04	KWG0401573	
Residual Range Organics (RRO)	ND	U	500	1	02/06/04	02/06/04	KWG0401573	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	88	50-150	02/06/04	Acceptable
n-Triacontane	86	50-150	02/06/04	Acceptable

BRIX002138

Comments:

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Diesel and Residual Range Organics

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0401573-4	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	02/06/04	02/06/04	KWG0401573	
Residual Range Organics (RRO)	ND	U	500	1	02/06/04	02/06/04	KWG0401573	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	95	50-150	02/06/04	Acceptable
n-Triacontane	94	50-150	02/06/04	Acceptable

BRIX002139

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2400669

Surrogate Recovery Summary
Diesel and Residual Range Organics

Extraction Method: EPA 3510C
Analysis Method: NWTPH-Dx

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
MW-1-013004	K2400669-001	81	77
MW-2-013004	K2400669-002	83	80
MW-3-013004	K2400669-003	80	78
MW-5-013004	K2400669-004	83	81
MW-55-013004	K2400669-005	86	85
MW-4-013004	K2400669-006	85	82
MW-7-013004	K2400669-007	84	81
MW-6-013004	K2400669-008	88	86
MW-1-013004DUP	KWG0401573-2	88	89
Method Blank	KWG0401573-4	95	94
Lab Control Sample	KWG0401573-3	94	94

Surrogate Recovery Control Limits (%)

Sur1 =	o-Terphenyl	50-150
Sur2 =	n-Triacontane	50-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

BRIX002140

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Extracted:**	02/06/2004
Sample Matrix:	Water	**Date Analyzed:**	02/06/2004

Duplicate Sample Summary
Diesel and Residual Range Organics

Sample Name:	MW-1-013004	**Units:**	ug/L
Lab Code:	K2400669-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx	**Extraction Lot:**	KWG0401573

Analyte Name	MRL	Sample Result	MW-1-013004DUP KWG0401573-2 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Diesel Range Organics (DRO)	250	600	520	560	14	30
Residual Range Organics (RRO)	500	ND	ND	ND	-	30

BRIX002141

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Extracted:**	02/06/2004
Sample Matrix:	Water	**Date Analyzed:**	02/06/2004

Lab Control Spike Summary
Diesel and Residual Range Organics

Extraction Method:	EPA 3510C	**Units:**	ug/L
Analysis Method:	NWTPH-Dx	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0401573

	Lab Control Sample KWG0401573-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Diesel Range Organics (DRO)	1080	800	134	71-146
Residual Range Organics (RRO)	943	800	118	53-143

BRIX002142

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Confidential Business Information

Gasoline Range Organics

BRIX002143

00047

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Gasoline Range Organics

Sample Name:	MW-1-013004	**Units:**	ug/L
Lab Code:	K2400669-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	4000	H	50	1	02/10/04	02/10/04	KWG0401711	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	101	50-150	02/10/04	Acceptable

BRIX002144

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Gasoline Range Organics

Sample Name:	MW-2-013004	**Units:**	ug/L
Lab Code:	K2400669-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	02/10/04	02/10/04	KWG0401711	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	104	50-150	02/10/04	Acceptable

BRIX002145

Comments:

00049

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Gasoline Range Organics

Sample Name:	MW-3-013004	**Units:**	ug/L
Lab Code:	K2400669-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	02/10/04	02/10/04	KWG0401711	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	101	50-150	02/10/04	Acceptable

BRIX002146

Comments:

00050

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Gasoline Range Organics

Sample Name:	MW-5-013004	**Units:**	ug/L
Lab Code:	K2400669-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	1400	H	50	1	02/10/04	02/10/04	KWG0401711	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	102	50-150	02/10/04	Acceptable

BRIX002147

Comments:

00051

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Gasoline Range Organics

Sample Name:	MW-55-013004	**Units:**	ug/L
Lab Code:	K2400669-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	1500	H	50	1	02/10/04	02/10/04	KWG0401711	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	102	50-150	02/10/04	Acceptable

BRIX002148

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Gasoline Range Organics

Sample Name:	MW-4-013004	**Units:**	ug/L
Lab Code:	K2400669-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	02/10/04	02/10/04	KWG0401711	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	102	50-150	02/10/04	Acceptable

BRIX002149

Comments:

00053

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Gasoline Range Organics

Sample Name:	MW-7-013004	**Units:**	ug/L
Lab Code:	K2400669-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	02/10/04	02/10/04	KWG0401711	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	102	50-150	02/10/04	Acceptable

BRIX002150

Comments:

00054

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Gasoline Range Organics

Sample Name:	MW-6-013004	**Units:**	ug/L
Lab Code:	K2400669-008	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	02/10/04	02/10/04	KWG0401711	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	101	50-150	02/10/04	Acceptable

BRIX002151

Comments:

00055

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Gasoline Range Organics

Sample Name:	Trip Blank GX-NWTPH	**Units:**	ug/L
Lab Code:	K2400669-010	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	02/10/04	02/10/04	KWG0401711	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	104	50-150	02/10/04	Acceptable

BRIX002152

Comments:

00056

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Gasoline Range Organics

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0401711-5	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	02/10/04	02/10/04	KWG0401711	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	103	50-150	02/10/04	Acceptable

BRIX002153

Comments:

00057

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2400669

Surrogate Recovery Summary
Gasoline Range Organics

Extraction Method: EPA 5030B
Analysis Method: NWTPH-Gx

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
MW-1-013004	K2400669-001	101
MW-2-013004	K2400669-002	104
MW-3-013004	K2400669-003	101
MW-5-013004	K2400669-004	102
MW-55-013004	K2400669-005	102
MW-4-013004	K2400669-006	102
MW-7-013004	K2400669-007	102
MW-6-013004	K2400669-008	101
Trip Blank GX-NWTPH	K2400669-010	104
MW-2-013004DUP	KWG0401711-1	105
Method Blank	KWG0401711-5	103
Lab Control Sample	KWG0401711-4	107

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Difluorobenzene	50-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

BRIX002154

00058

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Extracted:**	02/10/2004
Sample Matrix:	Water	**Date Analyzed:**	02/10/2004

Duplicate Sample Summary
Gasoline Range Organics

Sample Name:	MW-2-013004	**Units:**	ug/L
Lab Code:	K2400669-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx	**Extraction Lot:**	KWG0401711

Analyte Name	MRL	Sample Result	MW-2-013004DUP KWG0401711-1 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Gasoline Range Organics (GRO)	50	ND	ND	ND	-	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

BRIX002155

00059

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Extracted:**	02/10/2004
Sample Matrix:	Water	**Date Analyzed:**	02/10/2004

Lab Control Spike Summary
Gasoline Range Organics

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	NWTPH-Gx	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0401711

	Lab Control Sample KWG0401711-4 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Gasoline Range Organics (GRO)	463	500	93	73-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

BRIX002156

00060

Confidential Business Information

Volatile Organic Compounds
Method 8260

BRIX002157

00061

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2400669
Date Collected: 01/30/2004
Date Received: 02/02/2004

Volatile Organic Compounds

Sample Name: MW-1-013004
Lab Code: K2400669-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Vinyl Chloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichlorofluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Acetone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methyl tert-Butyl Ether	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Disulfide	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methylene Chloride	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Butanone (MEK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
2,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Tetrachloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Benzene	**4.1**		0.50	1	02/10/04	02/10/04	KWG0401814	
Trichloroethene (TCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromodichloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Hexanone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Toluene	**0.96**		0.50	1	02/10/04	02/10/04	KWG0401814	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,2-Trichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	

BRIX002158

Comments:

00062

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-1-013004	**Units:**	ug/L
Lab Code:	K2400669-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Chlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Ethylbenzene	**78**	D	5.0	10	02/10/04	02/10/04	KWG0401814	
m,p-Xylenes	**120**		0.50	1	02/10/04	02/10/04	KWG0401814	
o-Xylene	**31**		0.50	1	02/10/04	02/10/04	KWG0401814	
Styrene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromoform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Isopropylbenzene	**36**		2.0	1	02/10/04	02/10/04	KWG0401814	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
n-Propylbenzene	**140**	D	20	10	02/10/04	02/10/04	KWG0401814	
2-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
4-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3,5-Trimethylbenzene	**100**	D	20	10	02/10/04	02/10/04	KWG0401814	
tert-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trimethylbenzene	**510**	D	20	10	02/10/04	02/10/04	KWG0401814	
sec-Butylbenzene	**17**		2.0	1	02/10/04	02/10/04	KWG0401814	
1,3-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Isopropyltoluene	**2.8**		2.0	1	02/10/04	02/10/04	KWG0401814	
1,4-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
n-Butylbenzene	**46**		2.0	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Naphthalene	**210**	D	20	10	02/10/04	02/10/04	KWG0401814	
Hexachlorobutadiene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	

BRIX002159

Comments:

00063

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-1-013004	**Units:**	ug/L
Lab Code:	K2400669-001	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	85-112	02/10/04	Acceptable
Toluene-d8	102	93-109	02/10/04	Acceptable
4-Bromofluorobenzene	95	78-114	02/10/04	Acceptable

BRIX002160

Comments:

00064

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-2-013004	**Units:**	ug/L
Lab Code:	K2400669-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Vinyl Chloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichlorofluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Acetone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methyl tert-Butyl Ether	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Disulfide	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methylene Chloride	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Butanone (MEK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
2,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Tetrachloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Benzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichloroethene (TCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromodichloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Hexanone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Toluene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,2-Trichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	

BRIX002161

Comments:

00065

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-2-013004	**Units:**	ug/L
Lab Code:	K2400669-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Chlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Ethylbenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
m,p-Xylenes	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
o-Xylene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Styrene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromoform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Isopropylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
n-Propylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
2-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
4-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
tert-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
sec-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Isopropyltoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,4-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
n-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Naphthalene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Hexachlorobutadiene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	

BRIX002162

Comments:

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-2-013004	**Units:**	ug/L
Lab Code:	K2400669-002	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	85-112	02/10/04	Acceptable
Toluene-d8	97	93-109	02/10/04	Acceptable
4-Bromofluorobenzene	86	78-114	02/10/04	Acceptable

BRIX002163

Comments:

00067

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-3-013004	**Units:**	ug/L
Lab Code:	K2400669-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Vinyl Chloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichlorofluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Acetone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methyl tert-Butyl Ether	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Disulfide	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methylene Chloride	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Butanone (MEK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
2,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Tetrachloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Benzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichloroethene (TCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromodichloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Hexanone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Toluene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,2-Trichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	

BRIX002164

Comments:

00068

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-3-013004	**Units:**	ug/L
Lab Code:	K2400669-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Chlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Ethylbenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
m,p-Xylenes	**0.63**		0.50	1	02/10/04	02/10/04	KWG0401814	
o-Xylene	**0.73**		0.50	1	02/10/04	02/10/04	KWG0401814	
Styrene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromoform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Isopropylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
n-Propylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
2-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
4-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
tert-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
sec-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Isopropyltoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,4-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
n-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Naphthalene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Hexachlorobutadiene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	

BRIX002165

Comments:

00069

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-3-013004	**Units:**	ug/L
Lab Code:	K2400669-003	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	85-112	02/10/04	Acceptable
Toluene-d8	98	93-109	02/10/04	Acceptable
4-Bromofluorobenzene	89	78-114	02/10/04	Acceptable

BRIX002166

Comments:

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-5-013004	**Units:**	ug/L
Lab Code:	K2400669-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Vinyl Chloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichlorofluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Acetone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methyl tert-Butyl Ether	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Disulfide	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methylene Chloride	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Butanone (MEK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
2,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Tetrachloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Benzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichloroethene (TCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromodichloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Hexanone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Toluene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,2-Trichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	

BRIX002167

Comments:

Confidential Business Information

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2400669
Date Collected: 01/30/2004
Date Received: 02/02/2004

Volatile Organic Compounds

Sample Name: MW-5-013004
Lab Code: K2400669-004

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Chlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Ethylbenzene	**1.8**		0.50	1	02/10/04	02/10/04	KWG0401814	
m,p-Xylenes	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
o-Xylene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Styrene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromoform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Isopropylbenzene	**9.7**		2.0	1	02/10/04	02/10/04	KWG0401814	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
n-Propylbenzene	**49**		2.0	1	02/10/04	02/10/04	KWG0401814	
2-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
4-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
tert-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
sec-Butylbenzene	**38**		2.0	1	02/10/04	02/10/04	KWG0401814	
1,3-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Isopropyltoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,4-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
n-Butylbenzene	**82**	D	10	5	02/12/04	02/12/04	KWG0401881	
1,2-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Naphthalene	**2.9**		2.0	1	02/10/04	02/10/04	KWG0401814	
Hexachlorobutadiene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	

BRIX002168

Comments:

00072

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-5-013004	**Units:**	ug/L
Lab Code:	K2400669-004	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	85-112	02/10/04	Acceptable
Toluene-d8	101	93-109	02/10/04	Acceptable
4-Bromofluorobenzene	92	78-114	02/10/04	Acceptable

BRIX002169

Comments:

00073

Confidential Business Information

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2400669
Date Collected: 01/30/2004
Date Received: 02/02/2004

Volatile Organic Compounds

Sample Name: MW-55-013004
Lab Code: K2400669-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Vinyl Chloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichlorofluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Acetone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methyl tert-Butyl Ether	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Disulfide	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methylene Chloride	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Butanone (MEK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
2,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Tetrachloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Benzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichloroethene (TCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromodichloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Hexanone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Toluene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,2-Trichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	

BRIX002170

Comments:

00074

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-55-013004	**Units:**	ug/L
Lab Code:	K2400669-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Chlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Ethylbenzene	**2.0**		0.50	1	02/10/04	02/10/04	KWG0401814	
m,p-Xylenes	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
o-Xylene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Styrene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromoform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Isopropylbenzene	**11**		2.0	1	02/10/04	02/10/04	KWG0401814	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
n-Propylbenzene	**56**		2.0	1	02/10/04	02/10/04	KWG0401814	
2-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
4-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
tert-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
sec-Butylbenzene	**39**		2.0	1	02/10/04	02/10/04	KWG0401814	
1,3-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Isopropyltoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,4-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
n-Butylbenzene	**84**	D	10	5	02/12/04	02/12/04	KWG0401881	
1,2-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Naphthalene	**3.4**		2.0	1	02/10/04	02/10/04	KWG0401814	
Hexachlorobutadiene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	

BRIX002171

Comments:

00075

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-55-013004	**Units:**	ug/L
Lab Code:	K2400669-005	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	85-112	02/10/04	Acceptable
Toluene-d8	100	93-109	02/10/04	Acceptable
4-Bromofluorobenzene	94	78-114	02/10/04	Acceptable

BRIX002172

Comments:

00076

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-4-013004	**Units:**	ug/L
Lab Code:	K2400669-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Vinyl Chloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichlorofluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Acetone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methyl tert-Butyl Ether	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Disulfide	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methylene Chloride	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Butanone (MEK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
2,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Tetrachloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Benzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichloroethene (TCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromodichloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Hexanone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Toluene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,2-Trichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	

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Comments:

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Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-4-013004	**Units:**	ug/L
Lab Code:	K2400669-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Chlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Ethylbenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
m,p-Xylenes	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
o-Xylene	**0.50**		0.50	1	02/10/04	02/10/04	KWG0401814	
Styrene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromoform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Isopropylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
n-Propylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
2-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
4-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
tert-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
sec-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Isopropyltoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,4-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
n-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Naphthalene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Hexachlorobutadiene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	

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Comments:

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Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-4-013004	**Units:**	ug/L
Lab Code:	K2400669-006	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	85-112	02/10/04	Acceptable
Toluene-d8	98	93-109	02/10/04	Acceptable
4-Bromofluorobenzene	95	78-114	02/10/04	Acceptable

BRIX002175

Comments:

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-7-013004	**Units:**	ug/L
Lab Code:	K2400669-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Vinyl Chloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichlorofluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Acetone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methyl tert-Butyl Ether	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Disulfide	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methylene Chloride	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Butanone (MEK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
2,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Tetrachloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Benzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichloroethene (TCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromodichloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Hexanone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Toluene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,2-Trichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	

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Comments:

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Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-7-013004	**Units:**	ug/L
Lab Code:	K2400669-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Chlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Ethylbenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
m,p-Xylenes	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
o-Xylene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Styrene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromoform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Isopropylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
n-Propylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
2-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
4-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
tert-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
sec-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Isopropyltoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,4-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
n-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Naphthalene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Hexachlorobutadiene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	

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Comments:

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Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-7-013004	**Units:**	ug/L
Lab Code:	K2400669-007	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	85-112	02/10/04	Acceptable
Toluene-d8	98	93-109	02/10/04	Acceptable
4-Bromofluorobenzene	93	78-114	02/10/04	Acceptable

BRIX002178

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-6-013004	**Units:**	ug/L
Lab Code:	K2400669-008	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Vinyl Chloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichlorofluoromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Acetone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methyl tert-Butyl Ether	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Disulfide	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Methylene Chloride	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Butanone (MEK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
2,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Chloroform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Carbon Tetrachloride	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Benzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Trichloroethene (TCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromodichloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromomethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
2-Hexanone	ND	U	20	1	02/10/04	02/10/04	KWG0401814	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Toluene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,2-Trichloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/10/04	02/10/04	KWG0401814	

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Comments:

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Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-6-013004	**Units:**	ug/L
Lab Code:	K2400669-008	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Dibromochloromethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Chlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Ethylbenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
m,p-Xylenes	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
o-Xylene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Styrene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromoform	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Isopropylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichloropropane	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
Bromobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
n-Propylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
2-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
4-Chlorotoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
tert-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
sec-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,3-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
4-Isopropyltoluene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,4-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
n-Butylbenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2-Dichlorobenzene	ND	U	0.50	1	02/10/04	02/10/04	KWG0401814	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Naphthalene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	
Hexachlorobutadiene	ND	U	2.0	1	02/10/04	02/10/04	KWG0401814	

BRIX002180

Comments:

00084

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	MW-6-013004	**Units:**	ug/L
Lab Code:	K2400669-008	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	85-112	02/10/04	Acceptable
Toluene-d8	99	93-109	02/10/04	Acceptable
4-Bromofluorobenzene	91	78-114	02/10/04	Acceptable

BRIX002181

Comments:

00085

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	Trip Blank 8260	**Units:**	ug/L
Lab Code:	K2400669-009	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Chloromethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Vinyl Chloride	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Bromomethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Chloroethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Trichlorofluoromethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Acetone	ND	U	20	1	02/09/04	02/09/04	KWG0401814	
1,1-Dichloroethene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Methyl tert-Butyl Ether	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Carbon Disulfide	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Methylene Chloride	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,1-Dichloroethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
2-Butanone (MEK)	ND	U	20	1	02/09/04	02/09/04	KWG0401814	
2,2-Dichloropropane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Chloroform	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Bromochloromethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,1-Dichloropropene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Carbon Tetrachloride	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Benzene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Trichloroethene (TCE)	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,2-Dichloropropane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Bromodichloromethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Dibromomethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
2-Hexanone	ND	U	20	1	02/09/04	02/09/04	KWG0401814	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Toluene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,1,2-Trichloroethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/09/04	02/09/04	KWG0401814	

BRIX002182

Comments:

00086

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	Trip Blank 8260	**Units:**	ug/L
Lab Code:	K2400669-009	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Dibromochloromethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
Chlorobenzene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Ethylbenzene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
m,p-Xylenes	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
o-Xylene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Styrene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Bromoform	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Isopropylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,2,3-Trichloropropane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Bromobenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
n-Propylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
2-Chlorotoluene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
4-Chlorotoluene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
tert-Butylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
sec-Butylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,3-Dichlorobenzene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
4-Isopropyltoluene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,4-Dichlorobenzene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
n-Butylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,2-Dichlorobenzene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
Naphthalene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
Hexachlorobutadiene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	

BRIX002183

Comments:

00087

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Volatile Organic Compounds

Sample Name:	Trip Blank 8260	**Units:**	ug/L
Lab Code:	K2400669-009	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	85-112	02/09/04	Acceptable
Toluene-d8	97	93-109	02/09/04	Acceptable
4-Bromofluorobenzene	86	78-114	02/09/04	Acceptable

BRIX002184

Comments:

00088

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0401814-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Chloromethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Vinyl Chloride	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Bromomethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Chloroethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Trichlorofluoromethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Acetone	ND	U	20	1	02/09/04	02/09/04	KWG0401814	
1,1-Dichloroethene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Methyl tert-Butyl Ether	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Carbon Disulfide	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Methylene Chloride	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,1-Dichloroethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
2-Butanone (MEK)	ND	U	20	1	02/09/04	02/09/04	KWG0401814	
2,2-Dichloropropane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Chloroform	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Bromochloromethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,1-Dichloropropene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Carbon Tetrachloride	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Benzene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Trichloroethene (TCE)	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,2-Dichloropropane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Bromodichloromethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Dibromomethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
2-Hexanone	ND	U	20	1	02/09/04	02/09/04	KWG0401814	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Toluene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,1,2-Trichloroethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/09/04	02/09/04	KWG0401814	

BRIX002185

Comments:

00089

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0401814-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Dibromochloromethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
Chlorobenzene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Ethylbenzene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
m,p-Xylenes	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
o-Xylene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Styrene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Bromoform	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Isopropylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,2,3-Trichloropropane	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
Bromobenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
n-Propylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
2-Chlorotoluene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
4-Chlorotoluene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
tert-Butylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
sec-Butylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,3-Dichlorobenzene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
4-Isopropyltoluene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,4-Dichlorobenzene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
n-Butylbenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,2-Dichlorobenzene	ND	U	0.50	1	02/09/04	02/09/04	KWG0401814	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
Naphthalene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	
Hexachlorobutadiene	ND	U	2.0	1	02/09/04	02/09/04	KWG0401814	

BRIX002186

Comments:

00090

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0401814-4	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	85-112	02/09/04	Acceptable
Toluene-d8	98	93-109	02/09/04	Acceptable
4-Bromofluorobenzene	88	78-114	02/09/04	Acceptable

BRIX002187

Comments:

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0401881-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Chloromethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Vinyl Chloride	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Bromomethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Chloroethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Trichlorofluoromethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Acetone	ND	U	20	1	02/11/04	02/11/04	KWG0401881	
1,1-Dichloroethene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Methyl tert-Butyl Ether	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Carbon Disulfide	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Methylene Chloride	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
1,1-Dichloroethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
2-Butanone (MEK)	ND	U	20	1	02/11/04	02/11/04	KWG0401881	
2,2-Dichloropropane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Chloroform	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Bromochloromethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
1,1-Dichloropropene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Carbon Tetrachloride	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Benzene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Trichloroethene (TCE)	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
1,2-Dichloropropane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Bromodichloromethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Dibromomethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
2-Hexanone	ND	U	20	1	02/11/04	02/11/04	KWG0401881	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Toluene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
1,1,2-Trichloroethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/11/04	02/11/04	KWG0401881	

BRIX002188

Comments:

00092

Confidential Business Information

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2400669
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0401881-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Dibromochloromethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
Chlorobenzene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Ethylbenzene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
m,p-Xylenes	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
o-Xylene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Styrene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Bromoform	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Isopropylbenzene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
1,2,3-Trichloropropane	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
Bromobenzene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
n-Propylbenzene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
2-Chlorotoluene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
4-Chlorotoluene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
tert-Butylbenzene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
sec-Butylbenzene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
1,3-Dichlorobenzene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
4-Isopropyltoluene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
1,4-Dichlorobenzene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
n-Butylbenzene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
1,2-Dichlorobenzene	ND	U	0.50	1	02/11/04	02/11/04	KWG0401881	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
Naphthalene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	
Hexachlorobutadiene	ND	U	2.0	1	02/11/04	02/11/04	KWG0401881	

BRIX002189

Comments:

00093

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0401881-4	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	85-112	02/11/04	Acceptable
Toluene-d8	98	93-109	02/11/04	Acceptable
4-Bromofluorobenzene	88	78-114	02/11/04	Acceptable

BRIX002190

Comments:

00094

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2400669

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
MW-1-013004	K2400669-001	98	102	95
MW-2-013004	K2400669-002	102	97	86
MW-3-013004	K2400669-003	101	98	89
MW-5-013004	K2400669-004	99	101	92
MW-55-013004	K2400669-005	97	100	94
MW-4-013004	K2400669-006	97	98	95
MW-7-013004	K2400669-007	98	98	93
MW-6-013004	K2400669-008	99	99	91
Trip Blank 8260	K2400669-009	98	97	86
Method Blank	KWG0401814-4	100	98	88
Method Blank	KWG0401881-4	100	98	88
MW-2-013004MS	KWG0401814-1	102	105	101
MW-2-013004DMS	KWG0401814-2	100	104	103
Lab Control Sample	KWG0401814-3	101	104	101
Lab Control Sample	KWG0401881-3	100	105	101

Surrogate Recovery Control Limits (%)

Sur1 =	Dibromofluoromethane	85-112
Sur2 =	Toluene-d8	93-109
Sur3 =	4-Bromofluorobenzene	78-114

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

BRIX002191

00095

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Extracted:**	02/09/2004
Sample Matrix:	Water	**Date Analyzed:**	02/09/2004

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	MW-2-013004	**Units:**	ug/L
Lab Code:	K2400669-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	KWG0401814

Analyte Name	Sample Result	MW-2-013004MS KWG0401814-1 Matrix Spike			MW-2-013004DMS KWG0401814-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,1-Dichloroethene	ND	12.8	10.0	128	12.6	10.0	126	66-147	2	30
Benzene	ND	11.7	10.0	117	11.5	10.0	115	81-130	2	30
Trichloroethene (TCE)	ND	11.3	10.0	113	11.2	10.0	112	63-138	1	30
Toluene	ND	11.2	10.0	112	11.1	10.0	111	76-130	1	30
Chlorobenzene	ND	10.7	10.0	107	10.7	10.0	107	77-123	0	30
1,2-Dichlorobenzene	ND	10.9	10.0	109	10.8	10.0	108	73-125	1	30
Naphthalene	ND	10.5	10.0	105	11.2	10.0	112	54-160	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

BRIX002192

00096

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Extracted:**	02/09/2004
Sample Matrix:	Water	**Date Analyzed:**	02/09/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0401814

	Lab Control Sample KWG0401814-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	11.8	10.0	118	52-179
Chloromethane	10.6	10.0	106	58-129
Vinyl Chloride	10.6	10.0	106	74-138
Bromomethane	10.8	10.0	108	48-140
Chloroethane	10.4	10.0	104	66-126
Trichlorofluoromethane	10.6	10.0	106	69-129
Acetone	58.9	50.0	118	68-140
1,1-Dichloroethene	11.4	10.0	114	76-128
Methyl tert-Butyl Ether	9.86	10.0	99	67-117
Carbon Disulfide	26.4	20.0	132	69-147
Methylene Chloride	12.0	10.0	120 *	75-119
trans-1,2-Dichloroethene	10.7	10.0	107	79-118
1,1-Dichloroethane	10.6	10.0	106	76-120
2-Butanone (MEK)	56.0	50.0	112	75-129
2,2-Dichloropropane	11.4	10.0	114	60-142
cis-1,2-Dichloroethene	10.9	10.0	109	81-119
Chloroform	11.0	10.0	110	80-120
Bromochloromethane	11.0	10.0	110	79-125
1,1,1-Trichloroethane (TCA)	11.9	10.0	119	80-127
1,1-Dichloropropene	10.4	10.0	104	79-128
Carbon Tetrachloride	13.8	10.0	138 *	76-137
1,2-Dichloroethane (EDC)	10.8	10.0	108	76-125
Benzene	10.9	10.0	109	87-122
Trichloroethene (TCE)	10.6	10.0	106	82-124
1,2-Dichloropropane	9.97	10.0	100	80-117
Bromodichloromethane	12.6	10.0	126 *	81-120
Dibromomethane	10.6	10.0	106	81-121
2-Hexanone	51.6	50.0	103	65-135
cis-1,3-Dichloropropene	11.2	10.0	112	82-126
Toluene	10.4	10.0	104	84-120
trans-1,3-Dichloropropene	10.4	10.0	104	76-116
1,1,2-Trichloroethane	10.3	10.0	103	80-120
4-Methyl-2-pentanone (MIBK)	54.1	50.0	108	69-134
1,3-Dichloropropane	10.3	10.0	103	82-119
Tetrachloroethene (PCE)	10.6	10.0	106	79-123

BRIX002193

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00097

Confidential Business Information

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2400669
Date Extracted: 02/09/2004
Date Analyzed: 02/09/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0401814

Analyte Name	Lab Control Sample KWG0401814-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Dibromochloromethane	13.1	10.0	131 *	78-121
1,2-Dibromoethane (EDB)	10.5	10.0	105	78-121
Chlorobenzene	10.3	10.0	103	85-114
1,1,1,2-Tetrachloroethane	12.5	10.0	125 *	85-122
Ethylbenzene	10.8	10.0	108	89-124
m,p-Xylenes	22.1	20.0	110	89-126
o-Xylene	10.6	10.0	106	86-129
Styrene	10.9	10.0	109	90-130
Bromoform	15.2	10.0	152 *	80-126
Isopropylbenzene	9.54	10.0	95	76-127
1,1,2,2-Tetrachloroethane	10.1	10.0	101	66-127
1,2,3-Trichloropropane	10.6	10.0	106	76-125
Bromobenzene	10.9	10.0	109	84-121
n-Propylbenzene	10.7	10.0	107	83-134
2-Chlorotoluene	11.2	10.0	112	81-131
4-Chlorotoluene	10.5	10.0	105	80-129
1,3,5-Trimethylbenzene	11.2	10.0	112	85-131
tert-Butylbenzene	10.7	10.0	107	81-132
1,2,4-Trimethylbenzene	11.7	10.0	117	86-138
sec-Butylbenzene	10.8	10.0	108	82-137
1,3-Dichlorobenzene	10.7	10.0	107	85-119
4-Isopropyltoluene	10.1	10.0	101	78-131
1,4-Dichlorobenzene	10.3	10.0	103	83-116
n-Butylbenzene	10.3	10.0	103	73-138
1,2-Dichlorobenzene	10.6	10.0	106	82-117
1,2-Dibromo-3-chloropropane	11.6	10.0	116	66-123
1,2,4-Trichlorobenzene	11.1	10.0	111	74-136
1,2,3-Trichlorobenzene	11.2	10.0	112	72-137
Naphthalene	11.0	10.0	110	64-145
Hexachlorobutadiene	11.2	10.0	112	75-130

BRIX002194

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00098

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Extracted:**	02/11/2004
Sample Matrix:	Water	**Date Analyzed:**	02/11/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0401881

	Lab Control Sample KWG0401881-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	9.60	10.0	96	52-179
Chloromethane	9.57	10.0	96	58-129
Vinyl Chloride	9.76	10.0	98	74-138
Bromomethane	8.08	10.0	81	48-140
Chloroethane	9.68	10.0	97	66-126
Trichlorofluoromethane	9.85	10.0	99	69-129
Acetone	57.5	50.0	115	68-140
1,1-Dichloroethene	10.7	10.0	107	76-128
Methyl tert-Butyl Ether	9.50	10.0	95	67-117
Carbon Disulfide	24.8	20.0	124	69-147
Methylene Chloride	12.0	10.0	120 *	75-119
trans-1,2-Dichloroethene	10.5	10.0	105	79-118
1,1-Dichloroethane	10.3	10.0	103	76-120
2-Butanone (MEK)	53.1	50.0	106	75-129
2,2-Dichloropropane	11.2	10.0	112	60-142
cis-1,2-Dichloroethene	10.5	10.0	105	81-119
Chloroform	10.7	10.0	107	80-120
Bromochloromethane	10.8	10.0	108	79-125
1,1,1-Trichloroethane (TCA)	11.4	10.0	114	80-127
1,1-Dichloropropene	9.99	10.0	100	79-128
Carbon Tetrachloride	13.3	10.0	133	76-137
1,2-Dichloroethane (EDC)	10.9	10.0	109	76-125
Benzene	10.7	10.0	107	87-122
Trichloroethene (TCE)	10.0	10.0	100	82-124
1,2-Dichloropropane	9.86	10.0	99	80-117
Bromodichloromethane	12.5	10.0	125 *	81-120
Dibromomethane	10.3	10.0	103	81-121
2-Hexanone	49.1	50.0	98	65-135
cis-1,3-Dichloropropene	11.0	10.0	110	82-126
Toluene	10.3	10.0	103	84-120
trans-1,3-Dichloropropene	9.88	10.0	99	76-116
1,1,2-Trichloroethane	9.86	10.0	99	80-120
4-Methyl-2-pentanone (MIBK)	51.5	50.0	103	69-134
1,3-Dichloropropane	9.92	10.0	99	82-119
Tetrachloroethene (PCE)	9.81	10.0	98	79-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

BRIX002195

00099

Confidential Business Information

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2400669
Date Extracted: 02/11/2004
Date Analyzed: 02/11/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0401881

Analyte Name	Lab Control Sample KWG0401881-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Dibromochloromethane	12.7	10.0	127 *	78-121
1,2-Dibromoethane (EDB)	9.90	10.0	99	78-121
Chlorobenzene	9.92	10.0	99	85-114
1,1,1,2-Tetrachloroethane	11.9	10.0	119	85-122
Ethylbenzene	10.2	10.0	102	89-124
m,p-Xylenes	20.9	20.0	105	89-126
o-Xylene	9.99	10.0	100	86-129
Styrene	10.6	10.0	106	90-130
Bromoform	14.6	10.0	146 *	80-126
Isopropylbenzene	9.00	10.0	90	76-127
1,1,2,2-Tetrachloroethane	9.81	10.0	98	66-127
1,2,3-Trichloropropane	9.95	10.0	100	76-125
Bromobenzene	10.5	10.0	105	84-121
n-Propylbenzene	9.93	10.0	99	83-134
2-Chlorotoluene	10.7	10.0	107	81-131
4-Chlorotoluene	10.1	10.0	101	80-129
1,3,5-Trimethylbenzene	10.4	10.0	104	85-131
tert-Butylbenzene	9.93	10.0	99	81-132
1,2,4-Trimethylbenzene	11.0	10.0	110	86-138
sec-Butylbenzene	9.93	10.0	99	82-137
1,3-Dichlorobenzene	10.2	10.0	102	85-119
4-Isopropyltoluene	9.52	10.0	95	78-131
1,4-Dichlorobenzene	10.1	10.0	101	83-116
n-Butylbenzene	9.55	10.0	96	73-138
1,2-Dichlorobenzene	10.2	10.0	102	82-117
1,2-Dibromo-3-chloropropane	10.8	10.0	108	66-123
1,2,4-Trichlorobenzene	10.7	10.0	107	74-136
1,2,3-Trichlorobenzene	10.8	10.0	108	72-137
Naphthalene	10.3	10.0	103	64-145
Hexachlorobutadiene	10.6	10.0	106	75-130

BRIX002196

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00100

Confidential Business Information

Polynuclear Aromatic Hydrocarbons

BRIX002197

00101

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-1-013004	**Units:**	ug/L
Lab Code:	K2400669-001	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**110**	D	1.0	50	02/04/04	02/17/04	KWG0401400	
2-Methylnaphthalene	**40**	D	1.0	50	02/04/04	02/17/04	KWG0401400	
Acenaphthylene	**0.15**	UB	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthene	**0.17**		0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenzofuran	**0.032**		0.020	1	02/04/04	02/13/04	KWG0401400	
Fluorene	**0.11**		0.020	1	02/04/04	02/13/04	KWG0401400	
Phenanthrene	**0.16**		0.020	1	02/04/04	02/13/04	KWG0401400	
Anthracene	**0.073**		0.020	1	02/04/04	02/13/04	KWG0401400	
Fluoranthene	**0.39**		0.020	1	02/04/04	02/13/04	KWG0401400	
Pyrene	**1.6**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benz(a)anthracene	**0.20**		0.020	1	02/04/04	02/13/04	KWG0401400	
Chrysene	**0.24**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(b)fluoranthene	**0.047**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(k)fluoranthene	**0.053**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(a)pyrene	**0.064**		0.020	1	02/04/04	02/13/04	KWG0401400	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenz(a,h)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(g,h,i)perylene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	62	37-107	02/13/04	Acceptable
Fluoranthene-d10	65	18-137	02/13/04	Acceptable
Terphenyl-d14	83	18-153	02/13/04	Acceptable

BRIX002198

Comments:

001102

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-2-013004	**Units:**	ug/L
Lab Code:	K2400669-002	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.037**		0.020	1	02/04/04	02/13/04	KWG0401400	
2-Methylnaphthalene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthylene	**0.11**	UB	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenzofuran	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Fluorene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Phenanthrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Anthracene	**0.034**		0.020	1	02/04/04	02/13/04	KWG0401400	
Fluoranthene	**0.022**		0.020	1	02/04/04	02/13/04	KWG0401400	
Pyrene	**0.020**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benz(a)anthracene	**0.020**		0.020	1	02/04/04	02/13/04	KWG0401400	
Chrysene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(b)fluoranthene	**0.020**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(k)fluoranthene	**0.023**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(a)pyrene	**0.035**		0.020	1	02/04/04	02/13/04	KWG0401400	
Indeno(1,2,3-cd)pyrene	**0.022**		0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenz(a,h)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(g,h,i)perylene	**0.020**		0.020	1	02/04/04	02/13/04	KWG0401400	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	74	37-107	02/13/04	Acceptable
Fluoranthene-d10	80	18-137	02/13/04	Acceptable
Terphenyl-d14	95	18-153	02/13/04	Acceptable

BRIX002199

Comments:

00103

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-3-013004	**Units:**	ug/L
Lab Code:	K2400669-003	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.11**		0.020	1	02/04/04	02/13/04	KWG0401400	
2-Methylnaphthalene	**0.15**		0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthylene	**0.14**	UB	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthene	**0.040**		0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenzofuran	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Fluorene	**0.037**		0.020	1	02/04/04	02/13/04	KWG0401400	
Phenanthrene	**0.058**		0.020	1	02/04/04	02/13/04	KWG0401400	
Anthracene	**0.032**		0.020	1	02/04/04	02/13/04	KWG0401400	
Fluoranthene	**0.075**		0.020	1	02/04/04	02/13/04	KWG0401400	
Pyrene	**0.090**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benz(a)anthracene	**0.022**		0.020	1	02/04/04	02/13/04	KWG0401400	
Chrysene	**0.023**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(b)fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(k)fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(a)pyrene	**0.036**		0.020	1	02/04/04	02/13/04	KWG0401400	
Indeno(1,2,3-cd)pyrene	**0.020**		0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenz(a,h)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(g,h,i)perylene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	47	37-107	02/13/04	Acceptable
Fluoranthene-d10	47	18-137	02/13/04	Acceptable
Terphenyl-d14	47	18-153	02/13/04	Acceptable

BRIX002200

Comments:

00104

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-5-013004	**Units:**	ug/L
Lab Code:	K2400669-004	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**2.9**		0.020	1	02/04/04	02/13/04	KWG0401400	
2-Methylnaphthalene	**1.5**		0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthylene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthene	**0.62**		0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenzofuran	**0.081**		0.020	1	02/04/04	02/13/04	KWG0401400	
Fluorene	**0.48**		0.020	1	02/04/04	02/13/04	KWG0401400	
Phenanthrene	**1.1**		0.020	1	02/04/04	02/13/04	KWG0401400	
Anthracene	**0.34**		0.020	1	02/04/04	02/13/04	KWG0401400	
Fluoranthene	**1.5**		0.020	1	02/04/04	02/13/04	KWG0401400	
Pyrene	**1.8**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benz(a)anthracene	**0.18**		0.020	1	02/04/04	02/13/04	KWG0401400	
Chrysene	**0.22**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(b)fluoranthene	**0.046**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(k)fluoranthene	**0.046**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(a)pyrene	**0.061**		0.020	1	02/04/04	02/13/04	KWG0401400	
Indeno(1,2,3-cd)pyrene	**0.030**		0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenz(a,h)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(g,h,i)perylene	**0.029**		0.020	1	02/04/04	02/13/04	KWG0401400	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	60	37-107	02/13/04	Acceptable
Fluoranthene-d10	65	18-137	02/13/04	Acceptable
Terphenyl-d14	59	18-153	02/13/04	Acceptable

BRIX002201

Comments:

00105

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-55-013004	**Units:**	ug/L
Lab Code:	K2400669-005	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**2.1**		0.020	1	02/04/04	02/13/04	KWG0401400	
2-Methylnaphthalene	**1.1**		0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthylene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthene	**0.45**		0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenzofuran	**0.057**		0.020	1	02/04/04	02/13/04	KWG0401400	
Fluorene	**0.32**		0.020	1	02/04/04	02/13/04	KWG0401400	
Phenanthrene	**0.75**		0.020	1	02/04/04	02/13/04	KWG0401400	
Anthracene	**0.24**		0.020	1	02/04/04	02/13/04	KWG0401400	
Fluoranthene	**1.1**		0.020	1	02/04/04	02/13/04	KWG0401400	
Pyrene	**1.4**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benz(a)anthracene	**0.14**		0.020	1	02/04/04	02/13/04	KWG0401400	
Chrysene	**0.17**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(b)fluoranthene	**0.035**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(k)fluoranthene	**0.041**		0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(a)pyrene	**0.050**		0.020	1	02/04/04	02/13/04	KWG0401400	
Indeno(1,2,3-cd)pyrene	**0.022**		0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenz(a,h)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(g,h,i)perylene	**0.024**		0.020	1	02/04/04	02/13/04	KWG0401400	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	46	37-107	02/13/04	Acceptable
Fluoranthene-d10	49	18-137	02/13/04	Acceptable
Terphenyl-d14	58	18-153	02/13/04	Acceptable

BRIX002202

Comments:

00166

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-4-013004	**Units:**	ug/L
Lab Code:	K2400669-006	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.074**		0.020	1	02/04/04	02/13/04	KWG0401400	
2-Methylnaphthalene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthylene	**0.053**	B	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthene	**0.16**		0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenzofuran	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Fluorene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Phenanthrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benz(a)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Chrysene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(b)fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(k)fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(a)pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenz(a,h)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(g,h,i)perylene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	64	37-107	02/13/04	Acceptable
Fluoranthene-d10	74	18-137	02/13/04	Acceptable
Terphenyl-d14	87	18-153	02/13/04	Acceptable

BRIX002203

Comments:

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-7-013004	**Units:**	ug/L
Lab Code:	K2400669-007	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
2-Methylnaphthalene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthylene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenzofuran	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Fluorene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Phenanthrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benz(a)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Chrysene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(b)fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(k)fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(a)pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenz(a,h)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(g,h,i)perylene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	68	37-107	02/13/04	Acceptable
Fluoranthene-d10	72	18-137	02/13/04	Acceptable
Terphenyl-d14	76	18-153	02/13/04	Acceptable

BRIX002204

Comments:

00108

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	01/30/2004
Sample Matrix:	Water	**Date Received:**	02/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-6-013004	**Units:**	ug/L
Lab Code:	K2400669-008	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
2-Methylnaphthalene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthylene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthene	**0.042**		0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenzofuran	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Fluorene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Phenanthrene	**0.025**		0.020	1	02/04/04	02/13/04	KWG0401400	
Anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benz(a)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Chrysene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(b)fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(k)fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(a)pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenz(a,h)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(g,h,i)perylene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	43	37-107	02/13/04	Acceptable
Fluoranthene-d10	47	18-137	02/13/04	Acceptable
Terphenyl-d14	32	18-153	02/13/04	Acceptable

BRIX002205

Comments:

00169

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0401400-4	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
2-Methylnaphthalene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthylene	**0.13**		0.020	1	02/04/04	02/13/04	KWG0401400	
Acenaphthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenzofuran	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Fluorene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Phenanthrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benz(a)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Chrysene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(b)fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(k)fluoranthene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(a)pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Dibenz(a,h)anthracene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	
Benzo(g,h,i)perylene	ND	U	0.020	1	02/04/04	02/13/04	KWG0401400	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	67	37-107	02/13/04	Acceptable
Fluoranthene-d10	73	18-137	02/13/04	Acceptable
Terphenyl-d14	80	18-153	02/13/04	Acceptable

BRIX002206

Comments:

00110

Confidential Business Information

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2400669

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3535
Analysis Method: 8270C SIM

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
MW-1-013004	K2400669-001	62	65	83
MW-2-013004	K2400669-002	74	80	95
MW-3-013004	K2400669-003	47	47	47
MW-5-013004	K2400669-004	60	65	59
MW-55-013004	K2400669-005	46	49	58
MW-4-013004	K2400669-006	64	74	87
MW-7-013004	K2400669-007	68	72	76
MW-6-013004	K2400669-008	43	47	32
Method Blank	KWG0401400-4	67	73	80
MW-2-013004MS	KWG0401400-1	73	79	93
Duplicate Lab Control Sample	KWG0401400-2	64	68	66
Lab Control Sample	KWG0401400-3	59	69	72

Surrogate Recovery Control Limits (%)

Sur1 = Fluorene-d10	37-107
Sur2 = Fluoranthene-d10	18-137
Sur3 = Terphenyl-d14	18-153

BRIX002207

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

0011

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Extracted:**	02/04/2004
Sample Matrix:	Water	**Date Analyzed:**	02/13/2004

Matrix Spike Summary
Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-2-013004	**Units:**	ug/L
Lab Code:	K2400669-002	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM	**Extraction Lot:**	KWG0401400

		MW-2-013004MS KWG0401400-1 Matrix Spike			
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Naphthalene	0.037	3.55	4.81	73	28-110
2-Methylnaphthalene	ND	3.69	4.81	77	29-107
Acenaphthylene	0.11	3.83	4.81	77	42-112
Acenaphthene	ND	3.76	4.81	78	41-105
Dibenzofuran	ND	3.18	4.81	66	42-107
Fluorene	ND	3.99	4.81	83	40-115
Phenanthrene	ND	4.01	4.81	83	40-112
Anthracene	0.034	4.21	4.81	87	25-118
Fluoranthene	0.022	4.22	4.81	87	32-131
Pyrene	0.020	4.11	4.81	85	27-131
Benz(a)anthracene	0.020	4.34	4.81	90	21-133
Chrysene	ND	4.27	4.81	89	24-128
Benzo(b)fluoranthene	0.020	4.56	4.81	94	17-142
Benzo(k)fluoranthene	0.023	4.28	4.81	89	19-135
Benzo(a)pyrene	0.035	4.41	4.81	91	10-146
Indeno(1,2,3-cd)pyrene	0.022	4.89	4.81	101	16-145
Dibenz(a,h)anthracene	ND	4.66	4.81	97	16-142
Benzo(g,h,i)perylene	0.020	4.34	4.81	90	18-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

BRIX002208

00112

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2400669
Project:	BRIX Maritime/990056-01	**Date Extracted:**	02/04/2004
Sample Matrix:	Water	**Date Analyzed:**	02/13/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method:	EPA 3535	**Units:**	ug/L
Analysis Method:	8270C SIM	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0401400

	Lab Control Sample KWG0401400-3 Lab Control Spike			Duplicate Lab Control Sample KWG0401400-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Naphthalene	3.13	5.00	63	3.34	5.00	67	44-101	7	30
2-Methylnaphthalene	3.25	5.00	65	3.38	5.00	68	36-106	4	30
Acenaphthylene	3.46	5.00	69	3.36	5.00	67	49-114	3	30
Acenaphthene	3.26	5.00	65	3.34	5.00	67	48-107	3	30
Dibenzofuran	2.80	5.00	56	2.88	5.00	58	40-115	3	30
Fluorene	3.61	5.00	72	3.59	5.00	72	55-111	0	30
Phenanthrene	3.79	5.00	76	3.71	5.00	74	56-108	2	30
Anthracene	4.13	5.00	83	3.94	5.00	79	42-117	4	30
Fluoranthene	4.09	5.00	82	3.87	5.00	77	61-123	6	30
Pyrene	3.90	5.00	78	3.79	5.00	76	53-123	3	30
Benz(a)anthracene	4.08	5.00	82	3.95	5.00	79	53-123	3	30
Chrysene	4.02	5.00	80	3.91	5.00	78	57-118	3	30
Benzo(b)fluoranthene	4.18	5.00	84	4.03	5.00	81	57-132	4	30
Benzo(k)fluoranthene	4.18	5.00	84	4.04	5.00	81	54-126	3	30
Benzo(a)pyrene	4.18	5.00	84	4.04	5.00	81	38-142	3	30
Indeno(1,2,3-cd)pyrene	4.60	5.00	92	4.29	5.00	86	49-139	7	30
Dibenz(a,h)anthracene	4.42	5.00	88	4.08	5.00	82	47-138	8	30
Benzo(g,h,i)perylene	4.14	5.00	83	3.77	5.00	75	50-125	9	30

BRIX002209

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00113

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Appendix C
Data Validation Review

BRIX002210

LABORATORY DATA REVIEW

BRIX Maritime

January 2004

This report presents a review of the samples collected from BRIX Maritime on January 30, 2004. Samples were analyzed by Columbia Analytical Services, Inc. (CAS), in Kelso, Washington. Laboratory SDG K2400669 was reviewed.

Data Qualifications

The following comments refer to the laboratory's performance in meeting the quality control (QC) specifications outlined in the analytical procedures and the Quality Assurance Project Plan (QAPP). Analytical results were reviewed using *USEPA National Functional Guidelines for Inorganics Data Review* (USEPA, 2002), and *USEPA National Functional Guidelines for Organics Data Review* (USEPA, 1999), and applying laboratory and method QC criteria.

The laboratory Sample Receipt Form states that the cooler temperatures were within ±4°C upon arrival at the laboratory. Sample transport and handling were acceptable.

Unless specifically noted in this report, laboratory results were within QC criteria.

Holding Times

All sample analyses were conducted within recommended holding times. No data were qualified due to these results.

Method Reporting Limits (MRLs)

The MRLs were acceptable.

Method Blanks

Method blanks were analyzed at the required frequency for all analyses. The method blanks were free of contamination for metals, gasoline, diesel and VOCs. No data were qualified due to these results. The PAH method blank was contaminated with acenaphthylene (0.13 ug/kg) associated results within 5x the method blank detection were qualified as non-detects (U). The following samples had acenaphthylene results qualified as U: MW-1-013004, MW-2-013004, MW-3-013004 and MW-4-013004.

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Trip and Field Blanks

One trip blank was submitted with the samples and analyzed for VOCs. The trip blank was free of contamination. No data were qualified due to these results.

No field blanks were collected. No data were qualified due to these results.

Field Duplicates

One field duplicate was submitted with the samples; MW-5-013004 / MW-55-013004. The field duplicate results were comparable. The PAH relative percent differences (RPDs%) ranged from 11.5-40%. The RPD for metals, gas, diesel and VOCs were below 30%.

Surrogate Recoveries

Surrogate recoveries were reported for all organic analyses. Surrogate percent recoveries were within the control limits; no data were qualified due to these results.

Laboratory Duplicate Results

The laboratory analyzed duplicates at the required frequency. All lab duplicates were within acceptable RPD limits; no data were qualified due to these results.

Matrix Spike/Matrix Spike Duplicate Results

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were conducted at the required frequency. All MS/MSD results were within permissible RPD levels and no data were qualified due to these results.

Laboratory Control Sample Results

Laboratory control sample (LCS) analyses were conducted at the required frequency. Four of the analytes in VOC LCS-KWG0401814-3 and four of the analytes in VOC LCS-KWG0401881-3 had %Rs slightly above the laboratory control limits. Only VOC results above the reporting limits are affected; however all results were non-detect (ND). No data were qualified due to these results.

Completeness

The results reported by the laboratory were checked against chain-of-custody entries to determine if all of the requested analyses were completed. All requested analyses were conducted.

Overall Assessment

The data are judged to be acceptable, as qualified, for their intended use.

Sample ID	Analyte	Original Result	Qualified Result	Reason
MW-1-013004	Acenaphthylene	0.15 B	0.15 UB	Method Blank Contamination
MW-2-013004	Acenaphthylene	0.11 B	0.11 UB	Method Blank Contamination
MW-3-013004	Acenaphthylene	0.14 B	0.14 UB	Method Blank Contamination
MW-4-013004	Acenaphthylene	0.053 B	0.053 UB	Method Blank Contamination

REFERENCES

USEPA. 1986. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA. 2002. USEPA National Functional Guidelines for Inorganics Data Review. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency. EPA 540/R-01/008. July.

USEPA. 1999. USEPA National Functional Guidelines for Organics Data Review. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency. EPA 540/R-99/008. October.

PROGRESS REPORT – SECOND QUARTER 2004

BRIX MARITIME COMPANY
PORTLAND, OREGON

Prepared for

Brix Maritime Company

Prepared by

Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224

July 15, 2004

ANCHOR ENVIRONMENTAL, L.L.C.

PROGRESS REPORT – SECOND QUARTER 2004

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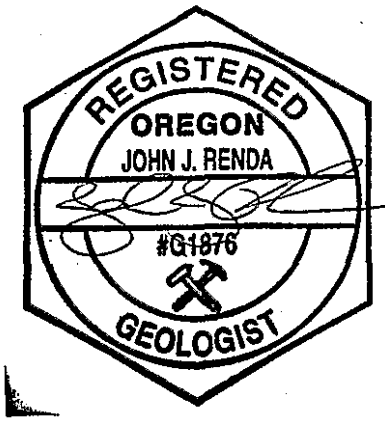
July 15, 2004

Progress Report – Second Quarter 2004

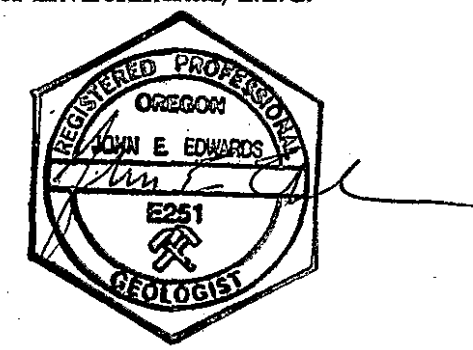
Brix Maritime Company

Portland, Oregon

The material and data in this report were prepared under the supervision and direction of the undersigned.



John J. Renda, R.G.
Anchor Environmental, L.L.C.



John Edwards, R.G. C.E.G.
Anchor Environmental, L.L.C.

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Appendix B – Laboratory Report
Appendix C – Data Validation Review

1 INTRODUCTION

This Progress Report was prepared in accordance with Section II(H) of the Oregon Department of Environmental Quality (DEQ) Voluntary Agreement for Remedial Investigation and Source Control Measures (ECSI 2464 No. LQDVC-NWR-02-03). This report covers the work completed during the quarter ending June 30, 2004 for the Brix Maritime site in Portland, Oregon (Figure 1) and is divided into the following subject areas:

- Actions Taken During the Second Quarter
- Actions Scheduled for the Third Quarter
- Data Generated in the Second Quarter
- Summaries of Problems and Actions Taken To Resolve Problems

2 ACTIONS TAKEN DURING THE SECOND QUARTER

- Anchor submitted the First Quarter 2004 progress report to DEQ on April 15, 2004.
- Water levels were measured in monitoring wells MW-1 through MW-7 and at the river staff gauge on April 29 and May 27, 2004.
- Monitoring wells MW-1, -2, -3, -4, -6, and -7 were sampled on April 29, 2004, MW-5 had insufficient water for sample collection.
- Met DEQ project manager at Brix for a site reconnaissance on April 22, 2004.
- In response to DEQ's February 25, 2004 comment letter on the Remedial Investigation Work Plan, Anchor submitted an April 30, 2004 response letter to DEQ.
- Met with DEQ on May 25, 2004 to discuss the RI status and Anchor's April 30, 2004 response letter.
- Submitted Revised Draft Remedial Investigation Work Plan by email to DEQ on June 24, 2004

3 ACTIONS SCHEDULED FOR THE THIRD QUARTER

- Monitoring wells MW-1 through MW-7 will be sampled in July 2004.
- Anchor will prepare and submit the Second Quarter Progress Report (this report) to DEQ.
- Anchor plans to submit Final Remedial Investigation Work Plan to DEQ during third quarter 2004.

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4 DATA GENERATED IN THE SECOND QUARTER

4.1 Hydrology Data and Potentiometric Surface Map

Water levels were measured in all onsite monitoring wells and at the river staff gauge on April 29 and May 27, 2004. Water levels and groundwater elevations based on the 1988 North American Vertical Datum (NAVD 88) are presented in Table 1.

A groundwater potentiometric surface map, using the April 29, 2004 measurements, is shown on Figure 2. Consistent with all past monitoring events, the contour pattern indicates that shallow groundwater flows west to east from the upland portion of the site to the river.

During the monthly water level measurements, the river bank was examined for petroleum hydrocarbon seeps or sheens. No petroleum hydrocarbon seeps or sheens were observed.

4.2 Groundwater Sampling

Monitoring wells MW-1, -2, -3, -4, -6, and -7 were sampled on April 29, 2004. Monitoring well MW-5 had insufficient water for sample collection. Field sampling procedures, field parameters, field sampling data sheets, and chain of custody documentation are in Appendix A.

4.3 Groundwater Analytical Testing

The groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by NWTPH-Gx; TPH as diesel and heavy oils by NWTPH-Dx; Polycyclic Aromatic Hydrocarbons (PAHs) by U.S. Environmental Protection Agency (USEPA) Method 8270-SIM; Volatile Organic Compounds (VOCs) by USEPA Method 8260+MTBE; and both total and dissolved lead by USEPA method 200.8. The analytical results are presented in Tables 2 through 5. A copy of the laboratory report is in Appendix B.

4.4 Data Validation

Review of the sampling and laboratory records showed no apparent discrepancies between samples collected in the field and those analyzed in the laboratory. The data

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are judged to be acceptable for their intended use. The data validation review of the laboratory records is summarized in Appendix C.

5 SUMMARIES OF PROBLEMS AND ACTIONS TAKEN TO RESOLVE PROBLEMS

No problems were encountered.

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PROGRESS REPORT – SECOND QUARTER 2004

BRIX MARITIME COMPANY
PORTLAND, OREGON

Prepared for

Brix Maritime Company

Prepared by

Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
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July 15, 2004

ANCHOR ENVIRONMENTAL, L.L.C.

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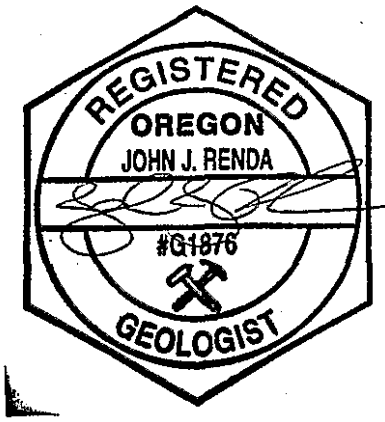

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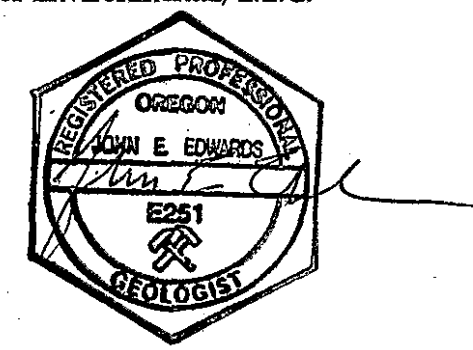

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4.4 Data Validation

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are judged to be acceptable for their intended use. The data validation review of the laboratory records is summarized in Appendix C.

5 SUMMARIES OF PROBLEMS AND ACTIONS TAKEN TO RESOLVE PROBLEMS

No problems were encountered.

Confidential Business Information

Tables

TABLES

Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.						Site: Brix Maritime
						Project No.: 990056-01
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
Monitoring Wells						
MW-1	41.81	34.7-19.7	02/28/03	18.89	22.92	
MW-1	41.81	34.7-19.7	03/31/03	19.43	22.38	
MW-1	41.81	34.7-19.7	04/29/03	19.69	22.12	
MW-1	41.81	34.7-19.7	05/22/03	20.22	21.59	
MW-1	41.81	34.7-19.7	07/07/03	21.08	20.73	
MW-1	41.81	34.7-19.7	07/30/03	21.13	20.68	
MW-1	41.81	34.7-19.7	08/28/03	21.24	20.57	
MW-1	41.81	34.7-19.7	09/30/03	21.15	20.66	
MW-1	41.81	34.7-19.7	10/16/03	21.10	20.71	
MW-1	41.81	34.7-19.7	12/03/03	21.06	20.75	
MW-1	41.81	34.7-19.7	12/26/03	20.46	21.35	
MW-1	41.81	34.7-19.7	01/30/04	19.01	22.80	
MW-1	41.81	34.7-19.7	03/04/04	19.60	22.21	
MW-1	41.81	34.7-19.7	04/29/04	20.91	20.90	
MW-1	41.81	34.7-19.7	05/27/04	21.13	20.68	
MW-2	42.13	32.5-17.5	02/28/03	19.88	22.25	
MW-2	42.13	32.5-17.5	03/31/03	20.36	21.77	
MW-2	42.13	32.5-17.5	04/29/03	20.64	21.49	
MW-2	42.13	32.5-17.5	05/22/03	21.06	21.07	
MW-2	42.13	32.5-17.5	07/07/03	22.17	19.96	
MW-2	42.13	32.5-17.5	07/30/03	22.50	19.63	
MW-2	42.13	32.5-17.5	08/28/03	22.84	19.29	
MW-2	42.13	32.5-17.5	09/30/03	23.07	19.06	
MW-2	42.13	32.5-17.5	10/16/03	23.06	19.07	
MW-2	42.13	32.5-17.5	12/03/03	22.54	19.59	
MW-2	42.13	32.5-17.5	12/26/03	21.58	20.55	
MW-2	42.13	32.5-17.5	01/30/04	20.05	22.08	
MW-2	42.13	32.5-17.5	03/04/04	20.57	21.56	
MW-2	42.13	32.5-17.5	04/29/04	21.89	20.24	
MW-2	42.13	32.5-17.5	05/27/04	22.29	19.84	

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ANCHOR ENVIRONMENTAL, L.L.C.

Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.						Site: Brix Maritime
						Project No. : 990056-01
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
MW-3	41.93	32.6-17.6	07/29/02	22.91	19.02	
MW-3	41.93	32.6-17.6	08/22/02	23.50	18.43	Oil detected in well, thickness estimated at 0.02 foot
MW-3	41.93	32.6-17.6	09/30/02	23.37	18.56	Oil detected in well, thickness estimated at 0.02 foot
MW-3	41.93	32.6-17.6	10/30/02	23.68	18.25	DTP = 23.49 (0.19 foot thick)
MW-3	41.93	32.6-17.6	11/27/02	23.30	18.63	DTP = 23.16 (0.14 foot thick)
MW-3	41.93	32.6-17.6	12/30/02	21.99	19.94	Oil noted on probe, product too thin to measure with interface probe
MW-3	41.93	32.6-17.6	02/28/03	19.75	22.18	Oil noted on probe, product too thin to measure with interface probe
MW-3	41.93	32.6-17.6	03/31/03	20.24	21.69	No oil noted on probe
MW-3	41.93	32.6-17.6	04/29/03	20.50	21.43	No oil noted on probe
MW-3	41.93	32.6-17.6	05/22/03	20.94	20.99	No oil noted on probe
MW-3	41.93	32.6-17.6	07/07/03	22.21	19.72	No oil noted on probe
MW-3	41.93	32.6-17.6	07/30/03	22.62	19.31	No oil noted on probe
MW-3	41.93	32.6-17.6	08/28/03	22.95	18.98	Oil noted on probe, product too thin to measure with interface probe
MW-3	41.93	32.6-17.6	09/30/03	23.15	18.78	DTP = 23.04 (0.11 foot thick)
MW-3	41.93	32.6-17.6	10/16/03	22.40	19.53	No oil noted on probe
MW-3	41.93	32.6-17.6	12/03/03	22.21	19.72	Sheen, product too thin to measure
MW-3	41.93	32.6-17.6	12/26/03	21.44	20.49	No oil noted on probe
MW-3	41.93	32.6-17.6	01/30/04	19.80	22.13	No oil noted on probe
MW-3	41.93	32.6-17.6	03/04/04	20.41	21.52	No oil noted on probe
MW-3	41.93	32.6-17.6	04/29/04	21.82	20.11	No oil noted on probe
MW-3	41.93	32.6-17.6	05/27/04	22.25	19.68	No oil noted on probe
MW-4	23.55	19.1-9.1	07/29/02	11.62	11.93	
MW-4	23.55	19.1-9.1	08/22/02	11.77	11.78	
MW-4	23.55	19.1-9.1	09/30/02	11.94	11.61	
MW-4	23.55	19.1-9.1	10/30/02	12.06	11.49	
MW-4	23.55	19.1-9.1	11/27/02	11.85	11.70	
MW-4	23.55	19.1-9.1	12/30/02	10.24	13.31	
MW-4	23.55	19.1-9.1	02/28/03	4.34	19.21	
MW-4	23.55	19.1-9.1	03/31/03	4.59	18.96	
MW-4	23.55	19.1-9.1	04/29/03	5.46	18.09	
MW-4	23.55	19.1-9.1	05/22/03	8.59	14.96	
MW-4	23.55	19.1-9.1	07/07/03	10.69	12.86	
MW-4	23.55	19.1-9.1	07/30/03	11.03	12.52	
MW-4	23.55	19.1-9.1	08/28/03	11.40	12.15	
MW-4	23.55	19.1-9.1	09/30/03	11.74	11.81	
MW-4	23.55	19.1-9.1	10/16/03	11.40	12.15	
MW-4	23.55	19.1-9.1	12/03/03	10.59	12.96	
MW-4	23.55	19.1-9.1	12/26/03	9.50	14.05	
MW-4	23.55	19.1-9.1	01/30/04	5.41	18.14	
MW-4	23.55	19.1-9.1	03/04/04	9.05	14.50	
MW-4	23.55	19.1-9.1	04/29/04	11.00	12.55	
MW-4	23.55	19.1-9.1	05/27/04	10.89	12.66	

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ANCHOR ENVIRONMENTAL, L.L.C.

Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.						Site: Brix Maritime
						Project No. : 990056-01
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
MW-5	41.66	34.6-19.6	02/28/03	19.45	22.21	
MW-5	41.66	34.6-19.6	03/31/03	19.99	21.67	
MW-5	41.66	34.6-19.6	04/29/03	20.25	21.41	
MW-5	41.66	34.6-19.6	05/22/03	20.75	20.91	
MW-5	41.66	34.6-19.6	07/07/03	21.93	19.73	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	07/30/03	22.08	19.58	
MW-5	41.66	34.6-19.6	08/28/03	22.08	19.58	
MW-5	41.66	34.6-19.6	09/30/03	22.13	19.53	
MW-5	41.66	34.6-19.6	10/16/03	22.10	19.56	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	12/03/03	22.13	19.53	
MW-5	41.66	34.6-19.6	12/26/03	21.35	20.31	
MW-5	41.66	34.6-19.6	01/30/04	19.59	22.07	
MW-5	41.66	34.6-19.6	03/04/04	20.16	21.50	
MW-5	41.66	34.6-19.6	04/29/04	21.67	19.99	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	05/27/04	21.99	19.67	
MW-6	41.21	31.1-16.1	07/07/03	20.26	20.95	
MW-6	41.21	31.1-16.1	07/30/03	20.57	20.64	
MW-6	41.21	31.1-16.1	08/28/03	21.02	20.19	
MW-6	41.21	31.1-16.1	09/30/03	21.02	20.19	
MW-6	41.21	31.1-16.1	10/16/03	20.93	20.28	
MW-6	41.21	31.1-16.1	12/03/03	21.53	19.68	
MW-6	41.21	31.1-16.1	12/26/03	19.24	21.97	
MW-6	41.21	31.1-16.1	01/30/04	17.70	23.51	
MW-6	41.21	31.1-16.1	03/04/04	18.16	23.05	
MW-6	41.21	31.1-16.1	04/29/04	19.66	21.55	
MW-6	41.21	31.1-16.1	05/27/04	20.17	21.04	
MW-7	40.95	31.2-16.2	07/07/03	21.21	19.74	
MW-7	40.95	31.2-16.2	07/30/03	21.76	19.19	
MW-7	40.95	31.2-16.2	08/28/03	22.32	18.63	
MW-7	40.95	31.2-16.2	09/30/03	22.67	18.28	
MW-7	40.95	31.2-16.2	10/16/03	22.72	18.23	
MW-7	40.95	31.2-16.2	12/03/03	22.90	18.05	
MW-7	40.95	31.2-16.2	12/26/03	20.32	20.63	
MW-7	40.95	31.2-16.2	01/30/04	18.26	22.69	
MW-7	40.95	31.2-16.2	03/04/04	18.96	21.99	
MW-7	40.95	31.2-16.2	04/29/04	20.49	20.46	
MW-7	40.95	31.2-16.2	05/27/04	21.10	19.85	

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ANCHOR ENVIRONMENTAL, L.L.C.

Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.						Site: Brix Maritime
						Project No. : 990056-01
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
River Gauge[1]						
River	4.33	NA	10/30/02	2.75	7.08	
River	4.33	NA	11/27/02	3.1	7.43	
River	4.33	NA	12/30/02	7.5	11.83	
River	4.33	NA	02/28/03	6.1	10.43	
River	4.33	NA	03/31/03	8.0	12.33	
River	4.33	NA	04/29/03	8.0	12.33	
River	4.33	NA	05/22/03	6.5	10.83	
River	4.33	NA	07/07/03	4.0	8.33	
River	4.33	NA	07/30/03	3.5	7.83	
River	4.33	NA	08/28/03	3.3	7.63	
River	4.33	NA	09/30/03	2.1	6.43	
River	4.33	NA	10/16/03	2.2	6.53	
River	4.33	NA	12/03/03	3.5	7.83	
River	4.33	NA	12/26/03	6.7	11.03	
River	4.33	NA	01/30/04	11.0	15.33	
River	4.33	NA	03/04/04	5.0	9.33	
River	4.33	NA	04/29/04	4.0	8.33	
River	4.33	NA	05/27/04	6.6	10.93	

Note: DTW = Depth to Water; DTP = Depth to Product; NA = Not Applicable

1 - The river gauge is marked in 1-foot increments, field measurements are estimated to the closest 0.1 foot.

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ANCHOR ENVIRONMENTAL, L.L.C.

Table 2
Total Petroleum Hydrocarbons
Brix Maritime
Portland, Oregon

Location (sample depth in ft bgs)	Matrix	Date Sampled	Diesel Range Organics		Residual Range Organics		Gasoline Range Organics	
MW-1	Water	07/07/03	0.27	L	0.5	U	1.3	H
MW-1	Water	10/16/03	0.73	L	0.5	U	8.1	H
MW-1	Water	01/30/04	0.60	L	0.5	U	4.0	H
MW-1	Water	04/29/04	0.71	L	0.5	U	5.8	H
MW-1	Water	04/29/04	0.79	L	0.5	U	5.7	H
MW-2	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-2	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-2	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-2	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-3	Water	07/30/02	3.4	Y	1.6	O		
MW-3	Water	07/07/03	1.9	Y	8.5	O	0.05	U
MW-3	Water	10/16/03	0.92	Y	1.8	O	0.059	Y
MW-3	Water	01/30/04	0.79	Y	0.6	O	0.05	U
MW-3	Water	04/29/04	0.7	Y	0.77	O	0.05	U
MW-4	Water	07/29/02	0.26	U	0.52	U		
MW-4	Water	07/07/03	0.25	U	0.52	O	0.05	U
MW-4 Duplicate	Water	07/07/03	0.25	U	0.52	U	0.05	U
MW-4	Water	10/16/03	0.25	U	0.5	O	0.65	Y
MW-4 Duplicate	Water	10/16/03	0.25	U	0.5	U	0.66	Y
MW-4	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-4	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-5	Water	01/30/04	0.62	L	0.5	U	1.4	H
MW-5 Duplicate	Water	01/30/04	0.63	L	0.5	U	1.5	H
MW-6	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-6	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-6	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-6	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-7	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-7	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-7	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-7	Water	04/29/04	0.25	U	0.5	U	0.05	U

Notes: Water concentrations are in mg/L. Soil concentrations are in mg/kg.

ft bgs = feet below ground surface.

U = Not detected at method reporting limit.

O = The fingerprint resembles oil, but does not match the calibration standard.

L = The fingerprint resembles a petroleum product, but the elution pattern indicates the presence of lighter weight constituents than the calibration standard.

H = The fingerprint resembles a petroleum product, but the elution pattern indicates the presence of heavier weight constituents than the calibration standard.

Y = The fingerprint resembles a petroleum product in the correct carbon range, but the elution pattern does not match the calibration standard.

TABLE 3
Polycyclic Aromatic Hydrocarbons
Brix Maritime
Portland, Oregon

Sample Designation	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1 Dup	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4
Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Date Sampled	02/28/03	07/07/03	10/16/03	01/30/04	04/29/04	04/29/04	02/28/03	07/07/03	10/16/03	01/30/04	04/29/04	07/30/02	02/28/03	07/07/03	10/16/03	01/30/04	04/29/04	07/29/02	02/28/03
LPAHs										**LPAHs**									
Naphthalene	23 D	23 D	160 D	110 D	170 D	150 D	0.082	0.02 U	0.023	0.037	0.023	0.36	0.75	0.34	0.34	0.11	0.35	0.039	18 D
Acenaphthylene	0.19	0.02 U	0.02 U	0.15 UB	0.02 U	0.02 U	0.023	0.02 U	0.022 U	0.110 UB	0.020 U	0.02 U	0.22	0.02 U	0.02 U	0.14 UB	0.02 U	0.02 U	0.02 U
Acenaphthene	0.43	0.38	0.34	0.17	0.30	0.23	0.02 U	0.02 U	0.022 U	0.020 U	0.020 U	0.26	1.3	0.16	0.21	0.04	0.13	0.51	0.60
Dibenzofuran	0.12	0.067	0.085	0.032	0.062	0.057	0.02 U	0.02 U	0.022 U	0.020 U	0.020 U	0.025	0.11	0.02 U	0.021	0.020 U	0.035	0.02 U	0.02 U
Fluorene	0.36	0.27	0.24	0.11	0.19	0.14	0.02 U	0.02 U	0.022 U	0.020 U	0.020 U	0.09	1.0	0.1	0.11	0.037	0.082	0.02 U	0.02 U
Phenanthrene	1.8	0.56	0.42	0.16	0.34	0.27	0.15	0.02 U	0.031	0.020 U	0.020 U	0.11	2.9	0.2	0.14	0.06	0.12	0.043	0.02 U
Anthracene	0.53	0.11	0.065	0.073	0.079	0.057	0.032	0.02 U	0.022 U	0.034	0.036	0.02 U	0.55	0.039	0.022	0.032	0.034	0.02 U	0.02 U
2-Methylnaphthalene	9.0	7.9	42.0 D	40.0 D	46.0 D	40.0 D	0.02 U	0.02 U	0.022 U	0.022	0.02	0.28	1.8	0.34	0.31	0.15	0.34	0.02 U	0.80
Total LPAH	35.43	32.29	203.15	150.55	216.97	190.75	0.29		0.05	0.09	0.06	1.13	8.63	1.18	1.13	0.43	1.09	0.59	19.40
HPAHs										**HPAHs**									
Fluoranthene	4.3	0.5	0.3	0.39	0.33	0.24	0.29	0.02 U	0.070	0.022	0.02 U	0.056	4.9	0.22	0.077	0.075	0.080	0.033	0.024
Pyrene	13 D	1.2	0.9	1.6	0.76	0.57	0.42	0.02 U	0.091	0.020	0.02 U	0.058	7.6 D	0.22	0.082	0.090	0.079	0.046	0.055
Benz(a)anthracene	2.1	0.22	0.16	0.20	0.12	0.084	0.11	0.02 U	0.023	0.020	0.02 U	0.02 U	2.1 D	0.06	0.02 U	0.022	0.02 U	0.02 U	0.02 U
Chrysene	2.7	0.27	0.24	0.24	0.16	0.11	0.17	0.02 U	0.042	0.02 U	0.02 U	0.02 U	2.3 D	0.071	0.02 U	0.023	0.02 U	0.02 U	0.02 U
Benzo(b)fluoranthene	1.4	0.088	0.073	0.047	0.049	0.029	0.14	0.02 U	0.036	0.020	0.02 U	0.022	1.8 D	0.038	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(k)fluoranthene	1.1	0.098	0.096	0.053	0.061	0.036	0.13	0.02 U	0.035	0.023	0.02 U	0.02 U	1.7 D	0.065	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(a)pyrene	2.0	0.11	0.097	0.064	0.066	0.038	0.19	0.02 U	0.022 U	0.035	0.02 U	0.02 U	2.3 D	0.053	0.02 U	0.036	0.02 U	0.02 U	0.02 U
Indeno(1,2,3-cd)pyrene	1.5	0.023	0.036	0.02 U	0.02 U	0.02 U	0.20	0.02 U	0.073	0.022	0.02 U	0.02 U	1.5 D	0.041	0.02 U	0.02	0.02 U	0.02 U	0.02 U
Dibenz(a,h)anthracene	0.17	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U	0.020 U	0.02 U	0.02 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(g,h,i)perylene	1.5	0.028	0.043	0.02 U	0.021	0.20 U	0.22	0.02 U	0.090	0.020	0.02 U	0.02 U	1.9 D	0.039	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Total HPAHs	29.77	2.53	1.98	2.59	1.57	1.11	1.87		0.46	0.18		0.14	26.10	0.80	0.16	0.27	0.16	0.08	0.08

NOTE: µg/L = micrograms per liter or parts per billion.

B = detected in method blank at sigificant concentration.

J = estimated concentration.

U = not detected at or above the indicated method reporting limit.

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TABLE 3
Polycyclic Aromatic Hydrocarbons
Brix Maritime
Portland, Oregon

Sample Designation	MW-4		MW-4 Dup		MW-4		MW-4 Dup		MW-4		MW-4		MW-5		MW-5 dup		MW-5		MW-5 dup		MW-6		MW-6		MW-6		MW-6		MW-7		MW-7		MW-7		MW-7	
Matrix	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Date Sampled	07/07/03		07/07/03		10/16/03		10/16/03		01/30/04		04/29/04		02/28/03		02/28/03		01/30/04		01/30/04		07/07/03		10/16/03		01/30/04		04/29/04		07/07/03		10/16/03		01/30/04		04/29/07	
LPAHs																	**LPAHs**																			
Naphthalene	0.16		0.12		0.11		0.12		0.074		0.093		19	D	17	D	2.9		2.1		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.093	
Acenaphthylene	0.02	U	0.02	U	0.02	U	0.02	U	0.053	UB	0.02	U	0.10		0.40		0.02	U	0.02	U	0.02	U	0.02	U	0.042		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Acenaphthene	0.11		0.11		0.36		0.40		0.16		0.061		1.3		1.3		0.6		0.5		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Dibenzofuran	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.2		0.19		0.081		0.057		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Fluorene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	1.2		1.3		0.48		0.32		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Phenanthrene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	2.3		3.1		1.1		0.8		0.02	U	0.02	U	0.025		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Anthracene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.55		0.93		0.34		0.24		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
2-Methylnaphthalene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	31	D	31	D	1.5		1.1		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.04	
Total LPAH	0.27		0.23		0.47		0.52		0.23		0.15		55.64		55.22		7.02		5.02						0.07										0.13	
HPAHs																	**HPAHs**																			
Fluoranthene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	3.1	J	6.5	J	1.5		1.1		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Pyrene	0.021		0.02	U	0.02		0.024		0.02		0.02		4.3	J	9.1	J	1.8		1.4		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benz(a)anthracene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.72	J	2.80	J	0.18		0.14		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Chrysene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.96	J	3.4	J	0.22		0.17		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benzo(b)fluoranthene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.44	J	2.2	J	0.046		0.035		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benzo(k)fluoranthene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.42	J	1.9	J	0.046		0.041		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benzo(a)pyrene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.65	J	3.6	J	0.061		0.050		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Indeno(1,2,3-cd)pyrene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.49	J	2.5	J	0.03		0.022		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Dibenz(a,h)anthracene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.044	J	0.27	J	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benzo(g,h,i)perylene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.52	J	2.7	J	0.029		0.024		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Total HPAHs	0.021						0.024						11.64		34.97		3.91		3.00																	

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Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	Dichlorodifluoromethane	Chloromethane	Vinyl Chloride	Bromomethane	Chloroethane	Trichlorofluoromethane	Acetone	1,1-Dichloroethene	Methyl tert-Butyl Ether	Carbon Disulfide	Methylene Chloride	*trans*-1, 2-dichloroethene	1,1-Dichloroethane	2-Butanone	2,2-Dichloropropane	*cis*-1, 2-dichloroethene	Chloroform	Bromochloromethane	1,1,1-Trichloroethane	1,1-Dichloropropene	Carbon Tetrachloride
MW-1	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-1	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-1	Water	10/16/03	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
MW-1	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-1	Water	04/29/04	1 U	1 U	1 U	1 U	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	40 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW-1 Dup	Water	04/29/04	1 U	1 U	1 U	1 U	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	40 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW-2	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/30/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	07/29/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	1,2-Dichloroethane	Benzene	Trichloroethene	1,2-Dichloropropane	Bromodichloromethane	Dibromomethane	2-Hexanone	cis-1,3-Dichloropropene	Toluene	trans 1,3-Dichloropropene	1,1,2-Trichloroethane	4-Methyl-2-pentanone	1,3 Dichloropropane	Tetrachloroethene	Dibromochloromethane	1,2 Dibromoethane	Chlorobenzene	1,1,1,2-Tetrachloroethane	Ethylbenzene	m,p-Xylenes	o-Xylene	Styrene	Bromoform
MW-1	Water	02/28/03	0.5 U	**5.7**	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	**0.71**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**37**	**50**	**12**	0.5 U	0.5 U
MW-1	Water	07/07/03	0.5 U	**1.3**	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**1.1**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**11**	**18**	**2**	0.5 U	0.5 U
MW-1	Water	10/16/03	2.5 U	**32** D	2.5 U	2.5 U	2.5 U	2.5 U	100 U	2.5 U	**13** D	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	**270** D	**360** D	**110** D	2.5 U	2.5 U
MW-1	Water	01/30/04	0.5 U	**4.1**	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**0.96**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**78** D	**120**	**31**	0.5 U	0.5 U
MW-1	Water	04/29/04	1 U	**5.3** D	1 U	1 U	1 U	1 U	40 U	1 U	**2.1** D	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	**120** D	**160** D	**46** D	1 U	1 U
MW-1 Dup	Water	04/29/04	1 U	**4.7** D	1 U	1 U	1 U	1 U	40 U	1 U	**1.9** D	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	**110** D	**150** D	**42** D	1 U	1 U
MW-2	Water	02/28/03	0.5 U	0.50 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	07/07/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	10/16/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.86**	0.5 U	0.5 U	0.5 U
MW-2	Water	01/30/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	04/29/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/30/02	0.5 U	**0.73**	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**14**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**0.51**	**3.5**	**2**	0.5 U	0.5 U
MW-3	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	**0.63**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**1.2**	**1.2**	0.5 U	0.5 U
MW-3	Water	07/07/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**0.8**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**1.2**	**1.1**	0.5 U	0.5 U
MW-3	Water	10/16/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**1.9**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**0.51**	**2.5**	**1.5**	0.5 U	0.5 U
MW-3	Water	01/30/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.63**	**0.73**	0.5 U	0.5 U
MW-3	Water	04/29/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**1.20**	**1.1**	0.5 U	0.5 U
MW-4	Water	07/29/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	02/28/03	0.5 U	**0.76**	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**2.3**	**1.4**	**1.2**	0.5 U	0.5 U
MW-4	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.93**	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.94**	0.5 U	0.5 U	0.5 U
MW-4	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.5**	0.5 U	0.5 U
MW-4	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**15**	**12**	**0.97**	0.5 U	0.5 U
MW-5 Dup	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**16**	**14**	**1.10**	0.5 U	0.5 U
MW-5	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**1.8**	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**2.0**	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.74**	0.5 U	0.5 U	0.5 U
MW-6	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.82**	0.5 U	0.5 U	0.5 U
MW-7	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	Isopropylbenzene	1,1,2,2-Tetrachloroethane	1,2,3-Trichloropropane	Bromobenzene	n-Propylbenzene	2-Chlorotoluene	4-Chlorotoluene	1,3,5-Trimethylbenzene	tert-Butylbenzene	1,2,4-Trimethylbenzene	sec-Butylbenzene	1,3-Dichlorobenzene	4-Isopropyltoluene	1,4-Dichlorobenzene	n-Butylbenzene	1,2-Dichlorobenzene	1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene	1,2,3-Trichlorobenzene	Naphthalene	Hexachlorobutadiene
MW-1	Water	02/28/03	**19**	0.5 U	0.5 U	0.5 U	**65** D	2 U	2 U	**26**	2 U	**140** D	**10**	0.5 U	2 U	0.5 U	**21**	0.5 U	0.5 U	2 U	2 U	**31**	2 U
MW-1	Water	07/07/03	**31**	0.5 U	0.5 U	0.5 U	**64** D	2 U	2 U	**9.3**	2 U	**46**	**8.2**	0.5 U	2 U	0.5 U	**14**	0.5 U	0.5 U	2 U	2 U	**22**	2 U
MW-1	Water	10/16/03	**75** D	2.5 U	2.5 U	10 U	**250** D	10 U	10 U	**280** D	10 U	**1200** D	**28** D	2.5 U	10 U	2.5 U	150 Ui	2.5 U	10 U	10 U	10 U	**460** D	10 U
MW-1	Water	01/30/04	**36**	0.5 U	0.5 U	0.5 U	**140** D	2 U	2 U	**100** D	2 U	**510** D	**17**	0.5 U	2 U	0.5 U	**46**	0.5 U	0.5 U	2 U	2 U	**210** D	2 U
MW-1	Water	04/29/04	**54** D	1 U	1 U	1 U	**150** D	4 U	4 U	**150** D	4 U	**590** D	**20** D	1 U	4 U	1 U	**43** D	1 U	1 U	4 U	4 U	**250** D	4 U
MW-1 Dup	Water	04/29/04	**52** D	1 U	1 U	1 U	**150** D	4 U	4 U	**140** D	4 U	**570** D	**18** D	1 U	4 U	1 U	**39** D	1 U	1 U	4 U	4 U	**260** D	4 U
MW-2	Water	02/28/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	07/30/02	0.5 U	0.5 U	0.5 U	0.5 U	**2.2**	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	02/28/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	07/29/02	2 U	0.5 U	0.5 U	0.5 U	**2.3**	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	02/28/03	**29**	0.5 U	0.5 U	0.5 U	**35**	2 U	2 U	**2.2**	2 U	**3.8**	2 U	0.5 U	2 U	0.5 U	**3.1**	0.5 U	0.5 U	2 U	2 U	**45**	2 U
MW-4	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4 Dup	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	10/16/03	**7.1**	0.5 U	0.5 U	0.5 U	**5.5**	2 U	2 U	2 U	2 U	2 U	**4.4**	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4 Dup	Water	10/16/03	**7.5**	0.5 U	0.5 U	0.5 U	**6.3**	2 U	2 U	2 U	2 U	2 U	**4.8**	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-5	Water	02/28/03	**24**	0.5 U	0.5 U	0.5 U	**110** D	2 U	2 U	**26**	2 U	**75** D	**27**	0.5 U	2 U	0.5 U	**87** D	0.5 U	0.5 U	2 U	2 U	**23**	2 U
MW-5 Dup	Water	02/28/03	**25**	0.5 U	0.5 U	0.5 U	**110** D	2 U	2 U	**30**	2 U	**99** D	**30**	0.5 U	**2.3**	0.5 U	**110** D	0.5 U	0.5 U	2 U	2 U	**25**	2 U
MW-5	Water	01/30/04	**9.7**	0.5 U	0.5 U	0.5 U	**49**	2 U	2 U	2 U	2 U	2 U	**38**	0.5 U	2 U	0.5 U	**82** D	0.5 U	0.5 U	2 U	2 U	**2.9**	2 U
MW-5 Dup	Water	01/30/04	**11**	0.5 U	0.5 U	0.5 U	**56**	2 U	2 U	2 U	2 U	2 U	**39**	0.5 U	2 U	0.5 U	**84** D	0.5 U	0.5 U	2 U	2 U	**3.4**	2 U
MW-6	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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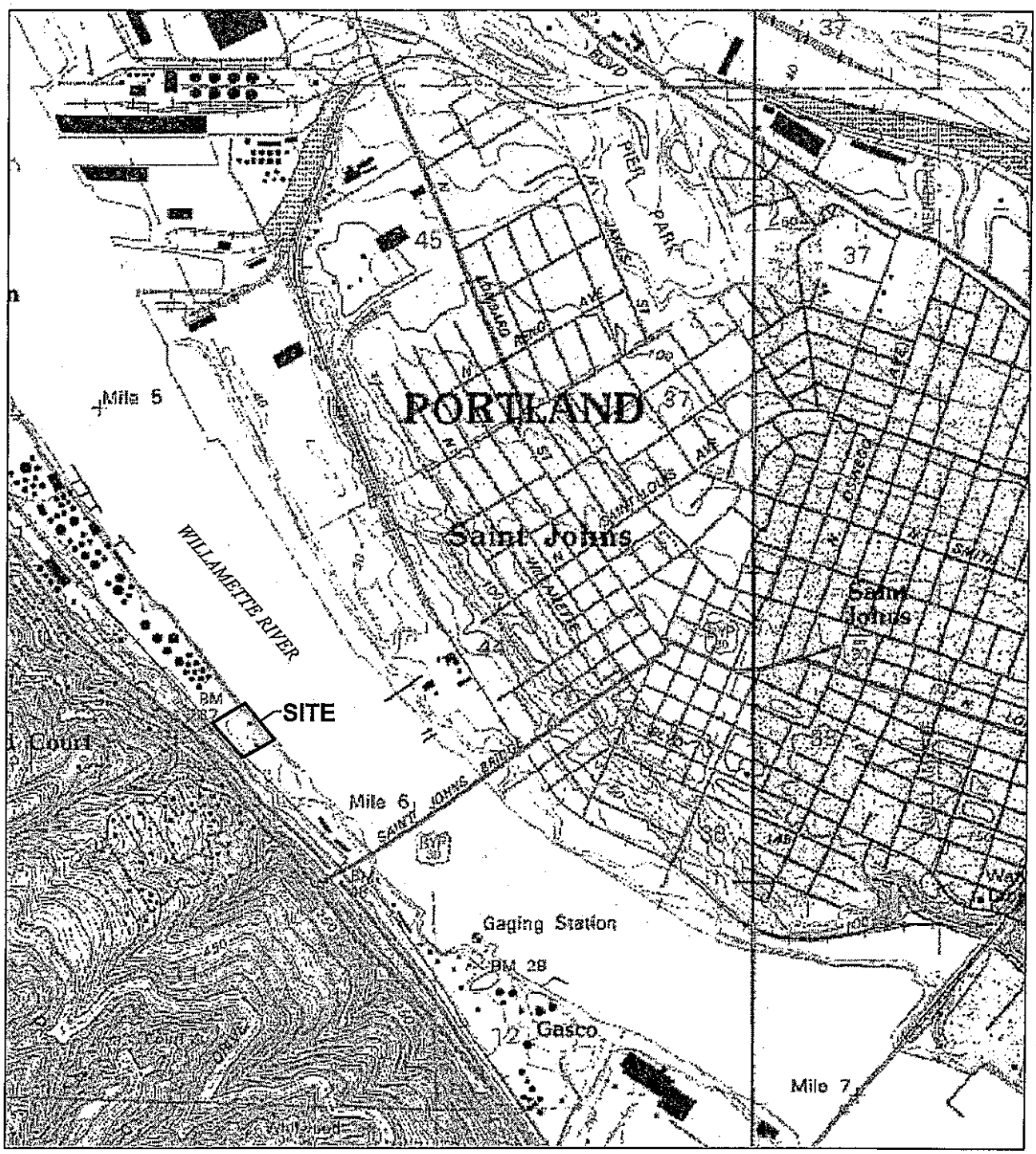
Table 5
Lead in Groundwater
Brix Maritime
Portland, Oregon

Location	Matrix	Date Sampled	Total Lead (ppb)		Dissolved Lead (ppb)	
MW-1	Water	02/28/03	288		0.03	
MW-1	Water	07/07/03	1.34		0.05	
MW-1	Water	10/16/03	1.41		0.06	
MW-1	Water	01/30/04	0.05		0.02	U
MW-1	Water	04/29/04	0.11		0.02	U
MW-1 Duplicate	Water	04/29/04	0.11		0.04	
MW-2	Water	02/28/03	57.6		0.04	
MW-2	Water	07/07/03	0.04		0.05	
MW-2	Water	10/16/03	25.9		0.58	
MW-2	Water	01/13/04	0.03		0.02	U
MW-2	Water	04/29/04	0.02	U	0.02	
MW-3	Water	07/30/02	0.88		0.13	
MW-3	Water	02/28/03	65.9		0.05	
MW-3	Water	07/07/03	0.36		0.08	
MW-3	Water	10/16/03	0.22		0.05	
MW-3	Water	01/13/04	0.1		0.05	
MW-3	Water	04/29/04	0.05		0.02	
MW-4	Water	07/29/02	0.36		0.02	U
MW-4	Water	02/28/03	0.70		0.02	U
MW-4	Water	07/07/03	0.78	J	0.02	
MW-4 Duplicate	Water	07/07/03	0.18	J	0.03	
MW-4	Water	10/16/03	0.46		0.03	
MW-4 Duplicate	Water	10/16/03	0.54		0.02	U
MW-4	Water	01/13/04	0.08		0.03	
MW-4	Water	04/29/04	0.47		0.09	
MW-5	Water	02/28/03	131		0.06	
MW-5 Duplicate	Water	02/28/03	116		0.03	
MW-5	Water	01/13/04	0.06		0.02	
MW-5 Duplicate	Water	01/13/04	0.08		0.02	
MW-6	Water	07/07/03	0.1		0.02	U
MW-6	Water	10/16/03	0.03		0.07	
MW-6	Water	01/13/03	0.09		0.02	U
MW-6	Water	04/29/04	0.08		0.03	
MW-7	Water	07/07/03	0.17		0.02	U
MW-7	Water	10/16/03	0.02	U	0.03	
MW-7	Water	01/13/04	0.1		0.02	U
MW-7	Water	04/29/04	0.02	U	0.02	

Note: U = not detected at method reporting limit. ppb = parts per billion. J = estimated
Water concentrations are in µg/L.

Figures

FIGURES



Apr 01, 2003 4:09pm cdavidson I:\CAD\Jobs\990056-Brix_Maritime\990056019900560 1-03.dwg FIG 1

ANCHOR ENVIRONMENTAL, L.L.C.

Figure 1
Site Location Map
Brix Maritime
Portland, Oregon

Source: Aerial photograph acquired from WAC, Corp. 1991.

Jul 09, 2004 9:34am cdavidson K:\Jobs\1990056-Brix_Maritime\1990056011990056011-08.dwg Fig 2

ANCHOR ENVIRONMENTAL, L.L.C.

Figure 2
Well Location and Potentiometric Surface Map (April 29, 2004)
Brix Maritime
Portland, Oregon

Appendix A

Appendix A
Field Sampling Data Package

ANCHOR ENVIRONMENTAL, L.L.C.

Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Phone 503.670.1108
Fax 503.670.1128

Memorandum

To: File 990056-01

From: Timothy J. Stone

Date: May 3, 2004

Re: April 2004 Groundwater Sample Collection at Brix Maritime, Portland, Oregon

OVERVIEW

On April 29, 2004, Anchor measured groundwater elevations in seven monitoring wells and recorded the river elevation from the staff gauge located at the site. In addition, groundwater samples were collected from six of the seven monitoring wells (MW-5 had insufficient water to sample). Seven water samples (including one duplicate sample) were submitted for analysis of VOCs by U.S. Environmental Protection Agency (USEPA) Method 8260+MTBE; gasoline by NWTPH-Gx; diesel and heavy oils by NWTPH-Dx; PAHs by USEPA Method 8270-SIM; total lead; and dissolved lead. Trip blanks were submitted for VOCs and NWTPH-Gx.

PURGING AND SAMPLING

Before sampling, wells were purged of at least three casing volumes, until field parameters (temperature, pH, and specific conductivity) stabilized, or the wells purged dry. Temperature, pH, and specific conductivity values were measured and recorded after each casing volume was removed. Field sampling parameters are presented within the attached table.

A minimum of three volumes was purged from each well using a peristaltic pump equipped with new pump tubing, and connected to polyethylene tubing dedicated to each well. Pumping rates were reduced, and samples were then collected directly from the dedicated pump tubing. Samples for dissolved lead were field-filtered using an in-line high-capacity 0.45 micron filter prior to field preservation with nitric acid.

Quality control consisted of collecting and analyzing one duplicate sample from MW-1. A trip blank was submitted for VOC analysis by USEPA Method 8260 + MTBE. A trip blank was also submitted for analysis by NWTPH-Gx method.

SAMPLE HANDLING AND SHIPPING

Nine samples were placed in iced shipping containers and transported by courier to Columbia Analytical Services (CAS), Kelso, Washington, under chain of custody documentation.

Attachments: Field Sampling Data Sheets
Chain-of-Custody Documentation

BRIX002242

Depth to Water Measurements
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.			Site: Brix Maritime	
			Project No. : 990056-01	
Well	Date (MM/DD/YY)	Time (2400)	DTW (feet)	Comments
MW-1	4/29/04	1015	20.91	No product detected / Strong gasoline odor
MW-2		1020	21.89	No product detected
MW-3		1025	21.82	No product detected
MW-4		1030	11.80	"
MW-5		1035	21.67	"
MW-6		1040	19.66	"
MW-7		1045	20.49	"
River Gauge		1022	4.0 *	NA

Note: DTW = Depth to Water; DTP = Depth to Product

* waterline

Confidential Business Information

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-1
SITE ADDRESS: Portland, Oregon
BLIND ID: BX-042904-1
DUP ID: BX-042904-2 NA 1/4

WIND FROM: N | NE | E | SE | S | SW | (W) | NW | LIGHT | MEDIUM | (HEAVY)
WEATHER: (SUNNY) | CLOUDY | RAIN | ? TEMPERATURE: (°F) 60 °C [Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/29/04	10:15	22.15		20.91		1.24	X1	0.2
/ /	:						X3	0.6

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | (2" = 0.163) | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [N if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	4/29/04	11:30	B	6	40 ml	(HCl)	YES	NO		√
Amber Glass	/ /	:		2	250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		2	250, 500, 1L	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 20

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 11:00 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp	°C	Other	Diss O_2 (mg/l)	Water Quality
‡									
3	B	0.6	6.06	810	15.30			0.49	‡
2	B	0.4	6.11	812	15.31			0.54	‡
1	B	0.2	6.05	812	15.34			0.72	Clear/Colorless
0		0.00							

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

Confidential Business Information

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-2
SITE ADDRESS: Portland, Oregon BLIND ID: BX-042904-3
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN				?		TEMPERATURE:	°F 60.	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/29/04	10:20	24.25		21.89		2.36	X1	0.38
/ /	:						X3	1.15

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	4/29/04	12:30	B	6	40 mL HCl	YES	NO		√
Amber Glass	/ /	:	~~B~~	2	250 500 1L (None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250 500 1L HNO_3	YES	NO		√
Red Diss. Poly	/ /	:		1	250 500 1L HNO_3	YES	YES		√
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 12

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 11:50 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	1.2	6.29	607	15.59		0.81	
2	B	0.8	6.31	606	15.64		0.95	
1	B	0.4	6.32	611	15.68		1.21	Clear/colorless
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

*2 extra bottles MS/MSD

SAMPLER: TIM STONE
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-3
SITE ADDRESS: Portland, Oregon
BLIND ID: BX-042904-4
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN		?				TEMPERATURE:	°F 65	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/29/04	10:25	24.60		21.82		2.78	X1	0.45
/ /	:						X3	1.35

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	4/29/04	13:20	B	6	40 ml HCl	YES	NO		√
Amber Glass	/ /	:		2	250, 500, 1L (None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L HNO_3	YES	NO		√
Red Diss. Poly	/ /	:		1	250, 500, 1L HNO_3	YES	YES		√
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 12:40 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	1.5	6.38	539	14.51		0.90	
2	B	1.0	6.41	543*	14.53		0.51	
1	B	0.5	6.43	546	14.58		0.57	Clear/Colorless
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: Tim Stone (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-4
SITE ADDRESS: Portland, Oregon
BLIND ID: BX-042904-5
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE:	°F 70	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW	[Water Column x Gal/ft]	Volume (gal)
4/29/04	10:18	14.80		11.00		3.80	X1	0.62
/ /	:						X3	1.85

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	4/29/04	14:30	B	3	40 ml HCl	YES	NO		✓
Amber Glass	/ /	:		2	250, 500, 1L (None) (HCl) (H_2SO_4)	YES	NO		✓
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L HNO_3	YES	NO		✓
Red Diss. Poly	/ /	:		1	250, 500, 1L HNO_3	YES	YES		✓
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 14:00 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	2.1	6.20	423	15.22		0.32	
2	B	1.4	6.20	422	15.18		0.29	
1	B	0.7	6.20	421	15.20		0.30	Clear/colorless
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-5
SITE ADDRESS: Portland, Oregon BLIND ID: No Sample *
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?	TEMPERATURE:	°F 65.	°C				

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product [Product Thickness]	DT-Water [Water Column]	DTP-DTW	DTB-DTW	[Water Column x Gal/ft]	Volume (gal)
4/29/04	10:35	22.20	.	21.67	.	0.53	X1	0.09
/ /	:	.	.	.	.		X3	0.27

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	/ /	:		3	40 ml	HCl	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	: No Sample			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			250, 500, 1L	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 0

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (EPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

No Sample

WATER QUALITY DATA

Purge Start Time: 13:30 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	0.3	.		.		.	
2	B	0.2	.		.		.	
1	B	0.1	.		.		.	slight cloudy/grey
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

** Dry at 1 volume -- did not recharge did not Sample

SAMPLER: TIM STONE (PRINTED NAME) Tim Stone (SIGNATURE)

* not enough volume for parameters

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-6
SITE ADDRESS: Portland, Oregon BLIND ID: BX-042904-7
DUP ID: NA

WIND FROM: N | NE | E | SE | S | SW | (W) | NW | LIGHT | (MEDIUM) | HEAVY
WEATHER: (SUNNY) | CLOUDY | RAIN | ? TEMPERATURE: (°F) 70 . °C
[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW [Product Thickness]	DTB-DTW [Water Column]		[Water Column x Gal/ft] Volume (gal)
4/29/04	10:40	25.05		19.66	.	5.39	X 1	0.88
/ /	:	.	.	.	.		X 3	2.64

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | (2" = 0.163) | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative (circle)	Ice	Filter	pH	√ if used
VOA Glass	4/29/04	16:00	B	3 x 40 ml	(HCl)	YES	NO		√
Amber Glass	/ /	:		4 x 250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1 x 250, 500, 1L	(HNO_3)	(YES)	(NO)		√
Red Diss. Poly	/ /	:		1 x 250, 500, 1L	(HNO_3)	(YES)	(YES)		√
	/ /	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time: :

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	2.7	6.35	513	15.27		0.28	↑
2	B	1.8	6.34	511	15.30		0.24	↑
1	B	0.9	6.34	513	15.33		0.20	Clear/colorless
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

* extra bottles for MS/MSD

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-7
SITE ADDRESS: Portland, Oregon BLIND ID: BX-042904-6
DUP ID: NA

WIND FROM: N | NE | E | SE | S | SW | W | NW
WEATHER: SUNNY | CLOUDY | RAIN | ?
LIGHT | MEDIUM | HEAVY
TEMPERATURE: °F 68 °C
(Circle appropriate units)

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product [Product Thickness]	DT-Water [Water Column]	DTP-DTW	DTB-DTW		Volume (gal) [Water Column x Gal/ft]
4/29/04	10:45	25.00	.	20.49	.	4.51	X1	0.74
/ /	:	.	.	.	.		X3	2.21

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) ~~Peristaltic Pump~~ (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	4/29/04	15:20	B	6	40 ml HCl	YES	NO		√
Amber Glass	/ /	:		2	250, 500, 1L (None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L HNO_3	YES	NO		√
Red Diss. Poly	/ /	:		1	250, 500, 1L HNO_3	YES	YES		√
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time: 14:40
Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	2.4	6.40	434	15.55		0.10	
2	B	1.6	6.39	436	15.54		0.13	
1	B	0.8	6.40	433	15.58		0.23	Clear / colorless
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

CHAIN OF CUSTODY

Columbia Analytical Services INC.
An Employee - Owned Company
1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: _____ PAGE 1 OF 1 COC #: _____

PROJECT NAME: ERIKSEN / TIME - PORTLAND, OR
PROJECT NUMBER:
PROJECT MANAGER: JOHN RENDA
COMPANY/ADDRESS: ANCHOR ENVIRONMENTAL, LLC
CITY/STATE/ZIP: 6650 SW REDWOOD LN, #110
E-MAIL ADDRESS: JRENDA@ANCHORENV.COM
PHONE #: 503-670-1108 FAX #: 670-1128
SAMPLER'S SIGNATURE: Timothy J. Stone

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ (8260☐) 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐ Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics Tri☐ Tetra☐ - 8151M PCP☐	PAHs 8310☐ (SIM☐)	Metals, Total or Dissolved (See list below)	Cyanide☐ Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	NWTPH - Dx	NWTPH - GX			REMARKS
BX-042904-1	4/29/04	1130		H2O	10		X						X	X					X	X			
-2		1140			10		X						X	X					X	X			
-3		1230			12		X						X	X					X	X			*
-4		1320			10		X						X	X					X	X			
-5		1430			10		X						X	X					X	X			
-6		1520			10		X						X	X					X	X			
-7		1600			12		X						X	X					X	X			*
TRIP BLANK 1					2															X			
TRIP BLANK 2					2		X																

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
✓ II. Report Dup.; MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

EXTRA BOTTLES for MS/MSD (PAHs + Dx)
** include MTBE w/ 8260 list

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Timothy J. Stone	Signature:	Signature:	Signature:
Date/Time: 4-29-04 / 1730	Date/Time:	Date/Time:	Date/Time:
Printed Name: TIM STONE	Printed Name:	Printed Name:	Printed Name:
Firm: ANCHOR-PDX	Firm:	Firm:	Firm:

RCOC #1 06/03

Confidential Business Information

BRIX002251

Appendix B

Appendix B
Laboratory Report

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

May 19, 2004 Service Request No: K2403169

John Renda
Anchor Environmental
6650 SW Redwood Lane Suite 110
Portland, OR 97224

RE: BRIXMARITIME-Portland, OR.

Dear John:

Enclosed are the results of the sample(s) submitted to our laboratory on April 30, 2004. For your reference, these analyses have been assigned our service request number K2403169.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC 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.

Please call if you have any questions. My extension is 3281.

Respectfully submitted,

Columbia Analytical Services, Inc.

Abbie Spielman
Project Chemist

AS/jeb

Confidential Business Information

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

00063

Case Narrative

00004

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Anchor Environmental	**Service Request No.:**	K2403169
Project:	BRIX Maritime	**Date Received:**	4/30/04
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

Sample Receipt

Nine water samples were received for analysis at Columbia Analytical Services on 4/30/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Total Metals

No anomalies associated with the analysis of these samples were observed.

Diesel Range Organics by NWTPH-Dx

No anomalies associated with the analysis of these samples were observed.

Gasoline Range Organics by NWTPH-Gx

No anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260B

Elevated Method Reporting Limits:
Samples BX-042904-1 and BX-042904-2 required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

Initial Calibration Exceptions:
The primary evaluation criterion was exceeded for the following analytes in Initial Calibration (ICAL) ID CAL3427: Bromomethane, trans-1, 3-Dichloropropene, 2-Hexanone, Styrene, and Naphthalene. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was 9.1%. The calibration meets the alternative evaluation criteria. Note that CAS/Kelso policy does not allow the use of averaging if any analyte in the ICAL exceeds 30% RSD.

No other anomalies associated with the analysis of these samples were observed.

Polynuclear Aromatic Hydrocarbons by EPA Method 8270C

Elevated Method Reporting Limits:
Samples BX-042904-1 and BX-042904-2 required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

Approved by Allie Sprik Date 5/19/04

00005

Initial Calibration Exceptions:
The primary evaluation criterion was exceeded for the following analytes in Initial Calibration (ICAL) ID CAL3514: 2,3,5-Trimethylnaphthalene, 2,4,6-Tribromophenol, Pyrene, Dibenz (a, h) anthracene. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was 9.8%. The calibration meets the alternative evaluation criteria. Note that CAS/Kelso policy does not allow the use of averaging if any analyte in the ICAL exceeds 30% RSD.

No other anomalies associated with the analysis of these samples were observed.

Approved by _____ Date 5/19/04

00006

Chain of Custody Documentation

00067

CHAIN OF CUSTODY

Columbia Analytical Services INC.
An Employee - Owned Company

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: KZ403169

PAGE 1 OF 1 COC #

PROJECT NAME: BRIX MARITIME - PORTLAND, OR
PROJECT NUMBER:
PROJECT MANAGER: JOHN RENDA
COMPANY/ADDRESS: ANCHOR ENVIRONMENTAL, LLC
CITY/STATE/ZIP: 6650 SW REDWOOD LN, #110
E-MAIL ADDRESS: ~~[illegible]~~ JRENDA@ANCHORENV.COM
PHONE #: 503-670-1108 FAX #: 670-1128
SAMPLER'S SIGNATURE: Timothy J Stone

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐ **	Hydrocarbons (*see below) Gas☐ 8021☐ BTEX☐ Diesel☐ Oil☐ ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics Tri☐ Tetra☐ 8151M PCP☐ (PAHs) 8310☐ SIM☐	Metals (Total or Dissolved) (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, NH_3-N, BOD, TSS, TDS (circle) COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	NWTPH-Dx	NWTPH-GX			REMARKS
BX-042904-1	4/29/04	1130	1	H_2O	10		X					X	X					X	X				
-2		1140	2		10		X					X	X					X	X				
-3		1230	3		12		X					X	X					X	X				*
-4		1320	4		10		X					X	X					X	X				
-5		1430	5		10		X					X	X					X	X				
-6		1520	6		10		X					X	X					X	X				
-7		1600	7		12		X					X	X					X	X				*
TRIP BLANK 1			8		2														X				
TRIP BLANK 2			9		2		X																

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
✓ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. #
Bill To:

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

* EXTRA BOTTLES for MS/MSD (PAHs + Dx)
** include MTBE w/ 8260 list

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Signature: Tim Stone	Date/Time: 4-29-04/1730	Signature: [illegible]	Date/Time: 4/30/04 1330	Signature	Date/Time	Signature	Date/Time
Printed Name: TIM STONE	Firm: ANCHOR-PDX	Printed Name: A PINTER	Firm: CAS	Printed Name	Firm	Printed Name	Firm

RCOC #1 06/03

00008

Confidential Business Information

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

Project/Client Anchor Env. Work Order K240 3169

Cooler received on 4/30/04 and opened on 4/30/04 by TBlack

1.	Were custody seals on outside of coolers?	(Y)	N
	If yes, how many and where? Front		
2.	Were seals intact and signature & date correct?	(Y)	N
3.	Is the shipper's airbill available and filed? If no, record airbill number: CAS	(Y)	N
4.	COC#		
	Temperature of cooler(s) upon receipt: 0.4 / 1.5 / 0.1		
	Temperature Blank: n/a / n/a / n/a		
5.	Were custody papers properly filled out (ink, signed, etc.)?	(Y)	N
6.	Type of packing material present loose ice - meph - bmap		
7.	Did all bottles arrive in good condition (unbroken)?	(Y)	N
8.	Were all bottle labels complete (i.e analysis, preservation, etc.)?	(Y)	N
9.	Did all bottle labels and tags agree with custody papers?	(Y)	N
10.	Were the correct types of bottles used for the tests indicated?	(Y)	N
11.	Were all of the preserved bottles received at the lab with the appropriate pH?	(Y)	N
12.	Were VOA vials checked for absence of air bubbles, and if present, noted below?	(Y)	N
13.	Did the bottles originate from CAS/K or a branch laboratory?	(Y)	N
14.	Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?	Y	N
15.	Was C12/Res negative?	Y	N

Explain any discrepancies:

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00069

Metals

00010

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Anchor Environmental Service Request: K2403169

Project No.: 990056-01

Project Name: BRIXMARITIME-Portland, Or.

Sample No.	Lab Sample ID.
BX-042904-1	K2403169-001
BX-042904-1	K2403169-001 DISS
BX-042904-2	K2403169-002
BX-042904-2	K2403169-002 DISS
BX-042904-3	K2403169-003
BX-042904-3	K2403169-003 DISS
BX-042904-3D	K2403169-003D
BX-042904-3S	K2403169-003S
BX-042904-4	K2403169-004
BX-042904-4	K2403169-004 DISS
BX-042904-5	K2403169-005
BX-042904-5	K2403169-005 DISS
BX-042904-6	K2403169-006
BX-042904-6	K2403169-006 DISS
BX-042904-7	K2403169-007
BX-042904-7	K2403169-007 DISS
BX-042904-7D	K2403169-007D
BX-042904-7S	K2403169-007S
Method Blank	K2403169-MB

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Date: 5/14/04

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-1 MW-1
Lab Code: K2403169-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.11		

% Solids: 0.0

Comments:

00012

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-1 MW-1 Lab Code: K2403169-001 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02	U	

% Solids: 0.0

Comments:

00013

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-2 MW-1 Dup
Lab Code: K2403169-002

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.11		

% Solids: 0.0

Comments:

00014

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-2 MW-1 Dup Lab Code: K2403169-002 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.04		

% Solids: 0.0

Comments:

00015

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-3 MW-2
Lab Code: K2403169-003

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02	U	

% Solids: 0.0

Comments:

00016

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-3 MW-2 Lab Code: K2403169-003 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02		

% Solids: 0.0

Comments:

00017

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-4 MW-3
Lab Code: K2403169-004

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.05		

% Solids: 0.0

Comments:

00018

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-4 MW-3 Lab Code: K2403169-004 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02		

% Solids: 0.0

Comments:

00019

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-5 MW-4
Lab Code: K2403169-005

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.47		

% Solids: 0.0

Comments:

00020

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-5 MW-4 Lab Code: K2403169-005 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.09		

% Solids: 0.0

Comments:

00021

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-6 MW-7
Lab Code: K2403169-006

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02	U	

% Solids: 0.0

Comments:

00022

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-6 MW-7 Lab Code: K2403169-006 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02		

% Solids: 0.0

Comments:

00023

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-7 MW-6
Lab Code: K2403169-007

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.08		

% Solids: 0.0

Comments:

00024

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-7 MW-6 Lab Code: K2403169-007 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.03		

% Solids: 0.0

Comments:

00025

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Service Request: K2403169
Project No.: 990056-01
Date Collected:
Project Name: BRIXMARITIME-Portland, Or.
Date Received:
Matrix: WATER
Units: µG/L
Basis: NA

Sample Name: Method Blank
Lab Code: K2403169-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02	U	

% Solids: 0.0

Comments:

00026

Form I - IN

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Units:	µg/L
Project Name:	BRIXMARITIME-Portland, Or.	Basis:	NA
Matrix:	WATER	% Solids:	0.0

Sample Name: BX-042904-3S Lab Code: K2403169-003S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Lead	70 - 130	17.8		0.02	U	20.0	89		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

00027

Form V (PART 1) - IN

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client: Anchor Environmental
Service Request: K2403169
Project No.: 990056-01
Units: µg/L
Project Name: BRIXMARITIME-Portland, Or.
Basis: NA
Matrix: WATER
% Solids: 0.0

Sample Name: BX-042904-7S
Lab Code: K2403169-007S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Lead	70 - 130	20.5		0.08		20.0	102		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
- 6 -
DUPLICATES

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name: BX-042904-3D
Lab Code: K2403169-003D

Analyte	Control Limit (%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Lead		0.02	U	0.02	U			200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

00029

Form VI - IN

METALS
-6-
DUPLICATES

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name:BX-042904-7D
Lab Code: K2403169-007D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Lead		0.08		0.09		9		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

00030

Form VI - IN

Diesel & Residual Range Organics

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-1 MW-1	**Units:**	ug/L
Lab Code:	K2403169-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	710	L	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	94	50-150	05/04/04	Acceptable
n-Triacontane	97	50-150	05/04/04	Acceptable

Comments:

00032

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-2 MW-1 Dup	**Units:**	ug/L
Lab Code:	K2403169-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	790	L	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	102	50-150	05/04/04	Acceptable
n-Triacontane	106	50-150	05/04/04	Acceptable

Comments:

Confidential Business Information BRIX002286

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-3 MW-2	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	99	50-150	05/04/04	Acceptable
n-Triacontane	104	50-150	05/04/04	Acceptable

Comments:

00034

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-4 MW-3	**Units:**	ug/L
Lab Code:	K2403169-004	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	700	Y	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	770	O	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	97	50-150	05/04/04	Acceptable
n-Triacontane	99	50-150	05/04/04	Acceptable

Comments:

00035

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-5 MW-4	**Units:**	ug/L
Lab Code:	K2403169-005	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	94	50-150	05/04/04	Acceptable
n-Triacontane	98	50-150	05/04/04	Acceptable

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-6 MW-7	**Units:**	ug/L
Lab Code:	K2403169-006	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	94	50-150	05/04/04	Acceptable
n-Triacontane	100	50-150	05/04/04	Acceptable

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-7 MW-6	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	93	50-150	05/04/04	Acceptable
n-Triacontane	96	50-150	05/04/04	Acceptable

Comments:

00038

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Diesel and Residual Range Organics

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0406199-7	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	103	50-150	05/04/04	Acceptable
n-Triacontane	106	50-150	05/04/04	Acceptable

Comments:

Confidential Business Information

BRIX002292

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169

Surrogate Recovery Summary
Diesel and Residual Range Organics

Extraction Method: EPA 3510C
Analysis Method: NWTPH-Dx

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
BX-042904-1	K2403169-001	94	97
BX-042904-2	K2403169-002	102	106
BX-042904-3	K2403169-003	99	104
BX-042904-4	K2403169-004	97	99
BX-042904-5	K2403169-005	94	98
BX-042904-6	K2403169-006	94	100
BX-042904-7	K2403169-007	93	96
BX-042904-7DUP	KWG0406199-4	98	102
Method Blank	KWG0406199-7	103	106
Lab Control Sample	KWG0406199-5	109	112
Duplicate Lab Control Sample	KWG0406199-6	105	116

Surrogate Recovery Control Limits (%)

Sur1 = o-Terphenyl	50-150
Sur2 = n-Triacontane	50-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/03/2004
Sample Matrix:	Water	**Date Analyzed:**	05/04/2004

Duplicate Sample Summary
Diesel and Residual Range Organics

Sample Name:	BX-042904-7	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx	**Extraction Lot:**	KWG0406199

Analyte Name	MRL	Sample Result	BX-042904-7DUP KWG0406199-4 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Diesel Range Organics (DRO)	250	ND	ND	ND	-	30
Residual Range Organics (RRO)	500	ND	ND	ND	-	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00041

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Extracted: 05/03/2004
Date Analyzed: 05/04/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Diesel and Residual Range Organics

Extraction Method: EPA 3510C
Analysis Method: NWTPH-Dx

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0406199

Analyte Name	Lab Control Sample KWG0406199-5 Lab Control Spike Result	Expected	%Rec	Duplicate Lab Control Sample KWG0406199-6 Duplicate Lab Control Spike Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	1160	800	145	1010	800	126	71-146	14	30
Residual Range Organics (RRO)	847	800	106	780	800	98	53-143	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00042

Gasoline Range Organics

00043

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-1 MW-1	**Units:**	ug/L
Lab Code:	K2403169-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	5800	H	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	93	50-150	05/02/04	Acceptable

Comments:

00044

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-2 MW-1 dup	**Units:**	ug/L
Lab Code:	K2403169-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	5700	H	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	93	50-150	05/02/04	Acceptable

Comments:

Confidential Business Information BRIX002298

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-3 MW-2	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	90	50-150	05/02/04	Acceptable

Comments:

Confidential Business Information BRIX002299

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-4 MW-3	**Units:**	ug/L
Lab Code:	K2403169-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	88	50-150	05/02/04	Acceptable

Comments:

Confidential Business Information BRIX002300

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-5 MW-4	**Units:**	ug/L
Lab Code:	K2403169-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	91	50-150	05/02/04	Acceptable

Comments:

00048

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-6 MW-7	**Units:**	ug/L
Lab Code:	K2403169-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	88	50-150	05/02/04	Acceptable

Comments:

00049

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-7 MW-6	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	89	50-150	05/02/04	Acceptable

Comments:

00050

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	Trip 1	**Units:**	ug/L
Lab Code:	K2403169-008	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/01/04	05/01/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	90	50-150	05/01/04	Acceptable

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Gasoline Range Organics

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0406157-3	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/01/04	05/01/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	91	50-150	05/01/04	Acceptable

Comments:

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169

Surrogate Recovery Summary
Gasoline Range Organics

Extraction Method: EPA 5030B
Analysis Method: NWTPH-Gx

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
BX-042904-1	K2403169-001	93
BX-042904-2	K2403169-002	93
BX-042904-3	K2403169-003	90
BX-042904-4	K2403169-004	88
BX-042904-5	K2403169-005	91
BX-042904-6	K2403169-006	88
BX-042904-7	K2403169-007	89
Trip 1	K2403169-008	90
BX-042904-3DUP	KWG0406157-4	90
BX-042904-7DUP	KWG0406157-6	88
Method Blank	KWG0406157-3	91
Lab Control Sample	KWG0406157-2	98
Duplicate Lab Control Sample	KWG0406157-5	98

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Difluorobenzene	50-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

00053

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Extracted: 05/02/2004
Date Analyzed: 05/02/2004

Duplicate Sample Summary
Gasoline Range Organics

Sample Name: BX-042904-3
Lab Code: K2403169-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: NWTPH-Gx

Level: Low
Extraction Lot: KWG0406157

Analyte Name	MRL	Sample Result	BX-042904-3DUP KWG0406157-4 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Gasoline Range Organics (GRO)	50	ND	ND	ND	-	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00054

Confidential Business Information

BRIX002307

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/02/2004
Sample Matrix:	Water	**Date Analyzed:**	05/02/2004

Duplicate Sample Summary
Gasoline Range Organics

Sample Name:	BX-042904-7	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx	**Extraction Lot:**	KWG0406157

Analyte Name	MRL	Sample Result	BX-042904-7DUP KWG0406157-6 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Gasoline Range Organics (GRO)	50	ND	ND	ND	-	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00055

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/01/2004
Sample Matrix:	Water	**Date Analyzed:**	05/01/2004

Lab Control Spike Summary
Gasoline Range Organics

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	NWTPH-Gx	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0406157

	Lab Control Sample KWG0406157-2 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Gasoline Range Organics (GRO)	468	500	94	73-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00056

Volatile Organic Compounds
EPA Method 8260B

00057

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-1 MW-1	**Units:**	ug/L
Lab Code:	K2403169-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Chloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Vinyl Chloride	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromomethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Chloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Trichlorofluoromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Acetone	ND	U	40	2	05/13/04	05/13/04	KWG0406967	
1,1-Dichloroethene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Methyl tert-Butyl Ether	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Carbon Disulfide	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Methylene Chloride	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
trans-1,2-Dichloroethene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1-Dichloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
2-Butanone (MEK)	ND	U	40	2	05/13/04	05/13/04	KWG0406967	
2,2-Dichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
cis-1,2-Dichloroethene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Chloroform	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromochloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1-Dichloropropene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Carbon Tetrachloride	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dichloroethane (EDC)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Benzene	**5.3**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
Trichloroethene (TCE)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromodichloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Dibromomethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
2-Hexanone	ND	U	40	2	05/13/04	05/13/04	KWG0406967	
cis-1,3-Dichloropropene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Toluene	**2.1**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
trans-1,3-Dichloropropene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1,2-Trichloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
4-Methyl-2-pentanone (MIBK)	ND	U	40	2	05/13/04	05/13/04	KWG0406967	

Comments:

00058

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-1 MW-1	**Units:**	ug/L
Lab Code:	K2403169-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Tetrachloroethene (PCE)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Dibromochloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dibromoethane (EDB)	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
Chlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1,1,2-Tetrachloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Ethylbenzene	**120**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
m,p-Xylenes	**160**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
o-Xylene	**46**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
Styrene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromoform	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Isopropylbenzene	**54**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
1,1,2,2-Tetrachloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2,3-Trichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromobenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
n-Propylbenzene	**150**	D	100	50	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
4-Chlorotoluene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,3,5-Trimethylbenzene	**150**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
tert-Butylbenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2,4-Trimethylbenzene	**590**	D	100	50	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	**20**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
1,3-Dichlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
4-Isopropyltoluene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,4-Dichlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
n-Butylbenzene	**43**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dichlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dibromo-3-chloropropane	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2,4-Trichlorobenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2,3-Trichlorobenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
Naphthalene	**250**	D	100	50	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	

Comments:

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-1	**Units:**	ug/L
Lab Code:	K2403169-001	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	85-115	05/13/04	Acceptable
Toluene-d8	104	86-114	05/13/04	Acceptable
4-Bromofluorobenzene	101	72-115	05/13/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-2 MW-1 dup	**Units:**	ug/L
Lab Code:	K2403169-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Chloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Vinyl Chloride	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromomethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Chloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Trichlorofluoromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Acetone	ND	U	40	2	05/13/04	05/13/04	KWG0406967	
1,1-Dichloroethene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Methyl tert-Butyl Ether	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Carbon Disulfide	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Methylene Chloride	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
trans-1,2-Dichloroethene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1-Dichloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
2-Butanone (MEK)	ND	U	40	2	05/13/04	05/13/04	KWG0406967	
2,2-Dichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
cis-1,2-Dichloroethene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Chloroform	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromochloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1-Dichloropropene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Carbon Tetrachloride	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dichloroethane (EDC)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Benzene	**4.7**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
Trichloroethene (TCE)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromodichloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Dibromomethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
2-Hexanone	ND	U	40	2	05/13/04	05/13/04	KWG0406967	
cis-1,3-Dichloropropene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Toluene	**1.9**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
trans-1,3-Dichloropropene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1,2-Trichloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
4-Methyl-2-pentanone (MIBK)	ND	U	40	2	05/13/04	05/13/04	KWG0406967	

Comments:

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: 04/29/2004
Date Received: 04/30/2004

Volatile Organic Compounds

Sample Name: BX-042904-2 MW-1dup
Lab Code: K2403169-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Tetrachloroethene (PCE)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Dibromochloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dibromoethane (EDB)	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
Chlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1,1,2-Tetrachloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Ethylbenzene	**110**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
m,p-Xylenes	**150**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
o-Xylene	**42**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
Styrene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromoform	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Isopropylbenzene	**52**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
1,1,2,2-Tetrachloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2,3-Trichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromobenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
n-Propylbenzene	**150**	D	100	50	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
4-Chlorotoluene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,3,5-Trimethylbenzene	**140**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
tert-Butylbenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2,4-Trimethylbenzene	**570**	D	100	50	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	**18**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
1,3-Dichlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
4-Isopropyltoluene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,4-Dichlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
n-Butylbenzene	**39**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dichlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dibromo-3-chloropropane	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2,4-Trichlorobenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2,3-Trichlorobenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
Naphthalene	**260**	D	100	50	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	

Comments:

00062

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-2	**Units:**	ug/L
Lab Code:	K2403169-002	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	85-115	05/13/04	Acceptable
Toluene-d8	103	86-114	05/13/04	Acceptable
4-Bromofluorobenzene	101	72-115	05/13/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-3 MW-2	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Acetone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Benzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Toluene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	

Comments:

Confidential Business Information BRIX002317

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-3 MW-2	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
m,p-Xylenes	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
o-Xylene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Styrene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	

Comments:

00065

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-3	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	85-115	05/12/04	Acceptable
Toluene-d8	103	86-114	05/12/04	Acceptable
4-Bromofluorobenzene	92	72-115	05/12/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-4 MW-3	**Units:**	ug/L
Lab Code:	K2403169-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Acetone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Benzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Toluene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	

Comments:

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: 04/29/2004
Date Received: 04/30/2004

Volatile Organic Compounds

Sample Name: BX-042904-4 MW-3
Lab Code: K2403169-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
m,p-Xylenes	**1.2**		0.50	1	05/12/04	05/12/04	KWG0406830	
o-Xylene	**1.1**		0.50	1	05/12/04	05/12/04	KWG0406830	
Styrene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	

Comments:

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-4	**Units:**	ug/L
Lab Code:	K2403169-004	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	85-115	05/12/04	Acceptable
Toluene-d8	104	86-114	05/12/04	Acceptable
4-Bromofluorobenzene	97	72-115	05/12/04	Acceptable

Comments:

Confidential Business Information BRIX002322

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-5 MW-4	**Units:**	ug/L
Lab Code:	K2403169-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Acetone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Benzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Toluene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	

Comments:

Confidential Business Information BRIX002323

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-5 MW-4	**Units:**	ug/L
Lab Code:	K2403169-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
m,p-Xylenes	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
o-Xylene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Styrene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	

Comments:

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-5	**Units:**	ug/L
Lab Code:	K2403169-005	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	85-115	05/12/04	Acceptable
Toluene-d8	102	86-114	05/12/04	Acceptable
4-Bromofluorobenzene	95	72-115	05/12/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-6 MW-7	**Units:**	ug/L
Lab Code:	K2403169-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Acetone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Benzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Toluene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	

Comments:

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: 04/29/2004
Date Received: 04/30/2004

Volatile Organic Compounds

Sample Name: BX-042904-6 MW-7
Lab Code: K2403169-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
m,p-Xylenes	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
o-Xylene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Styrene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	

Comments:

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-6	**Units:**	ug/L
Lab Code:	K2403169-006	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	85-115	05/12/04	Acceptable
Toluene-d8	103	86-114	05/12/04	Acceptable
4-Bromofluorobenzene	94	72-115	05/12/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-7 MW-6	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Acetone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Benzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Toluene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	

Comments:

Confidential Business Information BRIX002329

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-7 MW-6	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
m,p-Xylenes	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
o-Xylene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Styrene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	

Comments:

00077

Confidential Business Information BRIX002330

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-7	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	85-115	05/12/04	Acceptable
Toluene-d8	102	86-114	05/12/04	Acceptable
4-Bromofluorobenzene	93	72-115	05/12/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	Trip 2	**Units:**	ug/L
Lab Code:	K2403169-009	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Acetone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Benzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Toluene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	

Comments:

00079

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: 04/29/2004
Date Received: 04/30/2004

Volatile Organic Compounds

Sample Name: Trip 2
Lab Code: K2403169-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
m,p-Xylenes	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
o-Xylene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Styrene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	

Comments:

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	Trip 2	**Units:**	ug/L
Lab Code:	K2403169-009	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	85-115	05/12/04	Acceptable
Toluene-d8	103	86-114	05/12/04	Acceptable
4-Bromofluorobenzene	93	72-115	05/12/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0406830-6

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Acetone	ND	U	20	1	05/11/04	05/11/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/11/04	05/11/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Benzene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/11/04	05/11/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Toluene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/11/04	05/11/04	KWG0406830	

Comments:

00082

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0406830-6

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
m,p-Xylenes	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
o-Xylene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Styrene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	

Comments:

00083

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0406830-6	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	85-115	05/11/04	Acceptable
Toluene-d8	103	86-114	05/11/04	Acceptable
4-Bromofluorobenzene	94	72-115	05/11/04	Acceptable

Comments:

00084

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0406967-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Chloromethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Vinyl Chloride	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Bromomethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Chloroethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Trichlorofluoromethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Acetone	ND	U	20	1	05/13/04	05/13/04	KWG0406967	
1,1-Dichloroethene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Carbon Disulfide	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Methylene Chloride	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,1-Dichloroethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
2-Butanone (MEK)	ND	U	20	1	05/13/04	05/13/04	KWG0406967	
2,2-Dichloropropane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Chloroform	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Bromochloromethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,1-Dichloropropene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Carbon Tetrachloride	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Benzene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Trichloroethene (TCE)	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,2-Dichloropropane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Bromodichloromethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Dibromomethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
2-Hexanone	ND	U	20	1	05/13/04	05/13/04	KWG0406967	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Toluene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,1,2-Trichloroethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/13/04	05/13/04	KWG0406967	

Comments:

00085

Confidential Business Information BRIX002338

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0406967-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Dibromochloromethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
Chlorobenzene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Ethylbenzene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
m,p-Xylenes	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
o-Xylene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Styrene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Bromoform	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Isopropylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,2,3-Trichloropropane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Bromobenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
n-Propylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
2-Chlorotoluene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
4-Chlorotoluene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
tert-Butylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
sec-Butylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,3-Dichlorobenzene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
4-Isopropyltoluene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,4-Dichlorobenzene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
n-Butylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,2-Dichlorobenzene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
Naphthalene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
Hexachlorobutadiene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	

Comments:

00086

Confidential Business Information BRIX002339

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0406967-4	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	85-115	05/13/04	Acceptable
Toluene-d8	100	86-114	05/13/04	Acceptable
4-Bromofluorobenzene	93	72-115	05/13/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
BX-042904-1	K2403169-001	95	104	101
BX-042904-2	K2403169-002	94	103	101
BX-042904-3	K2403169-003	98	103	92
BX-042904-4	K2403169-004	98	104	97
BX-042904-5	K2403169-005	97	102	95
BX-042904-6	K2403169-006	101	103	94
BX-042904-7	K2403169-007	100	102	93
Trip 2	K2403169-009	98	103	93
Method Blank	KWG0406830-6	98	103	94
Method Blank	KWG0406967-4	96	100	93
BX-042904-3MS	KWG0406830-1	99	110	105
BX-042904-3DMS	KWG0406830-2	100	110	106
BX-042904-7MS	KWG0406830-3	102	111	106
BX-042904-7DMS	KWG0406830-4	100	111	104
Lab Control Sample	KWG0406830-5	99	110	105
Lab Control Sample	KWG0406967-3	97	107	103

Surrogate Recovery Control Limits (%)

Sur1 =	Dibromofluoromethane	85-115
Sur2 =	Toluene-d8	86-114
Sur3 =	4-Bromofluorobenzene	72-115

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/11/2004
Sample Matrix:	Water	**Date Analyzed:**	05/11/2004

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	BX-042904-3	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	KWG0406830

Analyte Name	Sample Result	BX-042904-3MS KWG0406830-1 Matrix Spike			BX-042904-3DMS KWG0406830-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,1-Dichloroethene	ND	12.0	10.0	120	11.4	10.0	114	66-147	5	30
Benzene	ND	11.6	10.0	116	11.2	10.0	112	81-130	3	30
Trichloroethene (TCE)	ND	11.2	10.0	112	10.9	10.0	109	63-138	3	30
Toluene	ND	12.1	10.0	121	12.0	10.0	120	76-130	0	30
Chlorobenzene	ND	9.98	10.0	100	9.80	10.0	98	77-123	2	30
1,2-Dichlorobenzene	ND	9.86	10.0	99	9.60	10.0	96	73-125	3	30
Naphthalene	ND	10.2	10.0	102	9.97	10.0	100	54-160	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00089

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/11/2004
Sample Matrix:	Water	**Date Analyzed:**	05/11/2004

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	BX-042904-7	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	KWG0406830

Analyte Name	Sample Result	BX-042904-7MS KWG0406830-3 Matrix Spike			BX-042904-7DMS KWG0406830-4 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,1-Dichloroethene	ND	11.7	10.0	117	11.3	10.0	113	66-147	4	30
Benzene	ND	11.4	10.0	114	11.0	10.0	110	81-130	4	30
Trichloroethene (TCE)	ND	11.0	10.0	110	10.7	10.0	107	63-138	3	30
Toluene	ND	12.0	10.0	120	11.8	10.0	118	76-130	2	30
Chlorobenzene	ND	9.90	10.0	99	9.49	10.0	95	77-123	4	30
1,2-Dichlorobenzene	ND	9.63	10.0	96	9.60	10.0	96	73-125	0	30
Naphthalene	ND	8.60	10.0	86	9.16	10.0	92	54-160	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00090

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Extracted: 05/11/2004
Date Analyzed: 05/11/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0406830

Analyte Name	Lab Control Sample KWG0406830-5 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	12.0	10.0	120	52-179
Chloromethane	10.2	10.0	102	58-129
Vinyl Chloride	10.9	10.0	109	74-138
Bromomethane	8.84	10.0	88	48-140
Chloroethane	9.09	10.0	91	66-126
Trichlorofluoromethane	9.58	10.0	96	69-129
Acetone	49.2	50.0	98	68-140
1,1-Dichloroethene	10.5	10.0	105	76-128
Methyl tert-Butyl Ether	9.86	10.0	99	67-117
Carbon Disulfide	21.8	20.0	109	69-147
Methylene Chloride	10.1	10.0	101	75-119
trans-1,2-Dichloroethene	10.6	10.0	106	79-118
1,1-Dichloroethane	10.3	10.0	103	76-120
2-Butanone (MEK)	54.6	50.0	109	75-129
2,2-Dichloropropane	9.97	10.0	100	60-142
cis-1,2-Dichloroethene	10.5	10.0	105	81-119
Chloroform	10.2	10.0	102	80-120
Bromochloromethane	10.6	10.0	106	79-125
1,1,1-Trichloroethane (TCA)	10.2	10.0	102	80-127
1,1-Dichloropropene	9.61	10.0	96	79-128
Carbon Tetrachloride	10.1	10.0	101	76-137
1,2-Dichloroethane (EDC)	10.6	10.0	106	76-125
Benzene	10.6	10.0	106	87-122
Trichloroethene (TCE)	10.1	10.0	101	82-124
1,2-Dichloropropane	10.5	10.0	105	80-117
Bromodichloromethane	10.3	10.0	103	81-120
Dibromomethane	10.6	10.0	106	81-121
2-Hexanone	46.1	50.0	92	65-135
cis-1,3-Dichloropropene	10.3	10.0	103	82-126
Toluene	11.0	10.0	110	84-120
trans-1,3-Dichloropropene	8.91	10.0	89	76-116
1,1,2-Trichloroethane	10.0	10.0	100	80-120
4-Methyl-2-pentanone (MIBK)	53.1	50.0	106	69-134
1,3-Dichloropropane	10.2	10.0	102	82-119
Tetrachloroethene (PCE)	9.16	10.0	92	79-123

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00091

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Extracted: 05/11/2004
Date Analyzed: 05/11/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0406830

	Lab Control Sample KWG0406830-5 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Dibromochloromethane	9.46	10.0	95	78-121
1,2-Dibromoethane (EDB)	9.33	10.0	93	78-121
Chlorobenzene	9.49	10.0	95	85-114
1,1,1,2-Tetrachloroethane	9.67	10.0	97	85-122
Ethylbenzene	10.5	10.0	105	89-124
m,p-Xylenes	20.8	20.0	104	89-126
o-Xylene	10.2	10.0	102	86-129
Styrene	11.2	10.0	112	90-130
Bromoform	8.84	10.0	88	80-126
Isopropylbenzene	9.09	10.0	91	76-127
1,1,2,2-Tetrachloroethane	9.97	10.0	100	66-127
1,2,3-Trichloropropane	10.2	10.0	102	76-125
Bromobenzene	10.1	10.0	101	84-121
n-Propylbenzene	10.4	10.0	104	83-134
2-Chlorotoluene	11.0	10.0	110	81-131
4-Chlorotoluene	10.6	10.0	106	80-129
1,3,5-Trimethylbenzene	10.6	10.0	106	85-131
tert-Butylbenzene	10.0	10.0	100	81-132
1,2,4-Trimethylbenzene	10.5	10.0	105	86-138
sec-Butylbenzene	10.4	10.0	104	82-137
1,3-Dichlorobenzene	9.69	10.0	97	85-119
4-Isopropyltoluene	9.43	10.0	94	78-131
1,4-Dichlorobenzene	9.61	10.0	96	83-116
n-Butylbenzene	8.62	10.0	86	73-138
1,2-Dichlorobenzene	9.60	10.0	96	82-117
1,2-Dibromo-3-chloropropane	8.40	10.0	84	66-123
1,2,4-Trichlorobenzene	8.76	10.0	88	74-136
1,2,3-Trichlorobenzene	9.03	10.0	90	72-137
Naphthalene	10.1	10.0	101	64-145
Hexachlorobutadiene	9.43	10.0	94	75-130

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/13/2004
Sample Matrix:	Water	**Date Analyzed:**	05/13/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0406967

	Lab Control Sample KWG0406967-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	7.76	10.0	78	52-179
Chloromethane	8.14	10.0	81	58-129
Vinyl Chloride	8.74	10.0	87	74-138
Bromomethane	9.32	10.0	93	48-140
Chloroethane	7.55	10.0	76	66-126
Trichlorofluoromethane	7.98	10.0	80	69-129
Acetone	48.1	50.0	96	68-140
1,1-Dichloroethene	8.79	10.0	88	76-128
Methyl tert-Butyl Ether	9.16	10.0	92	67-117
Carbon Disulfide	18.1	20.0	90	69-147
Methylene Chloride	9.02	10.0	90	75-119
trans-1,2-Dichloroethene	9.20	10.0	92	79-118
1,1-Dichloroethane	9.06	10.0	91	76-120
2-Butanone (MEK)	53.2	50.0	106	75-129
2,2-Dichloropropane	8.90	10.0	89	60-142
cis-1,2-Dichloroethene	9.19	10.0	92	81-119
Chloroform	9.07	10.0	91	80-120
Bromochloromethane	9.39	10.0	94	79-125
1,1,1-Trichloroethane (TCA)	8.96	10.0	90	80-127
1,1-Dichloropropene	8.44	10.0	84	79-128
Carbon Tetrachloride	8.98	10.0	90	76-137
1,2-Dichloroethane (EDC)	9.38	10.0	94	76-125
Benzene	9.25	10.0	93	87-122
Trichloroethene (TCE)	8.91	10.0	89	82-124
1,2-Dichloropropane	9.17	10.0	92	80-117
Bromodichloromethane	9.12	10.0	91	81-120
Dibromomethane	9.66	10.0	97	81-121
2-Hexanone	49.5	50.0	99	65-135
cis-1,3-Dichloropropene	9.22	10.0	92	82-126
Toluene	9.64	10.0	96	84-120
trans-1,3-Dichloropropene	8.47	10.0	85	76-116
1,1,2-Trichloroethane	9.40	10.0	94	80-120
4-Methyl-2-pentanone (MIBK)	50.9	50.0	102	69-134
1,3-Dichloropropane	9.36	10.0	94	82-119
Tetrachloroethene (PCE)	8.20	10.0	82	79-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00093

Confidential Business Information BRIX002346

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Extracted: 05/13/2004
Date Analyzed: 05/13/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0406967

Analyte Name	Lab Control Sample KWG0406967-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Dibromochloromethane	8.85	10.0	89	78-121
1,2-Dibromoethane (EDB)	8.69	10.0	87	78-121
Chlorobenzene	8.65	10.0	87	85-114
1,1,1,2-Tetrachloroethane	8.86	10.0	89	85-122
Ethylbenzene	9.30	10.0	93	89-124
m,p-Xylenes	18.6	20.0	93	89-126
o-Xylene	9.31	10.0	93	86-129
Styrene	10.2	10.0	102	90-130
Bromoform	8.66	10.0	87	80-126
Isopropylbenzene	8.25	10.0	83	76-127
1,1,2,2-Tetrachloroethane	9.71	10.0	97	66-127
1,2,3-Trichloropropane	9.81	10.0	98	76-125
Bromobenzene	9.24	10.0	92	84-121
n-Propylbenzene	9.57	10.0	96	83-134
2-Chlorotoluene	10.1	10.0	101	81-131
4-Chlorotoluene	9.70	10.0	97	80-129
1,3,5-Trimethylbenzene	9.58	10.0	96	85-131
tert-Butylbenzene	9.24	10.0	92	81-132
1,2,4-Trimethylbenzene	9.65	10.0	97	86-138
sec-Butylbenzene	9.47	10.0	95	82-137
1,3-Dichlorobenzene	9.03	10.0	90	85-119
4-Isopropyltoluene	8.53	10.0	85	78-131
1,4-Dichlorobenzene	8.92	10.0	89	83-116
n-Butylbenzene	7.89	10.0	79	73-138
1,2-Dichlorobenzene	8.85	10.0	89	82-117
1,2-Dibromo-3-chloropropane	8.33	10.0	83	66-123
1,2,4-Trichlorobenzene	8.20	10.0	82	74-136
1,2,3-Trichlorobenzene	8.20	10.0	82	72-137
Naphthalene	9.84	10.0	98	64-145
Hexachlorobutadiene	8.65	10.0	87	75-130

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00094

Polynuclear Aromatic Hydrocarbons
EPA Method 8270C

00095

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-1 MW-1	**Units:**	ug/L
Lab Code:	K2403169-001	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**170**	D	2.0	100	05/06/04	05/14/04	KWG0406469	
2-Methylnaphthalene	**46**	D	2.0	100	05/06/04	05/14/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthene	**0.30**		0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenzofuran	**0.062**		0.020	1	05/06/04	05/14/04	KWG0406469	
Fluorene	**0.19**		0.020	1	05/06/04	05/14/04	KWG0406469	
Phenanthrene	**0.34**		0.020	1	05/06/04	05/14/04	KWG0406469	
Anthracene	**0.079**		0.020	1	05/06/04	05/14/04	KWG0406469	
Fluoranthene	**0.33**		0.020	1	05/06/04	05/14/04	KWG0406469	
Pyrene	**0.76**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benz(a)anthracene	**0.12**		0.020	1	05/06/04	05/14/04	KWG0406469	
Chrysene	**0.16**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(b)fluoranthene	**0.049**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(k)fluoranthene	**0.061**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(a)pyrene	**0.066**		0.020	1	05/06/04	05/14/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(g,h,i)perylene	**0.021**		0.020	1	05/06/04	05/14/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	65	37-107	05/14/04	Acceptable
Fluoranthene-d10	67	18-137	05/14/04	Acceptable
Terphenyl-d14	61	18-153	05/14/04	Acceptable

Comments:

Confidential Business Information

BRIX002349

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-2 MW-1 dup	**Units:**	ug/L
Lab Code:	K2403169-002	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**150**	D	2.0	100	05/06/04	05/14/04	KWG0406469	
2-Methylnaphthalene	**40**	D	2.0	100	05/06/04	05/14/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthene	**0.23**		0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenzofuran	**0.057**		0.020	1	05/06/04	05/14/04	KWG0406469	
Fluorene	**0.14**		0.020	1	05/06/04	05/14/04	KWG0406469	
Phenanthrene	**0.27**		0.020	1	05/06/04	05/14/04	KWG0406469	
Anthracene	**0.057**		0.020	1	05/06/04	05/14/04	KWG0406469	
Fluoranthene	**0.24**		0.020	1	05/06/04	05/14/04	KWG0406469	
Pyrene	**0.57**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benz(a)anthracene	**0.084**		0.020	1	05/06/04	05/14/04	KWG0406469	
Chrysene	**0.11**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(b)fluoranthene	**0.029**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(k)fluoranthene	**0.036**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(a)pyrene	**0.038**		0.020	1	05/06/04	05/14/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	49	37-107	05/14/04	Acceptable
Fluoranthene-d10	49	18-137	05/14/04	Acceptable
Terphenyl-d14	48	18-153	05/14/04	Acceptable

Comments:

00697

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-3 MW-2	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.023**		0.020	1	05/06/04	05/13/04	KWG0406469	
2-Methylnaphthalene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Acenaphthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Dibenzofuran	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Fluorene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Phenanthrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Anthracene	**0.036**		0.020	1	05/06/04	05/13/04	KWG0406469	
Fluoranthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Pyrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benz(a)anthracene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Chrysene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(b)fluoranthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(k)fluoranthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(a)pyrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	60	37-107	05/13/04	Acceptable
Fluoranthene-d10	62	18-137	05/13/04	Acceptable
Terphenyl-d14	71	18-153	05/13/04	Acceptable

Comments:

00098

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-4 MW-3	**Units:**	ug/L
Lab Code:	K2403169-004	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.35**		0.020	1	05/06/04	05/14/04	KWG0406469	
2-Methylnaphthalene	**0.34**		0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthene	**0.13**		0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenzofuran	**0.035**		0.020	1	05/06/04	05/14/04	KWG0406469	
Fluorene	**0.082**		0.020	1	05/06/04	05/14/04	KWG0406469	
Phenanthrene	**0.12**		0.020	1	05/06/04	05/14/04	KWG0406469	
Anthracene	**0.034**		0.020	1	05/06/04	05/14/04	KWG0406469	
Fluoranthene	**0.080**		0.020	1	05/06/04	05/14/04	KWG0406469	
Pyrene	**0.079**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benz(a)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Chrysene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(b)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(k)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(a)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	69	37-107	05/14/04	Acceptable
Fluoranthene-d10	70	18-137	05/14/04	Acceptable
Terphenyl-d14	43	18-153	05/14/04	Acceptable

Comments:

00099

Confidential Business Information BRIX002352

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-5 MW-4	**Units:**	ug/L
Lab Code:	K2403169-005	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.093**		0.020	1	05/06/04	05/14/04	KWG0406469	
2-Methylnaphthalene	**0.024**		0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthene	**0.061**		0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenzofuran	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Fluorene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Phenanthrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benz(a)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Chrysene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(b)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(k)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(a)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	66	37-107	05/14/04	Acceptable
Fluoranthene-d10	69	18-137	05/14/04	Acceptable
Terphenyl-d14	73	18-153	05/14/04	Acceptable

Comments:

00100

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-6 MW-7	**Units:**	ug/L
Lab Code:	K2403169-006	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.093**		0.020	1	05/06/04	05/14/04	KWG0406469	
2-Methylnaphthalene	**0.037**		0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenzofuran	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Fluorene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Phenanthrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benz(a)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Chrysene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(b)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(k)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(a)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	39	37-107	05/14/04	Acceptable
Fluoranthene-d10	42	18-137	05/14/04	Acceptable
Terphenyl-d14	41	18-153	05/14/04	Acceptable

Comments:

00101

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-7 MW-6	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
2-Methylnaphthalene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenzofuran	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Fluorene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Phenanthrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benz(a)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Chrysene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(b)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(k)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(a)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	58	37-107	05/14/04	Acceptable
Fluoranthene-d10	59	18-137	05/14/04	Acceptable
Terphenyl-d14	42	18-153	05/14/04	Acceptable

Comments:

00102

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0406469-4	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
2-Methylnaphthalene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Acenaphthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Dibenzofuran	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Fluorene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Phenanthrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Anthracene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Fluoranthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Pyrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benz(a)anthracene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Chrysene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(b)fluoranthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(k)fluoranthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(a)pyrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	59	37-107	05/13/04	Acceptable
Fluoranthene-d10	63	18-137	05/13/04	Acceptable
Terphenyl-d14	62	18-153	05/13/04	Acceptable

Comments:

00103

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3535
Analysis Method: 8270C SIM

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
BX-042904-1	K2403169-001	65	67	61
BX-042904-2	K2403169-002	49	49	48
BX-042904-3	K2403169-003	60	62	71
BX-042904-4	K2403169-004	69	70	43
BX-042904-5	K2403169-005	66	69	73
BX-042904-6	K2403169-006	39	42	41
BX-042904-7	K2403169-007	58	59	42
Method Blank	KWG0406469-4	59	63	62
BX-042904-3MS	KWG0406469-1	67	70	70
Lab Control Sample	KWG0406469-2	68	70	65
Duplicate Lab Control Sample	KWG0406469-3	71	76	66

Surrogate Recovery Control Limits (%)

Sur1 = Fluorene-d10	37-107
Sur2 = Fluoranthene-d10	18-137
Sur3 = Terphenyl-d14	18-153

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/06/2004
Sample Matrix:	Water	**Date Analyzed:**	05/13/2004

Matrix Spike Summary
Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-3	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM	**Extraction Lot:**	KWG0406469

Analyte Name	Sample Result	BX-042904-3MS KWG0406469-1 Matrix Spike Result	Expected	%Rec	%Rec Limits
Naphthalene	0.023	1.87	2.40	77	28-110
2-Methylnaphthalene	ND	1.92	2.40	80	29-107
Acenaphthylene	ND	1.98	2.40	82	42-112
Acenaphthene	ND	1.98	2.40	82	41-105
Dibenzofuran	ND	2.04	2.40	85	42-107
Fluorene	ND	2.11	2.40	88	40-115
Phenanthrene	ND	2.07	2.40	86	40-112
Anthracene	0.036	2.24	2.40	92	25-118
Fluoranthene	ND	2.22	2.40	92	32-131
Pyrene	ND	2.14	2.40	89	27-131
Benz(a)anthracene	ND	2.11	2.40	88	21-133
Chrysene	ND	2.22	2.40	92	24-128
Benzo(b)fluoranthene	ND	2.20	2.40	91	17-142
Benzo(k)fluoranthene	ND	2.46	2.40	102	19-135
Benzo(a)pyrene	ND	2.22	2.40	93	10-146
Indeno(1,2,3-cd)pyrene	ND	2.13	2.40	89	16-145
Dibenz(a,h)anthracene	ND	2.28	2.40	95	16-142
Benzo(g,h,i)perylene	ND	2.27	2.40	94	18-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

03165

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Extracted: 05/06/2004
Date Analyzed: 05/13/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3535
Analysis Method: 8270C SIM

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0406469

Analyte Name	Lab Control Sample KWG0406469-2 Lab Control Spike Result	Expected	%Rec	Duplicate Lab Control Sample KWG0406469-3 Duplicate Lab Control Spike Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	2.03	2.50	81	2.12	2.50	85	44-101	4	30
2-Methylnaphthalene	2.08	2.50	83	2.18	2.50	87	36-106	5	30
Acenaphthylene	2.12	2.50	85	2.23	2.50	89	49-114	5	30
Acenaphthene	2.15	2.50	86	2.33	2.50	93	48-107	8	30
Dibenzofuran	2.17	2.50	87	2.33	2.50	93	40-115	7	30
Fluorene	2.24	2.50	89	2.40	2.50	96	55-111	7	30
Phenanthrene	2.18	2.50	87	2.26	2.50	90	56-108	3	30
Anthracene	2.31	2.50	92	2.36	2.50	94	42-117	2	30
Fluoranthene	2.33	2.50	93	2.40	2.50	96	61-123	3	30
Pyrene	2.27	2.50	91	2.40	2.50	96	53-123	6	30
Benz(a)anthracene	2.18	2.50	87	2.26	2.50	90	53-123	3	30
Chrysene	2.33	2.50	93	2.42	2.50	97	57-118	4	30
Benzo(b)fluoranthene	2.41	2.50	96	2.43	2.50	97	57-132	1	30
Benzo(k)fluoranthene	2.62	2.50	105	2.84	2.50	113	54-126	8	30
Benzo(a)pyrene	2.39	2.50	96	2.50	2.50	100	38-142	4	30
Indeno(1,2,3-cd)pyrene	2.16	2.50	86	2.21	2.50	88	49-139	2	30
Dibenz(a,h)anthracene	2.38	2.50	95	2.39	2.50	95	47-138	0	30
Benzo(g,h,i)perylene	2.39	2.50	95	2.45	2.50	98	50-125	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00166

Appendix C

Appendix C
Data Validation Review

LABORATORY DATA REVIEW

BRIX Maritime

April 2004

This report presents a review of the samples collected from BRIX Maritime on April 29, 2004. Samples were analyzed by Columbia Analytical Services, Inc. (CAS), in Kelso, Washington. Laboratory SDG K2403169 was reviewed.

Data Qualifications

The following comments refer to the laboratory's performance in meeting the quality control (QC) specifications outlined in the analytical procedures and the Quality Assurance Project Plan (QAPP). Analytical results were reviewed using *USEPA National Functional Guidelines for Inorganics Data Review* (USEPA, 2002), and *USEPA National Functional Guidelines for Organics Data Review* (USEPA, 1999), and applying laboratory and method QC criteria.

The laboratory Sample Receipt Form states that the cooler temperatures were within ±4°C upon arrival at the laboratory. Sample transport and handling were acceptable.

Unless specifically noted in this report, laboratory results were within QC criteria.

Holding Times

All sample analyses were conducted within recommended holding times. No data were qualified due to these results.

Method Reporting Limits (MRLs)

The MRLs were acceptable.

Method Blanks

Method blanks were analyzed at the required frequency for all analyses. The method blanks were free of contamination for metals, gasoline, diesel, PAHs, and VOCs. No data were qualified due to these results.

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Trip and Field Blanks

Two trip blanks were submitted with the samples. One sample was analyzed for gasoline and the other for VOCs. The trip blanks were free of contamination. No data were qualified due to these results.

No field blanks were collected. No data were qualified due to these results.

Field Duplicates

One field duplicate was submitted with the samples; BX-042904-1 / BX-042904-2. The field duplicate results were comparable. No data were qualified due to these results.

Surrogate Recoveries

Surrogate recoveries were reported for all organic analyses. Surrogate percent recoveries were within the control limits; no data were qualified due to these results.

Laboratory Duplicate Results

The laboratory analyzed duplicates at the required frequency. All lab duplicates were within acceptable RPD limits; no data were qualified due to these results.

Matrix Spike/Matrix Spike Duplicate Results

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were conducted at the required frequency. All MS/MSD results were within permissible RPD levels and no data were qualified due to these results.

Laboratory Control Sample Results

Laboratory control sample (LCS) analyses were conducted at the required frequency. All LCS results were within the laboratory control limits. No data were qualified due to these results.

Completeness

The results reported by the laboratory were checked against chain-of-custody entries to determine if all of the requested analyses were completed. All requested analyses were conducted.

Overall Assessment

The data are judged to be acceptable for their intended use.

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REFERENCES

USEPA. 1986. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA. 2002. USEPA National Functional Guidelines for Inorganics Data Review. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency. EPA 540/R-01/008. July.

USEPA. 1999. USEPA National Functional Guidelines for Organics Data Review. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency. EPA 540/R-99/008. October.

Tables

TABLES

Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.						Site: Brix Maritime
						Project No.: 990056-01
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
Monitoring Wells						
MW-1	41.81	34.7-19.7	02/28/03	18.89	22.92	
MW-1	41.81	34.7-19.7	03/31/03	19.43	22.38	
MW-1	41.81	34.7-19.7	04/29/03	19.69	22.12	
MW-1	41.81	34.7-19.7	05/22/03	20.22	21.59	
MW-1	41.81	34.7-19.7	07/07/03	21.08	20.73	
MW-1	41.81	34.7-19.7	07/30/03	21.13	20.68	
MW-1	41.81	34.7-19.7	08/28/03	21.24	20.57	
MW-1	41.81	34.7-19.7	09/30/03	21.15	20.66	
MW-1	41.81	34.7-19.7	10/16/03	21.10	20.71	
MW-1	41.81	34.7-19.7	12/03/03	21.06	20.75	
MW-1	41.81	34.7-19.7	12/26/03	20.46	21.35	
MW-1	41.81	34.7-19.7	01/30/04	19.01	22.80	
MW-1	41.81	34.7-19.7	03/04/04	19.60	22.21	
MW-1	41.81	34.7-19.7	04/29/04	20.91	20.90	
MW-1	41.81	34.7-19.7	05/27/04	21.13	20.68	
MW-2	42.13	32.5-17.5	02/28/03	19.88	22.25	
MW-2	42.13	32.5-17.5	03/31/03	20.36	21.77	
MW-2	42.13	32.5-17.5	04/29/03	20.64	21.49	
MW-2	42.13	32.5-17.5	05/22/03	21.06	21.07	
MW-2	42.13	32.5-17.5	07/07/03	22.17	19.96	
MW-2	42.13	32.5-17.5	07/30/03	22.50	19.63	
MW-2	42.13	32.5-17.5	08/28/03	22.84	19.29	
MW-2	42.13	32.5-17.5	09/30/03	23.07	19.06	
MW-2	42.13	32.5-17.5	10/16/03	23.06	19.07	
MW-2	42.13	32.5-17.5	12/03/03	22.54	19.59	
MW-2	42.13	32.5-17.5	12/26/03	21.58	20.55	
MW-2	42.13	32.5-17.5	01/30/04	20.05	22.08	
MW-2	42.13	32.5-17.5	03/04/04	20.57	21.56	
MW-2	42.13	32.5-17.5	04/29/04	21.89	20.24	
MW-2	42.13	32.5-17.5	05/27/04	22.29	19.84	

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BRIX002224

ANCHOR ENVIRONMENTAL, L.L.C.

Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.						Site: Brix Maritime
						Project No. : 990056-01
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
MW-3	41.93	32.6-17.6	07/29/02	22.91	19.02	
MW-3	41.93	32.6-17.6	08/22/02	23.50	18.43	Oil detected in well, thickness estimated at 0.02 foot
MW-3	41.93	32.6-17.6	09/30/02	23.37	18.56	Oil detected in well, thickness estimated at 0.02 foot
MW-3	41.93	32.6-17.6	10/30/02	23.68	18.25	DTP = 23.49 (0.19 foot thick)
MW-3	41.93	32.6-17.6	11/27/02	23.30	18.63	DTP = 23.16 (0.14 foot thick)
MW-3	41.93	32.6-17.6	12/30/02	21.99	19.94	Oil noted on probe, product too thin to measure with interface probe
MW-3	41.93	32.6-17.6	02/28/03	19.75	22.18	Oil noted on probe, product too thin to measure with interface probe
MW-3	41.93	32.6-17.6	03/31/03	20.24	21.69	No oil noted on probe
MW-3	41.93	32.6-17.6	04/29/03	20.50	21.43	No oil noted on probe
MW-3	41.93	32.6-17.6	05/22/03	20.94	20.99	No oil noted on probe
MW-3	41.93	32.6-17.6	07/07/03	22.21	19.72	No oil noted on probe
MW-3	41.93	32.6-17.6	07/30/03	22.62	19.31	No oil noted on probe
MW-3	41.93	32.6-17.6	08/28/03	22.95	18.98	Oil noted on probe, product too thin to measure with interface probe
MW-3	41.93	32.6-17.6	09/30/03	23.15	18.78	DTP = 23.04 (0.11 foot thick)
MW-3	41.93	32.6-17.6	10/16/03	22.40	19.53	No oil noted on probe
MW-3	41.93	32.6-17.6	12/03/03	22.21	19.72	Sheen, product too thin to measure
MW-3	41.93	32.6-17.6	12/26/03	21.44	20.49	No oil noted on probe
MW-3	41.93	32.6-17.6	01/30/04	19.80	22.13	No oil noted on probe
MW-3	41.93	32.6-17.6	03/04/04	20.41	21.52	No oil noted on probe
MW-3	41.93	32.6-17.6	04/29/04	21.82	20.11	No oil noted on probe
MW-3	41.93	32.6-17.6	05/27/04	22.25	19.68	No oil noted on probe
MW-4	23.55	19.1-9.1	07/29/02	11.62	11.93	
MW-4	23.55	19.1-9.1	08/22/02	11.77	11.78	
MW-4	23.55	19.1-9.1	09/30/02	11.94	11.61	
MW-4	23.55	19.1-9.1	10/30/02	12.06	11.49	
MW-4	23.55	19.1-9.1	11/27/02	11.85	11.70	
MW-4	23.55	19.1-9.1	12/30/02	10.24	13.31	
MW-4	23.55	19.1-9.1	02/28/03	4.34	19.21	
MW-4	23.55	19.1-9.1	03/31/03	4.59	18.96	
MW-4	23.55	19.1-9.1	04/29/03	5.46	18.09	
MW-4	23.55	19.1-9.1	05/22/03	8.59	14.96	
MW-4	23.55	19.1-9.1	07/07/03	10.69	12.86	
MW-4	23.55	19.1-9.1	07/30/03	11.03	12.52	
MW-4	23.55	19.1-9.1	08/28/03	11.40	12.15	
MW-4	23.55	19.1-9.1	09/30/03	11.74	11.81	
MW-4	23.55	19.1-9.1	10/16/03	11.40	12.15	
MW-4	23.55	19.1-9.1	12/03/03	10.59	12.96	
MW-4	23.55	19.1-9.1	12/26/03	9.50	14.05	
MW-4	23.55	19.1-9.1	01/30/04	5.41	18.14	
MW-4	23.55	19.1-9.1	03/04/04	9.05	14.50	
MW-4	23.55	19.1-9.1	04/29/04	11.00	12.55	
MW-4	23.55	19.1-9.1	05/27/04	10.89	12.66	

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BRIX002225

ANCHOR ENVIRONMENTAL, L.L.C.

Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.						Site: Brix Maritime
						Project No. : 990056-01
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
MW-5	41.66	34.6-19.6	02/28/03	19.45	22.21	
MW-5	41.66	34.6-19.6	03/31/03	19.99	21.67	
MW-5	41.66	34.6-19.6	04/29/03	20.25	21.41	
MW-5	41.66	34.6-19.6	05/22/03	20.75	20.91	
MW-5	41.66	34.6-19.6	07/07/03	21.93	19.73	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	07/30/03	22.08	19.58	
MW-5	41.66	34.6-19.6	08/28/03	22.08	19.58	
MW-5	41.66	34.6-19.6	09/30/03	22.13	19.53	
MW-5	41.66	34.6-19.6	10/16/03	22.10	19.56	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	12/03/03	22.13	19.53	
MW-5	41.66	34.6-19.6	12/26/03	21.35	20.31	
MW-5	41.66	34.6-19.6	01/30/04	19.59	22.07	
MW-5	41.66	34.6-19.6	03/04/04	20.16	21.50	
MW-5	41.66	34.6-19.6	04/29/04	21.67	19.99	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	05/27/04	21.99	19.67	
MW-6	41.21	31.1-16.1	07/07/03	20.26	20.95	
MW-6	41.21	31.1-16.1	07/30/03	20.57	20.64	
MW-6	41.21	31.1-16.1	08/28/03	21.02	20.19	
MW-6	41.21	31.1-16.1	09/30/03	21.02	20.19	
MW-6	41.21	31.1-16.1	10/16/03	20.93	20.28	
MW-6	41.21	31.1-16.1	12/03/03	21.53	19.68	
MW-6	41.21	31.1-16.1	12/26/03	19.24	21.97	
MW-6	41.21	31.1-16.1	01/30/04	17.70	23.51	
MW-6	41.21	31.1-16.1	03/04/04	18.16	23.05	
MW-6	41.21	31.1-16.1	04/29/04	19.66	21.55	
MW-6	41.21	31.1-16.1	05/27/04	20.17	21.04	
MW-7	40.95	31.2-16.2	07/07/03	21.21	19.74	
MW-7	40.95	31.2-16.2	07/30/03	21.76	19.19	
MW-7	40.95	31.2-16.2	08/28/03	22.32	18.63	
MW-7	40.95	31.2-16.2	09/30/03	22.67	18.28	
MW-7	40.95	31.2-16.2	10/16/03	22.72	18.23	
MW-7	40.95	31.2-16.2	12/03/03	22.90	18.05	
MW-7	40.95	31.2-16.2	12/26/03	20.32	20.63	
MW-7	40.95	31.2-16.2	01/30/04	18.26	22.69	
MW-7	40.95	31.2-16.2	03/04/04	18.96	21.99	
MW-7	40.95	31.2-16.2	04/29/04	20.49	20.46	
MW-7	40.95	31.2-16.2	05/27/04	21.10	19.85	

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ANCHOR ENVIRONMENTAL, L.L.C.

Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.						Site: Brix Maritime
						Project No. : 990056-01
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
River Gauge[1]						
River	4.33	NA	10/30/02	2.75	7.08	
River	4.33	NA	11/27/02	3.1	7.43	
River	4.33	NA	12/30/02	7.5	11.83	
River	4.33	NA	02/28/03	6.1	10.43	
River	4.33	NA	03/31/03	8.0	12.33	
River	4.33	NA	04/29/03	8.0	12.33	
River	4.33	NA	05/22/03	6.5	10.83	
River	4.33	NA	07/07/03	4.0	8.33	
River	4.33	NA	07/30/03	3.5	7.83	
River	4.33	NA	08/28/03	3.3	7.63	
River	4.33	NA	09/30/03	2.1	6.43	
River	4.33	NA	10/16/03	2.2	6.53	
River	4.33	NA	12/03/03	3.5	7.83	
River	4.33	NA	12/26/03	6.7	11.03	
River	4.33	NA	01/30/04	11.0	15.33	
River	4.33	NA	03/04/04	5.0	9.33	
River	4.33	NA	04/29/04	4.0	8.33	
River	4.33	NA	05/27/04	6.6	10.93	

Note: DTW = Depth to Water; DTP = Depth to Product; NA = Not Applicable

1 - The river gauge is marked in 1-foot increments, field measurements are estimated to the closest 0.1 foot.

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ANCHOR ENVIRONMENTAL, L.L.C.

Table 2
Total Petroleum Hydrocarbons
Brix Maritime
Portland, Oregon

Location (sample depth in ft bgs)	Matrix	Date Sampled	Diesel Range Organics		Residual Range Organics		Gasoline Range Organics	
MW-1	Water	07/07/03	0.27	L	0.5	U	1.3	H
MW-1	Water	10/16/03	0.73	L	0.5	U	8.1	H
MW-1	Water	01/30/04	0.60	L	0.5	U	4.0	H
MW-1	Water	04/29/04	0.71	L	0.5	U	5.8	H
MW-1	Water	04/29/04	0.79	L	0.5	U	5.7	H
MW-2	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-2	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-2	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-2	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-3	Water	07/30/02	3.4	Y	1.6	O		
MW-3	Water	07/07/03	1.9	Y	8.5	O	0.05	U
MW-3	Water	10/16/03	0.92	Y	1.8	O	0.059	Y
MW-3	Water	01/30/04	0.79	Y	0.6	O	0.05	U
MW-3	Water	04/29/04	0.7	Y	0.77	O	0.05	U
MW-4	Water	07/29/02	0.26	U	0.52	U		
MW-4	Water	07/07/03	0.25	U	0.52	O	0.05	U
MW-4 Duplicate	Water	07/07/03	0.25	U	0.52	U	0.05	U
MW-4	Water	10/16/03	0.25	U	0.5	O	0.65	Y
MW-4 Duplicate	Water	10/16/03	0.25	U	0.5	U	0.66	Y
MW-4	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-4	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-5	Water	01/30/04	0.62	L	0.5	U	1.4	H
MW-5 Duplicate	Water	01/30/04	0.63	L	0.5	U	1.5	H
MW-6	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-6	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-6	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-6	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-7	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-7	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-7	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-7	Water	04/29/04	0.25	U	0.5	U	0.05	U

Notes: Water concentrations are in mg/L. Soil concentrations are in mg/kg.

ft bgs = feet below ground surface.

U = Not detected at method reporting limit.

O = The fingerprint resembles oil, but does not match the calibration standard.

L = The fingerprint resembles a petroleum product, but the elution pattern indicates the presence of lighter weight constituents than the calibration standard.

H = The fingerprint resembles a petroleum product, but the elution pattern indicates the presence of heavier weight constituents than the calibration standard.

Y = The fingerprint resembles a petroleum product in the correct carbon range, but the elution pattern does not match the calibration standard.

TABLE 3
Polycyclic Aromatic Hydrocarbons
Brix Maritime
Portland, Oregon

Sample Designation	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1 Dup	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4
Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Date Sampled	02/28/03	07/07/03	10/16/03	01/30/04	04/29/04	04/29/04	02/28/03	07/07/03	10/16/03	01/30/04	04/29/04	07/30/02	02/28/03	07/07/03	10/16/03	01/30/04	04/29/04	07/29/02	02/28/03
LPAHs										**LPAHs**									
Naphthalene	23 D	23 D	160 D	110 D	170 D	150 D	0.082	0.02 U	0.023	0.037	0.023	0.36	0.75	0.34	0.34	0.11	0.35	0.039	18 D
Acenaphthylene	0.19	0.02 U	0.02 U	0.15 UB	0.02 U	0.02 U	0.023	0.02 U	0.022 U	0.110 UB	0.020 U	0.02 U	0.22	0.02 U	0.02 U	0.14 UB	0.02 U	0.02 U	0.02 U
Acenaphthene	0.43	0.38	0.34	0.17	0.30	0.23	0.02 U	0.02 U	0.022 U	0.020 U	0.020 U	0.26	1.3	0.16	0.21	0.04	0.13	0.51	0.60
Dibenzofuran	0.12	0.067	0.085	0.032	0.062	0.057	0.02 U	0.02 U	0.022 U	0.020 U	0.020 U	0.025	0.11	0.02 U	0.021	0.020 U	0.035	0.02 U	0.02 U
Fluorene	0.36	0.27	0.24	0.11	0.19	0.14	0.02 U	0.02 U	0.022 U	0.020 U	0.020 U	0.09	1.0	0.1	0.11	0.037	0.082	0.02 U	0.02 U
Phenanthrene	1.8	0.56	0.42	0.16	0.34	0.27	0.15	0.02 U	0.031	0.020 U	0.020 U	0.11	2.9	0.2	0.14	0.06	0.12	0.043	0.02 U
Anthracene	0.53	0.11	0.065	0.073	0.079	0.057	0.032	0.02 U	0.022 U	0.034	0.036	0.02 U	0.55	0.039	0.022	0.032	0.034	0.02 U	0.02 U
2-Methylnaphthalene	9.0	7.9	42.0 D	40.0 D	46.0 D	40.0 D	0.02 U	0.02 U	0.022 U	0.022	0.02	0.28	1.8	0.34	0.31	0.15	0.34	0.02 U	0.80
Total LPAH	35.43	32.29	203.15	150.55	216.97	190.75	0.29		0.05	0.09	0.06	1.13	8.63	1.18	1.13	0.43	1.09	0.59	19.40
HPAHs										**HPAHs**									
Fluoranthene	4.3	0.5	0.3	0.39	0.33	0.24	0.29	0.02 U	0.070	0.022	0.02 U	0.056	4.9	0.22	0.077	0.075	0.080	0.033	0.024
Pyrene	13 D	1.2	0.9	1.6	0.76	0.57	0.42	0.02 U	0.091	0.020	0.02 U	0.058	7.6 D	0.22	0.082	0.090	0.079	0.046	0.055
Benz(a)anthracene	2.1	0.22	0.16	0.20	0.12	0.084	0.11	0.02 U	0.023	0.020	0.02 U	0.02 U	2.1 D	0.06	0.02 U	0.022	0.02 U	0.02 U	0.02 U
Chrysene	2.7	0.27	0.24	0.24	0.16	0.11	0.17	0.02 U	0.042	0.02 U	0.02 U	0.02 U	2.3 D	0.071	0.02 U	0.023	0.02 U	0.02 U	0.02 U
Benzo(b)fluoranthene	1.4	0.088	0.073	0.047	0.049	0.029	0.14	0.02 U	0.036	0.020	0.02 U	0.022	1.8 D	0.038	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(k)fluoranthene	1.1	0.098	0.096	0.053	0.061	0.036	0.13	0.02 U	0.035	0.023	0.02 U	0.02 U	1.7 D	0.065	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(a)pyrene	2.0	0.11	0.097	0.064	0.066	0.038	0.19	0.02 U	0.022 U	0.035	0.02 U	0.02 U	2.3 D	0.053	0.02 U	0.036	0.02 U	0.02 U	0.02 U
Indeno(1,2,3-cd)pyrene	1.5	0.023	0.036	0.02 U	0.02 U	0.02 U	0.20	0.02 U	0.073	0.022	0.02 U	0.02 U	1.5 D	0.041	0.02 U	0.02	0.02 U	0.02 U	0.02 U
Dibenz(a,h)anthracene	0.17	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U	0.020 U	0.02 U	0.02 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(g,h,i)perylene	1.5	0.028	0.043	0.02 U	0.021	0.20 U	0.22	0.02 U	0.090	0.020	0.02 U	0.02 U	1.9 D	0.039	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Total HPAHs	29.77	2.53	1.98	2.59	1.57	1.11	1.87		0.46	0.18		0.14	26.10	0.80	0.16	0.27	0.16	0.08	0.08

NOTE: µg/L = micrograms per liter or parts per billion.

B = detected in method blank at sigificant concentration.

J = estimated concentration.

U = not detected at or above the indicated method reporting limit.

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TABLE 3
Polycyclic Aromatic Hydrocarbons
Brix Maritime
Portland, Oregon

Sample Designation	MW-4		MW-4 Dup		MW-4		MW-4 Dup		MW-4		MW-4		MW-5		MW-5 dup		MW-5		MW-5 dup		MW-6		MW-6		MW-6		MW-6		MW-7		MW-7		MW-7		MW-7	
Matrix	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Date Sampled	07/07/03		07/07/03		10/16/03		10/16/03		01/30/04		04/29/04		02/28/03		02/28/03		01/30/04		01/30/04		07/07/03		10/16/03		01/30/04		04/29/04		07/07/03		10/16/03		01/30/04		04/29/07	
LPAHs																	**LPAHs**																			
Naphthalene	0.16		0.12		0.11		0.12		0.074		0.093		19	D	17	D	2.9		2.1		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.093	
Acenaphthylene	0.02	U	0.02	U	0.02	U	0.02	U	0.053	UB	0.02	U	0.10		0.40		0.02	U	0.02	U	0.02	U	0.02	U	0.042		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Acenaphthene	0.11		0.11		0.36		0.40		0.16		0.061		1.3		1.3		0.6		0.5		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Dibenzofuran	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.2		0.19		0.081		0.057		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Fluorene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	1.2		1.3		0.48		0.32		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Phenanthrene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	2.3		3.1		1.1		0.8		0.02	U	0.02	U	0.025		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Anthracene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.55		0.93		0.34		0.24		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
2-Methylnaphthalene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	31	D	31	D	1.5		1.1		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.04	
Total LPAH	0.27		0.23		0.47		0.52		0.23		0.15		55.64		55.22		7.02		5.02						0.07										0.13	
HPAHs																	**HPAHs**																			
Fluoranthene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	3.1	J	6.5	J	1.5		1.1		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Pyrene	0.021		0.02	U	0.02		0.024		0.02		0.02		4.3	J	9.1	J	1.8		1.4		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benz(a)anthracene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.72	J	2.80	J	0.18		0.14		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Chrysene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.96	J	3.4	J	0.22		0.17		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benzo(b)fluoranthene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.44	J	2.2	J	0.046		0.035		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benzo(k)fluoranthene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.42	J	1.9	J	0.046		0.041		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benzo(a)pyrene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.65	J	3.6	J	0.061		0.050		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Indeno(1,2,3-cd)pyrene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.49	J	2.5	J	0.03		0.022		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Dibenz(a,h)anthracene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.044	J	0.27	J	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Benzo(g,h,i)perylene	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.52	J	2.7	J	0.029		0.024		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Total HPAHs	0.021						0.024						11.64		34.97		3.91		3.00																	

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Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	Dichlorodifluoromethane	Chloromethane	Vinyl Chloride	Bromomethane	Chloroethane	Trichlorofluoromethane	Acetone	1,1-Dichloroethene	Methyl tert-Butyl Ether	Carbon Disulfide	Methylene Chloride	*trans*-1, 2-dichloroethene	1,1-Dichloroethane	2-Butanone	2,2-Dichloropropane	*cis*-1, 2-dichloroethene	Chloroform	Bromochloromethane	1,1,1-Trichloroethane	1,1-Dichloropropene	Carbon Tetrachloride
MW-1	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-1	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-1	Water	10/16/03	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
MW-1	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-1	Water	04/29/04	1 U	1 U	1 U	1 U	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	40 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW-1 Dup	Water	04/29/04	1 U	1 U	1 U	1 U	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	40 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW-2	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/30/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	07/29/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	1,2-Dichloroethane	Benzene	Trichloroethene	1,2-Dichloropropane	Bromodichloromethane	Dibromomethane	2-Hexanone	cis-1,3-Dichloropropene	Toluene	trans 1,3-Dichloropropene	1,1,2-Trichloroethane	4-Methyl-2-pentanone	1,3 Dichloropropane	Tetrachloroethene	Dibromochloromethane	1,2 Dibromoethane	Chlorobenzene	1,1,1,2-Tetrachloroethane	Ethylbenzene	m,p-Xylenes	o-Xylene	Styrene	Bromoform
MW-1	Water	02/28/03	0.5 U	**5.7**	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	**0.71**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**37**	**50**	**12**	0.5 U	0.5 U
MW-1	Water	07/07/03	0.5 U	**1.3**	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**1.1**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**11**	**18**	**2**	0.5 U	0.5 U
MW-1	Water	10/16/03	2.5 U	**32** D	2.5 U	2.5 U	2.5 U	2.5 U	100 U	2.5 U	**13** D	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	**270** D	**360** D	**110** D	2.5 U	2.5 U
MW-1	Water	01/30/04	0.5 U	**4.1**	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**0.96**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**78** D	**120**	**31**	0.5 U	0.5 U
MW-1	Water	04/29/04	1 U	**5.3** D	1 U	1 U	1 U	1 U	40 U	1 U	**2.1** D	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	**120** D	**160** D	**46** D	1 U	1 U
MW-1 Dup	Water	04/29/04	1 U	**4.7** D	1 U	1 U	1 U	1 U	40 U	1 U	**1.9** D	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	**110** D	**150** D	**42** D	1 U	1 U
MW-2	Water	02/28/03	0.5 U	0.50 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	07/07/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	10/16/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.86**	0.5 U	0.5 U	0.5 U
MW-2	Water	01/30/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	04/29/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/30/02	0.5 U	**0.73**	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**14**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**0.51**	**3.5**	**2**	0.5 U	0.5 U
MW-3	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	**0.63**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**1.2**	**1.2**	0.5 U	0.5 U
MW-3	Water	07/07/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**0.8**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**1.2**	**1.1**	0.5 U	0.5 U
MW-3	Water	10/16/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	**1.9**	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**0.51**	**2.5**	**1.5**	0.5 U	0.5 U
MW-3	Water	01/30/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.63**	**0.73**	0.5 U	0.5 U
MW-3	Water	04/29/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**1.20**	**1.1**	0.5 U	0.5 U
MW-4	Water	07/29/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	02/28/03	0.5 U	**0.76**	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**2.3**	**1.4**	**1.2**	0.5 U	0.5 U
MW-4	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.93**	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.94**	0.5 U	0.5 U	0.5 U
MW-4	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.5**	0.5 U	0.5 U
MW-4	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**15**	**12**	**0.97**	0.5 U	0.5 U
MW-5 Dup	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**16**	**14**	**1.10**	0.5 U	0.5 U
MW-5	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**1.8**	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	**2.0**	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.74**	0.5 U	0.5 U	0.5 U
MW-6	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.82**	0.5 U	0.5 U	0.5 U
MW-7	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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BRIX002232

Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	Isopropylbenzene	1,1,2,2-Tetrachloroethane	1,2,3-Trichloropropane	Bromobenzene	n-Propylbenzene	2-Chlorotoluene	4-Chlorotoluene	1,3,5-Trimethylbenzene	tert-Butylbenzene	1,2,4-Trimethylbenzene	sec-Butylbenzene	1,3-Dichlorobenzene	4-Isopropyltoluene	1,4-Dichlorobenzene	n-Butylbenzene	1,2-Dichlorobenzene	1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene	1,2,3-Trichlorobenzene	Naphthalene	Hexachlorobutadiene
MW-1	Water	02/28/03	**19**	0.5 U	0.5 U	0.5 U	**65** D	2 U	2 U	**26**	2 U	**140** D	**10**	0.5 U	2 U	0.5 U	**21**	0.5 U	0.5 U	2 U	2 U	**31**	2 U
MW-1	Water	07/07/03	**31**	0.5 U	0.5 U	0.5 U	**64** D	2 U	2 U	**9.3**	2 U	**46**	**8.2**	0.5 U	2 U	0.5 U	**14**	0.5 U	0.5 U	2 U	2 U	**22**	2 U
MW-1	Water	10/16/03	**75** D	2.5 U	2.5 U	10 U	**250** D	10 U	10 U	**280** D	10 U	**1200** D	**28** D	2.5 U	10 U	2.5 U	150 Ui	2.5 U	10 U	10 U	10 U	**460** D	10 U
MW-1	Water	01/30/04	**36**	0.5 U	0.5 U	0.5 U	**140** D	2 U	2 U	**100** D	2 U	**510** D	**17**	0.5 U	2 U	0.5 U	**46**	0.5 U	0.5 U	2 U	2 U	**210** D	2 U
MW-1	Water	04/29/04	**54** D	1 U	1 U	1 U	**150** D	4 U	4 U	**150** D	4 U	**590** D	**20** D	1 U	4 U	1 U	**43** D	1 U	1 U	4 U	4 U	**250** D	4 U
MW-1 Dup	Water	04/29/04	**52** D	1 U	1 U	1 U	**150** D	4 U	4 U	**140** D	4 U	**570** D	**18** D	1 U	4 U	1 U	**39** D	1 U	1 U	4 U	4 U	**260** D	4 U
MW-2	Water	02/28/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	07/30/02	0.5 U	0.5 U	0.5 U	0.5 U	**2.2**	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	02/28/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	07/29/02	2 U	0.5 U	0.5 U	0.5 U	**2.3**	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	02/28/03	**29**	0.5 U	0.5 U	0.5 U	**35**	2 U	2 U	**2.2**	2 U	**3.8**	2 U	0.5 U	2 U	0.5 U	**3.1**	0.5 U	0.5 U	2 U	2 U	**45**	2 U
MW-4	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4 Dup	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	10/16/03	**7.1**	0.5 U	0.5 U	0.5 U	**5.5**	2 U	2 U	2 U	2 U	2 U	**4.4**	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4 Dup	Water	10/16/03	**7.5**	0.5 U	0.5 U	0.5 U	**6.3**	2 U	2 U	2 U	2 U	2 U	**4.8**	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-5	Water	02/28/03	**24**	0.5 U	0.5 U	0.5 U	**110** D	2 U	2 U	**26**	2 U	**75** D	**27**	0.5 U	2 U	0.5 U	**87** D	0.5 U	0.5 U	2 U	2 U	**23**	2 U
MW-5 Dup	Water	02/28/03	**25**	0.5 U	0.5 U	0.5 U	**110** D	2 U	2 U	**30**	2 U	**99** D	**30**	0.5 U	**2.3**	0.5 U	**110** D	0.5 U	0.5 U	2 U	2 U	**25**	2 U
MW-5	Water	01/30/04	**9.7**	0.5 U	0.5 U	0.5 U	**49**	2 U	2 U	2 U	2 U	2 U	**38**	0.5 U	2 U	0.5 U	**82** D	0.5 U	0.5 U	2 U	2 U	**2.9**	2 U
MW-5 Dup	Water	01/30/04	**11**	0.5 U	0.5 U	0.5 U	**56**	2 U	2 U	2 U	2 U	2 U	**39**	0.5 U	2 U	0.5 U	**84** D	0.5 U	0.5 U	2 U	2 U	**3.4**	2 U
MW-6	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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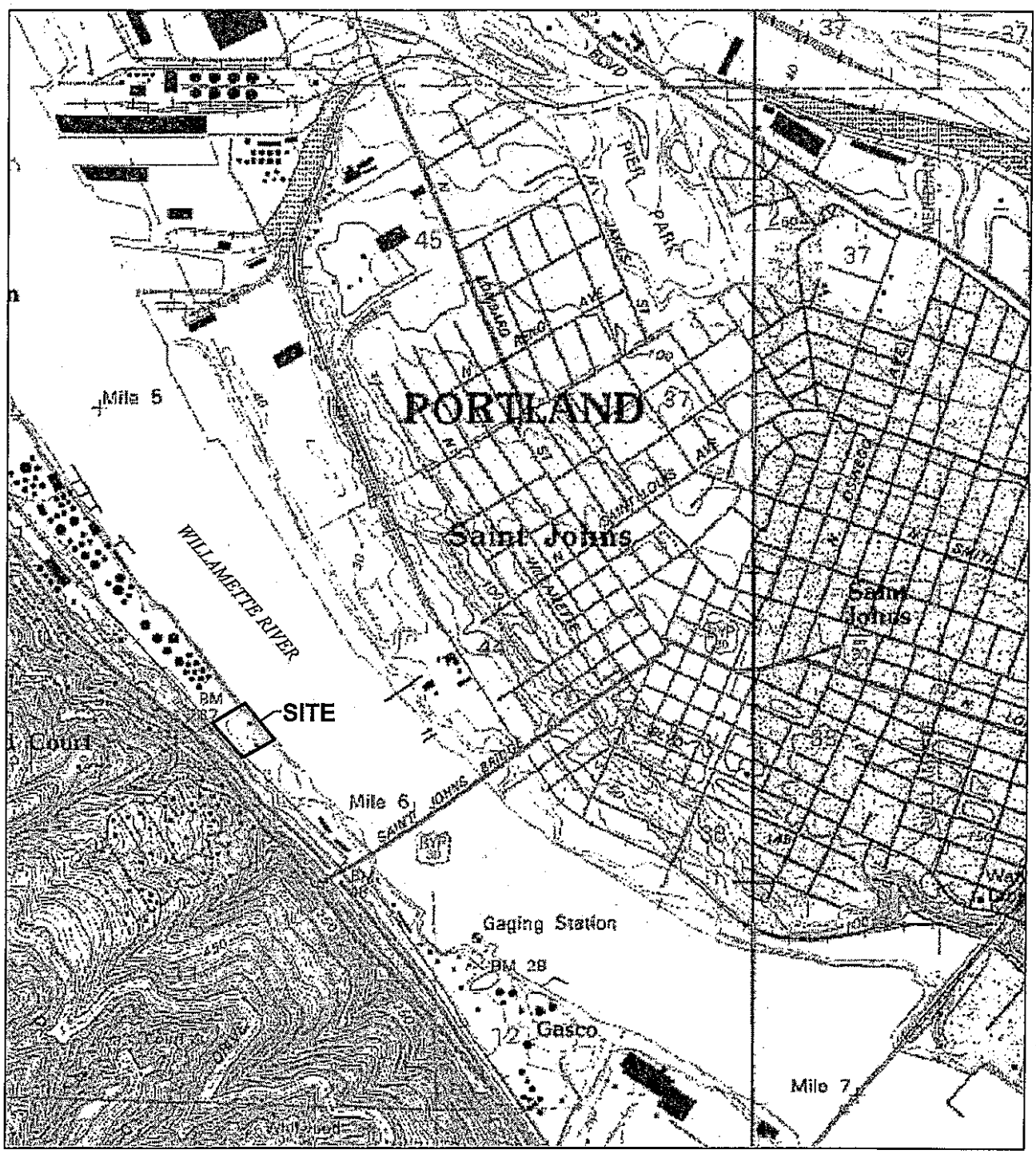
Table 5
Lead in Groundwater
Brix Maritime
Portland, Oregon

Location	Matrix	Date Sampled	Total Lead (ppb)		Dissolved Lead (ppb)	
MW-1	Water	02/28/03	288		0.03	
MW-1	Water	07/07/03	1.34		0.05	
MW-1	Water	10/16/03	1.41		0.06	
MW-1	Water	01/30/04	0.05		0.02	U
MW-1	Water	04/29/04	0.11		0.02	U
MW-1 Duplicate	Water	04/29/04	0.11		0.04	
MW-2	Water	02/28/03	57.6		0.04	
MW-2	Water	07/07/03	0.04		0.05	
MW-2	Water	10/16/03	25.9		0.58	
MW-2	Water	01/13/04	0.03		0.02	U
MW-2	Water	04/29/04	0.02	U	0.02	
MW-3	Water	07/30/02	0.88		0.13	
MW-3	Water	02/28/03	65.9		0.05	
MW-3	Water	07/07/03	0.36		0.08	
MW-3	Water	10/16/03	0.22		0.05	
MW-3	Water	01/13/04	0.1		0.05	
MW-3	Water	04/29/04	0.05		0.02	
MW-4	Water	07/29/02	0.36		0.02	U
MW-4	Water	02/28/03	0.70		0.02	U
MW-4	Water	07/07/03	0.78	J	0.02	
MW-4 Duplicate	Water	07/07/03	0.18	J	0.03	
MW-4	Water	10/16/03	0.46		0.03	
MW-4 Duplicate	Water	10/16/03	0.54		0.02	U
MW-4	Water	01/13/04	0.08		0.03	
MW-4	Water	04/29/04	0.47		0.09	
MW-5	Water	02/28/03	131		0.06	
MW-5 Duplicate	Water	02/28/03	116		0.03	
MW-5	Water	01/13/04	0.06		0.02	
MW-5 Duplicate	Water	01/13/04	0.08		0.02	
MW-6	Water	07/07/03	0.1		0.02	U
MW-6	Water	10/16/03	0.03		0.07	
MW-6	Water	01/13/03	0.09		0.02	U
MW-6	Water	04/29/04	0.08		0.03	
MW-7	Water	07/07/03	0.17		0.02	U
MW-7	Water	10/16/03	0.02	U	0.03	
MW-7	Water	01/13/04	0.1		0.02	U
MW-7	Water	04/29/04	0.02	U	0.02	

Note: U = not detected at method reporting limit. ppb = parts per billion. J = estimated
Water concentrations are in µg/L.

Figures

FIGURES



Apr 01, 2003 4:09pm cdavidson I:\CAD\Jobs\990056-Brix_Maritime\990056019900560 1-03.dwg FIG 1

ANCHOR ENVIRONMENTAL, L.L.C.

Figure 1
Site Location Map
Brix Maritime
Portland, Oregon

Source: Aerial photograph acquired from WAC, Corp. 1991.

Jul 09, 2004 9:34am cdavidson K:\Jobs\1990056-Brix_Maritime\1990056011990056011-08.dwg Fig 2

ANCHOR ENVIRONMENTAL, L.L.C.

Figure 2
Well Location and Potentiometric Surface Map (April 29, 2004)
Brix Maritime
Portland, Oregon

Appendix A

Appendix A
Field Sampling Data Package

ANCHOR ENVIRONMENTAL, L.L.C.

Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Phone 503.670.1108
Fax 503.670.1128

Memorandum

To: File 990056-01

From: Timothy J. Stone

Date: May 3, 2004

Re: April 2004 Groundwater Sample Collection at Brix Maritime, Portland, Oregon

OVERVIEW

On April 29, 2004, Anchor measured groundwater elevations in seven monitoring wells and recorded the river elevation from the staff gauge located at the site. In addition, groundwater samples were collected from six of the seven monitoring wells (MW-5 had insufficient water to sample). Seven water samples (including one duplicate sample) were submitted for analysis of VOCs by U.S. Environmental Protection Agency (USEPA) Method 8260+MTBE; gasoline by NWTPH-Gx; diesel and heavy oils by NWTPH-Dx; PAHs by USEPA Method 8270-SIM; total lead; and dissolved lead. Trip blanks were submitted for VOCs and NWTPH-Gx.

PURGING AND SAMPLING

Before sampling, wells were purged of at least three casing volumes, until field parameters (temperature, pH, and specific conductivity) stabilized, or the wells purged dry. Temperature, pH, and specific conductivity values were measured and recorded after each casing volume was removed. Field sampling parameters are presented within the attached table.

A minimum of three volumes was purged from each well using a peristaltic pump equipped with new pump tubing, and connected to polyethylene tubing dedicated to each well. Pumping rates were reduced, and samples were then collected directly from the dedicated pump tubing. Samples for dissolved lead were field-filtered using an in-line high-capacity 0.45 micron filter prior to field preservation with nitric acid.

Quality control consisted of collecting and analyzing one duplicate sample from MW-1. A trip blank was submitted for VOC analysis by USEPA Method 8260 + MTBE. A trip blank was also submitted for analysis by NWTPH-Gx method.

SAMPLE HANDLING AND SHIPPING

Nine samples were placed in iced shipping containers and transported by courier to Columbia Analytical Services (CAS), Kelso, Washington, under chain of custody documentation.

Attachments: Field Sampling Data Sheets
Chain-of-Custody Documentation

BRIX002242

Depth to Water Measurements
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.			Site: Brix Maritime	
			Project No. : 990056-01	
Well	Date (MM/DD/YY)	Time (2400)	DTW (feet)	Comments
MW-1	4/29/04	1015	20.91	No product detected / Strong gasoline odor
MW-2		1020	21.89	No product detected
MW-3		1025	21.82	No product detected
MW-4		1030	11.80	"
MW-5		1035	21.67	"
MW-6		1040	19.66	"
MW-7		1045	20.49	"
River Gauge		1022	4.0 *	NA

Note: DTW = Depth to Water; DTP = Depth to Product

* waterline

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FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-1
SITE ADDRESS: Portland, Oregon
BLIND ID: BX-042904-1
DUP ID: BX-042904-2 NA 1/4

WIND FROM: N | NE | E | SE | S | SW | (W) | NW | LIGHT | MEDIUM | (HEAVY)
WEATHER: (SUNNY) | CLOUDY | RAIN | ? TEMPERATURE: (°F) 60 °C [Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/29/04	10:15	22.15		20.91		1.24	X1	0.2
/ /	:						X3	0.6

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | (2" = 0.163) | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [N if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	4/29/04	11:30	B	6	40 ml	(HCl)	YES	NO		√
Amber Glass	/ /	:		2	250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		2	250, 500, 1L	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 20

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 11:00 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp	°C	Other	Diss O_2 (mg/l)	Water Quality
‡									
3	B	0.6	6.06	810	15.30			0.49	‡
2	B	0.4	6.11	812	15.31			0.54	‡
1	B	0.2	6.05	812	15.34			0.72	Clear/Colorless
0		0.00							

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

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FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-2
SITE ADDRESS: Portland, Oregon BLIND ID: BX-042904-3
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN				?		TEMPERATURE:	°F 60.	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/29/04	10:20	24.25		21.89		2.36	X1	0.38
/ /	:						X3	1.15

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	4/29/04	12:30	B	6	40 mL HCl	YES	NO		√
Amber Glass	/ /	:	~~B~~	2	250 500 1L (None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250 500 1L HNO_3	YES	NO		√
Red Diss. Poly	/ /	:		1	250 500 1L HNO_3	YES	YES		√
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 12

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 11:50 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	1.2	6.29	607	15.59		0.81	
2	B	0.8	6.31	606	15.64		0.95	
1	B	0.4	6.32	611	15.68		1.21	Clear/colorless
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

*2 extra bottles MS/MSD

SAMPLER: TIM STONE
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-3
SITE ADDRESS: Portland, Oregon
BLIND ID: BX-042904-4
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN		?				TEMPERATURE:	°F 65	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
4/29/04	10:25	24.60		21.82		2.78	X1	0.45
/ /	:						X3	1.35

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	4/29/04	13:20	B	6	40 ml HCl	YES	NO		√
Amber Glass	/ /	:		2	250, 500, 1L (None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L HNO_3	YES	NO		√
Red Diss. Poly	/ /	:		1	250, 500, 1L HNO_3	YES	YES		√
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 12:40 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	1.5	6.38	539	14.51		0.90	
2	B	1.0	6.41	543*	14.53		0.51	
1	B	0.5	6.43	546	14.58		0.57	Clear/Colorless
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: Tim Stone (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-4
SITE ADDRESS: Portland, Oregon
BLIND ID: BX-042904-5
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE:	°F 70	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	[Product Thickness] DTP-DTW	[Water Column] DTB-DTW	[Water Column x Gal/ft]	Volume (gal)
4/29/04	10:18	14.80		11.00		3.80	X1	0.62
/ /	:						X3	1.85

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	4/29/04	14:30	B	3	40 ml HCl	YES	NO		✓
Amber Glass	/ /	:		2	250, 500, 1L (None) (HCl) (H_2SO_4)	YES	NO		✓
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L HNO_3	YES	NO		✓
Red Diss. Poly	/ /	:		1	250, 500, 1L HNO_3	YES	YES		✓
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 14:00 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4								
3	B	2.1	6.20	423	15.22		0.32	
2	B	1.4	6.20	422	15.18		0.29	
1	B	0.7	6.20	421	15.20		0.30	Clear/colorless
0		0.00						

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-5
SITE ADDRESS: Portland, Oregon BLIND ID: No Sample *
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?	TEMPERATURE:	°F 65.	°C				

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product [Product Thickness]	DT-Water [Water Column]	DTP-DTW	DTB-DTW	[Water Column x Gal/ft]	Volume (gal)
4/29/04	10:35	22.20	.	21.67	.	0.53	X1	0.09
/ /	:	.	.	.	.		X3	0.27

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	/ /	:		3	40 ml	HCl	YES	NO		
Amber Glass	/ /	:			250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	: No Sample			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:			250, 500, 1L	HNO_3	YES	NO		
Red Diss. Poly	/ /	:			250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 0

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (EPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

No Sample

WATER QUALITY DATA

Purge Start Time: 13:30 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	0.3	.		.		.	
2	B	0.2	.		.		.	
1	B	0.1	.		.		.	slight cloudy/grey
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

** Dry at 1 volume -- did not recharge did not Sample

SAMPLER: TIM STONE (PRINTED NAME) Tim Stone (SIGNATURE)

* not enough volume for parameters

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-6
SITE ADDRESS: Portland, Oregon BLIND ID: BX-042904-7
DUP ID: NA

WIND FROM: N | NE | E | SE | S | SW | (W) | NW | LIGHT | (MEDIUM) | HEAVY
WEATHER: (SUNNY) | CLOUDY | RAIN | ? TEMPERATURE: (°F) 70 . °C
[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW [Product Thickness]	DTB-DTW [Water Column]		[Water Column x Gal/ft] Volume (gal)
4/29/04	10:40	25.05		19.66	.	5.39	X 1	0.88
/ /	:	.	.	.	.		X 3	2.64

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | (2" = 0.163) | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative (circle)	Ice	Filter	pH	√ if used
VOA Glass	4/29/04	16:00	B	3 x 40 ml	(HCl)	YES	NO		√
Amber Glass	/ /	:		4 x 250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1 x 250, 500, 1L	(HNO_3)	(YES)	(NO)		√
Red Diss. Poly	/ /	:		1 x 250, 500, 1L	(HNO_3)	(YES)	(YES)		√
	/ /	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time: :

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	2.7	6.35	513	15.27		0.28	↑
2	B	1.8	6.34	511	15.30		0.24	↑
1	B	0.9	6.34	513	15.33		0.20	Clear/colorless
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

* extra bottles for MS/MSD

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-7
SITE ADDRESS: Portland, Oregon BLIND ID: BX-042904-6
DUP ID: NA

WIND FROM: N | NE | E | SE | S | SW | W | NW
WEATHER: SUNNY | CLOUDY | RAIN | ?
LIGHT | MEDIUM | HEAVY
TEMPERATURE: °F 68 °C
(Circle appropriate units)

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product [Product Thickness]	DT-Water [Water Column]	DTP-DTW	DTB-DTW		Volume (gal) [Water Column x Gal/ft]
4/29/04	10:45	25.00	.	20.49	.	4.51	X1	0.74
/ /	:	.	.	.	.		X3	2.21

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) ~~Peristaltic Pump~~ (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	4/29/04	15:20	B	6	40 ml HCl	YES	NO		√
Amber Glass	/ /	:		2	250, 500, 1L (None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L HNO_3	YES	NO		√
Red Diss. Poly	/ /	:		1	250, 500, 1L HNO_3	YES	YES		√
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time: 14:40
Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	2.4	6.40	434	15.55		0.10	
2	B	1.6	6.39	436	15.54		0.13	
1	B	0.8	6.40	433	15.58		0.23	Clear / colorless
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

CHAIN OF CUSTODY

Columbia Analytical Services INC.
An Employee - Owned Company
1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: _____ PAGE 1 OF 1 COC #: _____

PROJECT NAME: ERIKSEN / TIME - PORTLAND, OR
PROJECT NUMBER:
PROJECT MANAGER: JOHN RENDA
COMPANY/ADDRESS: ANCHOR ENVIRONMENTAL, LLC
CITY/STATE/ZIP: 6650 SW REDWOOD LN, #110
E-MAIL ADDRESS: JRENDA@ANCHORENV.COM
PHONE #: 503-670-1108 FAX #: 670-1128
SAMPLER'S SIGNATURE: Timothy J. Stone

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ (8260☐) 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐ Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics Tri☐ Tetra☐ - 8151M PCP☐	PAHs 8310☐ (SIM☐)	Metals, Total or Dissolved (See list below)	Cyanide☐ Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	NWTPH - Dx	NWTPH - GX			REMARKS
BX-042904-1	4/29/04	1130		H2O	10		X						X	X					X	X			
-2		1140			10		X						X	X					X	X			
-3		1230			12		X						X	X					X	X			*
-4		1320			10		X						X	X					X	X			
-5		1430			10		X						X	X					X	X			
-6		1520			10		X						X	X					X	X			
-7		1600			12		X						X	X					X	X			*
TRIP BLANK 1					2															X			
TRIP BLANK 2					2		X																

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
✓ II. Report Dup.; MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

EXTRA BOTTLES for MS/MSD (PAHs + Dx)
** include MTBE w/ 8260 list

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Timothy J. Stone	Signature:	Signature:	Signature:
Date/Time: 4-29-04 / 1730	Date/Time:	Date/Time:	Date/Time:
Printed Name: TIM STONE	Printed Name:	Printed Name:	Printed Name:
Firm: ANCHOR-PDX	Firm:	Firm:	Firm:

RCOC #1 06/03

Confidential Business Information

BRIX002251

Appendix B

Appendix B
Laboratory Report

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

May 19, 2004 Service Request No: K2403169

John Renda
Anchor Environmental
6650 SW Redwood Lane Suite 110
Portland, OR 97224

RE: BRIXMARITIME-Portland, OR.

Dear John:

Enclosed are the results of the sample(s) submitted to our laboratory on April 30, 2004. For your reference, these analyses have been assigned our service request number K2403169.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC 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.

Please call if you have any questions. My extension is 3281.

Respectfully submitted,

Columbia Analytical Services, Inc.

Abbie Spielman
Project Chemist

AS/jeb

Confidential Business Information

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

00062

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

00063

Case Narrative

00004

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Anchor Environmental	**Service Request No.:**	K2403169
Project:	BRIX Maritime	**Date Received:**	4/30/04
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

Sample Receipt

Nine water samples were received for analysis at Columbia Analytical Services on 4/30/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Total Metals

No anomalies associated with the analysis of these samples were observed.

Diesel Range Organics by NWTPH-Dx

No anomalies associated with the analysis of these samples were observed.

Gasoline Range Organics by NWTPH-Gx

No anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260B

Elevated Method Reporting Limits:
Samples BX-042904-1 and BX-042904-2 required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

Initial Calibration Exceptions:
The primary evaluation criterion was exceeded for the following analytes in Initial Calibration (ICAL) ID CAL3427: Bromomethane, trans-1, 3-Dichloropropene, 2-Hexanone, Styrene, and Naphthalene. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was 9.1%. The calibration meets the alternative evaluation criteria. Note that CAS/Kelso policy does not allow the use of averaging if any analyte in the ICAL exceeds 30% RSD.

No other anomalies associated with the analysis of these samples were observed.

Polynuclear Aromatic Hydrocarbons by EPA Method 8270C

Elevated Method Reporting Limits:
Samples BX-042904-1 and BX-042904-2 required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

Approved by Allie Sprik Date 5/19/04

00005

Initial Calibration Exceptions:
The primary evaluation criterion was exceeded for the following analytes in Initial Calibration (ICAL) ID CAL3514: 2,3,5-Trimethylnaphthalene, 2,4,6-Tribromophenol, Pyrene, Dibenz (a, h) anthracene. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was 9.8%. The calibration meets the alternative evaluation criteria. Note that CAS/Kelso policy does not allow the use of averaging if any analyte in the ICAL exceeds 30% RSD.

No other anomalies associated with the analysis of these samples were observed.

Approved by _____ Date 5/19/04

00006

Chain of Custody Documentation

00067

CHAIN OF CUSTODY

Columbia Analytical Services INC.
An Employee - Owned Company

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: KZ403169

PAGE 1 OF 1 COC #

PROJECT NAME: BRIX MARITIME - PORTLAND, OR
PROJECT NUMBER:
PROJECT MANAGER: JOHN RENDA
COMPANY/ADDRESS: ANCHOR ENVIRONMENTAL, LLC
CITY/STATE/ZIP: 6650 SW REDWOOD LN, #110
E-MAIL ADDRESS: ~~[illegible]~~ JRENDA@ANCHORENV.COM
PHONE #: 503-670-1108 FAX #: 670-1128
SAMPLER'S SIGNATURE: Timothy J Stone

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐ **	Hydrocarbons (*see below) Gas☐ 8021☐ BTEX☐ Diesel☐ Oil☐ ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics Tri☐ Tetra☐ 8151M PCP☐ (PAHs) 8310☐ SIM☐	Metals (Total or Dissolved) (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, NH_3-N, BOD, TSS, TDS (circle) COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	NWTPH-Dx	NWTPH-GX			REMARKS
BX-042904-1	4/29/04	1130	1	H_2O	10		X					X	X					X	X				
-2		1140	2		10		X					X	X					X	X				
-3		1230	3		12		X					X	X					X	X				*
-4		1320	4		10		X					X	X					X	X				
-5		1430	5		10		X					X	X					X	X				
-6		1520	6		10		X					X	X					X	X				
-7		1600	7		12		X					X	X					X	X				*
TRIP BLANK 1			8		2														X				
TRIP BLANK 2			9		2		X																

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
✓ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. #
Bill To:

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

* EXTRA BOTTLES for MS/MSD (PAHs + Dx)
** include MTBE w/ 8260 list

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Signature: Tim Stone	Date/Time: 4-29-04/1730	Signature: [illegible]	Date/Time: 4/30/04 1330	Signature	Date/Time	Signature	Date/Time
Printed Name: TIM STONE	Firm: ANCHOR-PDX	Printed Name: A PINTER	Firm: CAS	Printed Name	Firm	Printed Name	Firm

RCOC #1 06/03

00008

Confidential Business Information

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

Project/Client Anchor Env. Work Order K240 3169

Cooler received on 4/30/04 and opened on 4/30/04 by TBlack

1.	Were custody seals on outside of coolers?	(Y)	N
	If yes, how many and where? Front		
2.	Were seals intact and signature & date correct?	(Y)	N
3.	Is the shipper's airbill available and filed? If no, record airbill number: CAS	(Y)	N
4.	COC#		
	Temperature of cooler(s) upon receipt: 0.4 / 1.5 / 0.1		
	Temperature Blank: n/a / n/a / n/a		
5.	Were custody papers properly filled out (ink, signed, etc.)?	(Y)	N
6.	Type of packing material present loose ice - meph - bmap		
7.	Did all bottles arrive in good condition (unbroken)?	(Y)	N
8.	Were all bottle labels complete (i.e analysis, preservation, etc.)?	(Y)	N
9.	Did all bottle labels and tags agree with custody papers?	(Y)	N
10.	Were the correct types of bottles used for the tests indicated?	(Y)	N
11.	Were all of the preserved bottles received at the lab with the appropriate pH?	(Y)	N
12.	Were VOA vials checked for absence of air bubbles, and if present, noted below?	(Y)	N
13.	Did the bottles originate from CAS/K or a branch laboratory?	(Y)	N
14.	Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?	Y	N
15.	Was C12/Res negative?	Y	N

Explain any discrepancies:

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00069

Metals

00010

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Anchor Environmental Service Request: K2403169

Project No.: 990056-01

Project Name: BRIXMARITIME-Portland, Or.

Sample No.	Lab Sample ID.
BX-042904-1	K2403169-001
BX-042904-1	K2403169-001 DISS
BX-042904-2	K2403169-002
BX-042904-2	K2403169-002 DISS
BX-042904-3	K2403169-003
BX-042904-3	K2403169-003 DISS
BX-042904-3D	K2403169-003D
BX-042904-3S	K2403169-003S
BX-042904-4	K2403169-004
BX-042904-4	K2403169-004 DISS
BX-042904-5	K2403169-005
BX-042904-5	K2403169-005 DISS
BX-042904-6	K2403169-006
BX-042904-6	K2403169-006 DISS
BX-042904-7	K2403169-007
BX-042904-7	K2403169-007 DISS
BX-042904-7D	K2403169-007D
BX-042904-7S	K2403169-007S
Method Blank	K2403169-MB

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Date: 5/14/04

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-1 MW-1
Lab Code: K2403169-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.11		

% Solids: 0.0

Comments:

00012

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-1 MW-1 Lab Code: K2403169-001 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02	U	

% Solids: 0.0

Comments:

00013

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-2 MW-1 Dup
Lab Code: K2403169-002

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.11		

% Solids: 0.0

Comments:

00014

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-2 MW-1 Dup Lab Code: K2403169-002 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.04		

% Solids: 0.0

Comments:

00015

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-3 MW-2
Lab Code: K2403169-003

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02	U	

% Solids: 0.0

Comments:

00016

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-3 MW-2 Lab Code: K2403169-003 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02		

% Solids: 0.0

Comments:

00017

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-4 MW-3
Lab Code: K2403169-004

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.05		

% Solids: 0.0

Comments:

00018

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-4 MW-3 Lab Code: K2403169-004 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02		

% Solids: 0.0

Comments:

00019

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-5 MW-4
Lab Code: K2403169-005

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.47		

% Solids: 0.0

Comments:

00020

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-5 MW-4 Lab Code: K2403169-005 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.09		

% Solids: 0.0

Comments:

00021

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-6 MW-7
Lab Code: K2403169-006

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02	U	

% Solids: 0.0

Comments:

00022

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-6 MW-7 Lab Code: K2403169-006 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02		

% Solids: 0.0

Comments:

00023

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Date Collected: 04/29/04
Date Received: 04/30/04
Units: µG/L
Basis: NA

Sample Name: BX-042904-7 MW-6
Lab Code: K2403169-007

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.08		

% Solids: 0.0

Comments:

00024

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Date Collected:	04/29/04
Project Name:	BRIXMARITIME-Portland, Or.	Date Received:	04/30/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-042904-7 MW-6 Lab Code: K2403169-007 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.03		

% Solids: 0.0

Comments:

00025

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Service Request: K2403169
Project No.: 990056-01
Date Collected:
Project Name: BRIXMARITIME-Portland, Or.
Date Received:
Matrix: WATER
Units: µG/L
Basis: NA

Sample Name: Method Blank
Lab Code: K2403169-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	5/10/04	5/13/04	0.02	U	

% Solids: 0.0

Comments:

00026

Form I - IN

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client:	Anchor Environmental	Service Request:	K2403169
Project No.:	990056-01	Units:	µg/L
Project Name:	BRIXMARITIME-Portland, Or.	Basis:	NA
Matrix:	WATER	% Solids:	0.0

Sample Name: BX-042904-3S Lab Code: K2403169-003S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Lead	70 - 130	17.8		0.02	U	20.0	89		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

00027

Form V (PART 1) - IN

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client: Anchor Environmental
Service Request: K2403169
Project No.: 990056-01
Units: µg/L
Project Name: BRIXMARITIME-Portland, Or.
Basis: NA
Matrix: WATER
% Solids: 0.0

Sample Name: BX-042904-7S
Lab Code: K2403169-007S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Lead	70 - 130	20.5		0.08		20.0	102		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
- 6 -
DUPLICATES

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name: BX-042904-3D
Lab Code: K2403169-003D

Analyte	Control Limit (%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Lead		0.02	U	0.02	U			200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

00029

Form VI - IN

METALS
-6-
DUPLICATES

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIXMARITIME-Portland, Or.
Matrix: WATER

Service Request: K2403169
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name:BX-042904-7D
Lab Code: K2403169-007D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Lead		0.08		0.09		9		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

00030

Form VI - IN

Diesel & Residual Range Organics

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-1 MW-1	**Units:**	ug/L
Lab Code:	K2403169-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	710	L	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	94	50-150	05/04/04	Acceptable
n-Triacontane	97	50-150	05/04/04	Acceptable

Comments:

00032

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-2 MW-1 Dup	**Units:**	ug/L
Lab Code:	K2403169-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	790	L	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	102	50-150	05/04/04	Acceptable
n-Triacontane	106	50-150	05/04/04	Acceptable

Comments:

Confidential Business Information BRIX002286

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-3 MW-2	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	99	50-150	05/04/04	Acceptable
n-Triacontane	104	50-150	05/04/04	Acceptable

Comments:

00034

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-4 MW-3	**Units:**	ug/L
Lab Code:	K2403169-004	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	700	Y	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	770	O	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	97	50-150	05/04/04	Acceptable
n-Triacontane	99	50-150	05/04/04	Acceptable

Comments:

00035

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-5 MW-4	**Units:**	ug/L
Lab Code:	K2403169-005	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	94	50-150	05/04/04	Acceptable
n-Triacontane	98	50-150	05/04/04	Acceptable

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-6 MW-7	**Units:**	ug/L
Lab Code:	K2403169-006	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	94	50-150	05/04/04	Acceptable
n-Triacontane	100	50-150	05/04/04	Acceptable

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Diesel and Residual Range Organics

Sample Name:	BX-042904-7 MW-6	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	93	50-150	05/04/04	Acceptable
n-Triacontane	96	50-150	05/04/04	Acceptable

Comments:

00038

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Diesel and Residual Range Organics

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0406199-7	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	05/03/04	05/04/04	KWG0406199	
Residual Range Organics (RRO)	ND	U	500	1	05/03/04	05/04/04	KWG0406199	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	103	50-150	05/04/04	Acceptable
n-Triacontane	106	50-150	05/04/04	Acceptable

Comments:

Confidential Business Information

BRIX002292

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169

Surrogate Recovery Summary
Diesel and Residual Range Organics

Extraction Method: EPA 3510C
Analysis Method: NWTPH-Dx

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
BX-042904-1	K2403169-001	94	97
BX-042904-2	K2403169-002	102	106
BX-042904-3	K2403169-003	99	104
BX-042904-4	K2403169-004	97	99
BX-042904-5	K2403169-005	94	98
BX-042904-6	K2403169-006	94	100
BX-042904-7	K2403169-007	93	96
BX-042904-7DUP	KWG0406199-4	98	102
Method Blank	KWG0406199-7	103	106
Lab Control Sample	KWG0406199-5	109	112
Duplicate Lab Control Sample	KWG0406199-6	105	116

Surrogate Recovery Control Limits (%)

Sur1 = o-Terphenyl	50-150
Sur2 = n-Triacontane	50-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/03/2004
Sample Matrix:	Water	**Date Analyzed:**	05/04/2004

Duplicate Sample Summary
Diesel and Residual Range Organics

Sample Name:	BX-042904-7	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx	**Extraction Lot:**	KWG0406199

Analyte Name	MRL	Sample Result	BX-042904-7DUP KWG0406199-4 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Diesel Range Organics (DRO)	250	ND	ND	ND	-	30
Residual Range Organics (RRO)	500	ND	ND	ND	-	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00041

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Extracted: 05/03/2004
Date Analyzed: 05/04/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Diesel and Residual Range Organics

Extraction Method: EPA 3510C
Analysis Method: NWTPH-Dx

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0406199

Analyte Name	Lab Control Sample KWG0406199-5 Lab Control Spike Result	Expected	%Rec	Duplicate Lab Control Sample KWG0406199-6 Duplicate Lab Control Spike Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	1160	800	145	1010	800	126	71-146	14	30
Residual Range Organics (RRO)	847	800	106	780	800	98	53-143	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00042

Gasoline Range Organics

00043

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-1 MW-1	**Units:**	ug/L
Lab Code:	K2403169-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	5800	H	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	93	50-150	05/02/04	Acceptable

Comments:

00044

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-2 MW-1 dup	**Units:**	ug/L
Lab Code:	K2403169-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	5700	H	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	93	50-150	05/02/04	Acceptable

Comments:

Confidential Business Information BRIX002298

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-3 MW-2	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	90	50-150	05/02/04	Acceptable

Comments:

Confidential Business Information BRIX002299

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-4 MW-3	**Units:**	ug/L
Lab Code:	K2403169-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	88	50-150	05/02/04	Acceptable

Comments:

Confidential Business Information BRIX002300

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-5 MW-4	**Units:**	ug/L
Lab Code:	K2403169-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	91	50-150	05/02/04	Acceptable

Comments:

00048

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-6 MW-7	**Units:**	ug/L
Lab Code:	K2403169-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	88	50-150	05/02/04	Acceptable

Comments:

00049

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	BX-042904-7 MW-6	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/02/04	05/02/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	89	50-150	05/02/04	Acceptable

Comments:

00050

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Gasoline Range Organics

Sample Name:	Trip 1	**Units:**	ug/L
Lab Code:	K2403169-008	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/01/04	05/01/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	90	50-150	05/01/04	Acceptable

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Gasoline Range Organics

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0406157-3	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics (GRO)	ND	U	50	1	05/01/04	05/01/04	KWG0406157	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	91	50-150	05/01/04	Acceptable

Comments:

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169

Surrogate Recovery Summary
Gasoline Range Organics

Extraction Method: EPA 5030B
Analysis Method: NWTPH-Gx

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
BX-042904-1	K2403169-001	93
BX-042904-2	K2403169-002	93
BX-042904-3	K2403169-003	90
BX-042904-4	K2403169-004	88
BX-042904-5	K2403169-005	91
BX-042904-6	K2403169-006	88
BX-042904-7	K2403169-007	89
Trip 1	K2403169-008	90
BX-042904-3DUP	KWG0406157-4	90
BX-042904-7DUP	KWG0406157-6	88
Method Blank	KWG0406157-3	91
Lab Control Sample	KWG0406157-2	98
Duplicate Lab Control Sample	KWG0406157-5	98

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Difluorobenzene	50-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

00053

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Extracted: 05/02/2004
Date Analyzed: 05/02/2004

Duplicate Sample Summary
Gasoline Range Organics

Sample Name: BX-042904-3
Lab Code: K2403169-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: NWTPH-Gx

Level: Low
Extraction Lot: KWG0406157

Analyte Name	MRL	Sample Result	BX-042904-3DUP KWG0406157-4 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Gasoline Range Organics (GRO)	50	ND	ND	ND	-	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Confidential Business Information

BRIX002307

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/02/2004
Sample Matrix:	Water	**Date Analyzed:**	05/02/2004

Duplicate Sample Summary
Gasoline Range Organics

Sample Name:	BX-042904-7	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx	**Extraction Lot:**	KWG0406157

Analyte Name	MRL	Sample Result	BX-042904-7DUP KWG0406157-6 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Gasoline Range Organics (GRO)	50	ND	ND	ND	-	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00055

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/01/2004
Sample Matrix:	Water	**Date Analyzed:**	05/01/2004

Lab Control Spike Summary
Gasoline Range Organics

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	NWTPH-Gx	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0406157

	Lab Control Sample KWG0406157-2 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Gasoline Range Organics (GRO)	468	500	94	73-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00056

Volatile Organic Compounds
EPA Method 8260B

00057

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-1 MW-1	**Units:**	ug/L
Lab Code:	K2403169-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Chloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Vinyl Chloride	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromomethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Chloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Trichlorofluoromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Acetone	ND	U	40	2	05/13/04	05/13/04	KWG0406967	
1,1-Dichloroethene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Methyl tert-Butyl Ether	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Carbon Disulfide	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Methylene Chloride	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
trans-1,2-Dichloroethene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1-Dichloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
2-Butanone (MEK)	ND	U	40	2	05/13/04	05/13/04	KWG0406967	
2,2-Dichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
cis-1,2-Dichloroethene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Chloroform	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromochloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1-Dichloropropene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Carbon Tetrachloride	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dichloroethane (EDC)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Benzene	**5.3**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
Trichloroethene (TCE)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromodichloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Dibromomethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
2-Hexanone	ND	U	40	2	05/13/04	05/13/04	KWG0406967	
cis-1,3-Dichloropropene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Toluene	**2.1**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
trans-1,3-Dichloropropene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1,2-Trichloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
4-Methyl-2-pentanone (MIBK)	ND	U	40	2	05/13/04	05/13/04	KWG0406967	

Comments:

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Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-1 MW-1	**Units:**	ug/L
Lab Code:	K2403169-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Tetrachloroethene (PCE)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Dibromochloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dibromoethane (EDB)	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
Chlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1,1,2-Tetrachloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Ethylbenzene	**120**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
m,p-Xylenes	**160**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
o-Xylene	**46**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
Styrene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromoform	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Isopropylbenzene	**54**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
1,1,2,2-Tetrachloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2,3-Trichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromobenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
n-Propylbenzene	**150**	D	100	50	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
4-Chlorotoluene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,3,5-Trimethylbenzene	**150**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
tert-Butylbenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2,4-Trimethylbenzene	**590**	D	100	50	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	**20**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
1,3-Dichlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
4-Isopropyltoluene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,4-Dichlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
n-Butylbenzene	**43**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dichlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dibromo-3-chloropropane	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2,4-Trichlorobenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2,3-Trichlorobenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
Naphthalene	**250**	D	100	50	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	

Comments:

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-1	**Units:**	ug/L
Lab Code:	K2403169-001	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	85-115	05/13/04	Acceptable
Toluene-d8	104	86-114	05/13/04	Acceptable
4-Bromofluorobenzene	101	72-115	05/13/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-2 MW-1 dup	**Units:**	ug/L
Lab Code:	K2403169-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Chloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Vinyl Chloride	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromomethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Chloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Trichlorofluoromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Acetone	ND	U	40	2	05/13/04	05/13/04	KWG0406967	
1,1-Dichloroethene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Methyl tert-Butyl Ether	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Carbon Disulfide	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Methylene Chloride	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
trans-1,2-Dichloroethene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1-Dichloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
2-Butanone (MEK)	ND	U	40	2	05/13/04	05/13/04	KWG0406967	
2,2-Dichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
cis-1,2-Dichloroethene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Chloroform	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromochloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1-Dichloropropene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Carbon Tetrachloride	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dichloroethane (EDC)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Benzene	**4.7**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
Trichloroethene (TCE)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromodichloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Dibromomethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
2-Hexanone	ND	U	40	2	05/13/04	05/13/04	KWG0406967	
cis-1,3-Dichloropropene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Toluene	**1.9**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
trans-1,3-Dichloropropene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1,2-Trichloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
4-Methyl-2-pentanone (MIBK)	ND	U	40	2	05/13/04	05/13/04	KWG0406967	

Comments:

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: 04/29/2004
Date Received: 04/30/2004

Volatile Organic Compounds

Sample Name: BX-042904-2 MW-1dup
Lab Code: K2403169-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Tetrachloroethene (PCE)	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Dibromochloromethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dibromoethane (EDB)	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
Chlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,1,1,2-Tetrachloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Ethylbenzene	**110**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
m,p-Xylenes	**150**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
o-Xylene	**42**	D	1.0	2	05/13/04	05/13/04	KWG0406967	
Styrene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromoform	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Isopropylbenzene	**52**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
1,1,2,2-Tetrachloroethane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2,3-Trichloropropane	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
Bromobenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
n-Propylbenzene	**150**	D	100	50	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
4-Chlorotoluene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,3,5-Trimethylbenzene	**140**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
tert-Butylbenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2,4-Trimethylbenzene	**570**	D	100	50	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	**18**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
1,3-Dichlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
4-Isopropyltoluene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,4-Dichlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
n-Butylbenzene	**39**	D	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dichlorobenzene	ND	U	1.0	2	05/13/04	05/13/04	KWG0406967	
1,2-Dibromo-3-chloropropane	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2,4-Trichlorobenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
1,2,3-Trichlorobenzene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	
Naphthalene	**260**	D	100	50	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	4.0	2	05/13/04	05/13/04	KWG0406967	

Comments:

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Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-2	**Units:**	ug/L
Lab Code:	K2403169-002	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	85-115	05/13/04	Acceptable
Toluene-d8	103	86-114	05/13/04	Acceptable
4-Bromofluorobenzene	101	72-115	05/13/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-3 MW-2	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Acetone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Benzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Toluene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	

Comments:

Confidential Business Information BRIX002317

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-3 MW-2	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
m,p-Xylenes	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
o-Xylene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Styrene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	

Comments:

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Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-3	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	85-115	05/12/04	Acceptable
Toluene-d8	103	86-114	05/12/04	Acceptable
4-Bromofluorobenzene	92	72-115	05/12/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-4 MW-3	**Units:**	ug/L
Lab Code:	K2403169-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Acetone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Benzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Toluene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	

Comments:

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: 04/29/2004
Date Received: 04/30/2004

Volatile Organic Compounds

Sample Name: BX-042904-4 MW-3
Lab Code: K2403169-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
m,p-Xylenes	**1.2**		0.50	1	05/12/04	05/12/04	KWG0406830	
o-Xylene	**1.1**		0.50	1	05/12/04	05/12/04	KWG0406830	
Styrene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	

Comments:

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-4	**Units:**	ug/L
Lab Code:	K2403169-004	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	85-115	05/12/04	Acceptable
Toluene-d8	104	86-114	05/12/04	Acceptable
4-Bromofluorobenzene	97	72-115	05/12/04	Acceptable

Comments:

Confidential Business Information BRIX002322

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-5 MW-4	**Units:**	ug/L
Lab Code:	K2403169-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Acetone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Benzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Toluene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	

Comments:

Confidential Business Information BRIX002323

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-5 MW-4	**Units:**	ug/L
Lab Code:	K2403169-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
m,p-Xylenes	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
o-Xylene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Styrene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	

Comments:

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-5	**Units:**	ug/L
Lab Code:	K2403169-005	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	85-115	05/12/04	Acceptable
Toluene-d8	102	86-114	05/12/04	Acceptable
4-Bromofluorobenzene	95	72-115	05/12/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-6 MW-7	**Units:**	ug/L
Lab Code:	K2403169-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Acetone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Benzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Toluene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	

Comments:

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: 04/29/2004
Date Received: 04/30/2004

Volatile Organic Compounds

Sample Name: BX-042904-6 MW-7
Lab Code: K2403169-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
m,p-Xylenes	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
o-Xylene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Styrene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	

Comments:

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-6	**Units:**	ug/L
Lab Code:	K2403169-006	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	85-115	05/12/04	Acceptable
Toluene-d8	103	86-114	05/12/04	Acceptable
4-Bromofluorobenzene	94	72-115	05/12/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-7 MW-6	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Acetone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Benzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Toluene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	

Comments:

Confidential Business Information BRIX002329

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-7 MW-6	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
m,p-Xylenes	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
o-Xylene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Styrene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	

Comments:

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Confidential Business Information BRIX002330

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	BX-042904-7	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	85-115	05/12/04	Acceptable
Toluene-d8	102	86-114	05/12/04	Acceptable
4-Bromofluorobenzene	93	72-115	05/12/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	Trip 2	**Units:**	ug/L
Lab Code:	K2403169-009	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Acetone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Benzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/12/04	05/12/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Toluene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/12/04	05/12/04	KWG0406830	

Comments:

00079

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: 04/29/2004
Date Received: 04/30/2004

Volatile Organic Compounds

Sample Name: Trip 2
Lab Code: K2403169-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
m,p-Xylenes	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
o-Xylene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Styrene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/12/04	05/12/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/12/04	05/12/04	KWG0406830	

Comments:

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Volatile Organic Compounds

Sample Name:	Trip 2	**Units:**	ug/L
Lab Code:	K2403169-009	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	85-115	05/12/04	Acceptable
Toluene-d8	103	86-114	05/12/04	Acceptable
4-Bromofluorobenzene	93	72-115	05/12/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0406830-6

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Chloromethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Vinyl Chloride	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Bromomethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Chloroethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Trichlorofluoromethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Acetone	ND	U	20	1	05/11/04	05/11/04	KWG0406830	
1,1-Dichloroethene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Carbon Disulfide	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Methylene Chloride	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,1-Dichloroethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
2-Butanone (MEK)	ND	U	20	1	05/11/04	05/11/04	KWG0406830	
2,2-Dichloropropane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Chloroform	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Bromochloromethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,1-Dichloropropene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Carbon Tetrachloride	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Benzene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Trichloroethene (TCE)	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,2-Dichloropropane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Bromodichloromethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Dibromomethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
2-Hexanone	ND	U	20	1	05/11/04	05/11/04	KWG0406830	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Toluene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,1,2-Trichloroethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/11/04	05/11/04	KWG0406830	

Comments:

00082

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0406830-6

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Dibromochloromethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
Chlorobenzene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Ethylbenzene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
m,p-Xylenes	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
o-Xylene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Styrene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Bromoform	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Isopropylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,2,3-Trichloropropane	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
Bromobenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
n-Propylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
2-Chlorotoluene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
4-Chlorotoluene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
tert-Butylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
sec-Butylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,3-Dichlorobenzene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
4-Isopropyltoluene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,4-Dichlorobenzene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
n-Butylbenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,2-Dichlorobenzene	ND	U	0.50	1	05/11/04	05/11/04	KWG0406830	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
Naphthalene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	
Hexachlorobutadiene	ND	U	2.0	1	05/11/04	05/11/04	KWG0406830	

Comments:

00083

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0406830-6	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	85-115	05/11/04	Acceptable
Toluene-d8	103	86-114	05/11/04	Acceptable
4-Bromofluorobenzene	94	72-115	05/11/04	Acceptable

Comments:

00084

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0406967-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Chloromethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Vinyl Chloride	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Bromomethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Chloroethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Trichlorofluoromethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Acetone	ND	U	20	1	05/13/04	05/13/04	KWG0406967	
1,1-Dichloroethene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Carbon Disulfide	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Methylene Chloride	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,1-Dichloroethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
2-Butanone (MEK)	ND	U	20	1	05/13/04	05/13/04	KWG0406967	
2,2-Dichloropropane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Chloroform	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Bromochloromethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,1-Dichloropropene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Carbon Tetrachloride	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Benzene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Trichloroethene (TCE)	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,2-Dichloropropane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Bromodichloromethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Dibromomethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
2-Hexanone	ND	U	20	1	05/13/04	05/13/04	KWG0406967	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Toluene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,1,2-Trichloroethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	05/13/04	05/13/04	KWG0406967	

Comments:

00085

Confidential Business Information BRIX002338

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0406967-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Tetrachloroethene (PCE)	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Dibromochloromethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
Chlorobenzene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Ethylbenzene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
m,p-Xylenes	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
o-Xylene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Styrene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Bromoform	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Isopropylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,2,3-Trichloropropane	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
Bromobenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
n-Propylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
2-Chlorotoluene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
4-Chlorotoluene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,3,5-Trimethylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
tert-Butylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,2,4-Trimethylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
sec-Butylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,3-Dichlorobenzene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
4-Isopropyltoluene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,4-Dichlorobenzene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
n-Butylbenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,2-Dichlorobenzene	ND	U	0.50	1	05/13/04	05/13/04	KWG0406967	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,2,4-Trichlorobenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
1,2,3-Trichlorobenzene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
Naphthalene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	
Hexachlorobutadiene	ND	U	2.0	1	05/13/04	05/13/04	KWG0406967	

Comments:

00086

Confidential Business Information BRIX002339

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0406967-4	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	85-115	05/13/04	Acceptable
Toluene-d8	100	86-114	05/13/04	Acceptable
4-Bromofluorobenzene	93	72-115	05/13/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
BX-042904-1	K2403169-001	95	104	101
BX-042904-2	K2403169-002	94	103	101
BX-042904-3	K2403169-003	98	103	92
BX-042904-4	K2403169-004	98	104	97
BX-042904-5	K2403169-005	97	102	95
BX-042904-6	K2403169-006	101	103	94
BX-042904-7	K2403169-007	100	102	93
Trip 2	K2403169-009	98	103	93
Method Blank	KWG0406830-6	98	103	94
Method Blank	KWG0406967-4	96	100	93
BX-042904-3MS	KWG0406830-1	99	110	105
BX-042904-3DMS	KWG0406830-2	100	110	106
BX-042904-7MS	KWG0406830-3	102	111	106
BX-042904-7DMS	KWG0406830-4	100	111	104
Lab Control Sample	KWG0406830-5	99	110	105
Lab Control Sample	KWG0406967-3	97	107	103

Surrogate Recovery Control Limits (%)

Sur1 =	Dibromofluoromethane	85-115
Sur2 =	Toluene-d8	86-114
Sur3 =	4-Bromofluorobenzene	72-115

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

00088

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/11/2004
Sample Matrix:	Water	**Date Analyzed:**	05/11/2004

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	BX-042904-3	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	KWG0406830

Analyte Name	Sample Result	BX-042904-3MS KWG0406830-1 Matrix Spike			BX-042904-3DMS KWG0406830-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,1-Dichloroethene	ND	12.0	10.0	120	11.4	10.0	114	66-147	5	30
Benzene	ND	11.6	10.0	116	11.2	10.0	112	81-130	3	30
Trichloroethene (TCE)	ND	11.2	10.0	112	10.9	10.0	109	63-138	3	30
Toluene	ND	12.1	10.0	121	12.0	10.0	120	76-130	0	30
Chlorobenzene	ND	9.98	10.0	100	9.80	10.0	98	77-123	2	30
1,2-Dichlorobenzene	ND	9.86	10.0	99	9.60	10.0	96	73-125	3	30
Naphthalene	ND	10.2	10.0	102	9.97	10.0	100	54-160	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00089

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/11/2004
Sample Matrix:	Water	**Date Analyzed:**	05/11/2004

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	BX-042904-7	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	KWG0406830

Analyte Name	Sample Result	BX-042904-7MS KWG0406830-3 Matrix Spike			BX-042904-7DMS KWG0406830-4 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,1-Dichloroethene	ND	11.7	10.0	117	11.3	10.0	113	66-147	4	30
Benzene	ND	11.4	10.0	114	11.0	10.0	110	81-130	4	30
Trichloroethene (TCE)	ND	11.0	10.0	110	10.7	10.0	107	63-138	3	30
Toluene	ND	12.0	10.0	120	11.8	10.0	118	76-130	2	30
Chlorobenzene	ND	9.90	10.0	99	9.49	10.0	95	77-123	4	30
1,2-Dichlorobenzene	ND	9.63	10.0	96	9.60	10.0	96	73-125	0	30
Naphthalene	ND	8.60	10.0	86	9.16	10.0	92	54-160	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00090

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Extracted: 05/11/2004
Date Analyzed: 05/11/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0406830

Analyte Name	Lab Control Sample KWG0406830-5 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	12.0	10.0	120	52-179
Chloromethane	10.2	10.0	102	58-129
Vinyl Chloride	10.9	10.0	109	74-138
Bromomethane	8.84	10.0	88	48-140
Chloroethane	9.09	10.0	91	66-126
Trichlorofluoromethane	9.58	10.0	96	69-129
Acetone	49.2	50.0	98	68-140
1,1-Dichloroethene	10.5	10.0	105	76-128
Methyl tert-Butyl Ether	9.86	10.0	99	67-117
Carbon Disulfide	21.8	20.0	109	69-147
Methylene Chloride	10.1	10.0	101	75-119
trans-1,2-Dichloroethene	10.6	10.0	106	79-118
1,1-Dichloroethane	10.3	10.0	103	76-120
2-Butanone (MEK)	54.6	50.0	109	75-129
2,2-Dichloropropane	9.97	10.0	100	60-142
cis-1,2-Dichloroethene	10.5	10.0	105	81-119
Chloroform	10.2	10.0	102	80-120
Bromochloromethane	10.6	10.0	106	79-125
1,1,1-Trichloroethane (TCA)	10.2	10.0	102	80-127
1,1-Dichloropropene	9.61	10.0	96	79-128
Carbon Tetrachloride	10.1	10.0	101	76-137
1,2-Dichloroethane (EDC)	10.6	10.0	106	76-125
Benzene	10.6	10.0	106	87-122
Trichloroethene (TCE)	10.1	10.0	101	82-124
1,2-Dichloropropane	10.5	10.0	105	80-117
Bromodichloromethane	10.3	10.0	103	81-120
Dibromomethane	10.6	10.0	106	81-121
2-Hexanone	46.1	50.0	92	65-135
cis-1,3-Dichloropropene	10.3	10.0	103	82-126
Toluene	11.0	10.0	110	84-120
trans-1,3-Dichloropropene	8.91	10.0	89	76-116
1,1,2-Trichloroethane	10.0	10.0	100	80-120
4-Methyl-2-pentanone (MIBK)	53.1	50.0	106	69-134
1,3-Dichloropropane	10.2	10.0	102	82-119
Tetrachloroethene (PCE)	9.16	10.0	92	79-123

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00091

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Extracted: 05/11/2004
Date Analyzed: 05/11/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0406830

	Lab Control Sample KWG0406830-5 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Dibromochloromethane	9.46	10.0	95	78-121
1,2-Dibromoethane (EDB)	9.33	10.0	93	78-121
Chlorobenzene	9.49	10.0	95	85-114
1,1,1,2-Tetrachloroethane	9.67	10.0	97	85-122
Ethylbenzene	10.5	10.0	105	89-124
m,p-Xylenes	20.8	20.0	104	89-126
o-Xylene	10.2	10.0	102	86-129
Styrene	11.2	10.0	112	90-130
Bromoform	8.84	10.0	88	80-126
Isopropylbenzene	9.09	10.0	91	76-127
1,1,2,2-Tetrachloroethane	9.97	10.0	100	66-127
1,2,3-Trichloropropane	10.2	10.0	102	76-125
Bromobenzene	10.1	10.0	101	84-121
n-Propylbenzene	10.4	10.0	104	83-134
2-Chlorotoluene	11.0	10.0	110	81-131
4-Chlorotoluene	10.6	10.0	106	80-129
1,3,5-Trimethylbenzene	10.6	10.0	106	85-131
tert-Butylbenzene	10.0	10.0	100	81-132
1,2,4-Trimethylbenzene	10.5	10.0	105	86-138
sec-Butylbenzene	10.4	10.0	104	82-137
1,3-Dichlorobenzene	9.69	10.0	97	85-119
4-Isopropyltoluene	9.43	10.0	94	78-131
1,4-Dichlorobenzene	9.61	10.0	96	83-116
n-Butylbenzene	8.62	10.0	86	73-138
1,2-Dichlorobenzene	9.60	10.0	96	82-117
1,2-Dibromo-3-chloropropane	8.40	10.0	84	66-123
1,2,4-Trichlorobenzene	8.76	10.0	88	74-136
1,2,3-Trichlorobenzene	9.03	10.0	90	72-137
Naphthalene	10.1	10.0	101	64-145
Hexachlorobutadiene	9.43	10.0	94	75-130

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00092

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/13/2004
Sample Matrix:	Water	**Date Analyzed:**	05/13/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0406967

	Lab Control Sample KWG0406967-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	7.76	10.0	78	52-179
Chloromethane	8.14	10.0	81	58-129
Vinyl Chloride	8.74	10.0	87	74-138
Bromomethane	9.32	10.0	93	48-140
Chloroethane	7.55	10.0	76	66-126
Trichlorofluoromethane	7.98	10.0	80	69-129
Acetone	48.1	50.0	96	68-140
1,1-Dichloroethene	8.79	10.0	88	76-128
Methyl tert-Butyl Ether	9.16	10.0	92	67-117
Carbon Disulfide	18.1	20.0	90	69-147
Methylene Chloride	9.02	10.0	90	75-119
trans-1,2-Dichloroethene	9.20	10.0	92	79-118
1,1-Dichloroethane	9.06	10.0	91	76-120
2-Butanone (MEK)	53.2	50.0	106	75-129
2,2-Dichloropropane	8.90	10.0	89	60-142
cis-1,2-Dichloroethene	9.19	10.0	92	81-119
Chloroform	9.07	10.0	91	80-120
Bromochloromethane	9.39	10.0	94	79-125
1,1,1-Trichloroethane (TCA)	8.96	10.0	90	80-127
1,1-Dichloropropene	8.44	10.0	84	79-128
Carbon Tetrachloride	8.98	10.0	90	76-137
1,2-Dichloroethane (EDC)	9.38	10.0	94	76-125
Benzene	9.25	10.0	93	87-122
Trichloroethene (TCE)	8.91	10.0	89	82-124
1,2-Dichloropropane	9.17	10.0	92	80-117
Bromodichloromethane	9.12	10.0	91	81-120
Dibromomethane	9.66	10.0	97	81-121
2-Hexanone	49.5	50.0	99	65-135
cis-1,3-Dichloropropene	9.22	10.0	92	82-126
Toluene	9.64	10.0	96	84-120
trans-1,3-Dichloropropene	8.47	10.0	85	76-116
1,1,2-Trichloroethane	9.40	10.0	94	80-120
4-Methyl-2-pentanone (MIBK)	50.9	50.0	102	69-134
1,3-Dichloropropane	9.36	10.0	94	82-119
Tetrachloroethene (PCE)	8.20	10.0	82	79-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00093

Confidential Business Information BRIX002346

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Extracted: 05/13/2004
Date Analyzed: 05/13/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0406967

Analyte Name	Lab Control Sample KWG0406967-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Dibromochloromethane	8.85	10.0	89	78-121
1,2-Dibromoethane (EDB)	8.69	10.0	87	78-121
Chlorobenzene	8.65	10.0	87	85-114
1,1,1,2-Tetrachloroethane	8.86	10.0	89	85-122
Ethylbenzene	9.30	10.0	93	89-124
m,p-Xylenes	18.6	20.0	93	89-126
o-Xylene	9.31	10.0	93	86-129
Styrene	10.2	10.0	102	90-130
Bromoform	8.66	10.0	87	80-126
Isopropylbenzene	8.25	10.0	83	76-127
1,1,2,2-Tetrachloroethane	9.71	10.0	97	66-127
1,2,3-Trichloropropane	9.81	10.0	98	76-125
Bromobenzene	9.24	10.0	92	84-121
n-Propylbenzene	9.57	10.0	96	83-134
2-Chlorotoluene	10.1	10.0	101	81-131
4-Chlorotoluene	9.70	10.0	97	80-129
1,3,5-Trimethylbenzene	9.58	10.0	96	85-131
tert-Butylbenzene	9.24	10.0	92	81-132
1,2,4-Trimethylbenzene	9.65	10.0	97	86-138
sec-Butylbenzene	9.47	10.0	95	82-137
1,3-Dichlorobenzene	9.03	10.0	90	85-119
4-Isopropyltoluene	8.53	10.0	85	78-131
1,4-Dichlorobenzene	8.92	10.0	89	83-116
n-Butylbenzene	7.89	10.0	79	73-138
1,2-Dichlorobenzene	8.85	10.0	89	82-117
1,2-Dibromo-3-chloropropane	8.33	10.0	83	66-123
1,2,4-Trichlorobenzene	8.20	10.0	82	74-136
1,2,3-Trichlorobenzene	8.20	10.0	82	72-137
Naphthalene	9.84	10.0	98	64-145
Hexachlorobutadiene	8.65	10.0	87	75-130

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00094

Polynuclear Aromatic Hydrocarbons
EPA Method 8270C

00095

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-1 MW-1	**Units:**	ug/L
Lab Code:	K2403169-001	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**170**	D	2.0	100	05/06/04	05/14/04	KWG0406469	
2-Methylnaphthalene	**46**	D	2.0	100	05/06/04	05/14/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthene	**0.30**		0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenzofuran	**0.062**		0.020	1	05/06/04	05/14/04	KWG0406469	
Fluorene	**0.19**		0.020	1	05/06/04	05/14/04	KWG0406469	
Phenanthrene	**0.34**		0.020	1	05/06/04	05/14/04	KWG0406469	
Anthracene	**0.079**		0.020	1	05/06/04	05/14/04	KWG0406469	
Fluoranthene	**0.33**		0.020	1	05/06/04	05/14/04	KWG0406469	
Pyrene	**0.76**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benz(a)anthracene	**0.12**		0.020	1	05/06/04	05/14/04	KWG0406469	
Chrysene	**0.16**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(b)fluoranthene	**0.049**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(k)fluoranthene	**0.061**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(a)pyrene	**0.066**		0.020	1	05/06/04	05/14/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(g,h,i)perylene	**0.021**		0.020	1	05/06/04	05/14/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	65	37-107	05/14/04	Acceptable
Fluoranthene-d10	67	18-137	05/14/04	Acceptable
Terphenyl-d14	61	18-153	05/14/04	Acceptable

Comments:

Confidential Business Information

BRIX002349

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-2 MW-1 dup	**Units:**	ug/L
Lab Code:	K2403169-002	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**150**	D	2.0	100	05/06/04	05/14/04	KWG0406469	
2-Methylnaphthalene	**40**	D	2.0	100	05/06/04	05/14/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthene	**0.23**		0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenzofuran	**0.057**		0.020	1	05/06/04	05/14/04	KWG0406469	
Fluorene	**0.14**		0.020	1	05/06/04	05/14/04	KWG0406469	
Phenanthrene	**0.27**		0.020	1	05/06/04	05/14/04	KWG0406469	
Anthracene	**0.057**		0.020	1	05/06/04	05/14/04	KWG0406469	
Fluoranthene	**0.24**		0.020	1	05/06/04	05/14/04	KWG0406469	
Pyrene	**0.57**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benz(a)anthracene	**0.084**		0.020	1	05/06/04	05/14/04	KWG0406469	
Chrysene	**0.11**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(b)fluoranthene	**0.029**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(k)fluoranthene	**0.036**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(a)pyrene	**0.038**		0.020	1	05/06/04	05/14/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	49	37-107	05/14/04	Acceptable
Fluoranthene-d10	49	18-137	05/14/04	Acceptable
Terphenyl-d14	48	18-153	05/14/04	Acceptable

Comments:

00697

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-3 MW-2	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.023**		0.020	1	05/06/04	05/13/04	KWG0406469	
2-Methylnaphthalene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Acenaphthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Dibenzofuran	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Fluorene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Phenanthrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Anthracene	**0.036**		0.020	1	05/06/04	05/13/04	KWG0406469	
Fluoranthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Pyrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benz(a)anthracene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Chrysene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(b)fluoranthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(k)fluoranthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(a)pyrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	60	37-107	05/13/04	Acceptable
Fluoranthene-d10	62	18-137	05/13/04	Acceptable
Terphenyl-d14	71	18-153	05/13/04	Acceptable

Comments:

00098

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-4 MW-3	**Units:**	ug/L
Lab Code:	K2403169-004	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.35**		0.020	1	05/06/04	05/14/04	KWG0406469	
2-Methylnaphthalene	**0.34**		0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthene	**0.13**		0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenzofuran	**0.035**		0.020	1	05/06/04	05/14/04	KWG0406469	
Fluorene	**0.082**		0.020	1	05/06/04	05/14/04	KWG0406469	
Phenanthrene	**0.12**		0.020	1	05/06/04	05/14/04	KWG0406469	
Anthracene	**0.034**		0.020	1	05/06/04	05/14/04	KWG0406469	
Fluoranthene	**0.080**		0.020	1	05/06/04	05/14/04	KWG0406469	
Pyrene	**0.079**		0.020	1	05/06/04	05/14/04	KWG0406469	
Benz(a)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Chrysene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(b)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(k)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(a)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	69	37-107	05/14/04	Acceptable
Fluoranthene-d10	70	18-137	05/14/04	Acceptable
Terphenyl-d14	43	18-153	05/14/04	Acceptable

Comments:

00099

Confidential Business Information BRIX002352

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-5 MW-4	**Units:**	ug/L
Lab Code:	K2403169-005	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.093**		0.020	1	05/06/04	05/14/04	KWG0406469	
2-Methylnaphthalene	**0.024**		0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthene	**0.061**		0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenzofuran	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Fluorene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Phenanthrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benz(a)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Chrysene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(b)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(k)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(a)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	66	37-107	05/14/04	Acceptable
Fluoranthene-d10	69	18-137	05/14/04	Acceptable
Terphenyl-d14	73	18-153	05/14/04	Acceptable

Comments:

00100

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-6 MW-7	**Units:**	ug/L
Lab Code:	K2403169-006	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.093**		0.020	1	05/06/04	05/14/04	KWG0406469	
2-Methylnaphthalene	**0.037**		0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenzofuran	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Fluorene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Phenanthrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benz(a)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Chrysene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(b)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(k)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(a)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	39	37-107	05/14/04	Acceptable
Fluoranthene-d10	42	18-137	05/14/04	Acceptable
Terphenyl-d14	41	18-153	05/14/04	Acceptable

Comments:

00101

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	04/29/2004
Sample Matrix:	Water	**Date Received:**	04/30/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-7 MW-6	**Units:**	ug/L
Lab Code:	K2403169-007	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
2-Methylnaphthalene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Acenaphthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenzofuran	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Fluorene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Phenanthrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benz(a)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Chrysene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(b)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(k)fluoranthene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(a)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/14/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	58	37-107	05/14/04	Acceptable
Fluoranthene-d10	59	18-137	05/14/04	Acceptable
Terphenyl-d14	42	18-153	05/14/04	Acceptable

Comments:

00102

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0406469-4	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
2-Methylnaphthalene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Acenaphthylene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Acenaphthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Dibenzofuran	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Fluorene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Phenanthrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Anthracene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Fluoranthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Pyrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benz(a)anthracene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Chrysene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(b)fluoranthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(k)fluoranthene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(a)pyrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Dibenz(a,h)anthracene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	
Benzo(g,h,i)perylene	ND	U	0.020	1	05/06/04	05/13/04	KWG0406469	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	59	37-107	05/13/04	Acceptable
Fluoranthene-d10	63	18-137	05/13/04	Acceptable
Terphenyl-d14	62	18-153	05/13/04	Acceptable

Comments:

00103

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3535
Analysis Method: 8270C SIM

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
BX-042904-1	K2403169-001	65	67	61
BX-042904-2	K2403169-002	49	49	48
BX-042904-3	K2403169-003	60	62	71
BX-042904-4	K2403169-004	69	70	43
BX-042904-5	K2403169-005	66	69	73
BX-042904-6	K2403169-006	39	42	41
BX-042904-7	K2403169-007	58	59	42
Method Blank	KWG0406469-4	59	63	62
BX-042904-3MS	KWG0406469-1	67	70	70
Lab Control Sample	KWG0406469-2	68	70	65
Duplicate Lab Control Sample	KWG0406469-3	71	76	66

Surrogate Recovery Control Limits (%)

Sur1 = Fluorene-d10	37-107
Sur2 = Fluoranthene-d10	18-137
Sur3 = Terphenyl-d14	18-153

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2403169
Project:	BRIXMARITIME-Portland, Or./990056-01	**Date Extracted:**	05/06/2004
Sample Matrix:	Water	**Date Analyzed:**	05/13/2004

Matrix Spike Summary
Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-042904-3	**Units:**	ug/L
Lab Code:	K2403169-003	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM	**Extraction Lot:**	KWG0406469

Analyte Name	Sample Result	BX-042904-3MS KWG0406469-1 Matrix Spike Result	Expected	%Rec	%Rec Limits
Naphthalene	0.023	1.87	2.40	77	28-110
2-Methylnaphthalene	ND	1.92	2.40	80	29-107
Acenaphthylene	ND	1.98	2.40	82	42-112
Acenaphthene	ND	1.98	2.40	82	41-105
Dibenzofuran	ND	2.04	2.40	85	42-107
Fluorene	ND	2.11	2.40	88	40-115
Phenanthrene	ND	2.07	2.40	86	40-112
Anthracene	0.036	2.24	2.40	92	25-118
Fluoranthene	ND	2.22	2.40	92	32-131
Pyrene	ND	2.14	2.40	89	27-131
Benz(a)anthracene	ND	2.11	2.40	88	21-133
Chrysene	ND	2.22	2.40	92	24-128
Benzo(b)fluoranthene	ND	2.20	2.40	91	17-142
Benzo(k)fluoranthene	ND	2.46	2.40	102	19-135
Benzo(a)pyrene	ND	2.22	2.40	93	10-146
Indeno(1,2,3-cd)pyrene	ND	2.13	2.40	89	16-145
Dibenz(a,h)anthracene	ND	2.28	2.40	95	16-142
Benzo(g,h,i)perylene	ND	2.27	2.40	94	18-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

03165

Confidential Business Information

Client: Anchor Environmental
Project: BRIXMARITIME-Portland, Or./990056-01
Sample Matrix: Water

Service Request: K2403169
Date Extracted: 05/06/2004
Date Analyzed: 05/13/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3535
Analysis Method: 8270C SIM

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0406469

Analyte Name	Lab Control Sample KWG0406469-2 Lab Control Spike Result	Expected	%Rec	Duplicate Lab Control Sample KWG0406469-3 Duplicate Lab Control Spike Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	2.03	2.50	81	2.12	2.50	85	44-101	4	30
2-Methylnaphthalene	2.08	2.50	83	2.18	2.50	87	36-106	5	30
Acenaphthylene	2.12	2.50	85	2.23	2.50	89	49-114	5	30
Acenaphthene	2.15	2.50	86	2.33	2.50	93	48-107	8	30
Dibenzofuran	2.17	2.50	87	2.33	2.50	93	40-115	7	30
Fluorene	2.24	2.50	89	2.40	2.50	96	55-111	7	30
Phenanthrene	2.18	2.50	87	2.26	2.50	90	56-108	3	30
Anthracene	2.31	2.50	92	2.36	2.50	94	42-117	2	30
Fluoranthene	2.33	2.50	93	2.40	2.50	96	61-123	3	30
Pyrene	2.27	2.50	91	2.40	2.50	96	53-123	6	30
Benz(a)anthracene	2.18	2.50	87	2.26	2.50	90	53-123	3	30
Chrysene	2.33	2.50	93	2.42	2.50	97	57-118	4	30
Benzo(b)fluoranthene	2.41	2.50	96	2.43	2.50	97	57-132	1	30
Benzo(k)fluoranthene	2.62	2.50	105	2.84	2.50	113	54-126	8	30
Benzo(a)pyrene	2.39	2.50	96	2.50	2.50	100	38-142	4	30
Indeno(1,2,3-cd)pyrene	2.16	2.50	86	2.21	2.50	88	49-139	2	30
Dibenz(a,h)anthracene	2.38	2.50	95	2.39	2.50	95	47-138	0	30
Benzo(g,h,i)perylene	2.39	2.50	95	2.45	2.50	98	50-125	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00166

Appendix C

Appendix C
Data Validation Review

LABORATORY DATA REVIEW

BRIX Maritime

April 2004

This report presents a review of the samples collected from BRIX Maritime on April 29, 2004. Samples were analyzed by Columbia Analytical Services, Inc. (CAS), in Kelso, Washington. Laboratory SDG K2403169 was reviewed.

Data Qualifications

The following comments refer to the laboratory's performance in meeting the quality control (QC) specifications outlined in the analytical procedures and the Quality Assurance Project Plan (QAPP). Analytical results were reviewed using *USEPA National Functional Guidelines for Inorganics Data Review* (USEPA, 2002), and *USEPA National Functional Guidelines for Organics Data Review* (USEPA, 1999), and applying laboratory and method QC criteria.

The laboratory Sample Receipt Form states that the cooler temperatures were within ±4°C upon arrival at the laboratory. Sample transport and handling were acceptable.

Unless specifically noted in this report, laboratory results were within QC criteria.

Holding Times

All sample analyses were conducted within recommended holding times. No data were qualified due to these results.

Method Reporting Limits (MRLs)

The MRLs were acceptable.

Method Blanks

Method blanks were analyzed at the required frequency for all analyses. The method blanks were free of contamination for metals, gasoline, diesel, PAHs, and VOCs. No data were qualified due to these results.

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Trip and Field Blanks

Two trip blanks were submitted with the samples. One sample was analyzed for gasoline and the other for VOCs. The trip blanks were free of contamination. No data were qualified due to these results.

No field blanks were collected. No data were qualified due to these results.

Field Duplicates

One field duplicate was submitted with the samples; BX-042904-1 / BX-042904-2. The field duplicate results were comparable. No data were qualified due to these results.

Surrogate Recoveries

Surrogate recoveries were reported for all organic analyses. Surrogate percent recoveries were within the control limits; no data were qualified due to these results.

Laboratory Duplicate Results

The laboratory analyzed duplicates at the required frequency. All lab duplicates were within acceptable RPD limits; no data were qualified due to these results.

Matrix Spike/Matrix Spike Duplicate Results

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were conducted at the required frequency. All MS/MSD results were within permissible RPD levels and no data were qualified due to these results.

Laboratory Control Sample Results

Laboratory control sample (LCS) analyses were conducted at the required frequency. All LCS results were within the laboratory control limits. No data were qualified due to these results.

Completeness

The results reported by the laboratory were checked against chain-of-custody entries to determine if all of the requested analyses were completed. All requested analyses were conducted.

Overall Assessment

The data are judged to be acceptable for their intended use.

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REFERENCES

USEPA. 1986. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA. 2002. USEPA National Functional Guidelines for Inorganics Data Review. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency. EPA 540/R-01/008. July.

USEPA. 1999. USEPA National Functional Guidelines for Organics Data Review. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency. EPA 540/R-99/008. October.

PROGRESS REPORT – THIRD QUARTER 2004

BRIX MARITIME COMPANY
PORTLAND, OREGON

Prepared for
Brix Maritime Company

Prepared by
Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224

October 15, 2004

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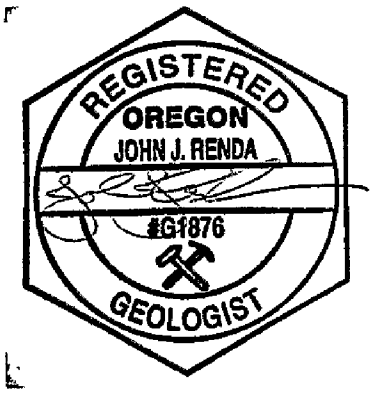
October 15, 2004

Progress Report – Third Quarter 2004

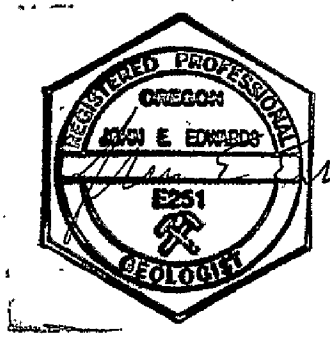
Brix Maritime Company

Portland, Oregon

The material and data in this report were prepared under the supervision and direction of the undersigned.



John J. Renda, R.G.
Anchor Environmental, L.L.C.



John Edwards, R.G. C.E.G.
Anchor Environmental, L.L.C.

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1 INTRODUCTION

This Progress Report was prepared in accordance with Section II(H) of the Oregon Department of Environmental Quality (DEQ) Voluntary Agreement for Remedial Investigation and Source Control Measures (ECSI 2464 No. LQDVC-NWR-02-03). This report covers the work completed during the quarter ending September 30, 2004 for the Brix Maritime site in Portland, Oregon (Figure 1) and is divided into the following subject areas:

- Actions Taken During the Third Quarter
- Actions Scheduled for the Fourth Quarter
- Data Generated in the Third Quarter
- Summaries of Problems and Actions Taken To Resolve Problems

2 ACTIONS TAKEN DURING THE THIRD QUARTER

- Anchor submitted the Second Quarter 2004 progress report to DEQ on July 15, 2004.
- Water levels were measured in monitoring wells MW-1 through MW-7 and at the river staff gauge on July 6 and 26, 2004.
- Monitoring wells MW-1, -2, -3, -4, -6, and -7 were sampled on July 26, 2004; MW-5 had insufficient water for sample collection.

3 ACTIONS SCHEDULED FOR THE THIRD QUARTER

- Monitoring wells MW-1 through MW-7 will be sampled in October 2004.
- Anchor will prepare and submit the Third Quarter Progress Report (this report) to DEQ.

4 DATA GENERATED IN THE SECOND QUARTER

4.1 Hydrology Data and Potentiometric Surface Map

Water levels were measured in all onsite monitoring wells and at the river staff gauge on July 6 and 26, 2004. Water levels and groundwater elevations based on the 1988 North American Vertical Datum (NAVD 88) are presented in Table 1.

A groundwater potentiometric surface map, using the July 26, 2004 measurements, is shown on Figure 2. Consistent with all past monitoring events, the contour pattern

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indicates that shallow groundwater flows west to east from the upland portion of the site to the river.

During the monthly water level measurements, the river bank was examined for petroleum hydrocarbon seeps or sheens. No petroleum hydrocarbon seeps or sheens were observed.

4.2 Groundwater Sampling

Monitoring wells MW-1, -2, -3, -4, -6, and -7 were sampled on July 26, 2004. Monitoring well MW-5 had insufficient water for sample collection. Field sampling procedures, field parameters, field sampling data sheets, and chain of custody documentation are in Appendix A.

4.3 Groundwater Analytical Testing

The groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by NWTPH-Gx; TPH as diesel and heavy oils by NWTPH-Dx; Polycyclic Aromatic Hydrocarbons (PAHs) by U.S. Environmental Protection Agency (USEPA) Method 8270-SIM; Volatile Organic Compounds (VOCs) by USEPA Method 8260+MTBE; and both total and dissolved lead by USEPA method 200.8. The analytical results are presented in Tables 2 through 5. A copy of the laboratory report is in Appendix B.

4.4 Data Validation

Review of the sampling and laboratory records showed no apparent discrepancies between samples collected in the field and those analyzed in the laboratory. The data are judged to be acceptable for their intended use. The data validation review of the laboratory records is summarized in Appendix C.

5 SUMMARIES OF PROBLEMS AND ACTIONS TAKEN TO RESOLVE PROBLEMS

No problems were encountered.

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TABLES

Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.					Site; Brix Maritime	
					Project No. : 990056-01	
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88	Comments
Monitoring Wells						
MW-1	41.81	34.7-19.7	02/28/03	18.89	22.92	
MW-1	41.81	34.7-19.7	03/31/03	19.43	22.38	
MW-1	41.81	34.7-19.7	04/29/03	19.69	22.12	
MW-1	41.81	34.7-19.7	05/22/03	20.22	21.59	
MW-1	41.81	34.7-19.7	07/07/03	21.08	20.73	
MW-1	41.81	34.7-19.7	07/30/03	21.13	20.68	
MW-1	41.81	34.7-19.7	08/28/03	21.24	20.57	
MW-1	41.81	34.7-19.7	09/30/03	21.15	20.66	
MW-1	41.81	34.7-19.7	10/16/03	21.10	20.71	
MW-1	41.81	34.7-19.7	12/03/03	21.06	20.75	
MW-1	41.81	34.7-19.7	12/26/03	20.46	21.35	
MW-1	41.81	34.7-19.7	01/30/04	19.01	22.80	
MW-1	41.81	34.7-19.7	03/04/04	19.60	22.21	
MW-1	41.81	34.7-19.7	04/29/04	20.91	20.90	
MW-1	41.81	34.7-19.7	05/27/04	21.13	20.68	
MW-1	41.81	34.7-19.7	07/06/04	21.22	20.59	
MW-1	41.81	34.7-19.7	07/26/04	21.28	20.53	
MW-2	42.13	32.5-17.5	02/28/03	19.88	22.25	
MW-2	42.13	32.5-17.5	03/31/03	20.36	21.77	
MW-2	42.13	32.5-17.5	04/29/03	20.64	21.49	
MW-2	42.13	32.5-17.5	05/22/03	21.06	21.07	
MW-2	42.13	32.5-17.5	07/07/03	22.17	19.96	
MW-2	42.13	32.5-17.5	07/30/03	22.50	19.63	
MW-2	42.13	32.5-17.5	08/28/03	22.84	19.29	
MW-2	42.13	32.5-17.5	09/30/03	23.07	19.06	
MW-2	42.13	32.5-17.5	10/16/03	23.06	19.07	
MW-2	42.13	32.5-17.5	12/03/03	22.54	19.59	
MW-2	42.13	32.5-17.5	12/26/03	21.58	20.55	
MW-2	42.13	32.5-17.5	01/30/04	20.05	22.08	
MW-2	42.13	32.5-17.5	03/04/04	20.57	21.56	
MW-2	42.13	32.5-17.5	04/29/04	21.89	20.24	
MW-2	42.13	32.5-17.5	05/27/04	22.29	19.84	
MW-2	42.13	32.5-17.5	07/06/04	22.70	19.43	
MW-2	42.13	32.5-17.5	07/26/04	22.85	19.28	
MW-3	41.93	32.6-17.6	07/29/02	22.91	19.02	
MW-3	41.93	32.6-17.6	08/22/02	23.50	18.43	Oil detected in well, thickness estimated at 0.02 foot
MW-3	41.93	32.6-17.6	09/30/02	23.37	18.56	Oil detected in well, thickness estimated at 0.02 foot
MW-3	41.93	32.6-17.6	10/30/02	23.68	18.25	DTP = 23.49 (0.19 foot thick)
MW-3	41.93	32.6-17.6	11/27/02	23.30	18.63	DTP = 23.16 (0.14 foot thick)
MW-3	41.93	32.6-17.6	12/30/02	21.99	19.94	Oil noted on probe, product too thin to measure with interface p
MW-3	41.93	32.6-17.6	02/28/03	19.75	22.18	Oil noted on probe, product too thin to measure with interface p
MW-3	41.93	32.6-17.6	03/31/03	20.24	21.69	No oil noted on probe
MW-3	41.93	32.6-17.6	04/29/03	20.50	21.43	No oil noted on probe
MW-3	41.93	32.6-17.6	05/22/03	20.94	20.99	No oil noted on probe
MW-3	41.93	32.6-17.6	07/07/03	22.21	19.72	No oil noted on probe
MW-3	41.93	32.6-17.6	07/30/03	22.62	19.31	No oil noted on probe
MW-3	41.93	32.6-17.6	08/28/03	22.95	18.98	Oil noted on probe, product too thin to measure with interface p
MW-3	41.93	32.6-17.6	09/30/03	23.15	18.78	DTP = 23.04 (0.11 foot thick)
MW-3	41.93	32.6-17.6	10/16/03	22.40	19.53	No oil noted on probe
MW-3	41.93	32.6-17.6	12/03/03	22.21	19.72	Sheen, product too thin to measure
MW-3	41.93	32.6-17.6	12/26/03	21.44	20.49	No oil noted on probe
MW-3	41.93	32.6-17.6	01/30/04	19.80	22.13	No oil noted on probe
MW-3	41.93	32.6-17.6	03/04/04	20.41	21.52	No oil noted on probe
MW-3	41.93	32.6-17.6	04/29/04	21.82	20.11	No oil noted on probe
MW-3	41.93	32.6-17.6	05/27/04	22.25	19.68	No oil noted on probe
MW-3	41.93	32.6-17.6	07/06/04	22.66	19.27	No oil noted on probe
MW-3	41.93	32.6-17.6	07/26/04	22.91	19.02	DTP = 22.89 (0.02 foot thick)

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Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.						Site: Brix Maritime
						Project No. : 990056-01
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88	Comments
MW-4	23.55	19.1-9.1	07/29/02	11.62	11.93	
MW-4	23.55	19.1-9.1	08/22/02	11.77	11.78	
MW-4	23.55	19.1-9.1	09/30/02	11.94	11.61	
MW-4	23.55	19.1-9.1	10/30/02	12.06	11.49	
MW-4	23.55	19.1-9.1	11/27/02	11.85	11.70	
MW-4	23.55	19.1-9.1	12/30/02	10.24	13.31	
MW-4	23.55	19.1-9.1	02/28/03	4.34	19.21	
MW-4	23.55	19.1-9.1	03/31/03	4.59	18.96	
MW-4	23.55	19.1-9.1	04/29/03	5.46	18.09	
MW-4	23.55	19.1-9.1	05/22/03	8.59	14.96	
MW-4	23.55	19.1-9.1	07/07/03	10.69	12.86	
MW-4	23.55	19.1-9.1	07/30/03	11.03	12.52	
MW-4	23.55	19.1-9.1	08/28/03	11.40	12.15	
MW-4	23.55	19.1-9.1	09/30/03	11.74	11.81	
MW-4	23.55	19.1-9.1	10/16/03	11.40	12.15	
MW-4	23.55	19.1-9.1	12/03/03	10.59	12.96	
MW-4	23.55	19.1-9.1	12/26/03	9.50	14.05	
MW-4	23.55	19.1-9.1	01/30/04	5.41	18.14	
MW-4	23.55	19.1-9.1	03/04/04	9.05	14.50	
MW-4	23.55	19.1-9.1	04/29/04	11.00	12.55	
MW-4	23.55	19.1-9.1	05/27/04	10.89	12.66	
MW-4	23.55	19.1-9.1	07/06/04	11.26	12.29	
MW-4	23.55	19.1-9.1	07/26/04	11.56	11.99	
MW-5	41.66	34.6-19.6	02/28/03	19.45	22.21	
MW-5	41.66	34.6-19.6	03/31/03	19.99	21.67	
MW-5	41.66	34.6-19.6	04/29/03	20.25	21.41	
MW-5	41.66	34.6-19.6	05/22/03	20.75	20.91	
MW-5	41.66	34.6-19.6	07/07/03	21.93	19.73	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	07/30/03	22.08	19.58	dry
MW-5	41.66	34.6-19.6	08/28/03	22.08	19.58	dry
MW-5	41.66	34.6-19.6	09/30/03	22.13	19.53	dry
MW-5	41.66	34.6-19.6	10/16/03	22.10	19.56	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	12/03/03	22.13	19.53	dry
MW-5	41.66	34.6-19.6	12/26/03	21.35	20.31	
MW-5	41.66	34.6-19.6	01/30/04	19.59	22.07	
MW-5	41.66	34.6-19.6	03/04/04	20.16	21.50	
MW-5	41.66	34.6-19.6	04/29/04	21.67	19.99	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	05/27/04	21.99	19.67	
MW-5	41.66	34.6-19.6	07/06/04	21.98	19.68	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	07/26/04	dry	<19.60	dry
MW-6	41.21	31.1-16.1	07/07/03	20.26	20.95	
MW-6	41.21	31.1-16.1	07/30/03	20.57	20.64	
MW-6	41.21	31.1-16.1	08/28/03	21.02	20.19	
MW-6	41.21	31.1-16.1	09/30/03	21.02	20.19	
MW-6	41.21	31.1-16.1	10/16/03	20.93	20.28	
MW-6	41.21	31.1-16.1	12/03/03	21.53	19.68	
MW-6	41.21	31.1-16.1	12/26/03	19.24	21.97	
MW-6	41.21	31.1-16.1	01/30/04	17.70	23.51	
MW-6	41.21	31.1-16.1	03/04/04	18.16	23.05	
MW-6	41.21	31.1-16.1	04/29/04	19.66	21.55	
MW-6	41.21	31.1-16.1	05/27/04	20.17	21.04	
MW-6	41.21	31.1-16.1	07/06/04	20.71	20.50	
MW-6	41.21	31.1-16.1	07/26/04	21.23	19.98	

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Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.					Site: Brix Maritime Project No. : 990056-01
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
MW-7	40.95	31.2-16.2	07/07/03	21.21	19.74	
MW-7	40.95	31.2-16.2	07/30/03	21.76	19.19	
MW-7	40.95	31.2-16.2	08/28/03	22.32	18.63	
MW-7	40.95	31.2-16.2	09/30/03	22.67	18.28	
MW-7	40.95	31.2-16.2	10/16/03	22.72	18.23	
MW-7	40.95	31.2-16.2	12/03/03	22.90	18.05	
MW-7	40.95	31.2-16.2	12/26/03	20.32	20.63	
MW-7	40.95	31.2-16.2	01/30/04	18.26	22.69	
MW-7	40.95	31.2-16.2	03/04/04	18.96	21.99	
MW-7	40.95	31.2-16.2	04/29/04	20.49	20.46	
MW-7	40.95	31.2-16.2	05/27/04	21.10	19.85	
MW-7	40.95	31.2-16.2	07/06/04	21.98	18.97	
MW-7	40.95	31.2-16.2	07/26/04	22.40	18.55	
River Gauge[1]						
River	4.33	NA	10/30/02	2.75	7.08	
River	4.33	NA	11/27/02	3.1	7.43	
River	4.33	NA	12/30/02	7.5	11.83	
River	4.33	NA	02/28/03	6.1	10.43	
River	4.33	NA	03/31/03	8.0	12.33	
River	4.33	NA	04/29/03	8.0	12.33	
River	4.33	NA	05/22/03	6.5	10.83	
River	4.33	NA	07/07/03	4.0	8.33	
River	4.33	NA	07/30/03	3.5	7.83	
River	4.33	NA	08/28/03	3.3	7.63	
River	4.33	NA	09/30/03	2.1	6.43	
River	4.33	NA	10/16/03	2.2	6.53	
River	4.33	NA	12/03/03	3.5	7.83	
River	4.33	NA	12/26/03	6.7	11.03	
River	4.33	NA	01/30/04	11.0	15.33	
River	4.33	NA	03/04/04	5.0	9.33	
River	4.33	NA	04/29/04	4.0	8.33	
River	4.33	NA	05/27/04	6.6	10.93	
River	4.33	NA	07/06/04	5.5	9.83	
River	4.33	NA	07/26/04	2.75	7.08	

Note: DTW = Depth to Water; DTP = Depth to Product; NA = Not Applicable

1 - The river gauge is marked in 1-foot increments, field measurements are estimated to the closest 0.1 foot.

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BRIX002374

Table 2
Total Petroleum Hydrocarbons
Brix Maritime
Portland, Oregon

Location (sample depth in ft bgs)	Matrix	Date Date Sampled	Diesel Range Organics		Residual Range Organics		Gasoline Range Organics	
MW-1	Water	07/07/03	0.27	L	0.5	U	1.3	H
MW-1	Water	10/16/03	0.73	L	0.5	U	8.1	H
MW-1	Water	01/30/04	0.60	L	0.5	U	4.0	H
MW-1	Water	04/29/04	0.71	L	0.5	U	5.8	H
MW-1 Duplicate	Water	04/29/04	0.79	L	0.5	U	5.7	H
MW-1	Water	07/26/04	0.92	L	0.5	U	9.3	Y
MW-1 Duplicate	Water	07/26/04	0.93	L	0.5	U	9.3	Y
MW-2	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-2	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-2	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-2	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-2	Water	07/26/04	0.25	U	0.5	U	0.25	U
MW-3	Water	07/30/02	3.4	Y	1.6	O		
MW-3	Water	07/07/03	1.9	Y	8.5	O	0.05	U
MW-3	Water	10/16/03	0.92	Y	1.8	O	0.059	Y
MW-3	Water	01/30/04	0.79	Y	0.6	O	0.05	U
MW-3	Water	04/29/04	0.7	Y	0.77	O	0.05	U
MW-3	Water	07/26/04	2.5	Y	8.3	O	0.25	U
MW-4	Water	07/29/02	0.26	U	0.52	U		
MW-4	Water	07/07/03	0.25	U	0.52	O	0.05	U
MW-4 Duplicate	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-4	Water	10/16/03	0.25	U	0.5	U	0.65	Y
MW-4 Duplicate	Water	10/16/03	0.25	U	0.5	U	0.66	Y
MW-4	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-4	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-4	Water	07/26/04	0.25	U	0.5	U	0.25	U
MW-5	Water	01/30/04	0.62	L	0.5	U	1.4	H
MW-5 Duplicate	Water	01/30/04	0.63	L	0.5	U	1.5	H
MW-6	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-6	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-6	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-6	Water	07/26/04	0.25	U	0.5	U	0.25	U
MW-7	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-7	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-7	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-7	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-7	Water	07/26/04	0.25	U	0.5	U	0.25	U

Notes: Water concentrations are in mg/L. Soil concentrations are in mg/kg.

ft bgs = feet below ground surface.

U = Not detected at method reporting limit.

O = The fingerprint resembles oil, but does not match the calibration standard.

L = The fingerprint resembles a petroleum product, but the elution pattern indicates the presence of lighter weight constituents than the calibration standard.

H = The fingerprint resembles a petroleum product, but the elution pattern indicates the presence of heavier weight constituents than the calibration standard.

Y = The fingerprint resembles a petroleum product in the correct carbon range, but the elution pattern does not match the calibration standard.

TABLE 3
Polycyclic Aromatic Hydrocarbons
Brix Maritime
Portland, Oregon

Sample Designation	MW-1		MW-1		MW-1		MW-1		MW-1		MW-1 Dup		MW-1		MW-1 Dup		MW-2		MW-2		MW-2		MW-2		MW-2		MW-2	
Matrix	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Date Sampled	02/28/03		07/07/03		10/16/03		01/30/04		04/29/04		04/29/04		07/26/04		07/26/04		02/28/03		07/07/03		10/16/03		01/30/04		04/29/04		07/26/04	
LPAHs													**LPAHs**															
Naphthalene	23	D	23	D	160	D	110	D	170	D	150	D	170	D	170	D	0.082		0.02	U	0.023		0.037		0.023		0.18	
Acenaphthylene	0.19		0.02	U	0.02	U	0.15	UB	0.02	U	0.02	U	0.019	U	0.019	U	0.023		0.02	U	0.022	U	0.110	UB	0.020	U	0.19	
Acenaphthene	0.43		0.38		0.34		0.17		0.30		0.23		0.34		0.33		0.02	U	0.02	U	0.022	U	0.020	U	0.020	U	0.024	
Dibenzofuran	0.12		0.067		0.085		0.032		0.062		0.057		0.073		0.074		0.02	U	0.02	U	0.022	U	0.020	U	0.020	U	0.019	U
Fluorene	0.36		0.27		0.24		0.11		0.19		0.14		0.23		0.24		0.02	U	0.02	U	0.022	U	0.020	U	0.020	U	0.023	
Phenanthrene	1.8		0.56		0.42		0.16		0.34		0.27		0.36		0.36		0.15		0.02	U	0.031		0.020	U	0.020	U	0.31	
Anthracene	0.53		0.11		0.065		0.073		0.079		0.057		0.068		0.067		0.032		0.02	U	0.022	U	0.034		0.036		0.11	
2-Methylnaphthalene	9.0		7.9		42.0	D	40.0	D	46.0	D	40.0	D	51.0	D	49.0	D	0.02	U	0.02	U	0.022	U	0.022		0.020	U	0.03	
Total LPAH	35.43		32.29		203.15		150.55		216.97		190.75		222.07		220.07		0.29		0		0.05		0.09		0.06		0.81	
HPAHs													**HPAHs**															
Fluoranthene	4.3		0.5		0.3		0.39		0.33		0.24		0.31		0.33		0.29		0.02	U	0.070		0.022		0.02	U	0.62	
Pyrene	13	D	1.2		0.9		1.6		0.76		0.57		0.80		0.85		0.42		0.02	U	0.091		0.020		0.02	U	0.87	
Benz(a)anthracene	2.1		0.22		0.16		0.20		0.12		0.084		0.13		0.130		0.11		0.02	U	0.023		0.020		0.02	U	0.31	
Chrysene	2.7		0.27		0.24		0.24		0.16		0.11		0.15		0.15		0.17		0.02	U	0.042		0.02	U	0.02	U	0.48	
Benzo(b)fluoranthene	1.4		0.088		0.073		0.047		0.049		0.029		0.044		0.041		0.14		0.02	U	0.036		0.020		0.02	U	0.48	
Benzo(k)fluoranthene	1.1		0.098		0.096		0.053		0.051		0.036		0.047		0.043		0.13		0.02	U	0.035		0.023		0.02	U	0.42	
Benzo(a)pyrene	2.0		0.11		0.097		0.064		0.066		0.038		0.056		0.052		0.19		0.02	U	0.022	U	0.035		0.02	U	0.73	
Indeno(1,2,3-cd)pyrene	1.5		0.023		0.036		0.02	U	0.02	U	0.02	U	0.019	U	0.019	U	0.20		0.02	U	0.073		0.022		0.02	U	0.88	
Dibenz(a,h)anthracene	0.17		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.019	U	0.02	U	0.02	U	0.022	U	0.020	U	0.02	U	0.10	J
Benzo(g,h,i)perylene	1.5		0.028		0.043		0.02	U	0.021		0.20	U	0.019	U	0.019	U	0.22		0.02	U	0.090		0.020		0.02	U	1.10	
Total HPAHs	29.77		2.53		1.98		2.59		1.57		1.11		1.54		1.60		1.87		0		0.46		0.18		0		5.99	

NOTE: µg/L = micrograms per liter or parts per billion.
B = detected in method blank at significant concentration.
J = estimated concentration.
U = not detected at or above the indicated method reporting limit.

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TABLE 3
Polycyclic Aromatic Hydrocarbons
Brix Maritime
Portland, Oregon

Sample Designation	MW-3		MW-3		MW-3		MW-3		MW-3		MW-3		MW-4		MW-4		MW-4		MW-4 Dup		MW-4		MW-4 Dup		MW-4		MW-4		MW-4	
Matrix	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Date Sampled	07/30/02		02/28/03		07/07/03		10/16/03		01/30/04		04/29/04		07/26/04		07/29/02		02/28/03		07/07/03		07/07/03		10/16/03		10/16/03		01/30/04		04/29/04		07/26/04	
LPAHs															LPAHs															
Naphthalene	0.36		0.75		0.34		0.34		0.11		0.35		0.28	D	0.039		18	D	0.16		0.12		0.11		0.12		0.074		0.093		0.024	
Acenaphthylene	0.02	U	0.22		0.02	U	0.02	U	0.14	UB	0.02	U	0.38	D	0.02	U	0.02	U	0.02	U	0.02	U	0 02	U	0.02	U	0.053	UB	0.02	U	0.019	U
Acenaphthene	0.26		1.3		0.16		0.21		0.04		0.13		0.89	D	0.51		0.60		0.11		0.11		0.36		0.40		0.16		0.061		0.096	
Dibenzofuran	0.025		0.11		0 02	U	0.021		0.020	U	0.035		0.19	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0 02	U	0.019	U
Fluorene	0.09		1.0		0.1		0.11		0.037		0.082		0.84	D	0.02	U	0 02	U	0.02	U	0 02	U	0.02	U	0 02	U	0.02	U	0.02	U	0.019	U
Phenanthrene	0.11		2.9		0.2		0.14		0.06		0.12		2.3	D	0.043		0 02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Anthracene	0.02	U	0.55		0.039		0.022		0.032		0.034		0.96	D	0.02	U	0.02	U	0.02	U	0.02	U	0 02	U	0.02	U	0.02	U	0.02	U	0.019	U
2-Methylnaphthalene	0.28		1.8		0.34		0.31		0.15		0.34		1.20	D	0.02	U	0.80		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Total LPAH	1.13		8.63		1.18		1.13		0.43		1.09		6.85		0.59		19.40		0.27		0.23		0.47		0.52		0.23		0.15		0.12	
HPAHs															HPAHs															
Fluoranthene	0.056		4.9		0.22		0.077		0.075		0.080		5.8	D	0.033		0.024		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Pyrene	0.058		7.6	D	0.22		0.082		0.090		0.079		7.2	D	0.046		0.055		0.021		0.02	U	0.02		0.024		0.02	U	0.02	U	0.019	U
Benz(a)anthracene	0.02	U	2.1	D	0.06		0.02	U	0.022		0.02	U	2.3	D	0.02	U	0.02	U	0 02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Chrysene	0.02	U	2.3	D	0.071		0.02	U	0.023		0.02	U	2.6	D	0.02	U	0.02	U	0 02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Benzo(b)fluoranthene	0.022		1.8	D	0.038		0.02	U	0.02	U	0.02	U	1.90	U	0.02	U	0.02	U	0 02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Benzo(k)fluoranthene	0 02	U	1.7	D	0.065		0.02	U	0.02	U	0.02	U	1.90	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Benzo(a)pyrene	0.02	U	2.3	D	0.053		0.02	U	0.036		0.02	U	3.0	D	0.02	U	0 02	U	0.02	U	0 02	U	0.02	U	0 02	U	0.02	U	0.02	U	0.019	U
Indeno(1,2,3-cd)pyrene	0.02	U	1.5	D	0.041		0.02	U	0.02		0.02	U	1.90	U	0.02	U	0 02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Dibenz(a,h)anthracene	0.02	U	0 20	U	0.20	U	0.02	U	0.02	U	0.02	U	1.90	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Benzo(g,h,i)perylene	0.02	U	1.9	D	0.039		0.02	U	0.02	U	0.02	U	1.90	D	0.02	U	0.02	U	0.02	U	0 02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Total HPAHs	0.14		26.10		0.80		0.16		0.27		0.16		22.80		0.08		0.08		0.021		0		0		0.024		0		0		0	

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TABLE 3
Polycyclic Aromatic Hydrocarbons
Brix Maritime
Portland, Oregon

Sample Designation	MW-5		MW-5 dup		MW-5		MW-5 dup		MW-6		MW-6		MW-6		MW-6		MW-6		MW-7		MW-7		MW-7		MW-7		MW-7	
Matrix	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Date Sampled	02/28/03		02/28/03		01/30/04		01/30/04		07/07/03		10/16/03		01/30/04		04/29/04		07/26/04		07/07/03		10/16/03		01/30/04		04/29/04		07/26/04	
LPAHs																												
Naphthalene	19	D	17	D	2.9		2.1		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.093		0.019	U
Acenaphthylene	0.10		0.40		0.02	U	0.02	U	0.02	U	0.02	U	0.042		0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Acenaphthene	1.3		1.3		0.6		0.5		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Dibenzofuran	0.2		0.19		0.081		0.057		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Fluorene	1.2		1.3		0.48		0.32		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Phenanthrene	2.3		3.1		1.1		0.8		0.02	U	0.02	U	0.025		0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Anthracene	0.55		0.93		0.34		0.24		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
2-Methylnaphthalene	31	D	31	D	1.5		1.1		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.04		0.019	U
Total LPAH	55.64		55.22		7.02		5.02		0		0		0.07		0		0		0		0		0		0.13		0	
HPAHs																												
Fluoranthene	3.1	J	6.5	J	1.5		1.1		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Pyrene	4.3	J	9.1	J	1.8		1.4		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Benz(a)anthracene	0.72	J	2.80	J	0.18		0.14		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Chrysene	0.95	J	3.4	J	0.22		0.17		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Benzo(b)fluoranthene	0.44	J	2.2	J	0.046		0.035		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Benzo(k)fluoranthene	0.42	J	1.9	J	0.046		0.041		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Benzo(a)pyrene	0.65	J	3.6	J	0.061		0.050		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Indeno(1,2,3-cd)pyrene	0.49	J	2.5	J	0.03		0.022		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Dibenz(a,h)anthracene	0.044	J	0.27	J	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Benzo(g,h,i)perylene	0.52	J	2.7	J	0.029		0.024		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U
Total HPAHs	11.64		34.97		3.91		3.00		0		0		0		0		0		0		0		0		0		0	

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Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	Dichlorodifluoromethane	Chloromethane	Vinyl Chloride	Bromomethane	Chloroethane	Trichlorofluoromethane	Acetone	1,1-Dichloroethene	Methyl tert-Butyl Ether	Carbon Disulfide	Methylene Chloride	trans-1, 2-dichloroethene	1,1-Dichloromethane	2-Butanone	2,2-Dichloropropane	cis-1, 2-dichloroethene	Chloroform	Bromochloromethane	1,1,1-Trichloroethane	1,1-Dichloropropene	Carbon Tetrachloride
MW-1	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-1	Water	07/01/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-1	Water	10/16/03	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
MW-1	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-1	Water	04/29/04	1 U	1 U	1 U	1 U	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	40 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW-1 Dup	Water	04/29/04	1 U	1 U	1 U	1 U	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	40 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW-1	Water	07/26/04	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	50 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	50 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
MW-1 Dup	Water	07/26/04	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	50 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	50 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
MW-2	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	07/26/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/30/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/26/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	07/29/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	07/26/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 UJ	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	07/26/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	07/26/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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BRIX002379

Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	1,2-Dichloroethane	Benzene	Trichloroethene	1,2-Dichloropropane	Bromodichloromethane	Dibromomethane	2-Hexanone	cis-1,3-Dichloropropene	Toluene	trans 1,3-Dichloropropene	1,1,2-Trichloroethane	4-Methyl-2-pentanone	1,3 Dichloropropane	Tetrachloroethene	Dibromochloromethane	1,2 Dibromoethane	Chlorobenzene	1,1,1,2-Tetrachloroethane	Ethylbenzene	m,p-Xylenes	o-Xylene	Styrene	Bromoform
MW-1	Water	02/28/03	0.5 U	5.7	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.71	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	37	50	12	0.5 U	0.5 U
MW-1	Water	07/07/03	0.5 U	1.3	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	1.1	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	11	18	2	0.5 U	0.5 U
MW-1	Water	10/16/03	2.5 U	32 D	2.5 U	2.5 U	2.5 U	2.5 U	100 U	2.5 U	13 D	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	270 D	360 D	110 D	2.5 U	2.5 U
MW-1	Water	01/30/04	0.5 U	4.1	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.96	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	78 D	120	31	0.5 U	0.5 U
MW-1	Water	04/29/04	1 U	5.3 D	1 U	1 U	1 U	1 U	40 U	1 U	2.1 D	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	120 D	160 D	46 D	1 U	1 U
MW-1 Dup	Water	04/29/04	1 U	4.7 D	1 U	1 U	1 U	1 U	40 U	1 U	1.9 D	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	110 D	150 D	42 D	1 U	1 U
MW-1	Water	07/26/04	1.3 U	4.0 D	1.3 U	1.3 U	1.3 U	1.3 U	50 U	1.3 U	1.3	1.3 U	1.3 U	50 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	93 D	120 D	29 D	1.3 U	1.3 U
MW-1 Dup	Water	07/26/04	1.3 U	3.9 D	1.3 U	1.3 U	1.3 U	1.3 U	50 U	1.3 U	1.3	1.3 U	1.3 U	50 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	89 D	110 D	28 D	1.3 U	1.3 U
MW-2	Water	02/28/03	0.5 U	0.50 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	07/07/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	10/16/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.86	0.5 U	0.5 U	0.5 U
MW-2	Water	01/30/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	04/29/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	07/26/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/30/02	0.5 U	0.73	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	14	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.51	3.5	2	0.5 U	0.5 U
MW-3	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.63	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	1.2	1.2	0.5 U	0.5 U
MW-3	Water	07/07/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.8	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	1.2	1.1	0.5 U	0.5 U
MW-3	Water	10/16/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	1.9	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.51	2.5	1.5	0.5 U	0.5 U
MW-3	Water	01/30/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.63	0.73	0.5 U	0.5 U
MW-3	Water	04/29/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	1.20	1.1	0.5 U	0.5 U
MW-3	Water	07/26/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.98	0.98	0.5 U	0.5 U
MW-4	Water	07/29/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	02/28/03	0.5 U	0.76	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	2.3	1.4	1.2	0.5 U	0.5 U
MW-4	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.93	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.94	0.5 U	0.5 U	0.5 U
MW-4	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	0.5 U	0.5 U
MW-4	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	07/26/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	15	12	0.97	0.5 U	0.5 U
MW-5 Dup	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	16	14	1.10	0.5 U	0.5 U
MW-5	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	1.8	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	2.0	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.74	0.5 U	0.5 U	0.5 U
MW-6	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	07/26/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.82	0.5 U	0.5 U	0.5 U
MW-7	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	07/26/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	Isopropylbenzene		1,1,2,2-Tetrachloroethane		1,2,3-Trichloropropane		Bromobenzene		n-Propylbenzene		2-Chlorotoluene		4-Chlorotoluene		1,3,5-Trimethylbenzene		tert-Butylbenzene		1,2,4-Trimethylbenzene		sec-Butylbenzene		1,3-Dichlorobenzene		4-Isopropyltoluene		1,4-Dichlorobenzene		n-Butylbenzene		1,2-Dichlorobenzene		1,2-Dibromo-3-chloropropane		1,2,4-Trichlorobenzene		1,2,3-Trichlorobenzene		Naphthalene		Hexachlorobutadiene	
MW-1	Water	02/28/03	19		0.5	U	0.5	U	0.5	U	68	D	2	U	2	U	26		2	U	140	D	10		0.5	U	2	U	0.5	U	21		0.5	U	0.5	U	2	U	2	U	31		2	U
MW-1	Water	07/07/03	31		0.5	U	0.5	U	0.5	U	64	D	2	U	2	U	9.3		2	U	46		8.2		0.5	U	2	U	0.5	U	14		0.5	U	0.5	U	2	U	2	U	22		2	U
MW-1	Water	10/16/03	76	D	2.5	U	2.5	U	10	U	250	D	10	U	10	U	280	D	10	U	1200	D	28	D	2.5	U	10	U	2.5	U	150	UL	2.5	U	10	U	10	U	10	U	460	D	10	U
MW-1	Water	01/30/04	36		0.5	U	0.5	U	0.5	U	140	D	2	U	2	U	100	D	2	U	510	D	17		0.5	U	2	U	0.5	U	46		0.5	U	0.5	U	2	U	2	U	210	D	2	U
MW-1	Water	04/29/04	54	D	1	U	1	U	1	U	150	D	4	U	4	U	150	D	4	U	590	D	20	D	1	U	4	U	1	U	43	D	1	U	1	U	4	U	4	U	250	D	4	U
MW-1 Dup	Water	04/29/04	52	D	1	U	1	U	1	U	150	D	4	U	4	U	140	D	4	U	570	D	18	D	1	U	4	U	1	U	39	D	1	U	1	U	4	U	4	U	260	D	4	U
MW-1	Water	07/26/04	47	D	1.3	U	1.3	U	1.3	U	160	D	5	U	5	U	130	D	5	U	610	D	18	D	1.3	U	5	U	1.3	U	40	D	1.3	U	1.3	U	5	U	5	U	270	JD	5	U
MW-1 Dup	Water	07/26/04	46	D	1.3	U	1.3	U	1.3	U	160	D	5	U	5	U	120	D	5	U	640	D	18	D	1.3	U	5	U	1.3	U	40	D	1.3	U	1.3	U	5	U	5	U	280	JD	5	U
MW-2	Water	02/28/03	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-2	Water	07/07/03	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-2	Water	10/16/03	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-2	Water	01/30/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-2	Water	04/29/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-2	Water	07/26/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-3	Water	07/30/02	0.5	U	0.5	U	0.5	U	0.5	U	2.2		2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-3	Water	02/28/03	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-3	Water	07/07/03	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-3	Water	10/16/03	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-3	Water	01/30/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-3	Water	04/29/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-3	Water	07/25/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-4	Water	07/29/02	2	U	0.5	U	0.5	U	0.5	U	2.3		2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-4	Water	02/28/03	29		0.5	U	0.5	U	0.5	U	35		2	U	2	U	2.2		2	U	3.8		2	U	0.5	U	2	U	0.5	U	3.1		0.5	U	0.5	U	2	U	2	U	45		2	U
MW-4	Water	07/07/03	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-4 Dup	Water	07/07/03	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-4	Water	10/16/03	7.1		0.5	U	0.5	U	0.5	U	5.5		2	U	2	U	2	U	2	U	4.4		0.5	U	2	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-4 Dup	Water	10/16/03	7.5		0.5	U	0.5	U	0.5	U	6.3		2	U	2	U	2	U	2	U	4.8		0.5	U	2	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-4	Water	01/30/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-4	Water	04/29/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-4	Water	07/26/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-5	Water	02/28/03	24		0.5	U	0.5	U	0.5	U	110	D	2	U	2	U	26		2	U	75	D	27		0.5	U	2	U	0.5	U	87	D	0.5	U	0.5	U	2	U	2	U	23		2	U
MW-5 Dup	Water	02/28/03	25		0.5	U	0.5	U	0.5	U	110	D	2	U	2	U	30		2	U	99	D	30		0.5	U	2.3		0.5	U	110	D	0.5	U	0.5	U	2	U	2	U	25		2	U
MW-5	Water	01/30/04	9.7		0.5	U	0.5	U	0.5	U	49		2	U	2	U	2	U	2	U	2	U	38		0.5	U	2	U	0.5	U	82	D	0.5	U	0.5	U	2	U	2	U	2.9		2	U
MW-5 Dup	Water	01/30/04	11		0.5	U	0.5	U	0.5	U	56		2	U	2	U	2	U	2	U	2	U	39		0.5	U	2	U	0.5	U	84	D	0.5	U	0.5	U	2	U	2	U	3.4		2	U
MW-6	Water	07/07/03	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-6	Water	10/16/03	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-6	Water	01/30/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-6	Water	04/29/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-6	Water	07/26/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-7	Water	07/07/03	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-7	Water	10/16/03	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-7	Water	01/30/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-7	Water	04/29/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U
MW-7	Water	07/26/04	2	U	0.5	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	0.5	U	2	U	0.5	U	2	U	0.5	U	0.5	U	2	U	2	U	2	U	2	U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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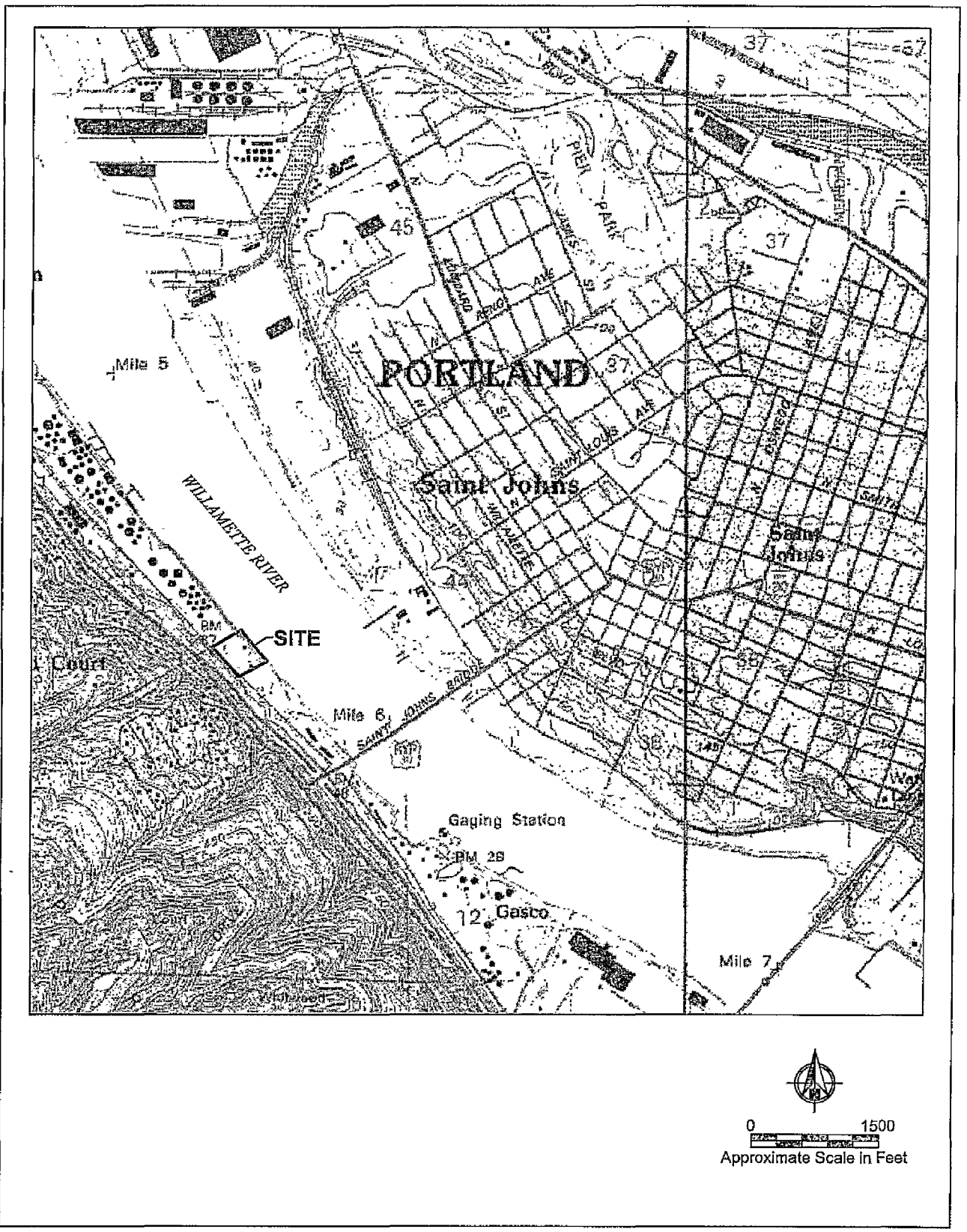
Table 5
Lead in Groundwater
Brix Maritime
Portland, Oregon

Location	Matrix	Date Sampled	Total Lead (ppb)		Dissolved Lead (ppb)	
MW-1	Water	02/28/03	288		0.03	
MW-1	Water	07/07/03	1.34		0.05	
MW-1	Water	10/16/03	1.41		0.06	
MW-1	Water	01/30/04	0.05		0.02	U
MW-1	Water	04/29/04	0.11		0.02	U
MW-1 Duplicate	Water	04/29/04	0.11		0.04	
MW-1	Water	07/26/04	2.35		2.12	
MW-1 Duplicate	Water	07/26/04	1.81		1.93	
MW-2	Water	02/28/03	57.6		0.04	
MW-2	Water	07/07/03	0.04		0.05	
MW-2	Water	10/16/03	25.9		0.58	
MW-2	Water	01/13/04	0.03		0.02	U
MW-2	Water	04/29/04	0.02	U	0.02	
MW-2	Water	07/26/04	13		3.39	
MW-3	Water	07/30/02	0.88		0.13	
MW-3	Water	02/28/03	65.9		0.05	
MW-3	Water	07/07/03	0.36		0.08	
MW-3	Water	10/16/03	0.22		0.05	
MW-3	Water	01/13/04	0.1		0.05	
MW-3	Water	04/29/04	0.05		0.02	
MW-3	Water	07/26/04	0.13		1.00	
MW-4	Water	07/29/02	0.36		0.02	U
MW-4	Water	02/28/03	0.70		0.02	U
MW-4	Water	07/07/03	0.78	J	0.02	
MW-4 Duplicate	Water	07/07/03	0.18	J	0.03	
MW-4	Water	10/16/03	0.46		0.03	
MW-4 Duplicate	Water	10/16/03	0.54		0.02	U
MW-4	Water	01/13/04	0.08		0.03	
MW-4	Water	04/29/04	0.47		0.09	
MW-4	Water	07/26/04	0.04		0.03	
MW-5	Water	02/28/03	131		0.06	
MW-5 Duplicate	Water	02/28/03	116		0.03	
MW-5	Water	01/13/04	0.06		0.02	
MW-5 Duplicate	Water	01/13/04	0.08		0.02	
MW-6	Water	07/07/03	0.1		0.02	U
MW-6	Water	10/16/03	0.03		0.07	
MW-6	Water	01/13/04	0.09		0.02	U
MW-6	Water	04/29/04	0.08		0.03	
MW-6	Water	07/26/04	0.51		0.10	
MW-7	Water	07/07/03	0.17		0.02	U
MW-7	Water	10/16/03	0.02	U	0.03	
MW-7	Water	01/13/04	0.1		0.02	U
MW-7	Water	04/29/04	0.02	U	0.02	
MW-7	Water	07/26/04	0.18		0.04	

Note: U = not detected at method reporting limit. ppb = parts per billion. J = estimated
Water concentrations are in µg/L.

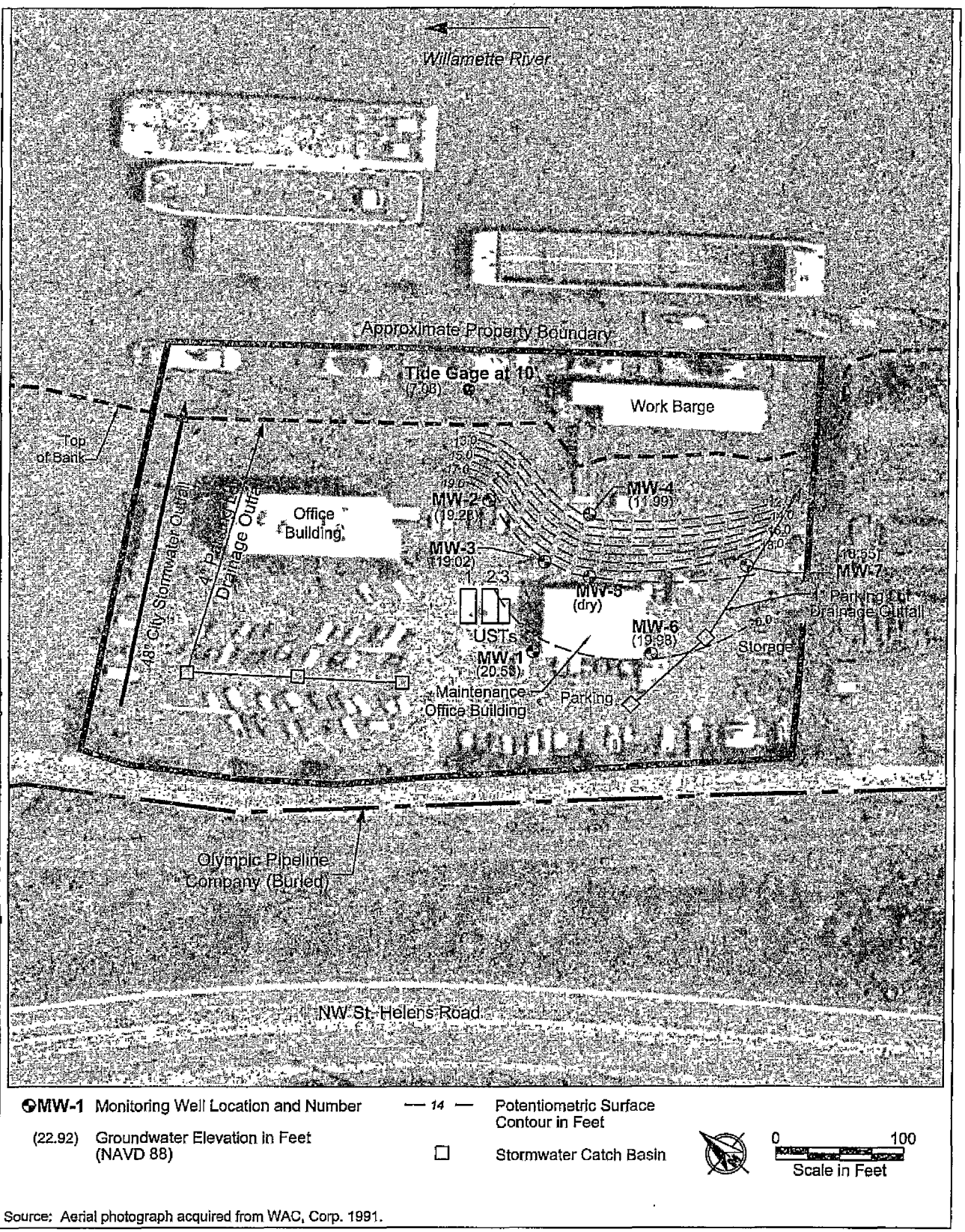
FIGURES



Apr 01, 2003 4:09pm cdavidson I:\CAD\Jobs\9900586-Brix_Maritime\9900560199005601-03.dwg FIG 1

ANCHOR ENVIRONMENTAL, L.L.C.

Figure 1
Site Location Map
Brix Maritime
Portland, Oregon



Source: Aerial photograph acquired from WAC, Corp. 1991.

Oct 11, 2004 10:22am cdavidson K:\Jobs\990056-Brix_Maritime\990056011990\0056011-09.dwg Fig 2

ANCHOR ENVIRONMENTAL, L.L.C.

Figure 2
Well Location and Potentiometric Surface Map (July 26, 2004)
Brix Maritime
Portland, Oregon

Appendix A
Field Sampling Data Package

ANCHOR ENVIRONMENTAL, L.L.C.

Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Phone 503.670.1108
Fax 503.670.1128

Memorandum

To: File 990056-01

From: Timothy J. Stone

Date: August 20, 2004

Re: July 2004 Groundwater Sample Collection at Brix Maritime, Portland, Oregon

OVERVIEW

On July 26, 2004, Anchor measured groundwater elevations in seven monitoring wells and recorded the river elevation from the staff gauge located at the site. In addition, groundwater samples were collected from six of the seven monitoring wells (MW-5 had insufficient water to sample). Seven water samples (including one duplicate sample) were submitted for analysis of VOCs by U.S. Environmental Protection Agency (USEPA) Method 8260+MTBE; gasoline by NWTPH-Gx; diesel and heavy oils by NWTPH-Dx; PAHs by USEPA Method 8270-SIM; total lead; and dissolved lead. Trip blanks were submitted for VOCs and NWTPH-Gx.

PURGING AND SAMPLING

Before sampling, wells were purged of at least three casing volumes, until field parameters (temperature, pH, and specific conductivity) stabilized, or the wells purged dry. Temperature, pH, and specific conductivity values were measured and recorded after each casing volume was removed. Field sampling parameters are presented within the attached table.

A minimum of three volumes was purged from each well using a peristaltic pump equipped with new pump tubing, and connected to polyethylene tubing dedicated to each well. Pumping rates were reduced, and samples were then collected directly from the dedicated pump tubing. Samples for dissolved lead were field-filtered using an in-line high-capacity 0.45 micron filter prior to field preservation with nitric acid.

Quality control consisted of collecting and analyzing one duplicate sample from MW-1. A trip blank was submitted for VOC analysis by USEPA Method 8260 + MTBE. A trip blank was also submitted for analysis by NWTPH-Gx method.

SAMPLE HANDLING AND SHIPPING

Nine samples were placed in iced shipping containers and transported by courier to Columbia Analytical Services (CAS), Kelso, Washington, under chain of custody documentation.

Attachments: Field Sampling Data Sheets
Chain-of-Custody Documentation

Table
Sampling Field Parameters
Brix Maritime
July 2004

Well	Blind Code	Date Sampled	Depth to Water (feet)	Pore Volumes Purged	Gallons Removed	pH	Specific Conductance µS	Temperature °C	Dissolved Oxygen mg/L
Monitoring Wells									
MW-1	BX-072604-1	7/26/2004	21.28	3	0.6	6.01	1105	16.61	0.10
MW-2	BX-072604-3	7/26/2004	22.85	3	0.6	6.27	650	16.01	0.69
MW-3	BX-072604-4	7/26/2004	22.91	3	0.9	6.20	596	15.78	0.18
MW-4	BX-072604-5	7/26/2004	11.56	3	1.8	5.94	355	17.72	0.28
MW-5		7/26/2004	Dry						
MW-6	BX-072604-7	7/26/2004	21.23	3	2.1	6.12	451	16.01	0.39
MW-7	BX-072604-6	7/26/2004	22.40	3	1.5	6.28	302	16.47	0.55
QA/QC									
MW-1 (DUP)	BX-072604-2	7/26/2004	22.15	3	0.6	6.01	1105	16.61	0.10

NA=not applicable

\\union\portland\Projects\BRIX\Sampling\T 2003\Brix Table_072604.xls

Confidential Business Information

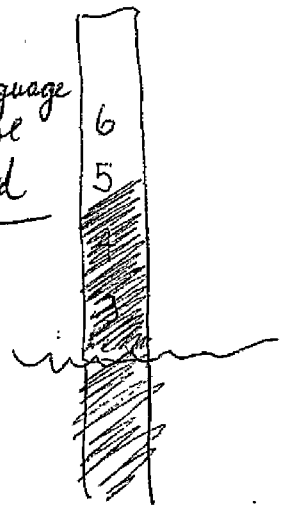
Depth to Water Measurements
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.			Site: Brix Maritime	
			Project No. : 990056-01	
Well	Date (MM/DD/YY)	Time (2400)	DTW (feet)	Comments
MW-1	7/26/04	1130	21.28	no dnapl product detected / Strong gasoline odor
MW-2		1145	22.85	
MW-3		1154	22.91	DTP = 22.89
MW-4		*1203	11.56	
MW-5		1234	DRY	
MW-6		1223	21.23	
MW-7		1215	22.40	
River Gauge		1148	2.75	** estimated / numbers covered by residue

Note: DTW = Depth to Water; DTP = Depth to Product

* walked shoreline – observed some staining (rust) but no obvious seeps or sheens.

** NOTE: Staff gauge needs to be cleaned



Confidential Business Information

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-1
SITE ADDRESS: Portland, Oregon BLIND ID: BX-072604-1
DUP ID: BX-072604-2 NA 1215

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?	TEMPERATURE:	°F 75 .	°C				

(Circle appropriate units)

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
7/26/04	11:30	22.15	/	21.28	/	0.87	X 1	0.14
/ /	:	.	.	.	.		X 3	0.43

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	7/26/04	12:05	B	6	40 ml	HCl	YES	NO		✓
Amber Glass	/ /	:		2	250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		✓
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	NO		✓
Red Diss. Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	YES		✓
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 10 20

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 11:45 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	0.6	6.01	1105	16.61	/	0.10	Clear / colorless
2	B	0.4	6.10	1111	16.69	/	0.18	Clear / colorless
1	B	0.2	6.24	1160	17.02	/	2.38	Slight Cloudy / grey *
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

* slight sheen / strong gasoline odor

SAMPLER: Tim Stone (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-2
SITE ADDRESS: Portland, Oregon BLIND ID: BX-072604-3
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE: °F 78. °C		

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW [Product Thickness]	DTB-DTW [Water Column]	[Water Column x Gal/ft]	Volume (gal)
7/26/04	11:45	24.25	.	22.85	.	1.40	X 1	0.23
/ /	:	.	.	.	.		X 3	0.69

Gal/ft = (dia./2)² x 0.163	1" =	0.041	2" =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [N if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	
VOA Glass	7/26/04	12:45	B	6	40 ml HCl	YES	NO		√
Amber Glass	/ /	:		2	250, 500, 1L (None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L HNO_3	YES	NO		√
Red Diss. Poly	/ /	:		1	250, 500, 1L HNO_3	YES	YES		√
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time: 12:20 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	0.6	6.27	650	16.01		0.69	Clear/colorless
2	B	0.4	6.27	651	16.02		0.67	Clear/colorless
1	B	0.2	6.27	651	15.97		0.63	Cloudy/grey
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: Tim Stone (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-8
SITE ADDRESS: Portland, Oregon
BLIND ID: BX-072604-4
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?	TEMPERATURE:	°F 80 .	°C				

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
72604	11:54	24.60	22.89	22.91		1.69	X1	0.28
/ /	:	.	.	.	.		X3	0.85

Gal/ft = (dia./2)² x 0.163	1" =	0.041	2" =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	[√ if used]
VOA Glass	7/26/04	13:35	B	12 40 ml	HCl	YES	NO		√
Amber Glass	7/26/04	13:35	B	2 250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		√
~~White Poly~~ Amber Glass	7/27/04	~~10:00~~ 11:00	B	2 250, 500, 1L	None	YES	NO	NA	√
Yellow Poly	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1 250, 500, 1L	HNO_3	YES	NO		
Red Diss. Poly	/ /	:		1 250, 500, 1L	HNO_3	YES	YES		
	/ /	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 18

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G) VPH
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil & Grease) EPH
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Kjeldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time: 12:55

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp/°C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	0.9	6.20	596	15.78		0.18	
2	B	0.6	6.26	596	15.85		0.20	
1	B	0.3	6.16	591	16.44		0.51	Clear/slight yellow tint
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

* sheen

SAMPLER: TIM STONE
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-4
SITE ADDRESS: Portland, Oregon
BLIND ID: BX-072604-5
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?	TEMPERATURE: °F 85. °C						

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
7/26/04	12:03	14.80		11.56		3.24	X1	0.53
/ /	:	.	.	.	.		X3	1.58

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	7/26/04	14:30	B	6	40 ml	HCl	YES	NO		
Amber Glass	/ /	:		2	250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	NO		
Red Diss. Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			
Total Bottles (include duplicate count):				10						

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (NPH-HCID) (NWTPH-DX) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) - (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 13:45 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4	.	.	.		.		.	
3	B	1.8	5.94	355	17.72		0.28	↑
2	B	1.2	5.96	354	17.78		0.30	
1	B	0.6	6.01	360	18.14		0.33	Clear/Colorless
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: Tim Stoate (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-5
SITE ADDRESS: Portland, Oregon BLIND ID: DRY - NO Sample
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE:	°F 85.	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
7/26 DF	12:34	NA	.	DRY	.	.	X1	.
/ /	:	.	.	.	.		X3	.

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	/ /	:		6	40 ml	HCl	YES	NO		
Amber Glass	/ /	:		2	250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	NO		
Red Diss. Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 0

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Kjeldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: N/A Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3		.	.		.		.	
2		.	.		.		.	
1		.	.		.		.	
0	DRY	0.00	.		.			

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TM Jones (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-6
SITE ADDRESS: Portland, Oregon BLIND ID: BX-072604-7
DUP ID: NA

WIND FROM:	N	NE	E	(SE)	S	SW	W	NW	LIGHT	(MEDIUM)	HEAVY
WEATHER:	(SUNNY)		CLOUDY		RAIN		?		TEMPERATURE:	(°F) 85	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
7/26/04	12:23	25.05	.	21.23	.	3.82	X1	0.62
/ /	:	.	.	.	.	.	X3	1.87

Gal/ft = (dia./2)² x 0.163	1" =	0.041	(2" =	0.163)	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	7/26/04	16:00	B	(6)	(40 ml)	(HCl)	(YES)	NO		√
Amber Glass	/ /	:		(2)	250, 500, 1L	(None) (HCl) (H_2SO_4)	(YES)	NO		√
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		(1)	250, 500, 1L	(HNO_3)	(YES)	(NO)		√
Red Diss. Poly	/ /	:		(1)	250, 500, 1L	(HNO_3)	(YES)	(YES)		√
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) · (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 15:20 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.					
3	B	2.1	6.12	451	16.01		0.39	
2	B	1.4	6.12	451	16.05		0.41	
1	B	0.7	6.13	452	16.13		0.42	Clear/Colorless
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-7
SITE ADDRESS: Portland, Oregon
BLIND ID: BX-072604-6
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN			?	TEMPERATURE: °F 85. °C		

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
7/26/04	12:15	25.00	.	22.40	.	2.60	X1	0.42
/ /	:	.	.	.	.		X3	1.27

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (If product is detected, do NOT sample) Sample Depth: N/A used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative (circle)	Ice	Filter	pH	√
VOA Glass	7/26/04	15:10	B	6	40 mL	HCl	YES	NO		✓
Amber Glass	/ /	:		2	250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		✓
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	NO		✓
Red Diss. Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	YES		✓
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) - (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 14:40 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.				.	
3	B	1.5	6.28	302	16.41		0.55	
2	B	1.0	6.20	302	16.53		0.60	
1	B	0.5	6.30	301	16.82		0.60	clear/colorless
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: Tim Stones (PRINTED NAME) (SIGNATURE)

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Columbia Analytical Services, Inc.
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SR#: _____ PAGE 1 OF 1 COC # _____

PROJECT NAME: BRIX MARITIME (BRIX)
PROJECT NUMBER: 990056-01
PROJECT MANAGER: JOHN RENDA
COMPANY/ADDRESS: ANCHOR - PDX
CITY/STATE/ZIP: PORTLAND, OR
E-MAIL ADDRESS:
PHONE #: 503-670-1100 FAX #: 670-1128
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☒ 8021 ☐ BTEX ☐	Hydrocarbons-Assess below) Gas ☒ Diesel ☒ Oil ☐ Fuel Fingerprint ☐ NWTPH-HCID ☐	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHs 8310 ☐ SIM ☒	Metals Total ☒ Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) DOC (circle) Total-P, TKN, TOC, NH_3-N, COD, NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	REMARKS
BX-072604-1	7/26/04	1205		H_2O	10		X	X					X	X					
-2		1215			10		X	X					X	X					
-3		1245			10		X	X					X	X					
-4		1335			10		X	X					X	X					
-5		1430			10		X	X					X	X					
-6		1510			10		X	X					X	X					
-7		1600			10		X	X					X	X					
TRIP BLK.					2		X												
TRIP BLK.					2			X											

REPORT REQUIREMENTS

- ___ I. Routine Report: Method Blank, Surrogate, as required
- X II. Report Dup., MS, MSD as required
- ___ III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- ___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
X 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date: _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
* Report MTBE w/ 8260 results

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature:	Signature:	Signature:
Date/Time: 7/27/04 - 1500	Date/Time:	Date/Time:	Date/Time:
Printed Name: TIM STONE	Printed Name:	Printed Name:	Printed Name:
Firm: ANCHOR - PDX	Firm:	Firm:	Firm:

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Appendix B
Laboratory Report

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services INC
An Employee - Owned Company

August 16, 2004 Service Request No: K2405544

John Renda
Anchor Environmental
6650 SW Redwood Lane Suite 110
Portland, OR 97224

RE: BRIX Maritime / 990056-01

Dear John:

Enclosed are the results of the sample(s) submitted to our laboratory on July 28, 2004. For your reference, these analyses have been assigned our service request number K2405544.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC 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.

Please call if you have any questions. My extension is 3281.

Respectfully submitted,

Columbia Analytical Services, Inc.

Abbie Spielman
Project Chemist

AS/jeb

Confidential Business Information

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

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Case Narrative

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Anchor Environmental	**Service Request No.:**	K2405544
Project:	BRIX Maritime	**Date Received:**	7/28/04
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

Sample Receipt

Eight water samples were received for analysis at Columbia Analytical Services on 7/28/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Total and Dissolved Metals

Sample Notes and Discussions:
The result for Dissolved Lead in sample BX-072604-4 was significantly higher than the result for Total Lead. The result was confirmed by direct analysis of the sample containers. It is suspected that the sample containers for dissolved and total may have been mislabeled in the field. No further corrective action was appropriate

No other anomalies associated with the analysis of these samples were observed.

Diesel Range Organics by NWTPH-Dx

Lab Control Sample Exceptions:
The upper control criterion was exceeded for the analyte Diesel Range Organics (DRO) in Laboratory Control Sample (LCS) KWG0411099-2. The working spiking solution, HCSV6-49H was subsequently analyzed and found to have concentrated to approximately 130% of the initial value. The sample data are not significantly affected. No further corrective action was taken.

No anomalies associated with the analysis of these samples were observed.

Gasoline Range Organics by NWTPH-Gx

No anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260B

Elevated Method Reporting Limits:
Samples BX-072604-1 and BX-072604-2 required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recoveries of Naphthalene for sample BX-072604-1 is not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Approved by _____ **Date** 8/17/04

0005

Initial Calibration Exceptions:
The primary evaluation criterion was exceeded for the following analytes in Initial Calibration (ICAL) ID CAL3427: Bromomethane, trans-1, 3-Dichloropropene, 2-Hexanone, Styrene, and Naphthalene. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was 9.1%. The calibration meets the alternative evaluation criteria. Note that CAS/Kelso policy does not allow the use of averaging if any analyte in the ICAL exceeds 30% RSD.

No other anomalies associated with the analysis of these samples were observed.

<u>Polynuclear Aromatic Hydrocarbons by EPA Method 8270C</u>

Elevated Method Reporting Limits:
Samples BX-072604-1, BX-072604-2, and BX-072604-4 required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

Initial Calibration Exceptions:
The primary evaluation criterion was exceeded for Dibenz (a, h) anthracene in Initial Calibration (ICAL) ID CAL3678. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was 5.6%. The calibration meets the alternative evaluation criteria. Note that CAS/Kelso policy does not allow the use of averaging if any analyte in the ICAL exceeds 30% RSD.

No other anomalies associated with the analysis of these samples were observed.

Approved by _____ Date _____

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Chain of Custody Documentation

00007

CHAIN OF CUSTODY

Columbia Analytical Services INC.
An Employee - Owned Company

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: 1224055244

PAGE 1 OF 1 COC #

PROJECT NAME: BRIX MARITIME (BRIX)
PROJECT NUMBER: 990056-01
PROJECT MANAGER: JOHN RENDA
COMPANY/ADDRESS: ANCHOR-PDX
CITY/STATE/ZIP: PORTLAND, OR
E-MAIL ADDRESS:
PHONE #: 503-670-1108 FAX#: 670-1128
SAMPLER'S SIGNATURE: Timothy J. Stone

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☒ 8260 Target Analyte List ☐	Hydrocarbons (see below) Gas☒ Diesel☒ Oil☐ ☐ Fuel Fingerprint ☐ NW-HCID ☐	BTEX☐ 8021☐	Oil & Grease/TRPH 1664 HEM☐	1664 SGT☐	PCB's Aroclors☐	Congeners☐	Pesticides/Herbicides 608☐ 8081A☐	8141A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	8151A☐	PAHs 8310☐	SIM☒	Metals (Total☒ Dissolved☐) (See list below)	Cyanide☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	Hex-Chrom☐	TOX 9020☐	AOX 1650☐	506☐	REMARKS
BX-072604-1	7/26/04	1205		H_2O	10		X	X								X		X	X							
-2		1215			10		X	X								X		X	X							
-3		1245			10		X	X								X		X	X							
-4		1335			10		X	X								X		X	X							
-5		1430			10		X	X								X		X	X							
-6		1510			10		X	X								X		X	X							
-7		1600			10		X	X								X		X	X							
TRIP BLK.					2		X																			
TRIP BLK.					2			X																		

REPORT REQUIREMENTS

- ___ I. Routine Report: Method Blank, Surrogate, as required
- X II. Report Dup., MS, MSD as required
- ___ III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- ___ V. EDD

INVOICE INFORMATION

P.O. #:
Bill To:

TURNAROUND REQUIREMENTS

- ___ 24 hr. ___ 48 hr.
- X 5 Day
- X Standard (10-15 working days)
- ___ Provide FAX Results

Requested Report Date:

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
X Report MTBE w/ 8260 results

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature: Tracy Black	Signature:	Signature:
Date/Time: 7/27/04 - 1500	Date/Time: 7/28/04 1630	Date/Time:	Date/Time:
Printed Name: Tim Stone	Printed Name: Black	Printed Name:	Printed Name:
Firm: ANCHOR-PDX	Firm: CTS	Firm:	Firm:

BCOC #1 06/03

00008

Confidential Business Information

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC Abbie

Project/Client Anchor Work Order K240 5574

Cooler received on 7-28-04 and opened on 7-28-04 by BW

1. Were custody seals on outside of coolers?	(Y)	N	
If yes, how many and where?			
2. Were custody seals intact?			
3. Were signature and date present on the custody seals?	(Y)	N	
4. Is the shipper's airbill available and filed? If no, record airbill number:	~~Y~~	~~N~~	
5. COC#			
Temperature of cooler(s) upon receipt:	5.3	5.1	5.8
Temperature Blank:	3.6	5.3	5.1
Were samples hand delivered on the same day as collection?	~~Y~~	~~N~~	
6. Were custody papers properly filled out (ink, signed, etc.)?	(Y)	N	
7. Type of packing material present ICE, styrafoam, gel inserts			
8. Did all bottles arrive in good condition (unbroken)?	(Y)	N	
9. Were all bottle labels complete (i.e analysis, preservation, etc.)?	(Y)	N	
10. Did all bottle labels and tags agree with custody papers?	(Y)	N	
11. Were the correct types of bottles used for the tests indicated?	(Y)	N	
12. Were all of the preserved bottles received at the lab with the appropriate pH?	(Y)	N	
13. Were VOA vials checked for absence of air bubbles, and if present, noted below?	(Y)	N	
14. Did the bottles originate from CAS/K or a branch laboratory?	(Y)	N	
15. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?	~~Y~~	~~N~~	
16. Was C12/Res negative?	~~Y~~	~~N~~	

Explain any discrepancies:

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00009

Total and Dissolved Metals

Confidential Business Information

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Anchor Environmental

Service Request: K2405544

Project No.: 990056-01

Project Name: BRIX Maritime

Sample No.	Lab Sample ID.
BX-072604-1	K2405544-001
BX-072604-1	K2405544-001 DISS
BX-072604-1D	K2405544-001D
BX-072604-1S	K2405544-001S
BX-072604-2	K2405544-002
BX-072604-2	K2405544-002 DISS
BX-072604-3	K2405544-003
BX-072604-3	K2405544-003 DISS
BX-072604-4	K2405544-004
BX-072604-4	K2405544-004 DISS
BX-072604-5	K2405544-005
BX-072604-5	K2405544-005 DISS
BX-072604-6	K2405544-006
BX-072604-6	K2405544-006 DISS
BX-072604-7	K2405544-007
BX-072604-7	K2405544-007 DISS
Method Blank	K2405544-MB

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Signature: _____ Date: 8/13/04

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2405544
Project No.:	990056-01 MW-1	Date Collected:	07/26/04
Project Name:	BRIX Maritime	Date Received:	07/28/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-072604-1 Lab Code: K2405544-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	2.35		

% Solids: 0.0

Comments:

00012

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01 MW-1 dup
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2405544
Date Collected: 07/26/04
Date Received: 07/28/04
Units: µG/L
Basis: NA

Sample Name: BX-072604-1

Lab Code: K2405544-001 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	2.12		

% Solids: 0.0

Comments:

00013

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2405544
Project No.:	990056-01 MW-1 dup	Date Collected:	07/26/04
Project Name:	BRIX Maritime	Date Received:	07/28/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-072604-2 Lab Code: K2405544-002

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	1.81		

% Solids: 0.0

Comments:

00014

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01 MW-1 dup
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2405544
Date Collected: 07/26/04
Date Received: 07/28/04
Units: µG/L
Basis: NA

Sample Name: BX-072604-2
Lab Code: K2405544-002 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	1.93		

% Solids: 0.0

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2405544
Project No.:	990056-01	Date Collected:	07/26/04
Project Name:	BRIX Maritime	Date Received:	07/28/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-072604-3 MW-2 Lab Code: K2405544-003

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	13.0		

% Solids: 0.0

Comments:

00016

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2405544
Project No.:	990056-01	Date Collected:	07/26/04
Project Name:	BRIX Maritime	Date Received:	07/28/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-072604-3 MW-2 Lab Code: K2405544-003 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	3.39		

% Solids: 0.0

Comments:

00017

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2405544
Date Collected: 07/26/04
Date Received: 07/28/04
Units: µG/L
Basis: NA

Sample Name: BX-072604-4 MW-3
Lab Code: K2405544-004

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	0.13		

% Solids: 0.0

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2405544
Project No.:	990056-01	Date Collected:	07/26/04
Project Name:	BRIX Maritime	Date Received:	07/28/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-072604-4 MW-3 Lab Code: K2405544-004 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	1.00		

% Solids: 0.0

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2405544
Date Collected: 07/26/04
Date Received: 07/28/04
Units: µG/L
Basis: NA

Sample Name: BX-072604-5 MW-4
Lab Code: K2405544-005

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	0.04		

% Solids: 0.0

Comments:

00020

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2405544
Date Collected: 07/26/04
Date Received: 07/28/04
Units: µG/L
Basis: NA

Sample Name: BX-072604-5 MW-4

Lab Code: K2405544-005 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	0.03		

% Solids: 0.0

Comments:

00021

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2405544
Date Collected: 07/26/04
Date Received: 07/28/04
Units: µG/L
Basis: NA

Sample Name: BX-072604-6 MW-7

Lab Code: K2405544-006

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	0.18		

% Solids: 0.0

Comments:

00022

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2405544
Project No.:	990056-01	Date Collected:	07/26/04
Project Name:	BRIX Maritime	Date Received:	07/28/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-072604-6 MW-7 Lab Code: K2405544-006 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	0.04		

% Solids: 0.0

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2405544
Date Collected: 07/26/04
Date Received: 07/28/04
Units: µG/L
Basis: NA

Sample Name: BX-072604-7 MW-6
Lab Code: K2405544-007

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	0.51		

% Solids: 0.0

Comments:

00024

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2405544
Project No.:	990056-01	Date Collected:	07/26/04
Project Name:	BRIX Maritime	Date Received:	07/28/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BX-072604-7 MW-6 Lab Code: K2405544-007 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	0.10		

% Solids: 0.0

Comments:

00025

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2405544
Date Collected:
Date Received:
Units: µG/L
Basis: NA

Sample Name: Method Blank
Lab Code: K2405544-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	8/9/04	8/12/04	0.02	U	

% Solids: 0.0

Comments:

00026

Confidential Business Information

METALS
-2a-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Anchor Environmental Service Request: K2405544

Project No.: 990056-01

Project Name: BRIX Maritime

ICV Source: Inorganic Ventures CCV Source: Various

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Lead	50.0	49.4	99	25.0	24.9	100	25.0	100	200.8

00027

Confidential Business Information

METALS
- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Anchor Environmental Service Request: K2405544

Project No.: 990056-01

Project Name: BRIX Maritime

ICV Source: CCV Source: Various

Concentration Units: ug/I

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Lead				25.0	24.8	99			200.8

METALS
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Anchor Environmental Service Request: K2405544

Project No.: 990056-01

Project Name: BRIX Maritime

Concentration Units: ug/I

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Lead				0.02	0.02	106		

METALS
- 3 -
BLANKS

Client: Anchor Environmental Service Request: K2405544

Project No.: 990056-01

Project Name: BRIX Maritime

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	Method
Lead	0.02	U	0.02	U	0.02	U	0.02	U			200.8

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2405544
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name: BX-072604-1S
Lab Code: K2405544-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Lead	70 - 130	22.5		2.35		20.0	101		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
- 6 -
DUPLICATES

Client: Anchor Environmental
Project No.: 990056-01
Project Name: BRIX Maritime
Matrix: WATER

Service Request: K2405544
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name: BX-072604-1D
Lab Code: K2405544-001D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Lead	20	2.35		2.31		1		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
-7-
LABORATORY CONTROL SAMPLE

Client: Anchor Environmental Service Request: K2405544

Project No.: 990056-01

Project Name: BRIX Maritime

Aqueous LCS Source: Inorganic Ventures Solid LCS Source:

Analyte	Aqueous ug/L True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Lead	20.0	19.6	98						

METALS
-10-
METHOD DETECTION LIMITS

Client: Anchor Environmental Service Request: K2405544

Project No.: 990056-01

Project Name: BRIX Maritime

ICP/ICP-MS ID #: PQ-S

GFAA ID #: AA ID #:

Analyte	Mass	Back-ground	MRL (ug/L)		Method
Lead	208		0.02		200.8

Comments

METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Anchor Environmental Service Request: K2405544

Project No.: 990056-01

Project Name: BRIX Maritime

ICP ID Number: PQ-S

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Lead	15.00	400.0	200.8

Comments:

00035

Form XII - IN

METALS
- 13 -
PREPARATION LOG

Client: Anchor Environmental Service Request: K2405544

Project No.: 990056-01

Project BRIX Maritime

Method: MS

Lab Code	Preparation Date	Preparation Method	Initial (mL or grams)	Final Volume (mL)
K2405544-001	8/9/04	CLFAA	50	50
K2405544-001 DI	8/9/04	CLFAA	50	50
K2405544-001D	8/9/04	CLFAA	50	50
K2405544-001S	8/9/04	CLFAA	50	50
K2405544-002	8/9/04	CLFAA	50	50
K2405544-002 DI	8/9/04	CLFAA	50	50
K2405544-003	8/9/04	CLFAA	50	50
K2405544-003 DI	8/9/04	CLFAA	50	50
K2405544-004	8/9/04	CLFAA	50	50
K2405544-004 DI	8/9/04	CLFAA	50	50
K2405544-005	8/9/04	CLFAA	50	50
K2405544-005 DI	8/9/04	CLFAA	50	50
K2405544-006	8/9/04	CLFAA	50	50
K2405544-006 DI	8/9/04	CLFAA	50	50
K2405544-007	8/9/04	CLFAA	50	50
K2405544-007 DI	8/9/04	CLFAA	50	50
LCSW	8/9/04	CLFAA	50	50
K2405544-MB	8/9/04	CLFAA	50	50

METALS
- 14 -
ANALYSIS RUN LOG

Client: Anchor Environmental Service Request: K2405544

Project No.: 990056-01

Project Name: BRIX Maritime

Instrument ID Number: PQ-S Method: MS

Start Date: 8/12/04 End Date: 8/12/04

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S0	1.00	15:52													X															
S25	1.00	15:54													X															
ICV	1.00	15:55													X															
CCV1	1.00	15:58													X															
ICB	1.00	16:00													X															
CCB1	1.00	16:02													X															
CRA	1.00	16:03													X															
K2405544-MB	1.00	16:05													X															
LCSW	1.00	16:06													X															
K2405544-001	1.00	16:08													X															
K2405544-001D	1.00	16:09													X															
K2405544-001S	1.00	16:11													X															
K2405544-002	1.00	16:12													X															
K2405544-003	1.00	16:13													X															
K2405544-004	1.00	16:14													X															
K2405544-005	1.00	16:16													X															
CCV2	1.00	16:17													X															
CCB2	1.00	16:19													X															
K2405544-006	1.00	16:20													X															
K2405544-007	1.00	16:21													X															
K2405544-001 DISS	1.00	16:23													X															
K2405544-002 DISS	1.00	16:25													X															
K2405544-003 DISS	1.00	16:26													X															
K2405544-004 DISS	1.00	16:28													X															
K2405544-005 DISS	1.00	16:30													X															
K2405544-006 DISS	1.00	16:31													X															
K2405544-007 DISS	1.00	16:32													X															
ZK2405544-004 DISS	1.00	16:39																												
CCV3	1.00	16:40													X															
CCB3	1.00	16:42													X															

* - Denotes additional elements (other than the standard elements) are represented on another Form 14

00037

Form XIV - IN

Diesel & Residual Range Organics

00038

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Diesel and Residual Range Organics

Sample Name:	BX-072604-1 MW-1	**Units:**	ug/L
Lab Code:	K2405544-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	**920**	L	250	1	07/29/04	08/02/04	KWG0411099	
Residual Range Organics (RRO)	ND	U	500	1	07/29/04	08/02/04	KWG0411099	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	86	50-150	08/02/04	Acceptable
n-Triacontane	86	50-150	08/02/04	Acceptable

Comments:

00039

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Diesel and Residual Range Organics

Sample Name:	BX-072604-2 MW-1 Deep	**Units:**	ug/L
Lab Code:	K2405544-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	930	L	250	1	07/29/04	08/02/04	KWG0411099	
Residual Range Organics (RRO)	ND	U	500	1	07/29/04	08/02/04	KWG0411099	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	82	50-150	08/02/04	Acceptable
n-Triacontane	81	50-150	08/02/04	Acceptable

Comments:

00040

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Diesel and Residual Range Organics

Sample Name:	BX-072604-3 MW-2	**Units:**	ug/L
Lab Code:	K2405544-003	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	07/29/04	08/02/04	KWG0411099	
Residual Range Organics (RRO)	ND	U	500	1	07/29/04	08/02/04	KWG0411099	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	75	50-150	08/02/04	Acceptable
n-Triacontane	76	50-150	08/02/04	Acceptable

Comments:

00041

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Diesel and Residual Range Organics

Sample Name:	BX-072604-4 MW-3	**Units:**	ug/L
Lab Code:	K2405544-004	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	2500	Y	250	1	07/29/04	08/02/04	KWG0411099	
Residual Range Organics (RRO)	8300	O	500	1	07/29/04	08/02/04	KWG0411099	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	80	50-150	08/02/04	Acceptable
n-Triacontane	86	50-150	08/02/04	Acceptable

Comments:

00042

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Diesel and Residual Range Organics

Sample Name:	BX-072604-5 MW-4	**Units:**	ug/L
Lab Code:	K2405544-005	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	07/29/04	08/02/04	KWG0411099	
Residual Range Organics (RRO)	ND	U	500	1	07/29/04	08/02/04	KWG0411099	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	80	50-150	08/02/04	Acceptable
n-Triacontane	81	50-150	08/02/04	Acceptable

Comments:

00043

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Diesel and Residual Range Organics

Sample Name:	BX-072604-6 MW-7	**Units:**	ug/L
Lab Code:	K2405544-006	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	07/29/04	08/02/04	KWG0411099	
Residual Range Organics (RRO)	ND	U	500	1	07/29/04	08/02/04	KWG0411099	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	77	50-150	08/02/04	Acceptable
n-Triacontane	79	50-150	08/02/04	Acceptable

Comments:

00044

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Diesel and Residual Range Organics

Sample Name:	BX-072604-7 MW-6	**Units:**	ug/L
Lab Code:	K2405544-007	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	07/29/04	08/02/04	KWG0411099	
Residual Range Organics (RRO)	ND	U	500	1	07/29/04	08/02/04	KWG0411099	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	84	50-150	08/02/04	Acceptable
n-Triacontane	86	50-150	08/02/04	Acceptable

Comments:

00045

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Diesel and Residual Range Organics

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0411099-4	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	07/29/04	08/02/04	KWG0411099	
Residual Range Organics (RRO)	ND	U	500	1	07/29/04	08/02/04	KWG0411099	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	87	50-150	08/02/04	Acceptable
n-Triacontane	86	50-150	08/02/04	Acceptable

Comments:

Confidential Business Information

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544

Surrogate Recovery Summary
Diesel and Residual Range Organics

Extraction Method: EPA 3510C
Analysis Method: NWTPH-Dx

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
BX-072604-1	K2405544-001	86	86
BX-072604-2	K2405544-002	82	81
BX-072604-3	K2405544-003	75	76
BX-072604-4	K2405544-004	80	86
BX-072604-5	K2405544-005	80	81
BX-072604-6	K2405544-006	77	79
BX-072604-7	K2405544-007	84	86
Batch QCDUP	KWG0411099-1	80	82
Method Blank	KWG0411099-4	87	86
Batch QC	K2405536-004	77	77
Lab Control Sample	KWG0411099-2	88	81
Duplicate Lab Control Sample	KWG0411099-3	84	79

Surrogate Recovery Control Limits (%)

Sur1 =	o-Terphenyl	50-150
Sur2 =	n-Triacontane	50-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Extracted:**	07/29/2004
Sample Matrix:	Water	**Date Analyzed:**	08/02/2004

Duplicate Sample Summary
Diesel and Residual Range Organics

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K2405536-004	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx	**Extraction Lot:**	KWG0411099

Analyte Name	MRL	Sample Result	Batch QCDUP KWG0411099-1 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Diesel Range Organics (DRO)	250	ND	ND	ND	-	30
Residual Range Organics (RRO)	500	ND	ND	ND	-	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00048

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Extracted:**	07/29/2004
Sample Matrix:	Water	**Date Analyzed:**	08/02/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Diesel and Residual Range Organics

Extraction Method:	EPA 3510C	**Units:**	ug/L
Analysis Method:	NWTPH-Dx	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0411099

	Lab Control Sample KWG0411099-2 Lab Control Spike			Duplicate Lab Control Sample KWG0411099-3 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Diesel Range Organics (DRO)	2480	1600	155 *	2320	1600	145	71-146	6	30
Residual Range Organics (RRO)	1720	1600	107	1640	1600	102	53-143	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00049

Confidential Business Information

NWTPH-Gx

00050

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Gasoline Range Organics

Sample Name:	BX-072604-1 MW-1	**Units:**	ug/L
Lab Code:	K2405544-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	9300	Y	250	1	08/09/04	08/09/04	KWG0411623	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	95	50-150	08/09/04	Acceptable

Comments:

Confidential Business Information BRIX002449

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Gasoline Range Organics

Sample Name:	BX-072604-2 MW-1 dup	**Units:**	ug/L
Lab Code:	K2405544-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	**9300**	Y	250	1	08/09/04	08/09/04	KWG0411623	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	95	50-150	08/09/04	Acceptable

Comments:

Confidential Business Information BRIX002450

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Gasoline Range Organics

Sample Name:	BX-072604-3 MW-2	**Units:**	ug/L
Lab Code:	K2405544-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	08/09/04	08/09/04	KWG0411623	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	95	50-150	08/09/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Gasoline Range Organics

Sample Name:	BX-072604-4 MW-3	**Units:**	ug/L
Lab Code:	K2405544-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	08/09/04	08/09/04	KWG0411623	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	92	50-150	08/09/04	Acceptable

Comments:

00054

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Gasoline Range Organics

Sample Name:	BX-072604-5 MW-4	**Units:**	ug/L
Lab Code:	K2405544-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	08/09/04	08/09/04	KWG0411623	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	92	50-150	08/09/04	Acceptable

Comments:

00055

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Gasoline Range Organics

Sample Name:	BX-072604-6 MW-7	**Units:**	ug/L
Lab Code:	K2405544-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	08/09/04	08/09/04	KWG0411623	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	94	50-150	08/09/04	Acceptable

Comments:

00056

Confidential Business Information BRIX002454

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Gasoline Range Organics

Sample Name:	BX-072604-7	**Units:**	ug/L
Lab Code:	K2405544-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	08/09/04	08/09/04	KWG0411623	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	95	50-150	08/09/04	Acceptable

Comments:

Confidential Business Information BRIX002455

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Gasoline Range Organics

Sample Name:	Trip Blanks	**Units:**	ug/L
Lab Code:	K2405544-008	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	08/09/04	08/09/04	KWG0411623	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	95	50-150	08/09/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Gasoline Range Organics

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0411623-5	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	08/09/04	08/09/04	KWG0411623	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	95	50-150	08/09/04	Acceptable

Comments:

Confidential Business Information BRIX002457

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544

Surrogate Recovery Summary
Gasoline Range Organics

Extraction Method: EPA 5030B
Analysis Method: NWTPH-Gx

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
BX-072604-1	K2405544-001	95
BX-072604-2	K2405544-002	95
BX-072604-3	K2405544-003	95
BX-072604-4	K2405544-004	92
BX-072604-5	K2405544-005	92
BX-072604-6	K2405544-006	94
BX-072604-7	K2405544-007	95
Trip Blanks	K2405544-008	95
BX-072604-3DUP	KWG0411623-2	95
Method Blank	KWG0411623-5	95
Lab Control Sample	KWG0411623-3	104
Duplicate Lab Control Sample	KWG0411623-4	103

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Difluorobenzene 50-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

00060

Confidential Business Information BRIX002458

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Extracted:**	08/09/2004
Sample Matrix:	Water	**Date Analyzed:**	08/09/2004

Duplicate Sample Summary
Gasoline Range Organics

Sample Name:	BX-072604-3	**Units:**	ug/L
Lab Code:	K2405544-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx	**Extraction Lot:**	KWG0411623

Analyte Name	MRL	Sample Result	BX-072604-3DUP KWG0411623-2 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Gasoline Range Organics-NWTPH	250	ND	ND	ND	-	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00061

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Extracted:**	08/09/2004
Sample Matrix:	Water	**Date Analyzed:**	08/09/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	NWTPH-Gx	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0411623

	Lab Control Sample KWG0411623-3 Lab Control Spike			Duplicate Lab Control Sample KWG0411623-4 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Gasoline Range Organics-NWTPH	972	1000	97	971	1000	97	73-124	0	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00062

Confidential Business Information BRIX002460

Volatile Organic Compounds
EPA Method 8260B

00063

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: 07/26/2004
Date Received: 07/28/2004

Volatile Organic Compounds

Sample Name: BX-072604-1 MW-1
Lab Code: K2405544-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Chloromethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Vinyl Chloride	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Bromomethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Chloroethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Trichlorofluoromethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Acetone	ND	U	50	2.5	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Methyl tert-Butyl Ether	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Carbon Disulfide	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Methylene Chloride	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
trans-1,2-Dichloroethene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
2-Butanone (MEK)	ND	U	50	2.5	08/06/04	08/06/04	KWG0411589	
2,2-Dichloropropane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
cis-1,2-Dichloroethene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Chloroform	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Bromochloromethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,1,1-Trichloroethane (TCA)	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,1-Dichloropropene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Carbon Tetrachloride	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,2-Dichloroethane (EDC)	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Benzene	**4.0**	D	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Trichloroethene (TCE)	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,2-Dichloropropane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Bromodichloromethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Dibromomethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
2-Hexanone	ND	U	50	2.5	08/06/04	08/06/04	KWG0411589	
cis-1,3-Dichloropropene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Toluene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
trans-1,3-Dichloropropene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,1,2-Trichloroethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
4-Methyl-2-pentanone (MIBK)	ND	U	50	2.5	08/06/04	08/06/04	KWG0411589	

Comments:

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	BX-072604-1 MW-1	**Units:**	ug/L
Lab Code:	K2405544-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Tetrachloroethene (PCE)	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Dibromochloromethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,2-Dibromoethane (EDB)	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
Chlorobenzene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,1,1,2-Tetrachloroethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Ethylbenzene	**93**	D	1.3	2.5	08/06/04	08/06/04	KWG0411589	
m,p-Xylenes	**120**	D	1.3	2.5	08/06/04	08/06/04	KWG0411589	
o-Xylene	**29**	D	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Styrene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Bromoform	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Isopropylbenzene	**47**	D	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,1,2,2-Tetrachloroethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichloropropane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Bromobenzene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
n-Propylbenzene	**160**	D	5.0	2.5	08/06/04	08/06/04	KWG0411589	
2-Chlorotoluene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
4-Chlorotoluene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,3,5-Trimethylbenzene	**130**	D	5.0	2.5	08/06/04	08/06/04	KWG0411589	
tert-Butylbenzene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,2,4-Trimethylbenzene	**610**	D	50	25	08/05/04	08/05/04	KWG0411589	
sec-Butylbenzene	**18**	D	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,3-Dichlorobenzene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
4-Isopropyltoluene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,4-Dichlorobenzene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
n-Butylbenzene	**40**	D	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,2-Dichlorobenzene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,2-Dibromo-3-chloropropane	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,2,4-Trichlorobenzene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichlorobenzene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
Naphthalene	**270**	JD	50	25	08/05/04	08/05/04	KWG0411589	
Hexachlorobutadiene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	

Comments:

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	BX-072604-1	**Units:**	ug/L
Lab Code:	K2405544-001	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	85-115	08/06/04	Acceptable
Toluene-d8	98	86-114	08/06/04	Acceptable
4-Bromofluorobenzene	102	72-115	08/06/04	Acceptable

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	BX-072604-2 MW-1 dup	**Units:**	ug/L
Lab Code:	K2405544-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Chloromethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Vinyl Chloride	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Bromomethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Chloroethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Trichlorofluoromethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Acetone	ND	U	50	2.5	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Methyl tert-Butyl Ether	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Carbon Disulfide	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Methylene Chloride	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
trans-1,2-Dichloroethene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
2-Butanone (MEK)	ND	U	50	2.5	08/06/04	08/06/04	KWG0411589	
2,2-Dichloropropane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
cis-1,2-Dichloroethene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Chloroform	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Bromochloromethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,1,1-Trichloroethane (TCA)	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,1-Dichloropropene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Carbon Tetrachloride	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,2-Dichloroethane (EDC)	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Benzene	**3.9**	**D**	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Trichloroethene (TCE)	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,2-Dichloropropane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Bromodichloromethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Dibromomethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
2-Hexanone	ND	U	50	2.5	08/06/04	08/06/04	KWG0411589	
cis-1,3-Dichloropropene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Toluene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
trans-1,3-Dichloropropene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,1,2-Trichloroethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
4-Methyl-2-pentanone (MIBK)	ND	U	50	2.5	08/06/04	08/06/04	KWG0411589	

Comments:

00067

Confidential Business Information BRIX002465

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: 07/26/2004
Date Received: 07/28/2004

Volatile Organic Compounds

Sample Name: BX-072604-2 MW-1 Dup
Lab Code: K2405544-002

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Tetrachloroethene (PCE)	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Dibromochloromethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,2-Dibromoethane (EDB)	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
Chlorobenzene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,1,1,2-Tetrachloroethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Ethylbenzene	**89**	D	1.3	2.5	08/06/04	08/06/04	KWG0411589	
m,p-Xylenes	**110**	D	1.3	2.5	08/06/04	08/06/04	KWG0411589	
o-Xylene	**28**	D	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Styrene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Bromoform	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Isopropylbenzene	**46**	D	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,1,2,2-Tetrachloroethane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichloropropane	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
Bromobenzene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
n-Propylbenzene	**160**	D	5.0	2.5	08/06/04	08/06/04	KWG0411589	
2-Chlorotoluene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
4-Chlorotoluene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,3,5-Trimethylbenzene	**120**	D	5.0	2.5	08/06/04	08/06/04	KWG0411589	
tert-Butylbenzene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,2,4-Trimethylbenzene	**640**	D	50	25	08/05/04	08/05/04	KWG0411589	
sec-Butylbenzene	**18**	D	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,3-Dichlorobenzene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
4-Isopropyltoluene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,4-Dichlorobenzene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
n-Butylbenzene	**40**	D	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,2-Dichlorobenzene	ND	U	1.3	2.5	08/06/04	08/06/04	KWG0411589	
1,2-Dibromo-3-chloropropane	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,2,4-Trichlorobenzene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichlorobenzene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	
Naphthalene	**280**	JD	50	25	08/05/04	08/05/04	KWG0411589	
Hexachlorobutadiene	ND	U	5.0	2.5	08/06/04	08/06/04	KWG0411589	

Comments:

00068

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	BX-072604-2	**Units:**	ug/L
Lab Code:	K2405544-002	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	85-115	08/06/04	Acceptable
Toluene-d8	99	86-114	08/06/04	Acceptable
4-Bromofluorobenzene	101	72-115	08/06/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	BX-072604-3 MW-2	**Units:**	ug/L
Lab Code:	K2405544-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Vinyl Chloride	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromomethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Trichlorofluoromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Acetone	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Carbon Disulfide	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Methylene Chloride	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
2-Butanone (MEK)	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
2,2-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloroform	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromochloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Carbon Tetrachloride	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Benzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Trichloroethene (TCE)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromodichloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Dibromomethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
2-Hexanone	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Toluene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,2-Trichloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/06/04	08/06/04	KWG0411589	

Comments:

Confidential Business Information BRIX002468

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: 07/26/2004
Date Received: 07/28/2004

Volatile Organic Compounds

Sample Name: BX-072604-3 MW-2
Lab Code: K2405544-003

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Tetrachloroethene (PCE)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Dibromochloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Chlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Ethylbenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
m,p-Xylenes	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
o-Xylene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Styrene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromoform	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Isopropylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
n-Propylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
2-Chlorotoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
4-Chlorotoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,3,5-Trimethylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
tert-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,4-Trimethylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
sec-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,3-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
4-Isopropyltoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,4-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
n-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,4-Trichlorobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichlorobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Naphthalene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Hexachlorobutadiene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	

Comments:

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: 07/26/2004
Date Received: 07/28/2004

Volatile Organic Compounds

Sample Name: BX-072604-3
Lab Code: K2405544-003

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	85-115	08/06/04	Acceptable
Toluene-d8	96	86-114	08/06/04	Acceptable
4-Bromofluorobenzene	91	72-115	08/06/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	BX-072604-4 MW-3	**Units:**	ug/L
Lab Code:	K2405544-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Vinyl Chloride	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromomethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Trichlorofluoromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Acetone	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Carbon Disulfide	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Methylene Chloride	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
2-Butanone (MEK)	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
2,2-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloroform	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromochloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Carbon Tetrachloride	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Benzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Trichloroethene (TCE)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromodichloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Dibromomethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
2-Hexanone	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Toluene	**0.50**		0.50	1	08/06/04	08/06/04	KWG0411589	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,2-Trichloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/06/04	08/06/04	KWG0411589	

Comments:

00073

Confidential Business Information BRIX002471

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	BX-072604-4 MW-3	**Units:**	ug/L
Lab Code:	K2405544-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Tetrachloroethene (PCE)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Dibromochloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Chlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Ethylbenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
m,p-Xylenes	**0.92**		0.50	1	08/06/04	08/06/04	KWG0411589	
o-Xylene	**0.98**		0.50	1	08/06/04	08/06/04	KWG0411589	
Styrene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromoform	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Isopropylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
n-Propylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
2-Chlorotoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
4-Chlorotoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,3,5-Trimethylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
tert-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,4-Trimethylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
sec-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,3-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
4-Isopropyltoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,4-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
n-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,4-Trichlorobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichlorobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Naphthalene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Hexachlorobutadiene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	

Comments:

00074

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	BX-072604-4	**Units:**	ug/L
Lab Code:	K2405544-004	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	85-115	08/06/04	Acceptable
Toluene-d8	97	86-114	08/06/04	Acceptable
4-Bromofluorobenzene	96	72-115	08/06/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	BX-072604-5 MW-4	**Units:**	ug/L
Lab Code:	K2405544-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Vinyl Chloride	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromomethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Trichlorofluoromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Acetone	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Carbon Disulfide	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Methylene Chloride	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
2-Butanone (MEK)	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
2,2-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloroform	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromochloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Carbon Tetrachloride	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Benzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Trichloroethene (TCE)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromodichloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Dibromomethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
2-Hexanone	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Toluene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,2-Trichloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/06/04	08/06/04	KWG0411589	

Comments:

00076

Confidential Business Information BRIX002474

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: 07/26/2004
Date Received: 07/28/2004

Volatile Organic Compounds

Sample Name: BX-072604-5 MW-4
Lab Code: K2405544-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Tetrachloroethene (PCE)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Dibromochloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Chlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Ethylbenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
m,p-Xylenes	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
o-Xylene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Styrene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromoform	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Isopropylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
n-Propylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
2-Chlorotoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
4-Chlorotoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,3,5-Trimethylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
tert-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,4-Trimethylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
sec-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,3-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
4-Isopropyltoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,4-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
n-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,4-Trichlorobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichlorobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Naphthalene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Hexachlorobutadiene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	

Comments:

00077

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	BX-072604-5	**Units:**	ug/L
Lab Code:	K2405544-005	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	85-115	08/06/04	Acceptable
Toluene-d8	98	86-114	08/06/04	Acceptable
4-Bromofluorobenzene	91	72-115	08/06/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	BX-072604-6 MW-7	**Units:**	ug/L
Lab Code:	K2405544-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Vinyl Chloride	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromomethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Trichlorofluoromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Acetone	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Carbon Disulfide	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Methylene Chloride	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
2-Butanone (MEK)	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
2,2-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloroform	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromochloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Carbon Tetrachloride	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Benzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Trichloroethene (TCE)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromodichloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Dibromomethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
2-Hexanone	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Toluene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,2-Trichloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/06/04	08/06/04	KWG0411589	

Comments:

00079

Confidential Business Information BRIX002477

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: 07/26/2004
Date Received: 07/28/2004

Volatile Organic Compounds

Sample Name: BX-072604-6 MW-7
Lab Code: K2405544-006

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Tetrachloroethene (PCE)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Dibromochloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Chlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Ethylbenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
m,p-Xylenes	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
o-Xylene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Styrene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromoform	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Isopropylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
n-Propylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
2-Chlorotoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
4-Chlorotoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,3,5-Trimethylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
tert-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,4-Trimethylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
sec-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,3-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
4-Isopropyltoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,4-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
n-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,4-Trichlorobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichlorobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Naphthalene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Hexachlorobutadiene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	

Comments:

00080

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	BX-072604-6	**Units:**	ug/L
Lab Code:	K2405544-006	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	85-115	08/06/04	Acceptable
Toluene-d8	98	86-114	08/06/04	Acceptable
4-Bromofluorobenzene	92	72-115	08/06/04	Acceptable

Comments:

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: 07/26/2004
Date Received: 07/28/2004

Volatile Organic Compounds

Sample Name: BX-072604-7 MW-6
Lab Code: K2405544-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Vinyl Chloride	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromomethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Trichlorofluoromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Acetone	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Carbon Disulfide	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Methylene Chloride	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
2-Butanone (MEK)	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
2,2-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Chloroform	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromochloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Carbon Tetrachloride	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Benzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Trichloroethene (TCE)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromodichloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Dibromomethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
2-Hexanone	ND	U	20	1	08/06/04	08/06/04	KWG0411589	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Toluene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,2-Trichloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/06/04	08/06/04	KWG0411589	

Comments:

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Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: 07/26/2004
Date Received: 07/28/2004

Volatile Organic Compounds

Sample Name: BX-072604-7 MW-6
Lab Code: K2405544-007

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Tetrachloroethene (PCE)	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Dibromochloromethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Chlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Ethylbenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
m,p-Xylenes	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
o-Xylene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Styrene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromoform	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Isopropylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichloropropane	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
Bromobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
n-Propylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
2-Chlorotoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
4-Chlorotoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,3,5-Trimethylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
tert-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,4-Trimethylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
sec-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,3-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
4-Isopropyltoluene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,4-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
n-Butylbenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2-Dichlorobenzene	ND	U	0.50	1	08/06/04	08/06/04	KWG0411589	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,4-Trichlorobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
1,2,3-Trichlorobenzene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Naphthalene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	
Hexachlorobutadiene	ND	U	2.0	1	08/06/04	08/06/04	KWG0411589	

Comments:

00083

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: 07/26/2004
Date Received: 07/28/2004

Volatile Organic Compounds

Sample Name: BX-072604-7
Lab Code: K2405544-007

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	85-115	08/06/04	Acceptable
Toluene-d8	97	86-114	08/06/04	Acceptable
4-Bromofluorobenzene	90	72-115	08/06/04	Acceptable

Comments:

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: 07/26/2004
Date Received: 07/28/2004

Volatile Organic Compounds

Sample Name: Trip Blanks
Lab Code: K2405544-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Chloromethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Vinyl Chloride	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Bromomethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Chloroethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Trichlorofluoromethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Acetone	ND	U	20	1	08/05/04	08/05/04	KWG0411589	
1,1-Dichloroethene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Carbon Disulfide	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Methylene Chloride	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,1-Dichloroethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
2-Butanone (MEK)	ND	U	20	1	08/05/04	08/05/04	KWG0411589	
2,2-Dichloropropane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Chloroform	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Bromochloromethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,1-Dichloropropene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Carbon Tetrachloride	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Benzene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Trichloroethene (TCE)	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,2-Dichloropropane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Bromodichloromethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Dibromomethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
2-Hexanone	ND	U	20	1	08/05/04	08/05/04	KWG0411589	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Toluene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,1,2-Trichloroethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/05/04	08/05/04	KWG0411589	

Comments:

00085

Confidential Business Information

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: 07/26/2004
Date Received: 07/28/2004

Volatile Organic Compounds

Sample Name: Trip Blanks
Lab Code: K2405544-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Tetrachloroethene (PCE)	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Dibromochloromethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
Chlorobenzene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Ethylbenzene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
m,p-Xylenes	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
o-Xylene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Styrene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Bromoform	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Isopropylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,2,3-Trichloropropane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Bromobenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
n-Propylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
2-Chlorotoluene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
4-Chlorotoluene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,3,5-Trimethylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
tert-Butylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,2,4-Trimethylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
sec-Butylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,3-Dichlorobenzene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
4-Isopropyltoluene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,4-Dichlorobenzene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
n-Butylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,2-Dichlorobenzene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,2,4-Trichlorobenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,2,3-Trichlorobenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
Naphthalene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
Hexachlorobutadiene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	

Comments:

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Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Volatile Organic Compounds

Sample Name:	Trip Blanks	**Units:**	ng/L
Lab Code:	K2405544-008	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	85-115	08/05/04	Acceptable
Toluene-d8	98	86-114	08/05/04	Acceptable
4-Bromofluorobenzene	93	72-115	08/05/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0411589-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Chloromethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Vinyl Chloride	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Bromomethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Chloroethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Trichlorofluoromethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Acetone	ND	U	20	1	08/05/04	08/05/04	KWG0411589	
1,1-Dichloroethene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Carbon Disulfide	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Methylene Chloride	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,1-Dichloroethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
2-Butanone (MEK)	ND	U	20	1	08/05/04	08/05/04	KWG0411589	
2,2-Dichloropropane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Chloroform	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Bromochloromethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,1-Dichloropropene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Carbon Tetrachloride	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Benzene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Trichloroethene (TCE)	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,2-Dichloropropane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Bromodichloromethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Dibromomethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
2-Hexanone	ND	U	20	1	08/05/04	08/05/04	KWG0411589	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Toluene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,1,2-Trichloroethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	08/05/04	08/05/04	KWG0411589	

Comments:

00088

Confidential Business Information

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0411589-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,3-Dichloropropane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Tetrachloroethene (PCE)	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Dibromochloromethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
Chlorobenzene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Ethylbenzene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
m,p-Xylenes	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
o-Xylene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Styrene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Bromoform	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Isopropylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,2,3-Trichloropropane	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
Bromobenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
n-Propylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
2-Chlorotoluene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
4-Chlorotoluene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,3,5-Trimethylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
tert-Butylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,2,4-Trimethylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
sec-Butylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,3-Dichlorobenzene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
4-Isopropyltoluene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,4-Dichlorobenzene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
n-Butylbenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,2-Dichlorobenzene	ND	U	0.50	1	08/05/04	08/05/04	KWG0411589	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,2,4-Trichlorobenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
1,2,3-Trichlorobenzene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
Naphthalene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	
Hexachlorobutadiene	ND	U	2.0	1	08/05/04	08/05/04	KWG0411589	

Comments:

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0411589-4	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	85-115	08/05/04	Acceptable
Toluene-d8	98	86-114	08/05/04	Acceptable
4-Bromofluorobenzene	93	72-115	08/05/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
BX-072604-1	K2405544-001	95	98	102
BX-072604-2	K2405544-002	93	99	101
BX-072604-3	K2405544-003	93	96	91
BX-072604-4	K2405544-004	92	97	96
BX-072604-5	K2405544-005	93	98	91
BX-072604-6	K2405544-006	96	98	92
BX-072604-7	K2405544-007	95	97	90
Trip Blanks	K2405544-008	92	98	93
Method Blank	KWG0411589-4	92	98	93
BX-072604-1MS	KWG0411589-1	96	104	101
BX-072604-1DMS	KWG0411589-2	95	103	99
Lab Control Sample	KWG0411589-3	96	103	104

Surrogate Recovery Control Limits (%)

Sur1 =	Dibromofluoromethane	85-115
Sur2 =	Toluene-d8	86-114
Sur3 =	4-Bromofluorobenzene	72-115

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Extracted:**	08/05/2004
Sample Matrix:	Water	**Date Analyzed:**	08/05/2004

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	BX-072604-1	**Units:**	ug/L
Lab Code:	K2405544-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	KWG0411589

Analyte Name	Sample Result	BX-072604-1MS KWG0411589-1 Matrix Spike			BX-072604-1DMS KWG0411589-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,1-Dichloroethene	ND	10.4	10.0	104	10.1	10.0	101	66-147	3	30
Benzene	4.0	14.5	10.0	105	13.9	10.0	100	81-130	4	30
Trichloroethene (TCE)	ND	9.85	10.0	99	9.38	10.0	94	63-138	5	30
Toluene	ND	11.2	10.0	112	10.8	10.0	108	76-130	4	30
Chlorobenzene	ND	8.93	10.0	89	8.67	10.0	87	77-123	3	30
1,2-Dichlorobenzene	ND	9.02	10.0	90	9.08	10.0	91	73-125	1	30
Naphthalene	270	321E	10.0	549 #	334E	10.0	673 #	54-160	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Extracted:**	08/05/2004
Sample Matrix:	Water	**Date Analyzed:**	08/05/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0411589

	Lab Control Sample KWG0411589-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	8.27	10.0	83	52-179
Chloromethane	8.43	10.0	84	58-129
Vinyl Chloride	7.86	10.0	79	74-138
Bromomethane	7.61	10.0	76	48-140
Chloroethane	7.35	10.0	74	66-126
Trichlorofluoromethane	8.28	10.0	83	69-129
Acetone	47.1	50.0	94	68-140
1,1-Dichloroethene	9.27	10.0	93	76-128
Methyl tert-Butyl Ether	10.0	10.0	100	67-117
Carbon Disulfide	18.4	20.0	92	69-147
Methylene Chloride	8.97	10.0	90	75-119
trans-1,2-Dichloroethene	9.57	10.0	96	79-118
1,1-Dichloroethane	9.28	10.0	93	76-120
2-Butanone (MEK)	53.6	50.0	107	75-129
2,2-Dichloropropane	9.55	10.0	96	60-142
cis-1,2-Dichloroethene	9.58	10.0	96	81-119
Chloroform	9.22	10.0	92	80-120
Bromochloromethane	9.76	10.0	98	79-125
1,1,1-Trichloroethane (TCA)	9.08	10.0	91	80-127
1,1-Dichloropropene	8.88	10.0	89	79-128
Carbon Tetrachloride	9.16	10.0	92	76-137
1,2-Dichloroethane (EDC)	9.14	10.0	91	76-125
Benzene	9.67	10.0	97	87-122
Trichloroethene (TCE)	9.24	10.0	92	82-124
1,2-Dichloropropane	9.63	10.0	96	80-117
Bromodichloromethane	9.11	10.0	91	81-120
Dibromomethane	9.81	10.0	98	81-121
2-Hexanone	51.2	50.0	102	65-135
cis-1,3-Dichloropropene	9.54	10.0	95	82-126
Toluene	9.82	10.0	98	84-120
trans-1,3-Dichloropropene	9.17	10.0	92	76-116
1,1,2-Trichloroethane	9.97	10.0	100	80-120
4-Methyl-2-pentanone (MIBK)	51.7	50.0	103	69-134
1,3-Dichloropropane	10.2	10.0	102	82-119
Tetrachloroethene (PCE)	8.91	10.0	89	79-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00093

Confidential Business Information

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544
Date Extracted: 08/05/2004
Date Analyzed: 08/05/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0411589

Analyte Name	Lab Control Sample KWG0411589-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Dibromochloromethane	9.20	10.0	92	78-121
1,2-Dibromoethane (EDB)	9.62	10.0	96	78-121
Chlorobenzene	9.19	10.0	92	85-114
1,1,1,2-Tetrachloroethane	9.47	10.0	95	85-122
Ethylbenzene	9.90	10.0	99	89-124
m,p-Xylenes	19.7	20.0	99	89-126
o-Xylene	9.65	10.0	97	86-129
Styrene	10.3	10.0	103	90-130
Bromoform	8.93	10.0	89	80-126
Isopropylbenzene	8.65	10.0	87	76-127
1,1,2,2-Tetrachloroethane	10.1	10.0	101	66-127
1,2,3-Trichloropropane	9.91	10.0	99	76-125
Bromobenzene	9.68	10.0	97	84-121
n-Propylbenzene	10.0	10.0	100	83-134
2-Chlorotoluene	10.6	10.0	106	81-131
4-Chlorotoluene	10.1	10.0	101	80-129
1,3,5-Trimethylbenzene	10.3	10.0	103	85-131
tert-Butylbenzene	9.72	10.0	97	81-132
1,2,4-Trimethylbenzene	10.4	10.0	104	86-138
sec-Butylbenzene	10.2	10.0	102	82-137
1,3-Dichlorobenzene	9.23	10.0	92	85-119
4-Isopropyltoluene	9.24	10.0	92	78-131
1,4-Dichlorobenzene	9.09	10.0	91	83-116
n-Butylbenzene	8.56	10.0	86	73-138
1,2-Dichlorobenzene	9.15	10.0	92	82-117
1,2-Dibromo-3-chloropropane	8.45	10.0	85	66-123
1,2,4-Trichlorobenzene	8.70	10.0	87	74-136
1,2,3-Trichlorobenzene	8.65	10.0	87	72-137
Naphthalene	10.2	10.0	102	64-145
Hexachlorobutadiene	9.06	10.0	91	75-130

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00094

Polynuclear Aromatic Hydrocarbons
EPA Method 8270C

00095

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-072604-1 MW-1	**Units:**	ug/L
Lab Code:	K2405544-001	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**170**	D	0.95	50	08/02/04	08/05/04	KWG0411263	
2-Methylnaphthalene	**51**	D	0.95	50	08/02/04	08/05/04	KWG0411263	
Acenaphthylene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Acenaphthene	**0.34**		0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenzofuran	**0.073**		0.019	1	08/02/04	08/05/04	KWG0411263	
Fluorene	**0.23**		0.019	1	08/02/04	08/05/04	KWG0411263	
Phenanthrene	**0.36**		0.019	1	08/02/04	08/05/04	KWG0411263	
Anthracene	**0.068**		0.019	1	08/02/04	08/05/04	KWG0411263	
Fluoranthene	**0.31**		0.019	1	08/02/04	08/05/04	KWG0411263	
Pyrene	**0.80**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benz(a)anthracene	**0.13**		0.019	1	08/02/04	08/05/04	KWG0411263	
Chrysene	**0.15**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(b)fluoranthene	**0.044**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(k)fluoranthene	**0.047**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(a)pyrene	**0.056**		0.019	1	08/02/04	08/05/04	KWG0411263	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenz(a,h)anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(g,h,i)perylene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	64	37-107	08/05/04	Acceptable
Fluoranthene-d10	73	18-137	08/05/04	Acceptable
Terphenyl-d14	70	18-153	08/05/04	Acceptable

Comments:

00096

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-072604-2 MW-1 Dup	**Units:**	ug/L
Lab Code:	K2405544-002	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**170**	D	0.95	50	08/02/04	08/05/04	KWG0411263	
2-Methylnaphthalene	**49**	D	0.95	50	08/02/04	08/05/04	KWG0411263	
Acenaphthylene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Acenaphthene	**0.33**		0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenzofuran	**0.074**		0.019	1	08/02/04	08/05/04	KWG0411263	
Fluorene	**0.24**		0.019	1	08/02/04	08/05/04	KWG0411263	
Phenanthrene	**0.36**		0.019	1	08/02/04	08/05/04	KWG0411263	
Anthracene	**0.067**		0.019	1	08/02/04	08/05/04	KWG0411263	
Fluoranthene	**0.33**		0.019	1	08/02/04	08/05/04	KWG0411263	
Pyrene	**0.85**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benz(a)anthracene	**0.13**		0.019	1	08/02/04	08/05/04	KWG0411263	
Chrysene	**0.15**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(b)fluoranthene	**0.041**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(k)fluoranthene	**0.043**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(a)pyrene	**0.052**		0.019	1	08/02/04	08/05/04	KWG0411263	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenz(a,h)anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(g,h,i)perylene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	62	37-107	08/05/04	Acceptable
Fluoranthene-d10	77	18-137	08/05/04	Acceptable
Terphenyl-d14	73	18-153	08/05/04	Acceptable

Comments:

00097

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-072604-3 MW-2	**Units:**	ug/L
Lab Code:	K2405544-003	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.18**		0.019	1	08/02/04	08/05/04	KWG0411263	
2-Methylnaphthalene	**0.033**		0.019	1	08/02/04	08/05/04	KWG0411263	
Acenaphthylene	**0.13**		0.019	1	08/02/04	08/05/04	KWG0411263	
Acenaphthene	**0.024**		0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenzofuran	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Fluorene	**0.023**		0.019	1	08/02/04	08/05/04	KWG0411263	
Phenanthrene	**0.31**		0.019	1	08/02/04	08/05/04	KWG0411263	
Anthracene	**0.11**		0.019	1	08/02/04	08/05/04	KWG0411263	
Fluoranthene	**0.62**		0.019	1	08/02/04	08/05/04	KWG0411263	
Pyrene	**0.87**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benz(a)anthracene	**0.31**		0.019	1	08/02/04	08/05/04	KWG0411263	
Chrysene	**0.48**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(b)fluoranthene	**0.48**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(k)fluoranthene	**0.42**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(a)pyrene	**0.73**		0.019	1	08/02/04	08/05/04	KWG0411263	
Indeno(1,2,3-cd)pyrene	**0.88**		0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenz(a,h)anthracene	**0.099**		0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(g,h,i)perylene	**1.1**		0.019	1	08/02/04	08/05/04	KWG0411263	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	59	37-107	08/05/04	Acceptable
Fluoranthene-d10	64	18-137	08/05/04	Acceptable
Terphenyl-d14	60	18-153	08/05/04	Acceptable

Comments:

00098

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-072604-4 MW-3	**Units:**	ug/L
Lab Code:	K2405544-004	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.28**	D	0.19	10	08/02/04	08/05/04	KWG0411263	
2-Methylnaphthalene	**1.2**	D	0.19	10	08/02/04	08/05/04	KWG0411263	
Acenaphthylene	**0.38**	D	0.19	10	08/02/04	08/05/04	KWG0411263	
Acenaphthene	**0.89**	D	0.19	10	08/02/04	08/05/04	KWG0411263	
Dibenzofuran	ND	U	0.19	10	08/02/04	08/05/04	KWG0411263	
Fluorene	**0.84**	D	0.19	10	08/02/04	08/05/04	KWG0411263	
Phenanthrene	**2.3**	D	0.19	10	08/02/04	08/05/04	KWG0411263	
Anthracene	**0.96**	D	0.19	10	08/02/04	08/05/04	KWG0411263	
Fluoranthene	**5.8**	D	0.19	10	08/02/04	08/05/04	KWG0411263	
Pyrene	**7.2**	D	0.19	10	08/02/04	08/05/04	KWG0411263	
Benz(a)anthracene	**2.3**	D	1.9	100	08/02/04	08/05/04	KWG0411263	
Chrysene	**2.6**	D	1.9	100	08/02/04	08/05/04	KWG0411263	
Benzo(b)fluoranthene	ND	U	1.9	100	08/02/04	08/05/04	KWG0411263	
Benzo(k)fluoranthene	ND	U	1.9	100	08/02/04	08/05/04	KWG0411263	
Benzo(a)pyrene	**3.0**	D	1.9	100	08/02/04	08/05/04	KWG0411263	
Indeno(1,2,3-cd)pyrene	ND	U	1.9	100	08/02/04	08/05/04	KWG0411263	
Dibenz(a,h)anthracene	ND	U	1.9	100	08/02/04	08/05/04	KWG0411263	
Benzo(g,h,i)perylene	**1.9**	D	1.9	100	08/02/04	08/05/04	KWG0411263	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	57	37-107	08/05/04	Acceptable
Fluoranthene-d10	64	18-137	08/05/04	Acceptable
Terphenyl-d14	55	18-153	08/05/04	Acceptable

Comments:

00099

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-072604-5 MW-4	**Units:**	ug/L
Lab Code:	K2405544-005	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.024**		0.019	1	08/02/04	08/05/04	KWG0411263	
2-Methylnaphthalene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Acenaphthylene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Acenaphthene	**0.096**		0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenzofuran	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Fluorene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Phenanthrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Fluoranthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benz(a)anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Chrysene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(b)fluoranthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(k)fluoranthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(a)pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenz(a,h)anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(g,h,i)perylene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	60	37-107	08/05/04	Acceptable
Fluoranthene-d10	77	18-137	08/05/04	Acceptable
Terphenyl-d14	76	18-153	08/05/04	Acceptable

Comments:

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-072604-6 MW-7	**Units:**	ug/L
Lab Code:	K2405544-006	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
2-Methylnaphthalene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Acenaphthylene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Acenaphthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenzofuran	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Fluorene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Phenanthrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Fluoranthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benz(a)anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Chrysene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(b)fluoranthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(k)fluoranthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(a)pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenz(a,h)anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(g,h,i)perylene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	61	37-107	08/05/04	Acceptable
Fluoranthene-d10	72	18-137	08/05/04	Acceptable
Terphenyl-d14	74	18-153	08/05/04	Acceptable

Comments:

00101

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	07/26/2004
Sample Matrix:	Water	**Date Received:**	07/28/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BX-072604-7 MW-6	**Units:**	ug/L
Lab Code:	K2405544-007	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
2-Methylnaphthalene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Acenaphthylene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Acenaphthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenzofuran	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Fluorene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Phenanthrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Fluoranthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benz(a)anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Chrysene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(b)fluoranthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(k)fluoranthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(a)pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenz(a,h)anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(g,h,i)perylene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	65	37-107	08/05/04	Acceptable
Fluoranthene-d10	76	18-137	08/05/04	Acceptable
Terphenyl-d14	79	18-153	08/05/04	Acceptable

Comments:

00102

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0411263-3	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
2-Methylnaphthalene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Acenaphthylene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Acenaphthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenzofuran	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Fluorene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Phenanthrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Fluoranthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benz(a)anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Chrysene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(b)fluoranthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(k)fluoranthene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(a)pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Dibenz(a,h)anthracene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	
Benzo(g,h,i)perylene	ND	U	0.019	1	08/02/04	08/05/04	KWG0411263	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	60	37-107	08/05/04	Acceptable
Fluoranthene-d10	72	18-137	08/05/04	Acceptable
Terphenyl-d14	73	18-153	08/05/04	Acceptable

Comments:

Confidential Business Information

Client: Anchor Environmental
Project: BRIX Maritime/990056-01
Sample Matrix: Water

Service Request: K2405544

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3520C
Analysis Method: 8270C SIM

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
BX-072604-1	K2405544-001	64	73	70
BX-072604-2	K2405544-002	62	77	73
BX-072604-3	K2405544-003	59	64	60
BX-072604-4	K2405544-004	57 D	64 D	55 D
BX-072604-5	K2405544-005	60	77	76
BX-072604-6	K2405544-006	61	72	74
BX-072604-7	K2405544-007	65	76	79
Method Blank	KWG0411263-3	60	72	73
Lab Control Sample	KWG0411263-1	66	72	73
Duplicate Lab Control Sample	KWG0411263-2	61	70	72

Surrogate Recovery Control Limits (%)

Sur1 =	Fluorene-d10	37-107
Sur2 =	Fluoranthene-d10	18-137
Sur3 =	Terphenyl-d14	18-153

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

00104

Client:	Anchor Environmental	**Service Request:**	K2405544
Project:	BRIX Maritime/990056-01	**Date Extracted:**	08/02/2004
Sample Matrix:	Water	**Date Analyzed:**	08/05/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method:	EPA 3520C	**Units:**	ug/L
Analysis Method:	8270C SIM	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0411263

	Lab Control Sample KWG0411263-1 Lab Control Spike			Duplicate Lab Control Sample KWG0411263-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Naphthalene	1.64	2.36	70	1.65	2.36	70	44-101	1	30
2-Methylnaphthalene	1.59	2.36	68	1.61	2.36	68	36-106	1	30
Acenaphthylene	1.91	2.36	81	1.84	2.36	78	49-114	4	30
Acenaphthene	1.88	2.36	80	1.85	2.36	78	48-107	2	30
Dibenzofuran	1.93	2.36	82	1.92	2.36	81	40-115	1	30
Fluorene	2.04	2.36	86	1.96	2.36	83	55-111	4	30
Phenanthrene	2.05	2.36	87	2.08	2.36	88	56-108	1	30
Anthracene	1.89	2.36	80	1.80	2.36	76	42-117	5	30
Fluoranthene	2.13	2.36	91	2.14	2.36	91	61-123	0	30
Pyrene	2.16	2.36	92	2.21	2.36	94	53-123	2	30
Benz(a)anthracene	2.07	2.36	88	2.08	2.36	88	53-123	0	30
Chrysene	2.16	2.36	92	2.18	2.36	92	57-118	1	30
Benzo(b)fluoranthene	2.14	2.36	91	2.20	2.36	93	57-132	3	30
Benzo(k)fluoranthene	2.14	2.36	91	2.29	2.36	97	54-126	7	30
Benzo(a)pyrene	2.00	2.36	85	1.90	2.36	81	38-142	5	30
Indeno(1,2,3-cd)pyrene	2.21	2.36	94	2.22	2.36	94	49-139	1	30
Dibenz(a,h)anthracene	2.24	2.36	95	2.24	2.36	95	47-138	0	30
Benzo(g,h,i)perylene	2.06	2.36	87	2.11	2.36	90	50-125	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00105

Appendix C
Data Validation Review

DATA REVIEW REPORT

BRIX MARITIME

July 2004

This report summarizes the review of analytical results for groundwater samples collected on July 26, 2004, at the BRIX Maritime site in Portland, Oregon. Samples were collected by Anchor Environmental and submitted to Columbia Analytical Services, Inc. (CAS) in Kelso, Washington. Samples were analyzed for one or more of the following: volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (USEPA) method 8260B; Polynuclear Aromatic Hydrocarbons (PAHs) by GC/MS-SIM via USEPA method 8270C-SIM, total and dissolved lead by USEPA method 200.8, gasoline hydrocarbons and diesel hydrocarbons by NWTPH-Gx and NWTPH-Dx. CAS sample data group number K2405544 was reviewed. A USEPA level II data review was performed.

Sample ID	Location	Lab ID	Matrix	Analysis Requested
BX-072604-1	MW-1	K2405544-1	water	VOCs, PAHs, NWTPH-Dx, NWTPH-Gx and Lead
BX-072604-2	MW-1	K2405544-2	water	VOCs, PAHs, NWTPH-Dx, NWTPH-Gx and Lead
BX-072604-3	MW-2	K2405544-3	water	VOCs, PAHs, NWTPH-Dx, NWTPH-Gx and Lead
BX-072604-4	MW-3	K2405544-4	water	VOCs, PAHs, NWTPH-Dx, NWTPH-Gx and Lead
BX-072604-5	MW-4	K2405544-5	water	VOCs, PAHs NWTPH-Dx, NWTPH-Gx and Lead
BX-072604-6	MW-7	K2405544-6	water	VOCs, PAHs, NWTPH-Dx, NWTPH-Gx and Lead
BX-072604-7	MW-6	K2405544-7	water	VOCs, PAHs, NWTPH-Dx, NWTPH-Gx and Lead
Trip Blank (VOC)		K2405544-8	water	VOCs
Trip Blank (Gas)		K2405544-9	water	NWTPH-Gx

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the data quality objective section of the Quality Assurance Project Plan (QAPP). Laboratory results were reviewed following USEPA guidelines (USEPA, 1994, 1999). Unless noted in this report, laboratory results for the samples listed above were within QC criteria.

Laboratory Data Package and Field Documentation

Field documentation was checked for completeness and accuracy. The chain-of-custody was signed by CAS at the time of sample receipt; the samples were received in good condition and within temperature requirements (4±2 °C). No discrepancies were noted.

Holding Times and Sample Preservation

Samples were appropriately preserved and analyses were conducted within holding times. No data were qualified due to these results.

Initial Calibration

Evaluation of the initial calibration was checked by the laboratory to see that the percent relative standard deviations (%RSD) were less than or equal to the method criteria of 15% for each analyte and less than or equal to 30% for calibration check compounds.

The initial calibrations were also evaluated by laboratory for technical criteria based on EPA Functional Guidelines. All analytes were evaluated for less than or equal to 30%RSD criteria. The following deviations were noted:

The initial calibration for the volatile organic compounds was noted by the laboratory to exceed the 15% method criterion but was within the technical criterion for the following analytes: bromomethane, trans-1,3-dichloropropene, 2-hexanone, styrene and naphthalene. Naphthalene was the only detectable analyte associated with these samples. Naphthalene was detected in samples BX-072604-1 (MW-1) and BX-072604-2 (MW-1) duplicate. These two samples should have the detectable amounts of naphthalene qualified with the "J" flag to indicate the values are estimated.

The initial calibration for PAHs was noted by the laboratory to exceed the 15% method criterion but was within the technical criterion for dibenz(a,h)anthracene The analyte was detected in sample BX-072604-3 (MW-2). The sample should have the detectable amount of dibenz(a,h)anthracene qualified with the "J" flag to indicate the value is estimated.

No other deviations were noted.

Laboratory Method Blanks

Laboratory method blanks were analyzed at the required frequencies. No analytes were detected in the laboratory method blanks.

Field Quality Control

Trip Blanks

Trip blanks are recommended for VOC samples. One trip blank was analyzed and was free of contamination.

Field Duplicates

One field duplicate pairs were collected. The field duplicates results were comparable; no data were qualified due to these results.

Surrogate Recoveries

Surrogate recoveries for organic analyses were performed at the required frequencies. Surrogate recoveries were within the laboratory control limits; no data were qualified due to these results.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

A MS for lead was analyzed. The percent recovery was within laboratory control limits. A MS and MSD were also analyzed for the volatile organic analyses. The recovery for naphthalene was outside the control limits high due to the level of native target analyte. As the native sample contained greater than four times the spike amount, the spike was not detected by the laboratory. No data were qualified due to these results.

Laboratory Control Sample (LCS) and LCS Duplicate (LCSD)

Laboratory control samples were analyzed at the required frequencies. The diesel LCS recovery was outside control limits indicating the associated data may be biased high. Since the laboratory indicated in the case narrative that the standard had concentrated to approximately 130%, no data qualifiers were applied.

All other LCS and LCSD percent recoveries were within laboratory control limits.

No other data were qualified due to these results.

Method Reporting Limits

The VOC samples BX-072604-1 (MW-1) and BX-072604-2 (MW-1 duplicate) required dilution due to high analyte concentration, which resulted in a raised reporting limit. Overall, the reporting limits are acceptable.

The PAH samples BX-072604-1 (MW-1) and BX-072604-2 (MW-1 duplicate) and BX-0702604-4 (MW-3) required dilution due to high analyte concentration, which resulted in a raised reporting limit. Overall, the reporting limits are acceptable.

Lead analysis for sample MW-3 (BX-072604-4) in the total fraction contains less lead than the dissolved fraction. The laboratory re-analyzed both samples excluding the sample preparation (digestion) step to rule out contamination from that process. Results from the re-analysis confirm the original analysis. No data were qualified due to these results.

Overall Assessment

No data were rejected during this review. The data are judged to be acceptable for their intended use as qualified.

Precision, Accuracy, and Completeness

Precision: All precision goals were met, except where noted.

Accuracy: All accuracy goals were met, except where noted.

Completeness: Completeness was 100 percent; all data are useable as qualified.

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USEPA. 1983. Methods for Chemical Analysis of Water and Wastes. U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio. EPA-600/4-79-020.

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USEPA. 1994. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 540/R-94/013. February.

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PROGRESS REPORT – FOURTH QUARTER 2004

BRIX MARITIME COMPANY
PORTLAND, OREGON

Prepared for
Brix Maritime Company

Prepared by
Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224

January 14, 2004

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Portland, OR 97224

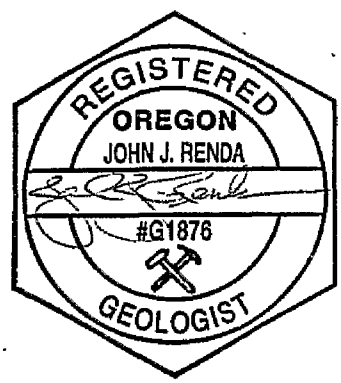
January 14, 2004

Progress Report – Fourth Quarter 2004

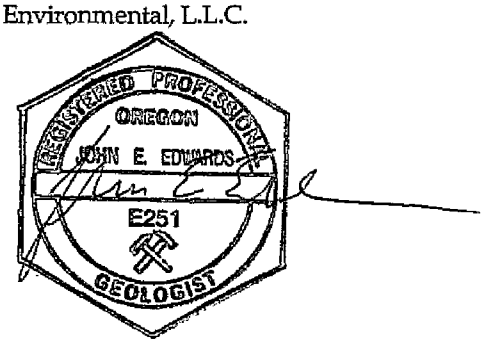
Brix Maritime Company

Portland, Oregon

The material and data in this report were prepared under the supervision and direction of the undersigned.



John J. Renda, R.G.
Anchor Environmental, L.L.C.



John Edwards, R.G. C.E.G.
Anchor Environmental, L.L.C.

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1 INTRODUCTION

This Progress Report was prepared in accordance with Section II(H) of the Oregon Department of Environmental Quality (DEQ) Voluntary Agreement for Remedial Investigation and Source Control Measures (ECSI 2464 No. LQDVC-NWR-02-03). This report covers the work completed during the quarter ending December 31, 2004 for the Brix Maritime site in Portland, Oregon (Figure 1) and is divided into the following subject areas:

- Actions Taken During the Fourth Quarter
- Actions Scheduled for the First Quarter
- Data Generated in the Fourth Quarter
- Summaries of Problems and Actions Taken To Resolve Problems

2 ACTIONS TAKEN DURING THE FOURTH QUARTER

- Anchor submitted the Third Quarter 2004 progress report to DEQ on October 15, 2004.
- Water levels were measured in monitoring wells MW-1 through MW-7 and at the river staff gauge on October 29, 2004.
- Monitoring wells MW-1, -2, -3, -4, -6, and -7 were sampled on October 29, 2004; MW-5 had insufficient water for sample collection.

3 ACTIONS SCHEDULED FOR THE FIRST QUARTER

- Monitoring wells MW-1, MW-3, MW-4, and MW-5 (if sufficient water is present) will be sampled in January 2005.
- Anchor will prepare and submit the Fourth Quarter Progress Report (this report) to DEQ.
- Anchor will continue to work with DEQ to finalize the RI Work Plan

4 DATA GENERATED IN THE FOURTH QUARTER

4.1 Hydrology Data and Potentiometric Surface Map

Water levels were measured in all onsite monitoring wells and at the river staff gauge on October 29, 2004. Water levels and groundwater elevations based on the 1988 North American Vertical Datum (NAVD 88) are presented in Table 1.

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A groundwater potentiometric surface map, using the October 29, 2004 measurements, is shown on Figure 2. Consistent with all past monitoring events, the contour pattern indicates that shallow groundwater flows west to east from the upland portion of the site to the river.

During the monthly water level measurements, the river bank was examined for petroleum hydrocarbon seeps or sheens. No petroleum hydrocarbon seeps or sheens were observed.

4.2 Groundwater Sampling

Monitoring wells MW-1, -2, -3, -4, -6, and -7 were sampled on October 29, 2004. Monitoring well MW-5 had insufficient water for sample collection. Field sampling procedures, field parameters, field sampling data sheets, and chain of custody documentation are in Appendix A.

4.3 Groundwater Analytical Testing

The groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by NWTPH-Gx; TPH as diesel and heavy oils by NWTPH-Dx; Polycyclic Aromatic Hydrocarbons (PAHs) by U.S. Environmental Protection Agency (USEPA) Method 8270-SIM; Volatile Organic Compounds (VOCs) by USEPA Method 8260+MTBE; and both total and dissolved lead by USEPA method 200.8. The analytical results are presented in Tables 2 through 5. A copy of the laboratory report is in Appendix B.

4.4 Data Validation

Review of the sampling and laboratory records showed no apparent discrepancies between samples collected in the field and those analyzed in the laboratory. The data are judged to be acceptable for their intended use. The data validation review of the laboratory records is summarized in Appendix C.

5 RI WORKPLAN STATUS

In DEQ's February 25, 2004 letter and July 26, 2004 e-mail comments, DEQ states that additional soil quality data may be needed to complete the RI and support the source control assessment.

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In subsequent communications Anchor and DEQ have discussed the need for two additional borings for the purpose of obtaining soil samples. The purpose of these borings would be to obtain soil samples that represent the highest likely concentrations of petroleum constituents as input for calculating site specific Risk Based Concentrations and to support risk screening for source control assessment. In the February 2004 letter, DEQ noted two locations where additional soil sampling may be required to more adequately evaluate the site soils according to DEQ's 2003 guidance, Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites. The two areas included the following.

1. The area of the January 1993 excavation of soil impacted by lube oil (near the location of boring B-28).
2. The area near the former fuel dispenser (near the location of borings B-7 and B-22).

In an email dated October 25, 2004, Anchor proposed a soil boring in both of these locations using a direct push (Geoprobe) sampler with soil sampling and analysis.

In a November 2, 2004 telephone discussion, DEQ approved the reduction of monitoring wells to be sampled during the winter and summer monitoring events to monitoring wells MW-1, MW-3, MW4, and MW-5 (if sufficient water is present). The fall and spring monitoring events would include all monitoring wells (MW-1 through MW-7).

In an email dated November 4, 2004, DEQ approved the two soil borings, and asked for additional soil borings to search for free product in the original lube oil pipeline leak area. To determine if lube oil free product is present in the former pipeline area between well MW-1 and well MW-3, DEQ proposed that we collect soil and groundwater grab samples from additional borings to delineate free product in the former release area. DEQ also requested the addition of 7 metals (As, Ba, Cd, Cr, Cu, Mn, and Zn) to the list of analytes for all future groundwater monitoring.

In an email dated December 16, 2004, Anchor proposed an additional monitoring well (MW-8) to be located between wells MW-1 and MW-3 as a more reliable method of evaluating the presence of free product than the grab sample investigation proposed by DEQ in the November 4, 2004 e-mail. The new well would be sampled during the next round of groundwater

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monitoring following installation and used to monitor for free product during future monitoring events. Anchor also proposed that the additional metals analyses requested by DEQ be added to the next monitoring event only and future metals monitoring will be based on the results of that testing.

The locations of the two proposed Geoprobe soil borings and the proposed monitoring well MW-8 are shown on Figure 3.

The current plan for the January 2005 monitoring event is to sample monitoring wells MW-1, MW-3, MW-4, and MW-5 (if sufficient water is present) for

- TPH -Gx and TPH-Dx
- PAHs
- VOCs
- Total and Dissolved Metals (Arsenic, Barium, Cadmium, Chromium, Copper, Manganese, Lead, and Zinc)

In a January 11, 2005 telephone conversation, DEQ approved the installation of monitoring well MW-8. Anchor will install the well and complete the two soil borings as soon as possible. DEQ will be notified at least 1 week prior to soil boring and well installation. The groundwater sampling round currently scheduled for January 2005 would be completed after MW-8 is installed, so that the new well can be sampled with the first quarter sampling round.

Anchor plans to finalize the RI Workplan and submit to DEQ during the first quarter 2005.

6 SUMMARIES OF PROBLEMS AND ACTIONS TAKEN TO RESOLVE PROBLEMS

No problems were encountered.

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TABLES

Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.						Site: Brix Maritime
						Project No. : 990056-01
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
Monitoring Wells						
MW-1	41.81	34.7-19.7	02/28/03	18.89	22.92	
MW-1	41.81	34.7-19.7	03/31/03	19.43	22.38	
MW-1	41.81	34.7-19.7	04/29/03	19.69	22.12	
MW-1	41.81	34.7-19.7	05/22/03	20.22	21.59	
MW-1	41.81	34.7-19.7	07/07/03	21.08	20.73	
MW-1	41.81	34.7-19.7	07/30/03	21.13	20.68	
MW-1	41.81	34.7-19.7	08/28/03	21.24	20.57	
MW-1	41.81	34.7-19.7	09/30/03	21.15	20.66	
MW-1	41.81	34.7-19.7	10/16/03	21.10	20.71	
MW-1	41.81	34.7-19.7	12/03/03	21.06	20.75	
MW-1	41.81	34.7-19.7	12/26/03	20.46	21.35	
MW-1	41.81	34.7-19.7	01/30/04	19.01	22.80	
MW-1	41.81	34.7-19.7	03/04/04	19.60	22.21	
MW-1	41.81	34.7-19.7	04/29/04	20.91	20.90	
MW-1	41.81	34.7-19.7	05/27/04	21.13	20.68	
MW-1	41.81	34.7-19.7	07/06/04	21.22	20.59	
MW-1	41.81	34.7-19.7	07/26/04	*21.28	20.53	
MW-1	41.81	34.7-19.7	10/29/04	21.25	20.56	
MW-2	42.13	32.5-17.5	02/28/03	19.88	22.25	
MW-2	42.13	32.5-17.5	03/31/03	20.36	21.77	
MW-2	42.13	32.5-17.5	04/29/03	20.64	21.49	
MW-2	42.13	32.5-17.5	05/22/03	21.06	21.07	
MW-2	42.13	32.5-17.5	07/07/03	22.17	19.96	
MW-2	42.13	32.5-17.5	07/30/03	22.50	19.63	
MW-2	42.13	32.5-17.5	08/28/03	22.84	19.29	
MW-2	42.13	32.5-17.5	09/30/03	23.07	19.06	
MW-2	42.13	32.5-17.5	10/16/03	23.06	19.07	
MW-2	42.13	32.5-17.5	12/03/03	22.54	19.59	
MW-2	42.13	32.5-17.5	12/26/03	21.58	20.55	
MW-2	42.13	32.5-17.5	01/30/04	20.05	22.08	
MW-2	42.13	32.5-17.5	03/04/04	20.57	21.56	
MW-2	42.13	32.5-17.5	04/29/04	21.89	20.24	
MW-2	42.13	32.5-17.5	05/27/04	22.29	19.84	
MW-2	42.13	32.5-17.5	07/06/04	22.70	19.43	
MW-2	42.13	32.5-17.5	07/26/04	22.85	19.28	
MW-2	42.13	32.5-17.5	10/29/04	22.90	19.23	
MW-3	41.93	32.6-17.6	07/29/02	22.91	19.02	
MW-3	41.93	32.6-17.6	08/22/02	23.50	18.43	Oil detected in well, thickness estimated at 0.02 foot
MW-3	41.93	32.6-17.6	09/30/02	23.37	18.56	Oil detected in well, thickness estimated at 0.02 foot
MW-3	41.93	32.6-17.6	10/30/02	23.68	18.25	DTP = 23.49 (0.19 foot thick)
MW-3	41.93	32.6-17.6	11/27/02	23.30	18.63	DTP = 23.16 (0.14 foot thick)
MW-3	41.93	32.6-17.6	12/30/02	21.99	19.94	Oil noted on probe, product too thin to measure with interface probe
MW-3	41.93	32.6-17.6	02/28/03	19.75	22.18	Oil noted on probe, product too thin to measure with interface probe
MW-3	41.93	32.6-17.6	03/31/03	20.24	21.69	No oil noted on probe
MW-3	41.93	32.6-17.6	04/29/03	20.50	21.43	No oil noted on probe
MW-3	41.93	32.6-17.6	05/22/03	20.94	20.99	No oil noted on probe
MW-3	41.93	32.6-17.6	07/07/03	22.21	19.72	No oil noted on probe
MW-3	41.93	32.6-17.6	07/30/03	22.62	19.31	No oil noted on probe
MW-3	41.93	32.6-17.6	08/28/03	22.95	18.98	Oil noted on probe, product too thin to measure with interface probe
MW-3	41.93	32.6-17.6	09/30/03	23.15	18.78	DTP = 23.04 (0.11 foot thick)
MW-3	41.93	32.6-17.6	10/16/03	22.40	19.53	No oil noted on probe
MW-3	41.93	32.6-17.6	12/03/03	22.21	19.72	Sheen, product too thin to measure
MW-3	41.93	32.6-17.6	12/26/03	21.44	20.49	No oil noted on probe
MW-3	41.93	32.6-17.6	01/30/04	19.80	22.13	No oil noted on probe
MW-3	41.93	32.6-17.6	03/04/04	20.41	21.52	No oil noted on probe
MW-3	41.93	32.6-17.6	04/29/04	21.82	20.11	No oil noted on probe
MW-3	41.93	32.6-17.6	05/27/04	22.25	19.68	No oil noted on probe
MW-3	41.93	32.6-17.6	07/06/04	22.66	19.27	No oil noted on probe
MW-3	41.93	32.6-17.6	07/26/04	22.91	19.02	DTP = 22.89 (0.02 foot thick)
MW-3	41.93	32.6-17.6	10/29/04	22.29	19.64	Oil noted on probe, product too thin to measure with interface probe

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BRIX002519

Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.						Site: Brix Maritime
						Project No.: 990056-01
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
MW-4	23.55	19.1-9.1	07/29/02	11.62	11.93	
MW-4	23.55	19.1-9.1	08/22/02	11.77	11.78	
MW-4	23.55	19.1-9.1	09/30/02	11.94	11.61	
MW-4	23.55	19.1-9.1	10/30/02	12.06	11.49	
MW-4	23.55	19.1-9.1	11/27/02	11.85	11.70	
MW-4	23.55	19.1-9.1	12/30/02	10.24	13.31	
MW-4	23.55	19.1-9.1	02/28/03	4.34	19.21	
MW-4	23.55	19.1-9.1	03/31/03	4.59	18.96	
MW-4	23.55	19.1-9.1	04/29/03	5.46	18.09	
MW-4	23.55	19.1-9.1	05/22/03	8.59	14.96	
MW-4	23.55	19.1-9.1	07/07/03	10.69	12.86	
MW-4	23.55	19.1-9.1	07/30/03	11.03	12.52	
MW-4	23.55	19.1-9.1	08/28/03	11.40	12.15	
MW-4	23.55	19.1-9.1	09/30/03	11.74	11.81	
MW-4	23.55	19.1-9.1	10/16/03	11.40	12.15	
MW-4	23.55	19.1-9.1	12/03/03	10.59	12.96	
MW-4	23.55	19.1-9.1	12/26/03	9.50	14.05	
MW-4	23.55	19.1-9.1	01/30/04	5.41	18.14	
MW-4	23.55	19.1-9.1	03/04/04	9.05	14.50	
MW-4	23.55	19.1-9.1	04/29/04	11.00	12.55	
MW-4	23.55	19.1-9.1	05/27/04	10.89	12.66	
MW-4	23.55	19.1-9.1	07/06/04	11.26	12.29	
MW-4	23.55	19.1-9.1	07/26/04	11.56	11.99	
MW-4	23.55	19.1-9.1	10/29/04	11.06	12.49	
MW-5	41.66	34.6-19.6	02/28/03	19.45	22.21	
MW-5	41.66	34.6-19.6	03/31/03	19.99	21.67	
MW-5	41.66	34.6-19.6	04/29/03	20.25	21.41	
MW-5	41.66	34.6-19.6	05/22/03	20.75	20.91	
MW-5	41.66	34.6-19.6	07/07/03	21.93	19.73	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	07/30/03	22.08	19.58	dry
MW-5	41.66	34.6-19.6	08/28/03	22.08	19.58	dry
MW-5	41.66	34.6-19.6	09/30/03	22.13	19.53	dry
MW-5	41.66	34.6-19.6	10/16/03	22.10	19.56	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	12/03/03	22.13	19.53	dry
MW-5	41.66	34.6-19.6	12/26/03	21.35	20.31	
MW-5	41.66	34.6-19.6	01/30/04	19.59	22.07	
MW-5	41.66	34.6-19.6	03/04/04	20.16	21.50	
MW-5	41.66	34.6-19.6	04/29/04	21.67	19.99	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	05/27/04	21.99	19.67	
MW-5	41.66	34.6-19.6	07/06/04	21.98	19.68	Insufficient water to collect sample
MW-5	41.66	34.6-19.6	07/26/04	dry	< 19.60	dry
MW-5	41.66	34.6-19.6	10/29/04	22.00	19.66	Insufficient water to collect sample
MW-6	41.21	31.1-16.1	07/07/03	20.26	20.95	
MW-6	41.21	31.1-16.1	07/30/03	20.57	20.64	
MW-6	41.21	31.1-16.1	08/28/03	21.02	20.19	
MW-6	41.21	31.1-16.1	09/30/03	21.02	20.19	
MW-6	41.21	31.1-16.1	10/16/03	20.93	20.28	
MW-6	41.21	31.1-16.1	12/03/03	21.53	19.68	
MW-6	41.21	31.1-16.1	12/26/03	19.24	21.97	
MW-6	41.21	31.1-16.1	01/30/04	17.70	23.51	
MW-6	41.21	31.1-16.1	03/04/04	18.16	23.05	
MW-6	41.21	31.1-16.1	04/29/04	19.66	21.55	
MW-6	41.21	31.1-16.1	05/27/04	20.17	21.04	
MW-6	41.21	31.1-16.1	07/06/04	20.71	20.50	
MW-6	41.21	31.1-16.1	07/26/04	21.23	19.98	
MW-6	41.21	31.1-16.1	10/29/04	21.48	19.73	

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BRIX002520

Table 1
Hydrology Data
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C.					Site: Brix Maritime	
					Project No.: 990056-01	
Well	Reference Elevation (Feet NAVD88)	Screen Interval (Feet NAVD88)	Date (MM/DD/YY)	DTW (feet)	Water Elevation (Feet NAVD88)	Comments
MW-7	40.95	31.2-16.2	07/07/03	21.21	19.74	
MW-7	40.95	31.2-16.2	07/30/03	21.76	19.19	
MW-7	40.95	31.2-16.2	08/28/03	22.32	18.63	
MW-7	40.95	31.2-16.2	09/30/03	22.67	18.28	
MW-7	40.95	31.2-16.2	10/16/03	22.72	18.23	
MW-7	40.95	31.2-16.2	12/03/03	22.90	18.05	
MW-7	40.95	31.2-16.2	12/26/03	20.32	20.63	
MW-7	40.95	31.2-16.2	01/30/04	18.26	22.69	
MW-7	40.95	31.2-16.2	03/04/04	18.96	21.99	
MW-7	40.95	31.2-16.2	04/29/04	20.49	20.46	
MW-7	40.95	31.2-16.2	05/27/04	21.10	19.85	
MW-7	40.95	31.2-16.2	07/06/04	21.98	18.97	
MW-7	40.95	31.2-16.2	07/26/04	22.40	18.55	
MW-7	40.95	31.2-16.2	10/29/04	22.99	17.96	
River Gauge[1]						
River	4.33	NA	10/30/02	2.75	7.08	
River	4.33	NA	11/27/02	3.1	7.43	
River	4.33	NA	12/30/02	7.5	11.83	
River	4.33	NA	02/28/03	6.1	10.43	
River	4.33	NA	03/31/03	8.0	12.33	
River	4.33	NA	04/29/03	8.0	12.33	
River	4.33	NA	05/22/03	6.5	10.83	
River	4.33	NA	07/07/03	4.0	8.33	
River	4.33	NA	07/30/03	3.5	7.83	
River	4.33	NA	08/28/03	3.3	7.63	
River	4.33	NA	09/30/03	2.1	6.43	
River	4.33	NA	10/16/03	2.2	6.53	
River	4.33	NA	12/03/03	3.5	7.83	
River	4.33	NA	12/26/03	6.7	11.03	
River	4.33	NA	01/30/04	11.0	15.33	
River	4.33	NA	03/04/04	5.0	9.33	
River	4.33	NA	04/29/04	4.0	8.33	
River	4.33	NA	05/27/04	6.6	10.93	
River	4.33	NA	07/06/04	5.5	9.83	
River	4.33	NA	07/26/04	2.75	7.08	
River	4.33	NA	10/29/04	3.75	8.08	

Note: DTW = Depth to Water; DTP = Depth to Product; NA = Not Applicable

1 - The river gauge is marked in 1-foot increments, field measurements are estimated to the closest 0.1 foot.

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Table 2
Total Petroleum Hydrocarbons
Brix Maritime
Portland, Oregon

Location (sample depth in ft bgs)	Matrix	Date Sampled	Diesel Range Organics		Residual Range Organics		Gasoline Range Organics	
MW-1	Water	07/07/03	0.27	L	0.5	U	1.3	H
MW-1	Water	10/16/03	0.73	L	0.5	U	8.1	H
MW-1	Water	01/30/04	0.60	L	0.5	U	4.0	H
MW-1	Water	04/29/04	0.71	L	0.5	U	5.8	H
MW-1 Duplicate	Water	04/29/04	0.79	L	0.5	U	5.7	H
MW-1	Water	07/26/04	0.92	L	0.5	U	9.3	Y
MW-1 Duplicate	Water	07/26/04	0.93	L	0.5	U	9.3	Y
MW-1	Water	10/29/04	1.10	L	0.5	U	8.8	Y
MW-2	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-2	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-2	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-2	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-2	Water	07/26/04	0.25	U	0.5	U	0.25	U
MW-2	Water	10/29/04	0.25	U	0.5	U	0.25	U
MW-3	Water	07/30/02	3.4	Y	1.6	O		
MW-3	Water	07/07/03	1.9	Y	8.5	O	0.05	U
MW-3	Water	10/16/03	0.92	Y	1.8	O	0.059	Y
MW-3	Water	01/30/04	0.79	Y	0.6	O	0.05	U
MW-3	Water	04/29/04	0.7	Y	0.77	O	0.05	U
MW-3	Water	07/26/04	2.5	Y	8.3	O	0.25	U
MW-3	Water	10/29/04	1.2	Y	3.1	O	0.25	U
MW-4	Water	07/29/02	0.26	U	0.52	U		
MW-4	Water	07/07/03	0.25	U	0.52	O	0.05	U
MW-4 Duplicate	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-4	Water	10/16/03	0.25	U	0.5	U	0.65	Y
MW-4 Duplicate	Water	10/16/03	0.25	U	0.5	U	0.66	Y
MW-4	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-4	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-4	Water	07/26/04	0.25	U	0.5	U	0.25	U
MW-4	Water	10/29/04	0.73	Z	1.0	Z	0.25	U
MW-4 Duplicate	Water	10/29/04	0.63	Z	0.96	Z	0.25	U
MW-5	Water	01/30/04	0.62	L	0.5	U	1.4	H
MW-5 Duplicate	Water	01/30/04	0.63	L	0.5	U	1.5	H
MW-6	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-6	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-6	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-6	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-6	Water	07/26/04	0.25	U	0.5	U	0.25	U
MW-6	Water	10/29/04	0.25	U	0.5	U	0.25	U
MW-7	Water	07/07/03	0.25	U	0.5	U	0.05	U
MW-7	Water	10/16/03	0.27	U	0.53	U	0.05	U
MW-7	Water	01/30/04	0.25	U	0.5	U	0.05	U
MW-7	Water	04/29/04	0.25	U	0.5	U	0.05	U
MW-7	Water	07/26/04	0.25	U	0.5	U	0.25	U
MW-7	Water	10/29/04	0.25	U	0.5	U	0.25	U

Notes: Water concentrations are in mg/L. Soil concentrations are in mg/kg.

ft bgs = feet below ground surface.

U = Not detected at method reporting limit.

O = The fingerprint resembles oil, but does not match the calibration standard.

L = The fingerprint resembles a petroleum product, but the elution pattern indicates the presence of lighter weight constituents than the calibration standard.

H = The fingerprint resembles a petroleum product, but the elution pattern indicates the presence of heavier weight constituents than the calibration standard.

Y = The fingerprint resembles a petroleum product in the correct carbon range, but the elution pattern does not match the calibration standard.

TABLE 3
Polycyclic Aromatic Hydrocarbons
Brix Maritime
Portland, Oregon

Sample Designation	MW-1		MW-1		MW-1		MW-1		MW-1		MW-1 Dup		MW-1		MW-1 Dup		MW-1		MW-2		MW-2		MW-2		MW-2		MW-2		MW-2		MW-2	
Matrix	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Date Sampled	02/28/03		07/07/03		10/16/03		01/30/04		04/29/04		04/29/04		07/26/04		07/26/04		10/29/04		02/28/03		07/07/03		10/16/03		01/30/04		04/29/04		07/26/04		10/29/04	
LPAHs																																
Naphthalene	23	D	23	D	160	D	110	D	170	D	150	D	170	D	170	D	160	D	0.082		0.02	U	0.023		0.037		0.023		0.18		0.026	
Acenaphthylene	0.19		0.02	U	0.02	U	0.15	UB	0.02	U	0.02	U	0.019	U	0.019	U	0.020	U	0.023		0.02	U	0.022	U	0.110	UB	0.020	U	0.13		0.021	
Acenaphthene	0.43		0.38		0.34		0.17		0.30		0.23		0.34		0.33		0.33		0.02	U	0.02	U	0.022	U	0.020	U	0.020	U	0.024		0.020	U
Dibenzofuran	0.12		0.067		0.085		0.032		0.062		0.057		0.073		0.074		0.085		0.02	U	0.02	U	0.022	U	0.020	U	0.020	U	0.019	U	0.020	U
Fluorene	0.36		0.27		0.24		0.11		0.19		0.14		0.23		0.24		0.23		0.02	U	0.02	U	0.022	U	0.020	U	0.020	U	0.023		0.020	U
Phenanthrene	1.8		0.56		0.42		0.16		0.34		0.27		0.36		0.36		0.32		0.15		0.02	U	0.031		0.020	U	0.020	U	0.31		0.026	
Anthracene	0.53		0.11		0.065		0.073		0.079		0.057		0.068		0.067		0.070		0.032		0.02	U	0.022	U	0.034		0.036		0.11		0.032	
2-Methylnaphthalene	9.0		7.9		42.0	D	40.0	D	46.0	D	40.0	D	51.0	D	49.0	D	42.0	D	0.02	U	0.02	U	0.022	U	0.022		0.020	U	0.03		0.020	U
Total LPAH	35.43		32.29		203.15		150.55		216.97		190.75		222.07		220.07		203.04		0.29				0.05		0.09		0.06		0.81		0.11	
HPAHs																																
Fluoranthene	4.3		0.5		0.3		0.39		0.33		0.24		0.31		0.33		0.21		0.29		0.02	U	0.070		0.022		0.02	U	0.62		0.094	
Pyrene	13	D	1.2		0.9		1.6		0.76		0.57		0.80		0.85		0.60		0.42		0.02	U	0.091		0.020		0.02	U	0.87		0.090	
Benz(a)anthracene	2.1		0.22		0.16		0.20		0.12		0.084		0.13		0.130		0.130		0.11		0.02	U	0.023		0.020		0.02	U	0.31		0.043	
Chrysene	2.7		0.27		0.24		0.24		0.16		0.11		0.15		0.15		0.15		0.17		0.02	U	0.042		0.02	U	0.02	U	0.48		0.060	
Benzo(b)fluoranthene	1.4		0.088		0.073		0.047		0.049		0.029		0.044		0.041		0.084		0.14		0.02	U	0.036		0.020		0.02	U	0.48		0.080	
Benzo(k)fluoranthene	1.1		0.098		0.096		0.053		0.061		0.036		0.047		0.043		0.082		0.13		0.02	U	0.035		0.023		0.02	U	0.42		0.061	
Benzo(a)pyrene	2.0		0.11		0.097		0.064		0.066		0.038		0.056		0.052		0.110		0.19		0.02	U	0.022	U	0.035		0.02	U	0.73		0.10	
Indeno(1,2,3-cd)pyrene	1.5		0.023		0.036		0.02	U	0.02	U	0.02	U	0.019	U	0.019	U	0.044		0.20		0.02	U	0.073		0.022		0.02	U	0.88		0.14	
Dibenz(a,h)anthracene	0.17		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.019	U	0.020	U	0.02	U	0.02	U	0.022	U	0.020	U	0.02	U	0.10	J	0.02	U
Benzo(g,h,i)perylene	1.5		0.028		0.043		0.02	U	0.021		0.20	U	0.019	U	0.019	U	0.055		0.22		0.02	U	0.090		0.020		0.02	U	1.10		0.18	
Total HPAHs	29.77		2.53		1.98		2.59		1.57		1.11		1.54		1.60		1.47		1.87				0.46		0.18				5.99		0.84	

NOTE: µg/L = micrograms per liter or parts per billion.

B = detected in method blank at significant concentration.

J = estimated concentration.

U = not detected at or above the indicated method reporting limit.

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TABLE 3
Polycyclic Aromatic Hydrocarbons
Brix Maritime
Portland, Oregon

Sample Designation	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4 Dup	MW-4	MW-4 Dup	MW-4	MW-4	MW-4	MW-4	MW-4 Dup
Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Date Sampled	07/30/02	02/28/03	07/07/03	10/16/03	01/30/04	04/29/04	07/26/04	10/29/04	07/29/02	02/28/03	07/07/03	07/07/03	10/16/03	10/16/03	01/30/04	04/29/04	07/26/04	10/29/04	10/29/04
LPAHs										LPAHs									
Naphthalene	0.36	0.75	0.34	0.34	0.11	0.35	0.28 D	0.040	0.039	18 D	0.16	0.12	0.11	0.12	0.074	0.093	0.024	0.054	0.047
Acenaphthylene	0.02 U	0.22	0.02 U	0.02 U	0.14 UB	0.02 U	0.38 D	0.038	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.053 UB	0.02 U	0.019 U	0.027	0.023
Acenaphthene	0.26	1.3	0.16	0.21	0.04	0.13	0.89 D	0.088	0.51	0.60	0.11	0.11	0.36	0.40	0.16	0.061	0.096	0.860	1.100
Dibenzofuran	0.025	0.11	0.02 U	0.021	0.020 U	0.035	0.19 U	0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.020 U	0.020
Fluorene	0.09	1.0	0.1	0.11	0.037	0.082	0.84 D	0.039	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.020 U	0.020 U
Phenanthrene	0.11	2.9	0.2	0.14	0.06	0.12	2.3 D	0.02 U	0.043	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.880 Ui	1.100 Ui
Anthracene	0.02 U	0.55	0.039	0.022	0.032	0.034	0.96 D	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.024	0.030
2-Methylnaphthalene	0.28	1.8	0.34	0.31	0.15	0.34	1.20 D	0.024	0.02 U	0.80	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.020 U	0.020 U
Total LPAH	1.13	8.63	1.18	1.13	0.43	1.09	6.85	0.25	0.59	19.40	0.27	0.23	0.47	0.52	0.23	0.15	0.12	0.97	1.22
HPAHs										HPAHs									
Fluoranthene	0.056	4.9	0.22	0.077	0.075	0.080	5.8 D	0.050	0.033	0.024	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.020	0.020 U
Pyrene	0.058	7.6 D	0.22	0.082	0.090	0.079	7.2 D	0.057	0.046	0.055	0.021	0.02 U	0.02 U	0.024	0.02 U	0.02 U	0.019 U	0.038	0.029
Benz(a)anthracene	0.02 U	2.1 D	0.06	0.02 U	0.022	0.02 U	2.3 D	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.020 U	0.020 U
Chrysene	0.02 U	2.3 D	0.071	0.02 U	0.023	0.02 U	2.6 D	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.020 U	0.020 U
Benzo(b)fluoranthene	0.022	1.8 D	0.038	0.02 U	0.02 U	0.02 U	1.90 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.020 U	0.020 U
Benzo(k)fluoranthene	0.02 U	1.7 D	0.065	0.02 U	0.02 U	0.02 U	1.90 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.020 U	0.020 U
Benzo(a)pyrene	0.02 U	2.3 D	0.053	0.02 U	0.036	0.02 U	3.0 D	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.020 U	0.020 U
Indeno(1,2,3-cd)pyrene	0.02 U	1.5 D	0.041	0.02 U	0.02	0.02 U	1.90 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.020 U	0.020 U
Dibenz(a,h)anthracene	0.02 U	0.20 U	0.20 U	0.02 U	0.02 U	0.02 U	1.90 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.020 U	0.020 U
Benzo(g,h,i)perylene	0.02 U	1.9 D	0.039	0.02 U	0.02 U	0.02 U	1.90 D	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.020 U	0.020 U
Total HPAHs	0.14	26.10	0.80	0.16	0.27	0.16	22.80	0.11	0.08	0.08	0.021			0.024				0.06	0.03

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TABLE 3
Polycyclic Aromatic Hydrocarbons
Brix Maritime
Portland, Oregon

Sample Designation	MW-5		MW-5 dup		MW-5		MW-5 dup		MW-6		MW-6		MW-6		MW-6		MW-6		MW-6		MW-7		MW-7		MW-7		MW-7		MW-7		MW-7	
Matrix	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Date Sampled	02/28/03		02/28/03		01/30/04		01/30/04		07/07/03		10/16/03		01/30/04		04/29/04		07/26/04		10/29/04		07/07/03		10/16/03		01/30/04		04/29/04		07/26/04		10/29/04	
LPAHs	LPAHs																															
Naphthalene	19	D	17	D	2.9		2.1		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.093		0.019	U	0.083	
Acenaphthylene	0.10		0.40		0.02	U	0.02	U	0.02	U	0.02	U	0.042		0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.019	U
Acenaphthene	1.3		1.3		0.6		0.5		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.019	U
Dibenzofuran	0.2		0.19		0.081		0.057		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.019	U
Fluorene	1.2		1.3		0.48		0.32		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.019	U
Phenanthrene	2.3		3.1		1.1		0.8		0.02	U	0.02	U	0.025		0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.019	U
Anthracene	0.55		0.93		0.34		0.24		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.019	U
2-Methylnaphthalene	31	D	31	D	1.5		1.1		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.04		0.019	U	0.041	
Total LPAH	55.64		55.22		7.02		5.02						0.07														0.13				0.08	
HPAHs	HPAHs																															
Fluoranthene	3.1	J	6.5	J	1.5		1.1		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U
Pyrene	4.3	J	9.1	J	1.8		1.4		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.023		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U
Benz(a)anthracene	0.72	J	2.80	J	0.18		0.14		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U
Chrysene	0.96	J	3.4	J	0.22		0.17		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U
Benzo(b)fluoranthene	0.44	J	2.2	J	0.046		0.035		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U
Benzo(k)fluoranthene	0.42	J	1.9	J	0.046		0.041		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U
Benzo(a)pyrene	0.65	J	3.6	J	0.061		0.050		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U
Indeno(1,2,3-cd)pyrene	0.49	J	2.5	J	0.03		0.022		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U
Dibenz(a,h)anthracene	0.044	J	0.27	J	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U
Benzo(g,h,i)perylene	0.52	J	2.7	J	0.029		0.024		0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.020	U
Total HPAHs	11.64		34.97		3.91		3.00												0.02													

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BRIX002525

Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	Dichlorodifluoromethane		Chloromethane		Vinyl Chloride		Bromomethane		Chloroethane		Trichlorofluoromethane		Acetone		1,1-Dichloroethene		Methyl tert-Butyl Ether		Carbon Disulfide		Methylene Chloride		trans- 1, 2-dichloroethene		1,1-Dichloroethane		2-Butanone		2,2-Dichloropropane		cis -1, 2-dichloroethene		Chloroform		Bromochloromethane		1,1,1-Trichloroethane		1,1-Dichloropropene		Carbon Tetrachloride	
MW-1	Water	02/28/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	UJ	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-1	Water	07/07/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-1	Water	10/16/03	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	100	U	2.5	U	2.5	U	2.5	U	10	U	2.5	U	2.5	U	100	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
MW-1	Water	01/30/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-1	Water	04/29/04	1	U	1	U	1	U	1	U	1	U	1	U	40	U	1	U	1	U	1	U	4	U	1	U	1	U	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
MW-1 Dup	Water	04/29/04	1	U	1	U	1	U	1	U	1	U	1	U	40	U	1	U	1	U	1	U	4	U	1	U	1	U	40	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
MW-1	Water	07/26/04	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	50	U	1.3	U	1.3	U	1.3	U	5	U	1.3	U	1.3	U	50	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
MW-1 Dup	Water	07/26/04	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	50	U	1.3	U	1.3	U	1.3	U	5	U	1.3	U	1.3	U	50	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
MW-1	Water	10/29/04	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	50	U	1.3	U	1.3	U	1.3	U	5	U	1.3	U	1.3	U	50	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
MW-2	Water	02/28/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	UJ	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-2	Water	07/07/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-2	Water	10/16/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-2	Water	01/30/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-2	Water	04/29/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-2	Water	07/26/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-2	Water	10/29/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-3	Water	07/30/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-3	Water	02/28/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	UJ	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-3	Water	07/07/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-3	Water	10/16/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-3	Water	01/30/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-3	Water	04/29/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-3	Water	07/26/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-3	Water	10/29/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-4	Water	07/29/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-4	Water	02/28/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	UJ	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-4	Water	07/07/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-4 Dup	Water	07/07/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-4	Water	10/16/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-4 Dup	Water	10/16/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-4	Water	01/30/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-4	Water	04/29/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-4	Water	07/26/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-4	Water	10/29/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-4 Dup	Water	10/29/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-5	Water	02/28/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	UJ	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-5 Dup	Water	02/28/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	UJ	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-5	Water	01/30/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	UJ	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-5 Dup	Water	01/30/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	UJ	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-6	Water	07/07/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-6	Water	10/16/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-6	Water	01/30/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-6	Water	04/29/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-6	Water	07/26/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-6	Water	10/29/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-7	Water	07/07/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-7	Water	10/16/03	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-7	Water	01/30/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-7	Water	04/29/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-7	Water	07/26/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
MW-7	Water	10/29/04	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	2	U	0.5	U	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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BRIX002526

Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	1,2-Dichloroethane	Benzene	Trichloroethene	1,2-Dichloropropane	Bromodichloromethane	Dibromomethane	2-Hexanone	cis-1,3-Dichloropropene	Toluene	trans 1,3-Dichloropropene	1,1,2-Trichloroethane	4-Methyl-2-pentanone	1,3 Dichloropropane	Tetrachloroethene	Dibromochloromethane	1,2 Dibromoethane	Chlorobenzene	1,1,1,2-Tetrachloroethane	Ethylbenzene	m,p-Xylenes	o-Xylene	Styrene	Bromoform
MW-1	Water	02/28/03	0.5 U	5.7	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.71	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	37	50	12	0.5 U	0.5 U
MW-1	Water	07/07/03	0.5 U	1.3	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	1.1	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	11	18	2	0.5 U	0.5 U
MW-1	Water	10/16/03	2.5 U	32 D	2.5 U	2.5 U	2.5 U	2.5 U	100 U	2.5 U	13 D	2.5 U	2.5 U	100 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	270 D	360 D	110 D	2.5 U	2.5 U
MW-1	Water	01/30/04	0.5 U	4.1	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.96	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	78 D	120	31	0.5 U	0.5 U
MW-1	Water	04/29/04	1 U	5.3 D	1 U	1 U	1 U	1 U	40 U	1 U	2.1 D	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	120 D	160 D	46 D	1 U	1 U
MW-1 Dup	Water	04/29/04	1 U	4.7 D	1 U	1 U	1 U	1 U	40 U	1 U	1.9 D	1 U	1 U	40 U	1 U	1 U	1 U	4 U	1 U	1 U	110 D	150 D	42 D	1 U	1 U
MW-1	Water	07/26/04	1.3 U	4.0 D	1.3 U	1.3 U	1.3 U	1.3 U	50 U	1.3 U	1.3 U	1.3 U	1.3 U	50 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	93 D	120 D	29 D	1.3 U	1.3 U
MW-1 Dup	Water	07/26/04	1.3 U	3.9 D	1.3 U	1.3 U	1.3 U	1.3 U	50 U	1.3 U	1.3 U	1.3 U	1.3 U	50 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	89 D	110 D	28 D	1.3 U	1.3 U
MW-1	Water	10/29/04	1.3 U	4.0 D	1.3 U	1.3 U	1.3 U	1.3 U	50 U	1.3 U	1.3 U	1.3 U	1.3 U	50 U	1.3 U	1.3 U	1.3 U	5 U	1.3 U	1.3 U	82 D	100 D	12 D	1.3 U	1.3 U
MW-2	Water	02/28/03	0.5 U	0.50 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	07/07/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	10/16/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.86	0.5 U	0.5 U	0.5 U
MW-2	Water	01/30/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	04/29/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	07/26/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-2	Water	10/29/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-3	Water	07/30/02	0.5 U	0.73	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	14	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.51	3.5	2	0.5 U	0.5 U
MW-3	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.63	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	1.2	1.2	0.5 U	0.5 U
MW-3	Water	07/07/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.8	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	1.2	1.1	0.5 U	0.5 U
MW-3	Water	10/16/03	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	1.9	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.51	2.5	1.5	0.5 U	0.5 U
MW-3	Water	01/30/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.63	0.73	0.5 U	0.5 U
MW-3	Water	04/29/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	1.20	1.1	0.5 U	0.5 U
MW-3	Water	07/26/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.98	0.98	0.5 U	0.5 U
MW-3	Water	10/29/04	0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	1.10	1.0	0.5 U	0.5 U
MW-4	Water	07/29/02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	02/28/03	0.5 U	0.76	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	2.3	1.4	1.2	0.5 U	0.5 U
MW-4	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.93	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.94	0.5 U	0.5 U	0.5 U
MW-4	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	0.5 U	0.5 U
MW-4	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	07/26/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4	Water	10/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-4 Dup	Water	10/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-5	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	15	12	0.97	0.5 U	0.5 U
MW-5 Dup	Water	02/28/03	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	16	14	1.10	0.5 U	0.5 U
MW-5	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	1.8	0.5 U	0.5 U	0.5 U	0.5 U
MW-5 Dup	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	2.0	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.74	0.5 U	0.5 U	0.5 U
MW-6	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	07/26/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-6	Water	10/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	07/07/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	10/16/03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.82	0.5 U	0.5 U	0.5 U
MW-7	Water	01/30/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	04/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	07/26/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-7	Water	10/29/04	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	0.5 U	20 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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BRIX002527

Table 4
Volatile Organic Compounds
Brix Maritime
Portland, Oregon

Sample Designation	Matrix	Date Sampled	Isopropylbenzene	1,1,2,2-Tetrachloroethane	1,2,3-Trichloropropane	Bromobenzene	n-Propylbenzene	2-Chlorotoluene	4-Chlorotoluene	1,3,5-Trimethylbenzene	tert-Butylbenzene	1,2,4-Trimethylbenzene	sec-Butylbenzene	1,3-Dichlorobenzene	4-Isopropyltoluene	1,4-Dichlorobenzene	n-Butylbenzene	1,2-Dichlorobenzene	1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene	1,2,3-Trichlorobenzene	Naphthalene	Hexachlorobutadiene
MW-1	Water	02/28/03	19	0.5 U	0.5 U	0.5 U	65 D	2 U	2 U	26	2 U	140 D	10	0.5 U	2 U	0.5 U	21	0.5 U	0.5 U	2 U	2 U	31	2 U
MW-1	Water	07/07/03	31	0.5 U	0.5 U	0.5 U	64 D	2 U	2 U	9.3	2 U	46	8.2	0.5 U	2 U	0.5 U	14	0.5 U	0.5 U	2 U	2 U	22	2 U
MW-1	Water	10/16/03	75 D	2.5 U	2.5 U	10 U	250 D	10 U	10 U	280 D	10 U	1200 D	28 D	2.5 U	10 U	2.5 U	150 UJ	2.5 U	10 U	10 U	10 U	460 D	10 U
MW-1	Water	01/30/04	36	0.5 U	0.5 U	0.5 U	140 D	2 U	2 U	100 D	2 U	510 D	17	0.5 U	2 U	0.5 U	46	0.5 U	0.5 U	2 U	2 U	210 D	2 U
MW-1	Water	04/29/04	54 D	1 U	1 U	1 U	150 D	4 U	4 U	150 D	4 U	590 D	20 D	1 U	4 U	1 U	43 D	1 U	1 U	4 U	4 U	250 D	4 U
MW-1 Dup	Water	04/29/04	52 D	1 U	1 U	1 U	150 D	4 U	4 U	140 D	4 U	570 D	18 D	1 U	4 U	1 U	39 D	1 U	1 U	4 U	4 U	260 D	4 U
MW-1	Water	07/26/04	47 D	1.3 U	1.3 U	1.3 U	160 D	5 U	5 U	130 D	5 U	610 D	18 D	1.3 U	5 U	1.3 U	40 D	1.3 U	1.3 U	5 U	5 U	270 JD	5 U
MW-1 Dup	Water	07/26/04	46 D	1.3 U	1.3 U	1.3 U	160 D	5 U	5 U	120 D	5 U	640 D	18 D	1.3 U	5 U	1.3 U	40 D	1.3 U	1.3 U	5 U	5 U	280 JD	5 U
MW-1	Water	10/29/04	45 D	1.3 U	1.3 U	1.3 U	140 D	5 U	5 U	110 D	5 U	560 D	16 D	1.3 U	5 U	1.3 U	39 D	1.3 U	1.3 U	5 U	5 U	230 D	5 U
MW-2	Water	02/28/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	07/26/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-2	Water	10/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	07/30/02	0.5 U	0.5 U	0.5 U	0.5 U	2.2	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	02/28/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	07/26/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-3	Water	10/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	07/29/02	2 U	0.5 U	0.5 U	0.5 U	2.3	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	02/28/03	29	0.5 U	0.5 U	0.5 U	35	2 U	2 U	2.2	2 U	3.8	2 U	0.5 U	2 U	0.5 U	3.1	0.5 U	0.5 U	2 U	2 U	45	2 U
MW-4	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4 Dup	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	10/16/03	7.1	0.5 U	0.5 U	0.5 U	5.5	2 U	2 U	2 U	2 U	2 U	4.4	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4 Dup	Water	10/16/03	7.5	0.5 U	0.5 U	0.5 U	6.3	2 U	2 U	2 U	2 U	2 U	4.8	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	07/26/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4	Water	10/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-4 Dup	Water	10/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-5	Water	02/28/03	24	0.5 U	0.5 U	0.5 U	110 D	2 U	2 U	26	2 U	75 D	27	0.5 U	2 U	0.5 U	87 D	0.5 U	0.5 U	2 U	2 U	23	2 U
MW-5 Dup	Water	02/28/03	25	0.5 U	0.5 U	0.5 U	110 D	2 U	2 U	30	2 U	99 D	30	0.5 U	2.3	0.5 U	110 D	0.5 U	0.5 U	2 U	2 U	25	2 U
MW-5	Water	01/30/04	9.7	0.5 U	0.5 U	0.5 U	49	2 U	2 U	2 U	2 U	2 U	38	0.5 U	2 U	0.5 U	82 D	0.5 U	0.5 U	2 U	2 U	2.9	2 U
MW-5 Dup	Water	01/30/04	11	0.5 U	0.5 U	0.5 U	56	2 U	2 U	2 U	2 U	2 U	39	0.5 U	2 U	0.5 U	84 D	0.5 U	0.5 U	2 U	2 U	3.4	2 U
MW-6	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	07/26/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-6	Water	10/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	07/07/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	10/16/03	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	01/30/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	04/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	07/26/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U
MW-7	Water	10/29/04	2 U	0.5 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	0.5 U	2 U	0.5 U	0.5 U	2 U	2 U	2 U	2 U

NOTE: Water concentrations are in µg/L. Soil concentrations are in µg/kg. U = not detected at or above the indicated method reporting limit. J = estimated concentration.

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Table 5
Lead in Groundwater
Brix Maritime
Portland, Oregon

Location	Matrix	Date Sampled	Total Lead (ppb)		Dissolved Lead (ppb)	
MW-1	Water	02/28/03	288		0.03	
MW-1	Water	07/07/03	1.34		0.05	
MW-1	Water	10/16/03	1.41		0.06	
MW-1	Water	01/30/04	0.05		0.02	U
MW-1	Water	04/29/04	0.11		0.02	U
MW-1 Duplicate	Water	04/29/04	0.11		0.04	
MW-1	Water	07/26/04	2.35		2.12	
MW-1 Duplicate	Water	07/26/04	1.81		1.93	
MW-1	Water	10/29/04	0.27		0.03	
MW-2	Water	02/28/03	57.6		0.04	
MW-2	Water	07/07/03	0.04		0.05	
MW-2	Water	10/16/03	25.9		0.58	
MW-2	Water	01/13/04	0.03		0.02	U
MW-2	Water	04/29/04	0.02	U	0.02	
MW-2	Water	07/26/04	13		3.39	
MW-2	Water	10/29/04	31.9		0.11	
MW-3	Water	07/30/02	0.88		0.13	
MW-3	Water	02/28/03	65.9		0.05	
MW-3	Water	07/07/03	0.36		0.08	
MW-3	Water	10/16/03	0.22		0.05	
MW-3	Water	01/13/04	0.1		0.05	
MW-3	Water	04/29/04	0.05		0.02	
MW-3	Water	07/26/04	0.13		1.00	
MW-3	Water	10/29/04	0.05		0.06	
MW-4	Water	07/29/02	0.36		0.02	U
MW-4	Water	02/28/03	0.70		0.02	U
MW-4	Water	07/07/03	0.78	J	0.02	
MW-4 Duplicate	Water	07/07/03	0.18	J	0.03	
MW-4	Water	10/16/03	0.46		0.03	
MW-4 Duplicate	Water	10/16/03	0.54		0.02	U
MW-4	Water	01/13/04	0.08		0.03	
MW-4	Water	04/29/04	0.47		0.09	
MW-4	Water	07/26/04	0.04		0.03	
MW-4	Water	10/29/04	0.16		0.02	U
MW-4 Duplicate	Water	10/29/04	0.16		0.02	U
MW-5	Water	02/28/03	131		0.06	
MW-5 Duplicate	Water	02/28/03	116		0.03	
MW-5	Water	01/13/04	0.06		0.02	
MW-5 Duplicate	Water	01/13/04	0.08		0.02	
MW-6	Water	07/07/03	0.1		0.02	U
MW-6	Water	10/16/03	0.03		0.07	
MW-6	Water	01/13/04	0.09		0.02	U
MW-6	Water	04/29/04	0.08		0.03	
MW-6	Water	07/26/04	0.51		0.10	
MW-6	Water	10/29/04	0.26		0.03	
MW-7	Water	07/07/03	0.17		0.02	U
MW-7	Water	10/16/03	0.02	U	0.03	
MW-7	Water	01/13/04	0.1		0.02	U
MW-7	Water	04/29/04	0.02	U	0.02	
MW-7	Water	07/26/04	0.18		0.04	
MW-7	Water	10/29/04	0.04		0.03	

Note: U = not detected at method reporting limit. ppb = parts per billion. J = estimated
Water concentrations are in µg/L.

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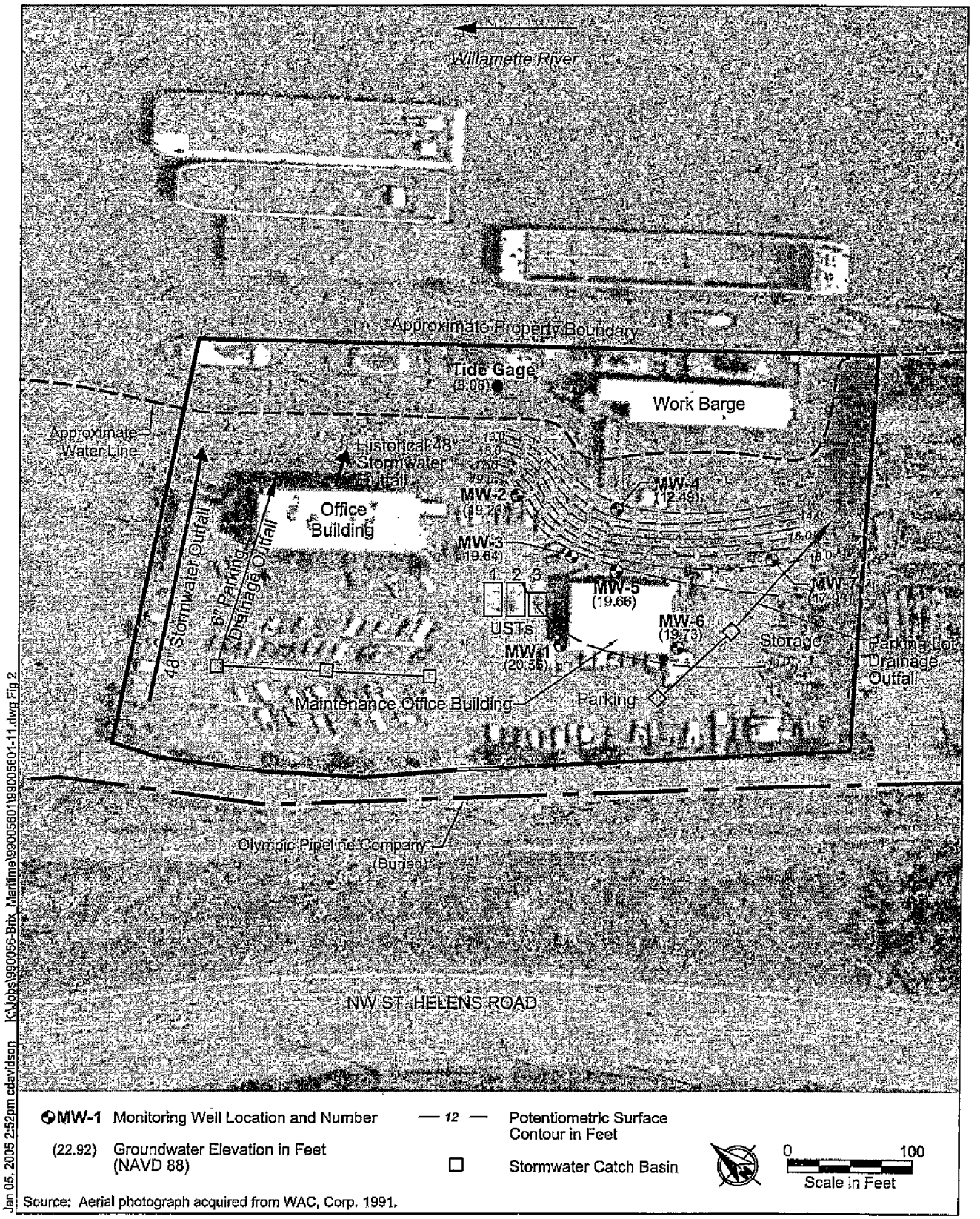
FIGURES

Apr 01, 2003 4:09pm cdavidson I:\CAD\Jobs\990056-Brix_Maritime\99005601\99005601-03.dwg FIG 1

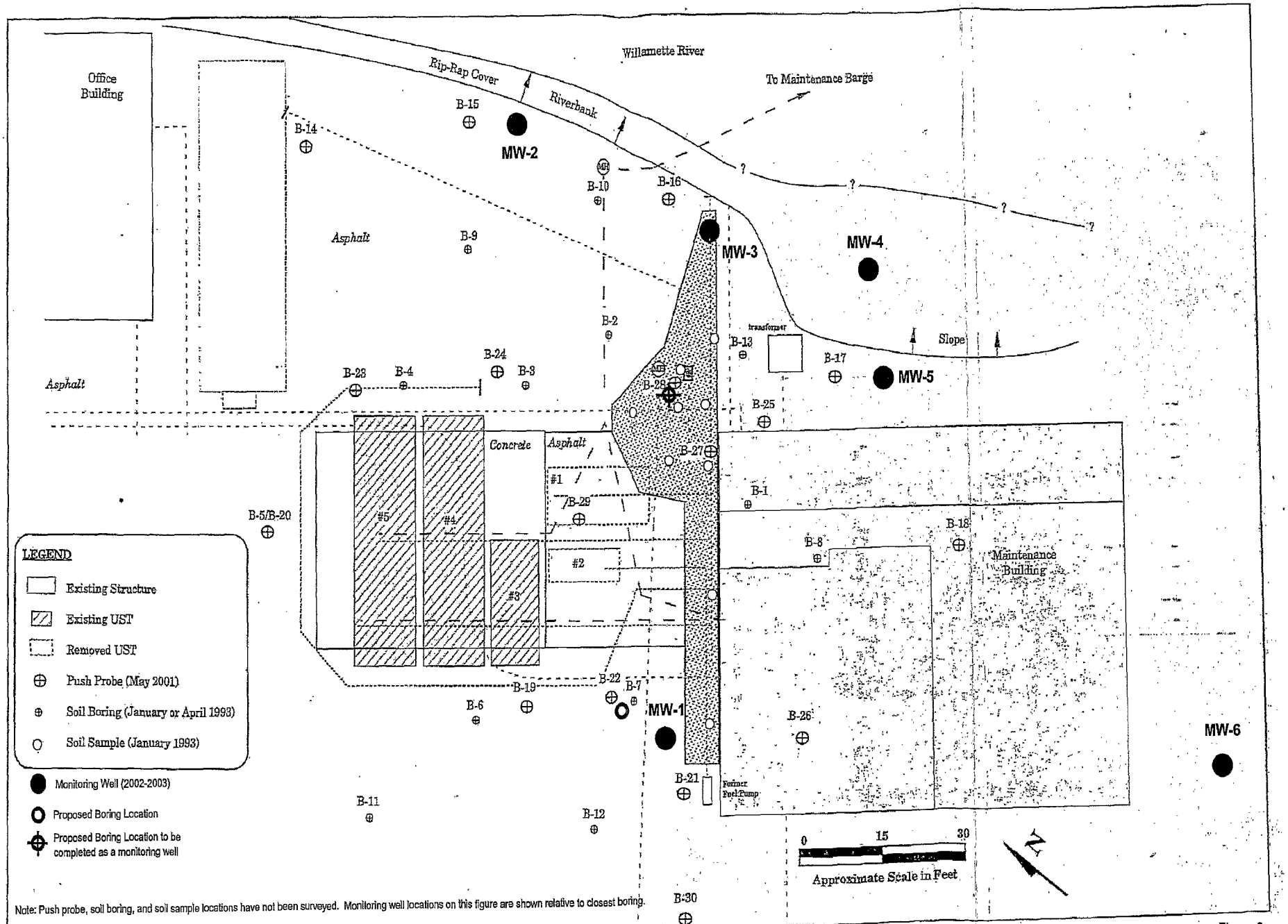
ANCHOR ENVIRONMENTAL, L.L.C.

Figure 1
Site Location Map
Brix Maritime
Portland, Oregon



ANCHOR ENVIRONMENTAL, L.L.C.

Figure 2
Well Location and Potentiometric Surface Map (October 29, 2004)
Brix Maritime
Portland, Oregon



Note: Push probe, soil boring, and soil sample locations have not been surveyed. Monitoring well locations on this figure are shown relative to closest boring.

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Figure 3
Sample Location Map

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Appendix A
Field Sampling Data Package

ANCHOR ENVIRONMENTAL, L.L.C.

Anchor Environmental, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Phone 503.670.1108
Fax 503.670.1128

Memorandum

To: File 990056-01

From: Timothy J. Stone

Date: November 8, 2004

Re: October 2004 Groundwater Sample Collection at Brix Maritime, Portland, Oregon

OVERVIEW

On October 29, 2004, Anchor measured groundwater elevations in seven monitoring wells and recorded the river elevation from the staff gauge located at the site. In addition, groundwater samples were collected from six of the seven monitoring wells (MW-5 had insufficient water to sample). Seven water samples (including one duplicate sample) were submitted for analysis of VOCs by U.S. Environmental Protection Agency (USEPA) Method 8260+MTBE; gasoline by NWTPH-Gx; diesel and heavy oils by NWTPH-Dx; PAHs by USEPA Method 8270-SIM; total lead; and dissolved lead. A trip blank was submitted for VOC analysis.

PURGING AND SAMPLING

Before sampling, wells were purged of at least three casing volumes, until field parameters (temperature, pH, and specific conductivity) stabilized, or until the wells purged dry. Temperature, pH, and specific conductivity values were measured and recorded after each casing volume was removed. Field sampling parameters are presented within the attached table.

A minimum of three volumes was purged from each well using a peristaltic pump equipped with new pump tubing, and connected to polyethylene tubing dedicated to each well. Pumping rates were reduced, and samples were then collected directly from the dedicated pump tubing. Samples for dissolved lead were field-filtered using an in-line high-capacity 0.45 micron filter prior to field preservation with nitric acid.

Quality control consisted of collecting and analyzing one duplicate sample from MW-1. A trip blank was submitted for VOC analysis by USEPA Method 8260 + MTBE.

SAMPLE HANDLING AND SHIPPING

Eight samples were placed in iced shipping containers and transported by courier to Columbia Analytical Services (CAS), Kelso, Washington, under chain of custody documentation.

Attachments: Field Sampling Data Sheets
Chain-of-Custody Documentation

Table
Sampling Field Parameters
Brix Maritime
October 2004

Well	Blind Code	Date Sampled	Depth to Water (feet)	Pore Volumes Purged	Gallons Removed	pH	Specific Conductance µS	Temperature °C	Dissolved Oxygen mg/L
Monitoring Wells									
MW-1	BM-102904-1	10/29/2004	21.25	10	1.5	6.10	1300	16.28	0.15
MW-2	BM-102904-2	10/29/2004	22.90	1	0.3	6.45	685	15.25	0.94
MW-3	BM-102904-3	10/29/2004	22.29	3	1.2	6.07	421	16.24	0.82
MW-4	BM-102904-4	10/29/2004	11.06	3	1.8	6.43	648	17.92	0.49
MW-5	no sample	NA	Dry	0	0.0	NA	NA	NA	NA
MW-6	BM-102904-7	10/29/2004	21.48	3	1.8	5.97	517	15.34	1.03
MW-7	BM-102904-6	10/29/2004	22.99	3	1.2	6.05	405	15.62	0.77
QA/QC									
MW-4	BM-102904-5	10/29/2004	11.06	3	1.8	6.43	648	17.92	0.49

NA=not applicable

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Depth to Water Measurements
Brix Maritime
Portland, Oregon

Anchor Environmental, L.L.C. Site: Brix Maritime

Project No.: 990056-01

Well	Date (MM/DD/YY)	Time (2400)	DTW (feet)	Comments
MW-1	10/29/04	1130	21.25	strong pet. odor / no measurable product.
MW-2	10/29/04	1140	22.90	
MW-3		1204	22.29	no product measured / free PRODUCT RESIDUE ON PROBE
MW-4		1212	11.06	
MW-5		1154	22.00	DTB = 22.35 // DRY - water only in sump (0.5')
MW-6		1227	21.48	
MW-7		1220	22.99	
River Gauge		1146	3.75	

Note: DTW = Depth to Water; DTP = Depth to Product

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FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-1
SITE ADDRESS: Portland, Oregon BLIND ID: BM-102904-1
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE:	°F 55	°C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Circle appropriate units] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
10/29/04	11:30	22.15	.	21.25	.	0.90	X1	0.15
/ /	:	.	.	.	.		X3	0.45

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	10/29/04	13:00	B	5 40 ml	HCl	YES	NO		✓
Amber Glass	/ /	:		4 250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		✓
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:	1	250, 500, 1L	HNO_3	YES	NO		✓
Red Diss. Poly	/ /	:	1	250, 500, 1L	HNO_3	YES	YES		✓
	/ /	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): ~~10~~ 11 (Broken VOA)

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil & Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 12:45 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	1.5	6.10	1300	16.28		0.15	Clear/colorless
2	B	1.0	6.10	1299	16.33		0.20	Clear/colorless **
1	B	0.5	6.10	1298	16.34		1.02	Clear/slight yellow stained tint
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

*EXTRA Bottles - QC (lab)

SAMPLER: Tim Stone (PRINTED NAME) (SIGNATURE)

** petroleum sheen / gasoline odor

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-2
SITE ADDRESS: Portland, Oregon
BLIND ID: BM-102904-2
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE:	°F 55	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
10/29/04	~~11:25~~	.	~~22~~	.	.	.	X1	0.22
/ /	11:40	24.25	~~22~~	22.90	.	1.35	X3	0.66

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [N if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	10/29/04	13:45	B	~~6~~	40 ml HCl	YES	NO		✓
Amber Glass	/ /	:	B	2	250 (500) 1L (None) (HCl) (H_2SO_4)	YES	NO		✓
White Poly	/ /	:			250, 500, 1L None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500 1L HNO	YES	NO		✓
Red Diss. Poly	/ /	:		1	250, 500 1L HNO_3	YES	YES		✓
	/ /	:			250, 500, 1L	YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	0.9	.		.		.	
2	B	0.6	.		.		.	
1	~~X~~ B	0.3	6.45	685	15.25	/	0.94	cloudy / yellow tan
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

Dry @ 1 volume. Let recharge + sampled.

SAMPLER: TM TONE (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime WELL ID: MW-3
SITE ADDRESS: Portland, Oregon BLIND ID: BM-102904-3
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE: °F 55 °C		

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
10/29/04	12:04	24.60	.	22.29	.	2.31	X1	0.38
/ /	:	.	.	.	.		X3	1.13

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [N if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	10/29/04	14:30	B	6	40 ml	HCl	YES	NO		✓
Amber Glass	11/01/04	13:30	B	2	250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		✓
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	NO		✓
Red Diss. Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	YES		✓
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) · (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 13:55 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	1.2	6.07	421	16.24		0.82	clear/yellowish
2	B	0.8	6.13	423	16.22		1.25	clear/yellowish *
1	B	0.4	6.21	426	16.27		1.80	slight cloudy/yellow tan
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

** Dx only - broken in transit. Repurged well Bottle recorded w/ 10/29/04 @ 14:30 Sample time. Sampled 11/1/04

* petroleum sheen / petroleum odor

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-4
SITE ADDRESS: Portland, Oregon
BLIND ID: BM-102904-4
DUP ID: ~~BM-102904-5~~ NA (1500)

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?	TEMPERATURE:	°F 55.	°C				

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
10/29/04	12:12	14.80	.	11.06	.	3.74	X1	0.60
/ /	:	.	.	.	.		X3	1.80

Gal/ft = (dia./2)² x 0.163	1" =	0.041	2" =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	10/29/04	15:10	B	6	40 mL	HCl	YES	NO		✓
Amber Glass	/ /	:		2	250, 500, 1L	(None) HCl H_2SO_4	YES	NO		✓
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	NO		✓
Red Diss. Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	YES		✓
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time: 14:40 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	1.8	6.43	648	17.92		0.49	
2	B	1.2	6.43	647	17.93		0.44	
1	B	0.6	6.47	625	18.37		0.57	Clear/yellowish tint
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime **WELL ID:** MW-5
SITE ADDRESS: Portland, Oregon **BLIND ID:** No Sample - DRY
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY	CLOUDY	RAIN	?	TEMPERATURE:	°F 55	.	°C			

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW [Product Thickness]	DTB-DTW [Water Column]		Volume (gal) [Water Column x Gal/ft]
10/29/04	11:54	22.35	.	DRY	.	.	X1	.
/ /	:	.	.	(22.00)	.		X3	.

Gal/ft = (dia./2)^2 x 0.163	1" =	0.041	2" =	0.163	3" =	0.367	4" =	0.653	6" =	1.469	10" =	4.080	12" =	5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL		Preservative [circle]	Ice	Filter	pH	√
VOA Glass	/ /	:		6	40 ml	HCl	YES	NO		
Amber Glass	/ /	:		2	250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	NO		
Red Diss. Poly	/ /	:		1	250, 500, 1L	HNO_3	YES	YES		
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 0

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil & Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Kendahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

No Sample DRY

WATER QUALITY DATA Purge Start Time: : Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3		.	.		.		.	
2		.	.		.		.	
1		.	.		.		.	
0		0.00	.		.		.	DRY

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: [signature] (PRINTED NAME) [signature] (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-6
SITE ADDRESS: Portland, Oregon
BLIND ID: BM-102904-7
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE:	°F 52 .	°C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
10/29/04	12:27	25.05	.	21.48		3.57	X1	0.58
/ /	:	.	.	.	.		X3	1.75

Gal/ft = (dia./2)² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	10/29/04	16:40	B	6	40 ml	HCl	YES	NO	✓
Amber Glass	/ /	:		2	250 500 1L	None HCl H_2SO_4	YES	NO	✓
White Poly	/ /	:			250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:			250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:			250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		1	250 500 1L	HNO_3	YES	NO		✓
Red Diss. Poly	/ /	:		1	250 500 1L	HNO_3	YES	YES		✓
	/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count): 10 9

Analysis Allowed per Bottle Type

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 16:10 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	1.8	5.97	517	15.34		1.03	↑
2	B	1.2	5.97	517	15.34		1.05	|
1	B	0.6	5.97	516	15.35		1.06	Clear / colorless
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

ANCHOR ENVIRONMENTAL, L.L.C.
6650 SW Redwood Lane, Suite 110
Portland, OR 97224
Office: (503) 670-1108 Fax: (503) 670-1128

PROJECT NAME: Brix Maritime
WELL ID: MW-7
SITE ADDRESS: Portland, Oregon
BLIND ID: BM-102904-6
DUP ID: NA

WIND FROM:	N	NE	E	SE	S	SW	W	NW	LIGHT	MEDIUM	HEAVY
WEATHER:	SUNNY		CLOUDY		RAIN		?		TEMPERATURE: °F 55. °C		

(Circle appropriate units)

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft) [Product Thickness] [Water Column] [Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW		Volume (gal)
10/29/04	12:20	25.00	.	22.99	.	2.01	X 1	0.33
/ /	:	.	.	.	.		X 3	0.98

Gal/ft = (dia./2)² x 0.163 | 1" = 0.041 | 2" = 0.163 | 3" = 0.367 | 4" = 0.653 | 6" = 1.469 | 10" = 4.080 | 12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample) Sample Depth: [√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	10/29/04	16:00	B	6 40 ml	(HCl)	YES	NO		√
Amber Glass	/ /	:		2 250, 500, 1L	(None) (HCl) (H_2SO_4)	YES	NO		√
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H_2SO_4	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:	1	250, 500, 1L	(HNO_3)	YES	NO		√
Red Diss. Poly	/ /	:	1	250, 500, 1L	(HNO_3)	YES	YES		√
	/ /	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 10

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8021) (8260B) (BTEX) (NWTPH-G)
	AMBER - Glass	(PAH) (TPH-HCID) (NWTPH-Dx) (TPH-418.1) (Oil &Grease)
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO_3/CO_3) (Cl) (SO_4) (NO_3) (NO_2) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO_4) (Total Keldahl Nitrogen) (NH_3) (NO_3/NO_2)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Tl) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA Purge Start Time: 15:22 Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	Diss O_2 (mg/l)	Water Quality
4		.	.		.		.	
3	B	1.2	6.05	405	15 62		0.77	Clear / slightly yellow tint
2	B	0.8	6.05	408	15.62		0.80	Clear / slight yellow tint
1	B	0.4	6.03	410	15.63		1.02	Clear / yellow tint
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER: TIM STONE (PRINTED NAME) (SIGNATURE)

Columbia Analytical Services INC.
An Employee - Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: _____

PAGE 1 OF 1 COC #: _____

PROJECT NAME: BRIX MARITIME
PROJECT NUMBER:
PROJECT MANAGER: JOHN RENDA
COMPANY/ADDRESS: ANCHOR ENVIRONMENTAL, LLC
6650 SW REDWOOD LN. #110
CITY/STATE/ZIP: PORTLAND, OR 97224
E-MAIL ADDRESS:
PHONE #: 503-670-1108 FAX#: 670-1128
SAMPLER'S SIGNATURE: Timothy J. Stone

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☒ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☒ Diesel ☒ Oil ☒	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☒ SIM ☒	Metals (Total or Dissolved) (See list below)	Cyanide ☐ Hex-Chrom ☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐					REMARKS
BM-102904-1	10/29/04	1300		H_2O	11*		X	X						X	X										
-2		1345			10		X	X						X	X										
-3		1430			10		X	X						X	X										
-4		1510			8		X	X						X	X										
-5		1520			10		X	X						X	X										
-6		1600			~~9~~ 10		X	X						X	X										
-7		1640			9		X	X						X	X										
TRIP 1		NA			2		X																		

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
X II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
* extra PAH - DIESEL

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Signature: [signature]	Date/Time: 11/01/04 - 1600	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time
Printed Name: TIM STONE	Firm: ANCHOR - PDX	Printed Name	Firm	Printed Name	Firm	Printed Name	Firm

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Appendix B
Laboratory Report

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 ph (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

December 3, 2004 Service Request No: K2408696

John Renda
Anchor Environmental
6650 SW Redwood Lane Suite 110
Portland, OR 97224

RE: Brix Maritime

Dear John:

Enclosed are the results of the sample(s) submitted to our laboratory on November 2, 2004. For your reference, these analyses have been assigned our service request number K2408696.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC 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.

Please call if you have any questions. My extension is 3281.

Respectfully submitted,

Columbia Analytical Services, Inc.

Abbie Spielman
Project Chemist

AS/jeb

Confidential Business Information

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Confidential Business Information

Case Narrative

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Anchor Environmental	**Service Request No.:**	K2408696
Project:	BRIX Maritime	**Date Received:**	11/2/04
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

Sample Receipt

Eight water samples were received for analysis at Columbia Analytical Services on 11/2/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Metals

No anomalies associated with the analysis of these samples were observed.

Diesel Range Organics by NWTPH-Dx

No anomalies associated with the analysis of these samples were observed.

Gasoline Range Organics by NWTPH-Gx

No anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260B

Elevated Method Reporting Limits:
Sample BM-102904-1 required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

Matrix Spike Recovery Exceptions:
The matrix spike recovery of Naphthalene for sample BM-102904-1 was outside control criteria due to the suspected matrix interferences. Since the unspiked samples contain high analyte concentrations relative to the amount spiked, the variability between replicates was sufficient to bias the percent recoveries outside normal CAS control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate.

Initial Calibration Exceptions:
The primary evaluation criterion was exceeded for the following analytes in Initial Calibration (ICAL) ID CAL3764: Bromomethane, trans-1, 3-Dichloropropene, 2-Hexanone, Styrene, Bromoform, and 4-Isopropyltoluene. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was 9.3%. The calibration meets the alternative evaluation criteria. Note that CAS/Kelso policy does not allow the use of averaging if any analyte in the ICAL exceeds 30% RSD.

No other anomalies associated with the analysis of these samples were observed.

Approved by Arthur Spiker Date 12/3/04

00005

Polynuclear Aromatic Hydrocarbons by EPA Method 8270C

Elevated Method Reporting Limits:
Sample BM-102904-1 required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

No other anomalies associated with the analysis of these samples were observed.

Approved by Annie Spreln Date 12/3/04

00006

Chain of Custody Documentation

00067

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SR#: K2408696

PAGE 1 OF 1 COC #

PROJECT NAME: BRIX MARITIME
PROJECT NUMBER:
PROJECT MANAGER: JOHN RENDA
COMPANY/ADDRESS: ANCHOR ENVIRONMENTAL, LLC
6650 SW REDWOOD LN. #110
CITY/STATE/ZIP: PORTLAND, OR 97224
E-MAIL ADDRESS:
PHONE #: 503-670-1108 FAX#: 670-1128
SAMPLER'S SIGNATURE: Timothy J. Stone

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☒ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☒ Diesel ☒ Oil ☒	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals, Total or Dissolved (See list below)	Cyanide ☐ Hex-Chrom ☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐					REMARKS
BM-102904-1	10/29/04	1300		H_2O	11*		X	X						X	X										
-2		1345			10		X	X						X	X										
-3		1430			10		X	X						X	X										
-4		1510			8		X	X						X	X										
-5		1520			10		X	X						X	X										
-6		1600			~~9~~ 10		X	X						X	X										
-7		1640			9		X	X						X	X										
TRIP 1		NA			2		X																		

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
X II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. #
Bill To:

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: ___ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

* extra PAH - DIESEL

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Signature	Date/Time 11/02-04 - 1000	Signature	Date/Time 11/2/04 1430	Signature	Date/Time	Signature	Date/Time
Printed Name Tim Stone	Firm ANCHOR - PDX	Printed Name A Pawar	Firm CAS	Printed Name	Firm	Printed Name	Firm

RCOC #1 06/03

00008

BRIX002554

Confidential Business Information

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC HS

Project/Client Anchor Work Order K240 8696

Cooler received on 11/2/04 and opened on 11/2/04 by TBlevins

1.	Were custody seals on outside of coolers?					(Y) N
	If yes, how many and where?	Front				
2.	Were custody seals intact?					(Y) N
3.	Were signature and date present on the custody seals?				CAS	(Y) N
4.	Is the shipper's airbill available and filed? If no, record airbill number:					Y (N)
5.	COC#					
	Temperature of cooler(s) upon receipt: (°C)	0.5	1.3			
	Temperature Blank: (°C)	0.0	1.1			
	Were samples hand delivered on the same day as collection?					(Y) N
6.	Were custody papers properly filled out (ink, signed, etc.)?					(Y) N
7.	Type of packing material present	ice-mats				
8.	**Did all bottles arrive in good condition (unbroken)?**					(Y) N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?					(Y) N
10.	Did all bottle labels and tags agree with custody papers?					(Y) N
11.	**Were the correct types of bottles used for the tests indicated?**					(Y) N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?					(Y) N
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					(Y) N
14.	Did the bottles originate from CAS/K or a branch laboratory?					(Y) N
15.	**Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?**					~~Y~~ ~~N~~
16.	Was C12/Res negative?					(Y) N

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00009

Metals

00010

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Anchor Environmental

Service Request: K2408696

Project No.: 990056-01

Project Name: Brix Maritme

Sample No.	Lab Sample ID.
BM-102904-1	K2408696-001
BM-102904-1 DISS	K2408696-001 DISS
BM-102904-1D	K2408696-001D
BM-102904-1 DISSD	K2408696-001D DISS
BM-102904-1S	K2408696-001S
BM-102904-1 DISSS	K2408696-001S DISS
BM-102904-2	K2408696-002
BM-102904-2	K2408696-002 DISS
BM-102904-3	K2408696-003
BM-102904-3	K2408696-003 DISS
BM-102904-4	K2408696-004
BM-102904-4	K2408696-004 DISS
BM-102904-5	K2408696-005
BM-102904-5	K2408696-005 DISS
BM-102904-6	K2408696-006
BM-102904-6	K2408696-006 DISS
BM-102904-7	K2408696-007
BM-102904-7	K2408696-007 DISS
Method Blank	K2408696-MB

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: Total and Dissolved Metals

Signature: _____ Date: 12/2/04

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2408696
Project No.:	990056-01	Date Collected:	10/29/04
Project Name:	Brix Maritme	Date Received:	11/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BM-102904-1 MW-1 Lab Code: K2408696-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.27		

% Solids: 0.0

Comments:

00012

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2408696
Project No.:	990056-01	Date Collected:	10/29/04
Project Name:	Brix Maritme	Date Received:	11/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BM-102904-1 DISS MW-1 Lab Code: K2408696-001 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.03		

% Solids: 0.0

Comments:

00013

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: Brix Maritme
Matrix: WATER

Service Request: K2408696
Date Collected: 10/29/04
Date Received: 11/02/04
Units: µG/L
Basis: NA

Sample Name: BM-102904-2 MW-2
Lab Code: K2408696-002

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	31.9		

% Solids: 0.0

Comments:

00014

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2408696
Project No.:	990056-01	Date Collected:	10/29/04
Project Name:	Brix Maritme	Date Received:	11/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BM-102904-2 MW-2 Lab Code: K2408696-002 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.11		

% Solids: 0.0

Comments:

00015

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: Brix Maritme
Matrix: WATER

Service Request: K2408696
Date Collected: 10/29/04
Date Received: 11/02/04
Units: µG/L
Basis: NA

Sample Name: BM-102904-3 MW-3
Lab Code: K2408696-003

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.05		

% Solids: 0.0

Comments:

00016

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2408696
Project No.:	990056-01	Date Collected:	10/29/04
Project Name:	Brix Maritme	Date Received:	11/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BM-102904-3 MW-3 Lab Code: K2408696-003 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.06		

% Solids: 0.0

Comments:

00017

Confidential Business Information

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: Brix Maritme
Matrix: WATER

Service Request: K2408696
Date Collected: 10/29/04
Date Received: 11/02/04
Units: µG/L
Basis: NA

Sample Name: BM-102904-4 MW-4

Lab Code: K2408696-004

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.16		

% Solids: 0.0

Comments:

00018

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2408696
Project No.:	990056-01	Date Collected:	10/29/04
Project Name:	Brix Maritme	Date Received:	11/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BM-102904-4 MW-4 Lab Code: K2408696-004 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.02	U	

% Solids: 0.0

Comments:

00019

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: Brix Maritme
Matrix: WATER

Service Request: K2408696
Date Collected: 10/29/04
Date Received: 11/02/04
Units: µG/L
Basis: NA

Sample Name: BM-102904-5 MW-4 Dup
Lab Code: K2408696-005

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.16		

% Solids: 0.0

Comments:

00020

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2408696
Project No.:	990056-01	Date Collected:	10/29/04
Project Name:	Brix Maritme	Date Received:	11/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BM-102904-5 MW-4 Dup Lab Code: K2408696-005 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.02	U	

% Solids: 0.0

Comments:

00021

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: Brix Maritme
Matrix: WATER

Service Request: K2408696
Date Collected: 10/29/04
Date Received: 11/02/04
Units: µG/L
Basis: NA

Sample Name: BM-102904-6 MW-1
Lab Code: K2408696-006

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.04		

% Solids: 0.0

Comments:

00022

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2408696
Project No.:	990056-01	Date Collected:	10/29/04
Project Name:	Brix Maritme	Date Received:	11/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BM-102904-6 MW-7 Lab Code: K2408696-006 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.03		

% Solids: 0.0

Comments:

00023

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: Brix Maritme
Matrix: WATER

Service Request: K2408696
Date Collected: 10/29/04
Date Received: 11/02/04
Units: µG/L
Basis: NA

Sample Name: BM-102904-7 MW-6

Lab Code: K2408696-007

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.26		

% Solids: 0.0

Comments:

00624

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Anchor Environmental	Service Request:	K2408696
Project No.:	990056-01	Date Collected:	10/29/04
Project Name:	Brix Maritme	Date Received:	11/02/04
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: BM-102904-7 MW-6 Lab Code: K2408696-007 DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.03		

% Solids: 0.0

Comments:

00025

Form I - IN

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Anchor Environmental
Project No.: 990056-01
Project Name: Brix Maritme
Matrix: WATER

Service Request: K2408696
Date Collected:
Date Received:
Units: µG/L
Basis: NA

Sample Name: Method Blank
Lab Code: K2408696-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	200.8	0.02	1	11/18/04	11/30/04	0.02	U	

% Solids: 0.0

Comments:

00026

Form I - IN

METALS
- 5a -
SPIKE SAMPLE RECOVERY

Client: Anchor Environmental
Project No.: 990056-01
Project Name: Brix Maritme
Matrix: WATER

Service Request: K2408696
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name: BM-102904-1 DISSS
Lab Code: K2408696-001S DISS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Lead	70 - 130	17.6		0.03		20.0	88		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

00027

Form V (PART 1) - IN

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client: Anchor Environmental
Project No.: 990056-01
Project Name: Brix Maritme
Matrix: WATER

Service Request: K2408696
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name: BM-102904-1S
Lab Code: K2408696-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Lead	70 - 130	17.4		0.27		20.0	86		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
- 6 -
DUPLICATES

Client: Anchor Environmental
Project No.: 990056-01
Project Name: Brix Maritme
Matrix: WATER

Service Request: K2408696
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name: BM-102904-1 DISSD
Lab Code: K2408696-001D DISS

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Lead		0.03		0.03		5		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

00029

Form VI - IN

METALS
-6-
DUPLICATES

Client: Anchor Environmental
Project No.: 990056-01
Project Name: Brix Maritme
Matrix: WATER

Service Request: K2408696
Units: µg/L
Basis: NA
% Solids: 0.0

Sample Name:BM-102904-1D
Lab Code: K2408696-001D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Lead	20	0.27		0.26		5		200.8

An empty field in the Control Limit column indicates the control limit is not applicable.

00030

Form VI - IN

METALS

- 7 -

LABORATORY CONTROL SAMPLE

Client: Anchor Environmental Service Request: K2408696

Project No.: 990056-01

Project Name: Brix Maritme

Aqueous LCS Source: Inorganic Ventures Solid LCS Source:

Analyte	Aqueous ug/L			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Lead	20.0	20.0	100					

Diesel & Residual Range Organics

00032

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Diesel and Residual Range Organics

Sample Name:	BM-102904-1 MW-1	**Units:**	ug/L
Lab Code:	K2408696-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	**1100**	L	250	1	11/05/04	11/09/04	KWG0417537	
Residual Range Organics (RRO)	ND	U	500	1	11/05/04	11/09/04	KWG0417537	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	93	50-150	11/09/04	Acceptable
n-Triacontane	97	50-150	11/09/04	Acceptable

Comments:

00033

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Diesel and Residual Range Organics

Sample Name:	BM-102904-2 MW-2	**Units:**	ug/L
Lab Code:	K2408696-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	11/05/04	11/09/04	KWG0417537	
Residual Range Organics (RRO)	ND	U	500	1	11/05/04	11/09/04	KWG0417537	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	93	50-150	11/09/04	Acceptable
n-Triacontane	100	50-150	11/09/04	Acceptable

Comments:

00034

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Diesel and Residual Range Organics

Sample Name:	BM-102904-3 MW-3	**Units:**	ug/L
Lab Code:	K2408696-003	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	**1200**	Y	250	1	11/05/04	11/09/04	KWG0417537	
Residual Range Organics (RRO)	**3100**	O	500	1	11/05/04	11/09/04	KWG0417537	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	86	50-150	11/09/04	Acceptable
n-Triacontane	93	50-150	11/09/04	Acceptable

Comments:

00035

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Diesel and Residual Range Organics

Sample Name:	BM-102904-4 MW-4	**Units:**	ug/L
Lab Code:	K2408696-004	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	**730**	Z	250	1	11/05/04	11/09/04	KWG0417537	
Residual Range Organics (RRO)	**1000**	Z	500	1	11/05/04	11/09/04	KWG0417537	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	99	50-150	11/09/04	Acceptable
n-Triacontane	104	50-150	11/09/04	Acceptable

Comments:

00036

Confidential Business Information BRIX002582

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Diesel and Residual Range Organics

Sample Name:	BM-102904-5	**Units:**	ug/L
Lab Code:	K2408696-005	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

MW-4 dup

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	630	Z	250	1	11/05/04	11/09/04	KWG0417537	
Residual Range Organics (RRO)	960	Z	500	1	11/05/04	11/09/04	KWG0417537	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	92	50-150	11/09/04	Acceptable
n-Triacontane	96	50-150	11/09/04	Acceptable

Comments:

Confidential Business Information BRIX002583

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Diesel and Residual Range Organics

Sample Name:	BM-102904-6 MW-7	**Units:**	ug/L
Lab Code:	K2408696-006	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	11/05/04	11/09/04	KWG0417537	
Residual Range Organics (RRO)	ND	U	500	1	11/05/04	11/09/04	KWG0417537	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	90	50-150	11/09/04	Acceptable
n-Triacontane	95	50-150	11/09/04	Acceptable

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Diesel and Residual Range Organics

Sample Name:	BM-102904-7 MW-6	**Units:**	ug/L
Lab Code:	K2408696-007	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	11/05/04	11/10/04	KWG0417537	
Residual Range Organics (RRO)	ND	U	500	1	11/05/04	11/10/04	KWG0417537	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	97	50-150	11/10/04	Acceptable
n-Triacontane	102	50-150	11/10/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Diesel and Residual Range Organics

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0417537-3	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	11/05/04	11/09/04	KWG0417537	
Residual Range Organics (RRO)	ND	U	500	1	11/05/04	11/09/04	KWG0417537	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	99	50-150	11/09/04	Acceptable
n-Triacontane	108	50-150	11/09/04	Acceptable

Comments:

00040

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696

Surrogate Recovery Summary
Diesel and Residual Range Organics

Extraction Method: EPA 3510C
Analysis Method: NWTPH-Dx

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
BM-102904-1	K2408696-001	93	97
BM-102904-2	K2408696-002	93	100
BM-102904-3	K2408696-003	86	93
BM-102904-4	K2408696-004	99	104
BM-102904-5	K2408696-005	92	96
BM-102904-6	K2408696-006	90	95
BM-102904-7	K2408696-007	97	102
BM-102904-1DUP	KWG0417537-1	96	101
Method Blank	KWG0417537-3	99	108
Lab Control Sample	KWG0417537-2	98	102

Surrogate Recovery Control Limits (%)

Sur1 = o-Terphenyl	50-150
Sur2 = n-Triacontane	50-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Confidential Business Information

BRIX002587

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Extracted:**	11/05/2004
Sample Matrix:	Water	**Date Analyzed:**	11/09/2004

Duplicate Sample Summary
Diesel and Residual Range Organics

Sample Name:	BM-102904-1 MW-1	**Units:**	ug/L
Lab Code:	K2408696-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	NWTPH-Dx	**Extraction Lot:**	KWG0417537

Analyte Name	MRL	Sample Result	BM-102904-1DUP KWG0417537-1 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Diesel Range Organics (DRO)	250	1100	1100	1100	4	30
Residual Range Organics (RRO)	500	ND	ND	ND	-	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Extracted:**	11/05/2004
Sample Matrix:	Water	**Date Analyzed:**	11/09/2004

Lab Control Spike Summary
Diesel and Residual Range Organics

Extraction Method:	EPA 3510C	**Units:**	ug/L
Analysis Method:	NWTPH-Dx	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0417537

	Lab Control Sample KWG0417537-2 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Diesel Range Organics (DRO)	2010	1600	126	71-146
Residual Range Organics (RRO)	961	800	120	53-143

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00043

Gasoline Range Organics

00044

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Gasoline Range Organics

Sample Name:	BM-102904-1 MW-1	**Units:**	ug/L
Lab Code:	K2408696-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	**8800**	Y	250	1	11/09/04	11/09/04	KWG0417717	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	95	50-150	11/09/04	Acceptable

Comments:

00045

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Gasoline Range Organics

Sample Name:	BM-102904-2 mw-2	**Units:**	ug/L
Lab Code:	K2408696-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	11/09/04	11/09/04	KWG0417717	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	94	50-150	11/09/04	Acceptable

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Gasoline Range Organics

Sample Name:	BM-102904-3 MW-3	**Units:**	ug/L
Lab Code:	K2408696-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	11/09/04	11/09/04	KWG0417717	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	94	50-150	11/09/04	Acceptable

Comments:

Confidential Business Information BRIX002593

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Gasoline Range Organics

Sample Name:	BM-102904-4 MW-4	**Units:**	ug/L
Lab Code:	K2408696-004	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	11/09/04	11/09/04	KWG0417717	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	94	50-150	11/09/04	Acceptable

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Gasoline Range Organics

Sample Name:	BM-102904-5 mw-4 dup	**Units:**	ug/L
Lab Code:	K2408696-005	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	11/09/04	11/09/04	KWG0417717	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	94	50-150	11/09/04	Acceptable

Comments:

00049

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Gasoline Range Organics

Sample Name:	BM-102904-6 MW-7	**Units:**	ug/L
Lab Code:	K2408696-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	11/09/04	11/09/04	KWG0417717	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	94	50-150	11/09/04	Acceptable

Comments:

00050

Confidential Business Information BRIX002596

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Gasoline Range Organics

Sample Name:	BM-102904-7 MW-6	**Units:**	ug/L
Lab Code:	K2408696-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	11/09/04	11/09/04	KWG0417717	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	95	50-150	11/09/04	Acceptable

Comments:

00051

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Gasoline Range Organics

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0417717-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	250	1	11/08/04	11/08/04	KWG0417717	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	96	50-150	11/08/04	Acceptable

Comments:

00052

Confidential Business Information

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696

Surrogate Recovery Summary
Gasoline Range Organics

Extraction Method: EPA 5030B
Analysis Method: NWTPH-Gx

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
BM-102904-1	K2408696-001	95
BM-102904-2	K2408696-002	94
BM-102904-3	K2408696-003	94
BM-102904-4	K2408696-004	94
BM-102904-5	K2408696-005	94
BM-102904-6	K2408696-006	94
BM-102904-7	K2408696-007	95
BM-102904-1DUP	KWG0417717-2	95
Method Blank	KWG0417717-4	96
Lab Control Sample	KWG0417717-3	100

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Difluorobenzene	50-150

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

00053

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Extracted:**	11/09/2004
Sample Matrix:	Water	**Date Analyzed:**	11/09/2004

Duplicate Sample Summary
Gasoline Range Organics

Sample Name:	BM-102904-1	**Units:**	ug/L
Lab Code:	K2408696-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	NWTPH-Gx	**Extraction Lot:**	KWG0417717

Analyte Name	MRL	Sample Result	BM-102904-1DUP KWG0417717-2 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Gasoline Range Organics-NWTPH	250	8800	9500	9100	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00054

Confidential Business Information BRIX002600

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Extracted:**	11/08/2004
Sample Matrix:	Water	**Date Analyzed:**	11/08/2004

Lab Control Spike Summary
Gasoline Range Organics

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	NWTPH-Gx	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0417717

	Lab Control Sample KWG0417717-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Gasoline Range Organics-NWTPH	503	500	101	73-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00055

Confidential Business Information

Volatile Organic Compounds
EPA Method 8260B

00056

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-1
Lab Code: K2408696-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Chloromethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Vinyl Chloride	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Bromomethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Chloroethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Trichlorofluoromethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Acetone	ND	U	50	2.5	11/12/04	11/12/04	KWG0418187	
1,1-Dichloroethene	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Methyl tert-Butyl Ether	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Carbon Disulfide	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Methylene Chloride	ND	U	5.0	2.5	11/12/04	11/12/04	KWG0418187	
trans-1,2-Dichloroethene	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
1,1-Dichloroethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
2-Butanone (MEK)	ND	U	50	2.5	11/12/04	11/12/04	KWG0418187	
2,2-Dichloropropane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
cis-1,2-Dichloroethene	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Chloroform	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Bromochloromethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
1,1,1-Trichloroethane (TCA)	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
1,1-Dichloropropene	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Carbon Tetrachloride	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
1,2-Dichloroethane (EDC)	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Benzene	**4.0**	D	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Trichloroethene (TCE)	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
1,2-Dichloropropane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Bromodichloromethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Dibromomethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
2-Hexanone	ND	U	50	2.5	11/12/04	11/12/04	KWG0418187	
cis-1,3-Dichloropropene	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Toluene	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
trans-1,3-Dichloropropene	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
1,1,2-Trichloroethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
4-Methyl-2-pentanone (MIBK)	ND	U	50	2.5	11/12/04	11/12/04	KWG0418187	
1,3-Dichloropropane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	

Comments:

00057

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-1
Lab Code: K2408696-001

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Dibromochloromethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
1,2-Dibromoethane (EDB)	ND	U	5.0	2.5	11/12/04	11/12/04	KWG0418187	
Chlorobenzene	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
1,1,1,2-Tetrachloroethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Ethylbenzene	**82**	D	1.3	2.5	11/12/04	11/12/04	KWG0418187	
m,p-Xylenes	**100**	D	1.3	2.5	11/12/04	11/12/04	KWG0418187	
o-Xylene	**12**	D	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Styrene	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Bromoform	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Isopropylbenzene	**45**	D	5.0	2.5	11/12/04	11/12/04	KWG0418187	
1,1,2,2-Tetrachloroethane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichloropropane	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
Bromobenzene	ND	U	5.0	2.5	11/12/04	11/12/04	KWG0418187	
n-Propylbenzene	**140**	D	5.0	2.5	11/12/04	11/12/04	KWG0418187	
2-Chlorotoluene	ND	U	5.0	2.5	11/12/04	11/12/04	KWG0418187	
4-Chlorotoluene	ND	U	5.0	2.5	11/12/04	11/12/04	KWG0418187	
1,3,5-Trimethylbenzene	**110**	D	5.0	2.5	11/12/04	11/12/04	KWG0418187	
tert-Butylbenzene	ND	U	5.0	2.5	11/12/04	11/12/04	KWG0418187	
1,2,4-Trimethylbenzene	**560**	D	50	25	11/11/04	11/11/04	KWG0418187	
sec-Butylbenzene	**16**	D	5.0	2.5	11/12/04	11/12/04	KWG0418187	
1,3-Dichlorobenzene	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
4-Isopropyltoluene	ND	U	5.0	2.5	11/12/04	11/12/04	KWG0418187	
1,4-Dichlorobenzene	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
n-Butylbenzene	**39**	D	5.0	2.5	11/12/04	11/12/04	KWG0418187	
1,2-Dichlorobenzene	ND	U	1.3	2.5	11/12/04	11/12/04	KWG0418187	
1,2-Dibromo-3-chloropropane	ND	U	5.0	2.5	11/12/04	11/12/04	KWG0418187	
1,2,4-Trichlorobenzene	ND	U	5.0	2.5	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichlorobenzene	ND	U	5.0	2.5	11/12/04	11/12/04	KWG0418187	
Naphthalene	**230**	D	50	25	11/11/04	11/11/04	KWG0418187	
Hexachlorobutadiene	ND	U	5.0	2.5	11/12/04	11/12/04	KWG0418187	

Comments:

00058

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Volatile Organic Compounds

Sample Name:	BM-102904-1	**Units:**	ug/L
Lab Code:	K2408696-001	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	85-115	11/12/04	Acceptable
Toluene-d8	98	86-114	11/12/04	Acceptable
4-Bromofluorobenzene	107	72-115	11/12/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-2 MW-2
Lab Code: K2408696-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Vinyl Chloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichlorofluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Acetone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Disulfide	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methylene Chloride	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
2-Butanone (MEK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
2,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Tetrachloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Benzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichloroethene (TCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromodichloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
2-Hexanone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Toluene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,2-Trichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
1,3-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	

Comments:

Confidential Business Information BRIX002606

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-2 MW-2
Lab Code: K2408696-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Chlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Ethylbenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
m,p-Xylenes	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
o-Xylene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Styrene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromoform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Isopropylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
n-Propylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
2-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
4-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,3,5-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
tert-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,4-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
sec-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,3-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
4-Isopropyltoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,4-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
n-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,4-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Naphthalene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Hexachlorobutadiene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	

Comments:

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-2
Lab Code: K2408696-002

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	85-115	11/12/04	Acceptable
Toluene-d8	95	86-114	11/12/04	Acceptable
4-Bromofluorobenzene	96	72-115	11/12/04	Acceptable

Comments:

Confidential Business Information BRIX002608

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-3 MW-3
Lab Code: K2408696-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Vinyl Chloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichlorofluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Acetone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Disulfide	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methylene Chloride	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
2-Butanone (MEK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
2,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Tetrachloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Benzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichloroethene (TCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromodichloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
2-Hexanone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Toluene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,2-Trichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
1,3-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	

Comments:

Confidential Business Information BRIX002609

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-3 MW-3
Lab Code: K2408696-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,2-Dibromoethane (EDB)	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Chlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Ethylbenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
n,p-Xylenes	**1.1**		0.50	1	11/12/04	11/12/04	KWG0418187	
-Xylene	**1.0**		0.50	1	11/12/04	11/12/04	KWG0418187	
Styrene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromoform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
sopropylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,2,3-Trichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
-Propylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
,3,5-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
ert-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
,2,4-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
ec-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
,3-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
-Isopropyltoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
,4-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
,2-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
2-Dibromo-3-chloropropane	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
,2,4-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
,2,3-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Naphthalene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Hexachlorobutadiene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	

Comments:

00064

Confidential Business Information BRIX002610

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Volatile Organic Compounds

Sample Name:	BM-102904-3	**Units:**	ug/L
Lab Code:	K2408696-003	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	85-115	11/12/04	Acceptable
Toluene-d8	94	86-114	11/12/04	Acceptable
4-Bromofluorobenzene	97	72-115	11/12/04	Acceptable

Comments:

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-4
Lab Code: K2408696-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Vinyl Chloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichlorofluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Acetone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
,1-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Disulfide	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methylene Chloride	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
rans-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,1-Dichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
-Butanone (MEK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
is-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,1-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Tetrachloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,2-Dichloroethane (EDC)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Benzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichloroethene (TCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromodichloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
-Hexanone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
is-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Toluene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
rans-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,1,2-Trichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
,3-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	

omments:

00066

Confidential Business Information

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-4
Lab Code: K2408696-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Chlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Ethylbenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
m,p-Xylenes	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
o-Xylene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Styrene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromoform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Isopropylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
n-Propylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
2-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
4-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,3,5-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
tert-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,4-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
sec-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,3-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
4-Isopropyltoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,4-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
n-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,4-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Naphthalene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Hexachlorobutadiene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	

Comments:

00067

Confidential Business Information

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Volatile Organic Compounds

Sample Name:	BM-102904-4	**Units:**	ug/L
Lab Code:	K2408696-004	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	85-115	11/12/04	Acceptable
Toluene-d8	97	86-114	11/12/04	Acceptable
4-Bromofluorobenzene	96	72-115	11/12/04	Acceptable

Comments:

00068

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-5 MW-4dup
Lab Code: K2408696-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Vinyl Chloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichlorofluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Acetone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Disulfide	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methylene Chloride	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
2-Butanone (MEK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
2,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Tetrachloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Benzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichloroethene (TCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromodichloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
2-Hexanone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Toluene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,2-Trichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
1,3-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	

Comments:

Confidential Business Information BRIX002615

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-5
Lab Code: K2408696-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Chlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Ethylbenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
m,p-Xylenes	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
o-Xylene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Styrene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromoform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Isopropylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
n-Propylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
2-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
4-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,3,5-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
tert-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,4-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
sec-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,3-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
4-Isopropyltoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,4-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
n-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,4-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Naphthalene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Hexachlorobutadiene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	

Comments:

00070

Confidential Business Information BRIX002616

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Volatile Organic Compounds

Sample Name:	BM-102904-5	**Units:**	ug/L
Lab Code:	K2408696-005	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	85-115	11/12/04	Acceptable
Toluene-d8	97	86-114	11/12/04	Acceptable
4-Bromofluorobenzene	95	72-115	11/12/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Volatile Organic Compounds

Sample Name:	BM-102904-6 MW-7	**Units:**	ug/L
Lab Code:	K2408696-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Vinyl Chloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichlorofluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Acetone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Disulfide	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methylene Chloride	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
2-Butanone (MEK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
2,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Tetrachloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Benzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichloroethene (TCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromodichloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
2-Hexanone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Toluene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,2-Trichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
1,3-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	

Comments:

00072

Confidential Business Information BRIX002618

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-6 MW-7
Lab Code: K2408696-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Chlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Ethylbenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
m,p-Xylenes	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
o-Xylene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Styrene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromoform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Isopropylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
n-Propylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
2-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
4-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,3,5-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
tert-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,4-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
sec-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,3-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
4-Isopropyltoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,4-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
n-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,4-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Naphthalene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Hexachlorobutadiene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	

Comments:

00073

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Volatile Organic Compounds

Sample Name:	BM-102904-6	**Units:**	ug/L
Lab Code:	K2408696-006	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	103	85-115	11/12/04	Acceptable
Toluene-d8	95	86-114	11/12/04	Acceptable
4-Bromofluorobenzene	94	72-115	11/12/04	Acceptable

Comments:

00074

Confidential Business Information

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: BM-102904-7 MW-6
Lab Code: K2408696-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Vinyl Chloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichlorofluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Acetone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Disulfide	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methylene Chloride	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
2-Butanone (MEK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
2,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Tetrachloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Benzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichloroethene (TCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromodichloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
2-Hexanone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Toluene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,2-Trichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
1,3-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	

Comments:

00075

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Volatile Organic Compounds

Sample Name:	BM-102904-7 MW-6	**Units:**	ug/L
Lab Code:	K2408696-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Chlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Ethylbenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
m,p-Xylenes	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
o-Xylene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Styrene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromoform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Isopropylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
n-Propylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
2-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
4-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,3,5-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
tert-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,4-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
sec-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,3-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
4-Isopropyltoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,4-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
n-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,4-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Naphthalene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Hexachlorobutadiene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	

Comments:

Confidential Business Information BRIX002622

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Volatile Organic Compounds

Sample Name:	BM-102904-7	**Units:**	ug/L
Lab Code:	K2408696-007	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	85-115	11/12/04	Acceptable
Toluene-d8	94	86-114	11/12/04	Acceptable
4-Bromofluorobenzene	93	72-115	11/12/04	Acceptable

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: Trip 1
Lab Code: K2408696-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Vinyl Chloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichlorofluoromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Acetone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
,1-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Disulfide	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Methylene Chloride	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
rans-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,1-Dichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
-Butanone (MEK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
is-1,2-Dichloroethene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Chloroform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,1-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Carbon Tetrachloride	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,2-Dichloroethane (EDC)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Benzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Trichloroethene (TCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,2-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromodichloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromomethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
-Hexanone	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
is-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Toluene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
rans-1,3-Dichloropropene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
,1,2-Trichloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/12/04	11/12/04	KWG0418187	
,3-Dichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	

omments:

00078

Confidential Business Information

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: 10/29/2004
Date Received: 11/02/2004

Volatile Organic Compounds

Sample Name: Trip 1
Lab Code: K2408696-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Dibromochloromethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Chlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Ethylbenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
m,p-Xylenes	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
o-Xylene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Styrene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromoform	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Isopropylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichloropropane	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
Bromobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
n-Propylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
2-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
4-Chlorotoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,3,5-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
tert-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,4-Trimethylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
sec-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,3-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
4-Isopropyltoluene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,4-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
n-Butylbenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2-Dichlorobenzene	ND	U	0.50	1	11/12/04	11/12/04	KWG0418187	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,4-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
1,2,3-Trichlorobenzene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Naphthalene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	
Hexachlorobutadiene	ND	U	2.0	1	11/12/04	11/12/04	KWG0418187	

Comments:

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Volatile Organic Compounds

Sample Name:	Trip 1	**Units:**	ug/L
Lab Code:	K2408696-008	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	85-115	11/12/04	Acceptable
Toluene-d8	95	86-114	11/12/04	Acceptable
4-Bromofluorobenzene	95	72-115	11/12/04	Acceptable

Comments:

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0418187-4	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Chloromethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Vinyl Chloride	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Bromomethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Chloroethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Trichlorofluoromethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Acetone	ND	U	20	1	11/11/04	11/11/04	KWG0418187	
1,1-Dichloroethene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Methyl tert-Butyl Ether	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Carbon Disulfide	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Methylene Chloride	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
1,1-Dichloroethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
2-Butanone (MEK)	ND	U	20	1	11/11/04	11/11/04	KWG0418187	
2,2-Dichloropropane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Chloroform	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Bromochloromethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
1,1-Dichloropropene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Carbon Tetrachloride	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Benzene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Trichloroethene (TCE)	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
1,2-Dichloropropane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Bromodichloromethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Dibromomethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
2-Hexanone	ND	U	20	1	11/11/04	11/11/04	KWG0418187	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Toluene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
1,1,2-Trichloroethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/11/04	11/11/04	KWG0418187	
1,3-Dichloropropane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	

Comments:

Confidential Business Information BRIX002627

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0418187-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Dibromochloromethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
Chlorobenzene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Ethylbenzene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
m,p-Xylenes	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
o-Xylene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Styrene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Bromoform	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Isopropylbenzene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
1,2,3-Trichloropropane	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
Bromobenzene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
n-Propylbenzene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
2-Chlorotoluene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
4-Chlorotoluene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
1,3,5-Trimethylbenzene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
tert-Butylbenzene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
1,2,4-Trimethylbenzene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
sec-Butylbenzene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
1,3-Dichlorobenzene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
4-Isopropyltoluene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
1,4-Dichlorobenzene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
n-Butylbenzene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
1,2-Dichlorobenzene	ND	U	0.50	1	11/11/04	11/11/04	KWG0418187	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
1,2,4-Trichlorobenzene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
1,2,3-Trichlorobenzene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
Naphthalene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	
Hexachlorobutadiene	ND	U	2.0	1	11/11/04	11/11/04	KWG0418187	

Comments:

00082

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0418187-4	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	85-115	11/11/04	Acceptable
Toluene-d8	96	86-114	11/11/04	Acceptable
4-Bromofluorobenzene	95	72-115	11/11/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
BM-102904-1	K2408696-001	106	98	107
BM-102904-2	K2408696-002	106	95	96
BM-102904-3	K2408696-003	104	94	97
BM-102904-4	K2408696-004	100	97	96
BM-102904-5	K2408696-005	99	97	95
BM-102904-6	K2408696-006	103	95	94
BM-102904-7	K2408696-007	105	94	93
Trip 1	K2408696-008	107	95	95
Method Blank	KWG0418187-4	105	96	95
BM-102904-1MS	KWG0418187-1	105	102	109
BM-102904-1DMS	KWG0418187-2	101	100	107
Lab Control Sample	KWG0418187-3	103	102	106

Surrogate Recovery Control Limits (%)

Sur1 =	Dibromofluoromethane	85-115
Sur2 =	Toluene-d8	86-114
Sur3 =	4-Bromofluorobenzene	72-115

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

00084

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Extracted:**	11/12/2004
Sample Matrix:	Water	**Date Analyzed:**	11/12/2004

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name:	BM-102904-1	**Units:**	ug/L
Lab Code:	K2408696-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	KWG0418187

Analyte Name	Sample Result	BM-102904-1MS KWG0418187-1 Matrix Spike			BM-102904-1DMS KWG0418187-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,1-Dichloroethene	ND	248	250	99	235	250	94	66-147	6	30
Benzene	4.0	234	250	92	218	250	85	81-130	7	30
Trichloroethene (TCE)	ND	231	250	93	219	250	87	63-138	6	30
Toluene	ND	222	250	89	211	250	85	76-130	5	30
Chlorobenzene	ND	245	250	98	232	250	93	77-123	5	30
1,2-Dichlorobenzene	ND	241	250	96	229	250	91	73-125	5	30
Naphthalene	230	651	250	169 *	560	250	132	54-160	15	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00085

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Extracted:**	11/11/2004
Sample Matrix:	Water	**Date Analyzed:**	11/11/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method:	EPA 5030B	**Units:**	ug/L
Analysis Method:	8260B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0418187

	Lab Control Sample KWG0418187-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	12.4	10.0	124	52-179
Chloromethane	7.90	10.0	79	58-129
Vinyl Chloride	9.90	10.0	99	74-138
Bromomethane	9.79	10.0	98	48-140
Chloroethane	9.14	10.0	91	66-126
Trichlorofluoromethane	10.3	10.0	103	69-129
Acetone	42.3	50.0	85	68-140
,1-Dichloroethene	9.90	10.0	99	76-128
Methyl tert-Butyl Ether	10.0	10.0	100	67-117
Carbon Disulfide	18.1	20.0	90	69-147
Methylene Chloride	8.69	10.0	87	75-119
rans-1,2-Dichloroethene	9.96	10.0	100	79-118
,1-Dichloroethane	9.31	10.0	93	76-120
-Butanone (MEK)	41.6	50.0	83	75-129
,2-Dichloropropane	10.8	10.0	108	60-142
is-1,2-Dichloroethene	9.88	10.0	99	81-119
Chloroform	10.0	10.0	100	80-120
Bromochloromethane	10.4	10.0	104	79-125
,1,1-Trichloroethane (TCA)	10.5	10.0	105	80-127
,1-Dichloropropene	8.95	10.0	90	79-128
Carbon Tetrachloride	11.2	10.0	112	76-137
,2-Dichloroethane (EDC)	9.50	10.0	95	76-125
Benzene	9.05	10.0	91	87-122
Trichloroethene (TCE)	9.30	10.0	93	82-124
,2-Dichloropropane	8.78	10.0	88	80-117
Bromodichloromethane	10.4	10.0	104	81-120
Dibromomethane	9.44	10.0	94	81-121
-Hexanone	43.3	50.0	87	65-135
is-1,3-Dichloropropene	9.68	10.0	97	82-126
Toluene	8.89	10.0	89	84-120
rans-1,3-Dichloropropene	9.29	10.0	93	76-116
,1,2-Trichloroethane	9.19	10.0	92	80-120
-Methyl-2-pentanone (MIBK)	42.8	50.0	86	69-134
,3-Dichloropropane	9.60	10.0	96	82-119
Tetrachloroethene (PCE)	10.1	10.0	101	79-123
Dibromochloromethane	11.0	10.0	110	78-121

esults flagged with an asterisk (*) indicate values outside control criteria.

ercent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00086

Confidential Business Information BRIX002632

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696
Date Extracted: 11/11/2004
Date Analyzed: 11/11/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0418187

Analyte Name	Lab Control Sample KWG0418187-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	9.84	10.0	98	78-121
Chlorobenzene	9.56	10.0	96	85-114
1,1,1,2-Tetrachloroethane	11.3	10.0	113	85-122
Ethylbenzene	10.2	10.0	102	89-124
m,p-Xylenes	20.6	20.0	103	89-126
o-Xylene	10.3	10.0	103	86-129
Styrene	10.8	10.0	108	90-130
Bromoform	11.8	10.0	118	80-126
Isopropylbenzene	9.58	10.0	96	76-127
1,1,2,2-Tetrachloroethane	8.68	10.0	87	66-127
1,2,3-Trichloropropane	9.34	10.0	93	76-125
Bromobenzene	10.4	10.0	104	84-121
n-Propylbenzene	10.1	10.0	101	83-134
2-Chlorotoluene	10.4	10.0	104	81-131
4-Chlorotoluene	10.3	10.0	103	80-129
1,3,5-Trimethylbenzene	11.0	10.0	110	85-131
tert-Butylbenzene	10.7	10.0	107	81-132
1,2,4-Trimethylbenzene	11.5	10.0	115	86-138
sec-Butylbenzene	10.7	10.0	107	82-137
1,3-Dichlorobenzene	9.57	10.0	96	85-119
4-Isopropyltoluene	10.7	10.0	107	78-131
1,4-Dichlorobenzene	9.58	10.0	96	83-116
n-Butylbenzene	10.2	10.0	102	73-138
1,2-Dichlorobenzene	9.47	10.0	95	82-117
1,2-Dibromo-3-chloropropane	9.81	10.0	98	66-123
1,2,4-Trichlorobenzene	9.43	10.0	94	74-136
1,2,3-Trichlorobenzene	10.0	10.0	100	72-137
Naphthalene	11.4	10.0	114	64-145
Hexachlorobutadiene	10.7	10.0	107	75-130

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00087

Polynuclear Aromatic Hydrocarbons
EPA Method 8270C

00088

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BM-102904-1 mw-1	**Units:**	ug/L
Lab Code:	K2408696-001	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**160**	D	2.0	100	11/04/04	11/09/04	KWG0417405	
2-Methylnaphthalene	**42**	D	2.0	100	11/04/04	11/09/04	KWG0417405	
Acenaphthylene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Acenaphthene	**0.33**		0.020	1	11/04/04	11/07/04	KWG0417405	
Dibenzofuran	**0.085**		0.020	1	11/04/04	11/07/04	KWG0417405	
Fluorene	**0.23**		0.020	1	11/04/04	11/07/04	KWG0417405	
Phenanthrene	**0.32**		0.020	1	11/04/04	11/07/04	KWG0417405	
Anthracene	**0.070**		0.020	1	11/04/04	11/07/04	KWG0417405	
Fluoranthene	**0.21**		0.020	1	11/04/04	11/07/04	KWG0417405	
Pyrene	**0.60**		0.020	1	11/04/04	11/07/04	KWG0417405	
Benz(a)anthracene	**0.13**		0.020	1	11/04/04	11/07/04	KWG0417405	
Chrysene	**0.15**		0.020	1	11/04/04	11/07/04	KWG0417405	
Benzo(b)fluoranthene	**0.084**		0.020	1	11/04/04	11/07/04	KWG0417405	
Benzo(k)fluoranthene	**0.082**		0.020	1	11/04/04	11/07/04	KWG0417405	
Benzo(a)pyrene	**0.11**		0.020	1	11/04/04	11/07/04	KWG0417405	
Indeno(1,2,3-cd)pyrene	**0.044**		0.020	1	11/04/04	11/07/04	KWG0417405	
Dibenz(a,h)anthracene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Benzo(g,h,i)perylene	**0.055**		0.020	1	11/04/04	11/07/04	KWG0417405	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	65	37-107	11/07/04	Acceptable
Fluoranthene-d10	73	18-137	11/07/04	Acceptable
Terphenyl-d14	92	18-153	11/07/04	Acceptable

Comments:

00089

Confidential Business Information BRIX002635

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BM-102904-2 MW-2	**Units:**	ug/L
Lab Code:	K2408696-002	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.026**		0.020	1	11/04/04	11/08/04	KWG0417405	
2-Methylnaphthalene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Acenaphthylene	**0.021**		0.020	1	11/04/04	11/08/04	KWG0417405	
Acenaphthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Dibenzofuran	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Fluorene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Phenanthrene	**0.026**		0.020	1	11/04/04	11/08/04	KWG0417405	
Anthracene	**0.032**		0.020	1	11/04/04	11/08/04	KWG0417405	
Fluoranthene	**0.084**		0.020	1	11/04/04	11/08/04	KWG0417405	
Pyrene	**0.090**		0.020	1	11/04/04	11/08/04	KWG0417405	
Benz(a)anthracene	**0.043**		0.020	1	11/04/04	11/08/04	KWG0417405	
Chrysene	**0.060**		0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(b)fluoranthene	**0.080**		0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(k)fluoranthene	**0.061**		0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(a)pyrene	**0.10**		0.020	1	11/04/04	11/08/04	KWG0417405	
Indeno(1,2,3-cd)pyrene	**0.14**		0.020	1	11/04/04	11/08/04	KWG0417405	
Dibenz(a,h)anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(g,h,i)perylene	**0.18**		0.020	1	11/04/04	11/08/04	KWG0417405	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	65	37-107	11/08/04	Acceptable
Fluoranthene-d10	73	18-137	11/08/04	Acceptable
Terphenyl-d14	80	18-153	11/08/04	Acceptable

Comments:

Confidential Business Information BRIX002636

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BM-102904-3 MW-3	**Units:**	ug/L
Lab Code:	K2408696-003	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.040**		0.020	1	11/04/04	11/08/04	KWG0417405	
2-Methylnaphthalene	**0.024**		0.020	1	11/04/04	11/08/04	KWG0417405	
Acenaphthylene	**0.038**		0.020	1	11/04/04	11/08/04	KWG0417405	
Acenaphthene	**0.088**		0.020	1	11/04/04	11/08/04	KWG0417405	
Dibenzofuran	**0.020**		0.020	1	11/04/04	11/08/04	KWG0417405	
Fluorene	**0.039**		0.020	1	11/04/04	11/08/04	KWG0417405	
Phenanthrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Fluoranthene	**0.050**		0.020	1	11/04/04	11/08/04	KWG0417405	
Pyrene	**0.057**		0.020	1	11/04/04	11/08/04	KWG0417405	
Benz(a)anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Chrysene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(b)fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(k)fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(a)pyrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Dibenz(a,h)anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(g,h,i)perylene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	65	37-107	11/08/04	Acceptable
Fluoranthene-d10	71	18-137	11/08/04	Acceptable
Terphenyl-d14	87	18-153	11/08/04	Acceptable

Comments:

00091

Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BM-102904-4 MW-4	**Units:**	ug/L
Lab Code:	K2408696-004	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.054**		0.020	1	11/04/04	11/08/04	KWG0417405	
2-Methylnaphthalene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Acenaphthylene	**0.027**		0.020	1	11/04/04	11/08/04	KWG0417405	
Acenaphthene	**0.86**		0.020	1	11/04/04	11/08/04	KWG0417405	
Dibenzofuran	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Fluorene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Phenanthrene	ND	Ui	0.88	1	11/04/04	11/08/04	KWG0417405	
Anthracene	**0.024**		0.020	1	11/04/04	11/08/04	KWG0417405	
Fluoranthene	**0.020**		0.020	1	11/04/04	11/08/04	KWG0417405	
Pyrene	**0.038**		0.020	1	11/04/04	11/08/04	KWG0417405	
Benz(a)anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Chrysene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(b)fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(k)fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(a)pyrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Dibenz(a,h)anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(g,h,i)perylene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	63	37-107	11/08/04	Acceptable
Fluoranthene-d10	65	18-137	11/08/04	Acceptable
Terphenyl-d14	47	18-153	11/08/04	Acceptable

Comments:

Confidential Business Information

BRIX002638

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BM-102904-5	**Units:**	ug/L
Lab Code:	K2408696-005	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

MW-4 Dup

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.047**		0.020	1	11/04/04	11/08/04	KWG0417405	
2-Methylnaphthalene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Acenaphthylene	**0.023**		0.020	1	11/04/04	11/08/04	KWG0417405	
Acenaphthene	**1.1**		0.020	1	11/04/04	11/08/04	KWG0417405	
Dibenzofuran	**0.020**		0.020	1	11/04/04	11/08/04	KWG0417405	
Fluorene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Phenanthrene	ND	Ui	1.1	1	11/04/04	11/08/04	KWG0417405	
Anthracene	**0.030**		0.020	1	11/04/04	11/08/04	KWG0417405	
Fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Pyrene	**0.029**		0.020	1	11/04/04	11/08/04	KWG0417405	
Benz(a)anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Chrysene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(b)fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(k)fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(a)pyrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Dibenz(a,h)anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(g,h,i)perylene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	74	37-107	11/08/04	Acceptable
Fluoranthene-d10	70	18-137	11/08/04	Acceptable
Terphenyl-d14	59	18-153	11/08/04	Acceptable

Comments:

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Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BM-102904-6 MW-7	**Units:**	ug/L
Lab Code:	K2408696-006	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.083**		0.020	1	11/04/04	11/08/04	KWG0417405	
2-Methylnaphthalene	**0.041**		0.020	1	11/04/04	11/08/04	KWG0417405	
Acenaphthylene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Acenaphthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Dibenzofuran	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Fluorene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Phenanthrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Pyrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benz(a)anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Chrysene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(b)fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(k)fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(a)pyrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Dibenz(a,h)anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(g,h,i)perylene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	64	37-107	11/08/04	Acceptable
Fluoranthene-d10	68	18-137	11/08/04	Acceptable
Terphenyl-d14	94	18-153	11/08/04	Acceptable

Comments:

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Confidential Business Information

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	10/29/2004
Sample Matrix:	Water	**Date Received:**	11/02/2004

Polynuclear Aromatic Hydrocarbons

Sample Name:	BM-102904-7 MW-6	**Units:**	ug/L
Lab Code:	K2408696-007	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
2-Methylnaphthalene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Acenaphthylene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Acenaphthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Dibenzofuran	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Fluorene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Phenanthrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Pyrene	**0.023**		0.020	1	11/04/04	11/08/04	KWG0417405	
Benz(a)anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Chrysene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(b)fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(k)fluoranthene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(a)pyrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Dibenz(a,h)anthracene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	
Benzo(g,h,i)perylene	ND	U	0.020	1	11/04/04	11/08/04	KWG0417405	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	59	37-107	11/08/04	Acceptable
Fluoranthene-d10	74	18-137	11/08/04	Acceptable
Terphenyl-d14	76	18-153	11/08/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0417405-3	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8270C SIM		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
2-Methylnaphthalene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Acenaphthylene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Acenaphthene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Dibenzofuran	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Fluorene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Phenanthrene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Anthracene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Fluoranthene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Pyrene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Benz(a)anthracene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Chrysene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Benzo(b)fluoranthene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Benzo(k)fluoranthene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Benzo(a)pyrene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Dibenz(a,h)anthracene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	
Benzo(g,h,i)perylene	ND	U	0.020	1	11/04/04	11/07/04	KWG0417405	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	67	37-107	11/07/04	Acceptable
Fluoranthene-d10	71	18-137	11/07/04	Acceptable
Terphenyl-d14	94	18-153	11/07/04	Acceptable

Comments:

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Anchor Environmental
Project: Brix Maritme/990056-01
Sample Matrix: Water

Service Request: K2408696

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3535
Analysis Method: 8270C SIM

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
BM-102904-1	K2408696-001	65	73	92
BM-102904-2	K2408696-002	65	73	80
BM-102904-3	K2408696-003	65	71	87
BM-102904-4	K2408696-004	63	65	47
BM-102904-5	K2408696-005	74	70	59
BM-102904-6	K2408696-006	64	68	94
BM-102904-7	K2408696-007	59	74	76
Method Blank	KWG0417405-3	67	71	94
Lab Control Sample	KWG0417405-1	69	73	79
Duplicate Lab Control Sample	KWG0417405-2	64	74	78

Surrogate Recovery Control Limits (%)

Sur1 =	Fluorene-d10	37-107
Sur2 =	Fluoranthene-d10	18-137
Sur3 =	Terphenyl-d14	18-153

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Anchor Environmental	**Service Request:**	K2408696
Project:	Brix Maritme/990056-01	**Date Extracted:**	11/04/2004
Sample Matrix:	Water	**Date Analyzed:**	11/07/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method:	EPA 3535	**Units:**	ug/L
Analysis Method:	8270C SIM	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0417405

	Lab Control Sample KWG0417405-1 Lab Control Spike			Duplicate Lab Control Sample KWG0417405-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Naphthalene	2.13	2.50	85	2.10	2.50	84	44-101	2	30
2-Methylnaphthalene	2.07	2.50	83	1.94	2.50	78	36-106	6	30
Acenaphthylene	2.05	2.50	82	1.97	2.50	79	49-114	4	30
Acenaphthene	2.15	2.50	86	2.02	2.50	81	48-107	6	30
Dibenzofuran	2.35	2.50	94	2.24	2.50	89	40-115	5	30
Fluorene	2.13	2.50	85	1.99	2.50	80	55-111	7	30
Phenanthrene	2.13	2.50	85	2.08	2.50	83	56-108	3	30
Anthracene	2.16	2.50	87	2.19	2.50	88	42-117	1	30
Fluoranthene	2.30	2.50	92	2.29	2.50	92	61-123	0	30
Pyrene	1.99	2.50	79	2.14	2.50	86	53-123	8	30
Benz(a)anthracene	2.10	2.50	84	2.16	2.50	86	53-123	3	30
Chrysene	2.16	2.50	86	2.23	2.50	89	57-118	3	30
Benzo(b)fluoranthene	2.55	2.50	102	2.46	2.50	98	57-132	4	30
Benzo(k)fluoranthene	2.33	2.50	93	2.31	2.50	92	54-126	1	30
Benzo(a)pyrene	2.19	2.50	88	2.30	2.50	92	38-142	5	30
Indeno(1,2,3-cd)pyrene	2.45	2.50	98	2.32	2.50	93	49-139	6	30
Dibenz(a,h)anthracene	2.35	2.50	94	2.23	2.50	89	47-138	5	30
Benzo(g,h,i)perylene	2.39	2.50	96	2.27	2.50	91	50-125	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Appendix C
Data Validation Review

LABORATORY DATA REVIEW

BRIX Maritime

October 2004

This report presents a review of the samples collected from BRIX Maritime on October 29, 2004. Samples were analyzed by Columbia Analytical Services, Inc. (CAS), in Kelso, Washington. Laboratory SDG K2408696 was reviewed.

Data Qualifications

The following comments refer to the laboratory's performance in meeting the quality control (QC) specifications outlined in the analytical procedures and the Quality Assurance Project Plan (QAPP). Analytical results were reviewed using *USEPA National Functional Guidelines for Inorganics Data Review* (USEPA, 2002), and *USEPA National Functional Guidelines for Organics Data Review* (USEPA, 1999), and applying laboratory and method QC criteria.

The laboratory Sample Receipt Form states that the cooler temperatures were within ±4°C upon arrival at the laboratory. Sample transport and handling were acceptable.

Unless specifically noted in this report, laboratory results were within QC criteria.

Holding Times

All sample analyses were conducted within recommended holding times. No data were qualified due to these results.

Method Reporting Limits (MRLs)

The MRLs were acceptable.

Method Blanks

Method blanks were analyzed at the required frequency for all analyses. The method blanks were free of contamination. No data were qualified due to these results.

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Trip and Field Blanks

One trip blank was submitted with the samples and analyzed for VOCs. The trip blank was free of contamination. No data were qualified due to these results.

No field blanks were collected. No data were qualified due to these results.

Field Duplicates

One field duplicate was submitted with the samples; BM-102904-4 / BM-102904-5. The field duplicate results were comparable.

Surrogate Recoveries

Surrogate recoveries were reported for all organic analyses. Surrogate percent recoveries were within the control limits; no data were qualified due to these results.

Laboratory Duplicate Results

The laboratory analyzed duplicates at the required frequency. All lab duplicates were within acceptable RPD limits; no data were qualified due to these results.

Matrix Spike/Matrix Spike Duplicate Results

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were conducted at the required frequency. All MS/MSD and RPD results were within permissible levels with one exception. The naphthalene MS %R was 169% which is above the control limits of 54-160%. As the MSD and RPD were within the control limits, no data were qualified due to these results.

Laboratory Control Sample Results

Laboratory control sample (LCS) analyses were conducted at the required frequency. All LCS results were within permissible levels. No data were qualified due to these results.

Completeness

The results reported by the laboratory were checked against chain-of-custody entries to determine if all of the requested analyses were completed. All requested analyses were conducted.

Overall Assessment

The data are judged to be acceptable, without qualification.

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REFERENCES

USEPA. 1986. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA 530/SW-846.

USEPA. 2002. USEPA National Functional Guidelines for Inorganics Data Review. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency. EPA 540/R-01/008. July.

USEPA. 1999. USEPA National Functional Guidelines for Organics Data Review. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency. EPA 540/R-99/008. October.

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