Memo



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to: Steve Teel, LHG (Department of Ecology)

from: Shella Swain & Chris Waldron

cc: Kip Summers, P.E. (City of Olympia)

date: April 21, 2014

subject: Supplemental Sediment Sampling Results for the Solid Wood Incorporated Site

This technical memorandum presents the results of the supplemental sediment sampling event that was performed at the Solid Wood Incorporated Site (Site) located in Olympia, Washington. This sampling was conducted on behalf of the City of Olympia (City) under the Site's existing Agreed Order (No. DE-08-TCPSR-5415) in accordance with the supplemental sediment field sampling and analysis plan (FSAP), which is Addendum No. 7 to the work plan for the Site (PIONEER 2013; Parametrix 2008).

Samples were collected from 14 sample locations in the Focus Area identified in the FSAP (PIONEER 2013; Figure 1). The Focus Area was identified based on sampling and bioassay test results; specifically, sampling locations where concentrations of total petroleum hydrocarbons in the diesel fraction (TPH-D) and TPH in the heavy oil fraction (TPH-HO) exceeded the Washington State Department of Ecology (Ecology) derived screening level of 100 mg/kg and where the single failure of the bioassay tests occurred. The purpose of this supplemental sampling event was to identify which areas of the Focus Area are adequately characterized and which may need additional evaluation.

1 Background

Previous sediment investigations, conducted as part of the Remedial Investigation/Feasibility Study and Interim Actions (IAs), have characterized the concentrations of (1) Sediment Management Standards (SMS) constituents (Washington Administrative Code [WAC] 173-204-320—Table 1), and (2) TPH-D/TPH-HO in beach sediment adjacent to the upland area (Parametrix 2008, 2010, 2011a, 2011b). All constituent concentrations were below applicable SMS Chemical Criteria (i.e., WAC 173-204-320 or WAC 173-204-520); however, concentrations of the TPH-D/TPH-HO exceeded an Ecology-derived screening level of 100 milligrams per kilogram (mg/kg).

Additionally, previous sediment characterization efforts included three bioassay tests: 1) a 10-day amphipod solid phase survival test using *Eohaustorius estuarius*, 2) a sediment larval test using *Mytilus galloprovincialis*, and 3) a 20-day polychaete solid phase survival and growth test using *Neanthes arenaceodentata*. Only one sample location and a corresponding field duplicate (SD-30 and SD-30-DUP) failed one of the three bioassay tests (Figure 2). Three additional samples were collected at a later date from the SD-30 location and one of those samples (SD-33C) failed the sediment larval test as well (Parametrix 2011b). Consequently, Ecology required that the City collect additional samples to further characterize TPH-D/TPH-HO concentrations in beach sediment adjacent to the upland area near SD-30.

1.1 SCREENING LEVELS

Two screening levels were identified for evaluating TPH-D/TPH-HO at the Site based on the depth of the sediment sample. According to Ecology's Draft Sediment Cleanup User's Manual II, the typical biologically-active zone in the Puget Sound has been defined as the uppermost 10 centimeters (0.33 ft) of sediments, where the majority of marine benthic invertebrates are generally found (Ecology 2013). The Draft Sediment Cleanup User's Manual II also states that the biologically-active zone can be deeper at sites if receptors (e.g., geoduck [Panopea generosa], ghost shrimp [Callianassa californiensis]) are present at the site (Ecology 2013). However, there have been no





observations of these species in Site sediment. Consequently, it was appropriate to identify two separate TPH-D/TPH-HO screening levels for shallow and deep samples as discussed below:

- 1. **TPH-D/TPH-HO Screening Level for Shallow Sediment (0 0.5 ft bgs)**: The TPH-D/TPH-HO screening level for shallow sediment samples is 100 mg/kg, which is based on Ecology's direction that this value be used to characterize sediment in order to protect marine benthic invertebrates in the biologically active zone.
- 2. TPH-D/TPH-HO Screening Level for Deep Sediment (>0.5 ft bgs): According to Ecology's 2013 Draft Sediment Cleanup User's Manual II, an appropriate sediment screening level for deep samples was developed by evaluating potentially-exposed human populations at the Site (since the biologically-active zone is limited to shallow sediment as described above and MTCA does not include "default" sediment cleanup levels). The Site is now part of a city park, and the beach is typically not used for subsistence clam digging. Based on Ecology's 2013 Draft Sediment Cleanup User's Manual II, a beach play scenario most likely represents the reasonable maximum exposure to deep sediment for this Site (Ecology 2013). The beach play scenario assumes that a child is exposed to sediment via ingestion and dermal contact when digging in the sediment for 41 days/year for six years (see Table 9-2 in in Ecology's 2013 Draft Sediment Cleanup User's Manual II). Toxicity values are currently not available for TPH-D and TPH-HO so sediment cleanup levels for the beach play scenario could not be calculated. Therefore, for the purposes of this memo, the MTCA Method A Unrestricted soil cleanup level of 2,000 mg/kg for TPH-D and TPH-HO was used as the preliminary screening level for deep sediment samples. It should be noted that this is a preliminary screening level, and was used to delineate the extent of TPH-D and TPH-HO contamination in deep sediments at the Site for this memo only. The City may elect to develop a Site-specific sediment screening level in the RI/FS that is based on the beach play scenario, consistent with MTCA/SMS, as appropriate.

2 Supplemental Sediment Investigation

In accordance with the FSAP, 27 samples were collected from 14 locations in the Focus Area. Sampling was conducted during low tide on February 3rd, 2014 to February 5th, 2014, to ensure that the proposed sample locations were not under water. Surficial gravel was removed from the sampling locations prior to collecting the sediment samples. Surficial sediment samples were collected to a depth of half a foot below ground surface (bgs) with a trowel, and were mixed in a stainless steel bowl prior to being placed in a sample jar. Deep sediment samples were collected from two to three feet (ft) bgs using a hand auger. Sediment from the hand auger was mixed in a stainless steel bowl prior to being placed in a sample jar. The trowel, hand auger, and stainless steel bowls were decontaminated using Alconox and deionized water after each sample was collected. Field quality control guidelines were followed in accordance with the work plan for the Site (Parametrix 2008). One field duplicate was collected every 20 samples, per analysis¹. One equipment blank was collected every 20 samples. All samples were placed in a cooler and held at approximately four degrees Celsius until they were received by the project laboratory, Anatek Laboratories in Moscow, Idaho.

Surficial sediment samples were collected from all locations to assess the horizontal extent of contamination within the Focus Area. As required by Ecology, deep samples were also collected from 13 of the 14 shallow sediment sampling locations to assess the vertical extent of contamination. Per the FSAP, only seven of the 13 deep samples and one sample (SD-50 which is located proximate to SD-30/SD-30-DUP/SD-33C and is the location with the single bioassay failure), were analyzed immediately. The other six deep samples were archived and were only to be analyzed if the co-located surficial samples exceeded Ecology's 100 mg/kg TPH screening level. One additional surficial sample (SD-55) was intended to be archived but was inadvertently analyzed by the lab and the results are

¹ This is a slight deviation from the FSAP which stated that one field duplicate per day would be collected every 20 samples, per analysis.



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included in this report. Photos of sediment sampling activities are provided in Attachment 1 and sampling activity field logs are included in Attachment 2.

The sediment samples were shipped overnight to Anatek Laboratories in Moscow, Idaho for TPH-D and TPH-HO analysis via NWTPH-DX, and grain size analysis. Anatek Laboratories used method ASTM D422/ASTM D421 (with a #230 sieve) for the grain size analysis, which is the fixed laboratory analytical method equivalent to the field, wet sieve method stated in the FSAP². The analytical laboratory report is included in Attachment 3.

3 Supplemental Sediment Sampling Results

3.1 TOTAL PETROLEUM HYDROCARBON RESULTS

All beach sediment samples, with the exception of the six archived deep samples, were analyzed for TPH-D and TPH-HO. TPH-D/TPH-HO results are presented in Table 1. TPH-D was not detected in any of the samples. TPH-HO was detected in eight of the 21 samples (Figure 3). The detected TPH-HO results ranged from 106 mg/kg to 882 mg/kg. Per the FSAP, the six deep archived samples (collected from SD-42, SD-45, SD-46, SD-49, SD-52, and SD-54) were not analyzed because TPH-D and TPH-HO were not detected in the co-located shallow sample locations or because the TPH-D/TPH-HO concentrations in the co-located shallow samples were less than 100 mg/kg (PIONEER 2013). Field duplicate results for SD-WB-51-020314 and SD-WB-51-020314-(01) were comparable (i.e., the TPH-D was not detected and the TPH-HO results were 788 mg/kg and 975 mg/kg, respectively). The equipment blank sample (i.e., EB-WB-020514) was non-detect for TPH-D and TPH-HO.

3.2 GRAIN SIZE RESULTS

Grain size results are presented in Table 1. Grain size results are presented as the percentage of fine sediment (silt and clay) found within the sample and ranged from 1.1% to 13%.

4 Discussion and Evaluation

The purpose of this section is to discuss the extent of TPH-D/TPH-HO concentrations in sediment within the Focus Area relative to the appropriate screening levels.

4.1 COMPARISON OF SUPPLEMENTAL SAMPLING SEDIMENT RESULTS TO SCREENING LEVELS

4.1.1 Extent of Shallow Contamination

TPH-D was not detected in any of the shallow sediment samples. TPH-HO was detected in four of the 14 shallow sediment samples and all four samples exceeded the 100 mg/kg screening level. Samples with detected TPH-HO concentrations greater than Ecology's 100 mg/kg screening level were limited to the southern portion of the Focus Area (see Figure 3). The exceedances were delineated by SD-48 to the north, SD-53 to the south, SD-55 to the east, and SD-50 to the west. TPH-HO was not detected in the shallow samples in the northern portion of the Focus Area and the most southeastern portion of the Focus Area (SD-52 and SD-54).

4.1.2 Extent of Deep Contamination

TPH-D was not detected in any of the deep sediment samples. TPH-HO was detected in four of the seven deep samples; however, none of the detected concentrations exceeded the MTCA Method A Soil Cleanup Level of 2,000 mg/kg (the preliminary screening level for this memo; see Figure 3). TPH-HO detections in the deep samples were

² This is a slight deviation from the FSAP which stated that a field, wet sieve method would be used to determine grain size of the sediment samples.



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delineated by SD-48 to the north, SD-50 to the southwest, and SD-51 to the southeast. Additionally, TPH-HO was not detected in any of the samples northeast of SD-48 with the exception of SD-43, but it did not exceed the preliminary screening level.

4.2 COMPARISON OF GRAIN SIZE TO SAMPLING RESULTS

The TPH-HO results did not appear to correlate with sediment grain size (see Table 1 and the information presented below that demonstrates that TPH-HO concentrations were not correlated with grain size).

Sample	Grain Size	TPH -HO Concentration (mg/kg)
SD-42 (0 – 0.5 ft bgs)	1. 1%	Not Detected
SD-50 (0 – 0.5 ft bgs)	3.3%	309
SD-44 (2 – 3 ft bgs)	13%	Not Detected
SD-51 (2 – 3 ft bgs)	12%	882

4.3 COMPARISON OF PREVIOUS SAMPLING RESULTS AND PREVIOUS BIOASSAY TESTS

An additional evaluation was performed to determine if a clear dose response relationship could be identified for TPH-D/TPH-HO concentrations and bioassay test results. The TPH-D/TPH-HO concentrations from previously collected sediment samples were compared to previous bioassay test results from the same locations (see Table 2 and Figure 4). Nine bioassays tests were performed on samples with a range of TPH-D/TPH-HO concentrations (81 mg/kg to 563 mg/kg; Parametrix 2008, 2010, 2011a, 2011b). Only three of the nine sediment samples failed a bioassay test and all three bioassay failures occurred at the same location (i.e., SD30, SD30 (dup), and SD33C where collected from the same location). The lowest TPH-D/TPH-HO concentration that failed a bioassay test was 320 mg/kg (i.e., SD30); however, three samples had TPH-D/TPH-HO results greater than or equal to 320 mg/kg also passed all of the bioassay tests (see Table 2 and Figure 4):

- 1. SD26/27: TPH-D/TPH-HO = 320 mg/kg and passed all bioassay tests
- 2. SDD29: TPH-D/TPH-HO = 417 mg/kg and passed all bioassay tests
- 3. SD25: TPH-D/TPH-HO = 490 mg/kg and passed all bioassay tests

Based on the conflicting TPH-D/TPH-HO results and bioassay test results presented above, the Site-specific dose-response relationship between TPH-D/TPH-HO concentrations and bioassay results is uncertain. It is possible that SD-30/SD-30 (DUP)/SD-33C failed a bioassay test because of the TPH-D concentrations in the samples (TPH-D was detected in each of these samples at concentrations ranging from 50 mg/kg to 93 mg/kg). However, this is uncertain because similar TPH-D concentrations were detected in two of the samples that passed the bioassay tests (SD28: TPH-D = 37 mg/kg and SD29: TPH-D = 87 mg/kg). Alternatively, SD-30/SD-30 (Dup)/SD-33C may have failed the bioassay tests because the locations may be more representative of upland conditions and do not provide suitable habitat for the organisms used in the bioassays.

5 Conclusions and Recommendations

TPH-D was not detected in any supplemental sediment sample; therefore, the Focus Area is adequately characterized for TPH-D. Detected TPH-HO concentrations were primarily limited to the southern portion of the Focus Area for both shallow and deep samples. Four of the 21 samples had concentrations that exceeded screening levels and all exceedances were observed in shallow sediment samples (see Figure 3). An additional evaluation of previous bioassay test and sampling results indicated that the dose-response relationship between TPH-D/TPH-HO and bioassay results is uncertain.





Based on current and previous results, additional characterization (via sediment chemistry and bioassays) of the southern portion of the Focus Area is recommended. The purpose of the bioassay tests is to refine that dose-response relationship between the TPH-D/TPH-HO concentrations and bioassay results in order to finalize delineation of the Focus Area and, if possible, develop a Site-specific shallow sediment remediation level for the Site based on protection of benthic invertebrates. Specifically, four bioassays are recommended in the area where the TPH-HO exceedances were identified and a previous bioassay test failed (see Figure 4). Three of the recommended bioassay locations (SD-56, SD-57, and SD-58) are spaced evenly between the northern and southern TPH-HO delineation boundary. The fourth recommended bioassay location (SD-59) is located on the eastern edge of the delineation boundary. All of the recommended bioassay locations were placed further into the intertidal zone (i.e., further than SD-30/SD-30 (Dup)/SD-33C), which should provide more suitable habitat for the organisms used in the bioassays.

If Ecology approves this proposal, a FSAP will be prepared within 30 days, samples will be collected within 30-60 days of FSAP approval, and then a report will be submitted within 45 days of receiving the bioassay results.

6 References

- Ecology. 2013. Draft Sediment Cleanup User's Manual II. Publication no. 12-09-057. Olympia, Washington. December.
- Parametrix. 2008. Work Plan for Remedial Investigation/Feasibility Study and Interim Action Solid Wood Incorporated Site (West Bay Park). Olympia, Washington. October.
- Parametrix. 2010. Solid Wood Incorporated Site (West Bay Park) Interim Action Report. Olympia, Washington. September.
- Parametrix. 2011a. Solid Wood Incorporated Site RI/FS and IA Work Plan Addendum No. 4 Supplemental Post Piling Removal Sediment Sampling and Analysis Plan. Olympia, Washington. March.
- Parametrix. 2011b. Results of Supplemental Post Piling Removal Sediment Sampling. Olympia, Washington. August.
- PIONEER. 2013. Addendum No. 7 to the Work Plan for the RI/FS and IA for the Solid Wood Incorporated Site Supplemental Sediment Field Sampling and Analysis Plan. Olympia, Washington. October.

ATTACHMENTS

Tables

Table 1: Supplemental Sediment Sampling Results

Table 2: Previous Sediment Sampling Results

Figures

Figure 1: Supplemental Sediment Sampling Locations

Figure 2: Previous TPH and Bioassay Results

Figure 3: TPH-HO Results

Figure 4: Recommended Bioassay Locations

Attachment 1: Photo Log Attachment 2: Field Logs

Attachment 3: Analytical Laboratory Report



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Tables

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Table 1: Supplemental Sediment Sampling Results

Commis	Depth (ft bgs)	TPH-D (mg/kg)	TPH-HO (mg/kg)	Grain Size (% fines)
Sample				
SD-42	0 - 0.5	25 U	100 U	1.1
SD-43	0 - 0.5	25 U	100 U	2.3
	2 - 3	50 U	351	2.7
SD-44	0 - 0.5	25 U	100 U	6.5
00 44	2 - 3	25 U	100 U	13
SD-45	0 - 0.5	25 U	100 U	2.3
SD-46	0 - 0.5	25 U	100 U	5.8
SD-47	0 - 0.5	25 U	100 U	4.2
3D-41	2 - 3	25 U	100 U	5.9
SD-48	0 - 0.5	25 U	117	3.6
3D-40	2 - 3	25 U	200	5.4
SD-49	0 - 0.5	50 U	200 U	4.5
SD-50	0 - 0.5	25 U	309	3.3
30-30	2 - 3	25 U	196	2.2
SD-51	0 - 0.5	25 U	100 U	4.4
30-31	2 - 3	100 U	882	12
SD-52	0 - 0.5	25 U	100 U	5.9
SD-53	0 - 0.5	25 U	115	3.6
อบ-ขอ	2 - 3	25 U	100 U	5.3
SD-54	0 - 0.5	25 U	100 U	1.4
SD-55	0 - 0.5	25 U	106	2.0

Notes:

U: Non-detect

Shaded cells indicate the concentration exceeded its respective screening level (based on depth):

⁻Shallow (0 - 0.5 ft bgs): Ecology's screening level, 100 mg/kg
-Deep (2-3 ft bgs): MTCA Method A Soil Cleanup Level for unrestricted land use, 2,000 mg/kg



Table 2: Previous Sediment Sampling Results

Sadimont Samula	Sample Depth	Commis Data	TPH-D	TPH-HO	Total TPH ¹	Pass/Fail Biological	Grain Size
Sediment Sample	(ft bgs)	Sample Date	(mg/kg)	(mg/kg)	(mg/kg)	Criteria?	(% fines)
SD12	0 - 0.3	5/28/08	32 U	64 U	64 U	NA	NA
SD12	2-3	5/28/08	50 U	200	200	NA	NA
SD14	0 - 0.3	5/28/08	32 U	95	95	NA	NA
SD14	2 - 3	5/28/08	150 U	1040	1,040	NA	NA
SD15	0 - 0.3	5/28/08	30 U	150	150	NA	NA
SD15	2 - 3	5/28/08	36 U	72 U	72 U	NA	NA
SD16	0 - 0.3	5/28/08	58 U	590	590	NA	NA
SD16	0 - 0.3	5/28/08	86	460	546	NA	NA
SD17	0 - 0.3	5/28/08	63 U	140	140	NA	NA
SD17 (dup)	2 - 3	5/28/08	64 U	270	270	NA	NA
SD17	2 - 3	5/28/08	66	330	396	NA	NA
SD23	0 - 0.3	6/3/08	57 U	150	150	NA	NA
SD23 (dup)	0 - 0.3	6/3/08	54 U	110	110	NA	NA
SD23	2 - 3	6/3/08	49 U	160	160	NA	NA
SD24	0 - 0.3	6/3/08	51 U	270	270	NA	NA
SD24	2 - 3	6/3/08	53	290	343	NA	NA
SD25	0.5	9/28/09	68 U	490	490	Pass	48
SD26/27	0.5	9/28/09	63 U	320	320	Pass	NA
SD28	0.5	9/28/09	37	99	136	Pass	42
SD29	0.5	9/28/09	87	330	417	Pass	26
SD32C	0.5	4/19/11	28 U	110	110	Pass	24
SD30	0.5	9/28/09	50 J	320	320	Fail	17
SD30 (dup)	0.5	9/28/09	77 J	370	447	Fail	21
SD31	0.5	9/28/09	17 U	81	81	Pass	31
SD33A	0.5	4/19/11	18 U	78	78	NA	NA
SD33A (dup)	0.5	4/19/11	22 J	130	152	NA	NA
SD33B	0.5	4/19/11	65 J	340	405	NA	NA
SD33C	0.5	4/19/11	93 J	470	563	Fail	9.0
SD34	0.5	7/19/12	180 U	1,500	1,500	NA	NA
SD35	0.5	7/19/12	45 U	310	310	NA	NA
SD35 (dup)	0.5	7/19/12	38 U	120	120	NA	NA
SD36	0.5	7/19/12	51 U	520	520	NA	NA
SD37	0.5	7/19/12	64	380	444	NA	NA
SD38	0.5	7/19/12	35 U	140	140	NA	NA
SD39	0.5	7/19/12	42 U	190	190	NA	NA
SD40	0.5	7/19/12	66	380	446	NA	NA
SD41	0.5	7/19/12	61	320	381	NA	NA
SD-42	0.5 - 1	2/5/14	13 U	50 U	50 U		1.1
SD-43	0.5 - 1	2/4/14	13 U	50 U	50 U		2.3
SD-43	2 - 3	2/4/14	25 U	351	351		2.7
SD-44	0.5 - 1	2/4/14	13 U	50 U	50 U		6.5
SD-44	2 - 3	2/5/14	13 U	50 U	50 U		13
SD-45	0.5 - 1	2/4/14	13 U	50 U	50 U		2.3
SD-46	0.5 - 1	2/4/14	13 U	50 U	50 U		5.8
SD-47	0.5 - 1	2/4/14	13 U	50 U	50 U		4.2
SD-47 SD-47	2 - 3	2/4/14	13 U	50 U	50 U		5.9
SD-47 SD-48	0.5 - 1	2/3/14	13 U	117	117		3.6
SD-48	2 - 3	2/3/14	13 U	200	200		5.4
SD-48 SD-49	0.5 - 1	2/4/14	25 U	100 U	100 U		4.5
SD-49 SD-50	0.5 - 1	2/3/14	13 U	309	309		3.3
SD-50 SD-50	2 - 3	2/3/14	13 U	196	196		2.2
SD-51	0.5 - 1	2/3/14	13 U	50 U	50 U		4.4
SD-51	2-3	2/3/14	50 U	882	882		12
SD-52	0.5 - 1	2/3/14	13 U	50 U	50 U		5.9
SD-53	0.5 - 1	2/4/14	13 U	115	115		3.6
SD-53	2 - 3	2/4/14	13 U	50 U	50 U		5.3
SD-54	0.5 - 1	2/3/14	13 U	50 U	50 U		1.4
SD-55	0.5 - 1	2/3/14	13 U	106	106	<u> </u>	2.0

Notes:

J: Concentration presented is estimated.

O. Not retered:

Shaded cells indicate the concentration exceeded its respective screening level (based on depth):

-Shallow (0 - 0.5 ft bgs): Ecology's screening level, 100 mg/kg

-Deep (0.5 - 1 ft bgs & 2 - 3 ft bgs): MTCA Method A Soil Cleanup Level for unrestricted land use, 2,000 mg/kg

'SMS Criteria compound totaling rules (WAC 173-204-320) were applied to Total TPH concentrations:

-Where only nontected values were identified, the highest detection limit represents the sum of the respective compounds/isomers; and

-Where one or more individual compounds/isomers were identified, only the detected concentrations are summed to represent the group sum.

Figures

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Previous TPH and Bioassay Results
Supplemental Sediment Sampling Results for the Solid Wood Incorporated Site
Olympia, Washington

Figure 2

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Recommended Bioassay Locations
Supplemental Sediment Sampling Results for the Solid Wood Incorporated Site
Olympia, Washington

Figure 4

Attachment 1

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Photo No. 1: Sediment

from SD-42

Date: 2/5/2014

Direction Photo Taken: NA

Description:

Sediment from the shallow sample at SD-42. Coarse sand texture with minimal amount of rocks.



Photo No. 2: SD-42 Sample Location

Date: 2/5/2014

Direction Photo Taken: NA

Description:

Deep sample at SD-42.





Photo No. 3: SD-44 Sample Location

Date: 2/5/2014

Direction Photo Taken: NA

Description:

Sample location at SD-44. The sediment was extremely saturated and lighter in color with a high amount of large stones, shell, and clay.



Photo No. 4: SD-45 Sample Location

Date: 2/4/2014

Direction Photo Taken: NA

Description:

Sample location at SD-45. The sediment was extremely saturated and the sample hole filled with water. Large rocks were present throughout the sample. There was a high amount of biological activity including crabs and invertebrates.





Photo No. 5: SD-46 Sample Location

Date: 2/4/2014

Direction Photo Taken: NA Description:

The shallow sample at SD-46. There was a small amount of pebbles and a high amount of organic matter.



Photo No. 6: SD-47 Sample Location

Date: 2/4/2014

Direction Photo Taken: NA

Description:

Sample location at SD-47. SD-47 had a high amount of biological activity, including barnacles and crabs.





Photo No. 7: SD-48 Sample Location

Date: 2/3/2014

Direction Photo Taken: NA Description:

Sample location at SD-48. The sample was dark brown and contained a high amount of organic matter, including bark.



Photo No. 8: SD-49 Sample Location

Date: 2/4/2014

Direction Photo Taken: NA

Description:
SD-49 had a high
amount of large stones
and a high amount of
crabs and invertebrate
activity.





Photo No. 9: Sediment from SD-49

Date: 2/4/2014

Direction Photo Taken: NA

Description:

Sediment from SD-49 contained a high amount of large stones.



Photo No. 10: SD-50 Sample Location

Date: 2/3/2014

Direction Photo Taken: NA

Description:

SD-50 had a slight sheen when water pooled in the sample hole. There was minimal rock and shell, and a high amount of organic material.





Photo No. 11: SD-52 Sample Location

Date: 2/3/2014

Direction Photo Taken: NA

Description:Slight sheen visible in the pooled water.

Large rocks and bricks were present in the deep sample.



Photo No. 12: SD-53 Sample Location

Date: 2/4/2014

Direction Photo Taken: NA

Description:

SD-53 sediment had a spongy texture and a large amount of small pebbles.





Photo No. 13: SD-54 Sample Location

Date: 2/3/2014

Direction Photo Taken: NA

Description:

There was a sheen present on the pooled water. Large rocks and shells were present in the shallow sample.



Photo No. 14: SD-55 Sample Location

Date: 2/3/2014

Direction Photo Taken: NA

Description:

SD-55 sediment was dark gray sand with a high amount of shell and wood particles, and large mussels.



Attachment 2

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PIONEER DAILY FIELD REPORT

	ite Location: W	est bay	Site Arrival Time:/	<u>: 40</u> si	te Departure Time :
	Clear Sun	Overcast	Drizzle	Rain	Snow
EATHER	To 32	32-50	50-70	70-85	85 Up
EMPERATURE 'IND	Calm	Wied.	Strong	Severe	
	L	F			
EOPLE PRESENT ON		NAME	ASSOCIATION		TIME ON-SITE AND OFF-S
		lla Swain	PIONER		1:40 - 5:30
	Dar	11el Buttain	provers		1:40 -5:30
			Contraction Contra		1. Water 1.
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TES ON WORK COM					
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2.117	1	U			
2,:47	1	U			2 W CD-57
2,:47	1	U	t backs du 8.50 while Dib du		p @ 50-57
	SD-SI SN SS beg	iallow at 2 m shallow			ρ (ω so-sz
7. 47 415	5D-51 SN SS belg	iallow at 2 an shallow	5.50 While Dis du	y deg	p @ 50-52
	5D-51 SN SS begg SD-51 De -Mosku	iallow at 2 ym shallow es and, som	s.50 while Dis du	y deg	p (SO-57
4.15	5D-51 SN SS beg SD-51 De -Mosky	iallow at a your shallow er sand, som or or shown se	s.50 while Dis du	y deg	p (SD-52
	5D-51 SN SS beg SD-51 De -Mosky	iallow at 2 ym shallow es and, som	s.50 while Dis du	y deg	p @ 50-52
4:15	5D-51 SN SS beg SD-51 De -Mosky	iallow at a your shallow er sand, som or or shown se	s.50 while Dis du	g deg	p @ 50-52

PIONEER DAILY FIELD REPORT

EATHER TO TO STATE THE PROPERTY OF THE CHART	ate:) 3 14	Site Location:	West Bay	Site Arrival Time:	Site Depa	arture Time : <u>5:3</u>
MERATURE TOTAL					- L Poin	I Snow
MPERATURE ND COPIE PRESENT ON SITE NAME ASSOCIATION TIME UNSITE AND OFF-SITE DATE OF THE WITH THE PLEATED THE UNSITE AND OFF-SITE STEPLE SHELLE SHELL STEPLE STORY THE DATE OF STEPLE THE UNSITE AND OFF-SITE DATE OF STEPLE THE UNSITE AND OFF-SITE NO THE UNSITE AND OFF-SITE DATE OF STEPLE THE UNSITE AND OFF-SITE THE UNSITE AND OFF-	/EATHER	Clear Sun			e '	
SOPLE PRESENT ON SITE NAME NAME ASSOCIATION TIME UNSITE AND OFF STREET STRELLA SILL AND PLANTING STREET STRELLA SILL AND PLANTING STREET THE ST		10 32	32-50)			
THE ON-SITE NAME ASSOCIATION THE ON-SITE AND OFF-SITE ON WORK COMPLETED STES ON WORK COMPLETED 4 4 35 5D 50 Shallow 4 1 10 Shell The order The order or sheen visible TO order or sheen visible		Calm	Med	Strong		
Discrete Britain PleNoth 1.40 - 5.50 Shella Sminn YIBNAM 1.47 - 5.50 TES ON WORK COMPLETED 4. \$35 5D 50 shallow 4. 1.410 - light sheen - no der - minimal rick/shell - lots or organic makerial 5.00 SD -48 shallow 5.00 SD -48 shallow - went rockey are - man amounts of berk - no odor or sheen visible.		N_SITE	NAME	ASSOCIATION	TIME	ON-SITE AND OFF-SITE
Shella Shiella Shiella 192-5:30 TES ON WORK COMPLETED 4: \$35 50.50 shallow 4: 40 deep - light sheen - light sheen - liets or organ Makenal 5:00 5:00 Sp. 48 shallow 5:00 Sp. 48 shallow 5:00 Sp. 48 shallow - high amounts of back - ho odor or sheen visible - no odor or sheen visible	TOPLE PRESENT O		2181 1214011	PICNOPIC	1:46	- 5:30
TIES ON WORK COMPLETED 4. \$\frac{4}{35}\$ \$50.50 \$hallow 4. \$\frac{1}{35}\$ \$50.50 \$hallow				VILIXAI	; ; ,	10 -5130
4:435 SD. 50 shallow 4:410 halt sheen hot of or organ: making 5:00 U.50 SD-48 Shallow 5:00 SD. 45 deep very rolky-higher on beach in and rocky are high amounts of bark no odor or sheen visible.			CECCO SICTOR			
4:435 SD.50 shallow 4:400 halt sheen no edox minimal rick/shell lots or organ making 1:50 SD-48 shallow 5.00 SD-48 shallow went rocky migher on beach in and ricky are man amounts of bark no odor or sheen visible						
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4:435 SD-50 shallow 4:435 SD-50 shallow hight sheen ho clar minimal rick/shell lots or organ material 8:00 SD-48 shallow 5.00 SD-48 shallow wery rolky-higher on beach in and ricky are man amounts of barrk no odor or sheen visible						
4:435 SD.50 shallow 4:410 halt sheen no edor minimal rick/shell lote of organ material 5:00 SD-48 shallow 5:00 SD-48 shallow very rolly-magner on beach in and ricky and man amounts of barre no odor or sheen visible.	TES ON WORK CO	MDI ETED				
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- light sheen - no stor - minimal rick/shell - lots of organic Makenal 5:00 SD-48 Shellow 5:00 SD-48 Shellow - very ricky-higher on beach in and ricky and - high amounts of bank - no odor or sheen visible. DATE: 2/3/14		<u>/U 50 X</u>	1010			
- No select - Munimal rick/shell - lots of organic material 5:00 SD-48 Shallow 5:00 SD-48 Shallow - Very rocky-higher on beach in get ricky are - men amounts of bark - no odor or sheen visible DATE: 2/3/14	4.40		reg			
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- No sector - Munimal rick/shell - lots of organic Material 5:00 SD-48 Shallow 5:00 SD-48 Shallow - Very ricky-higher on beach in sectrocky are - high amounts of bark - no odor or sheen visible DATE: 2/3/14		- light	sh een			
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- lots of organic Material 5:00 SD-48 Shallow 5:00 SD-48 Shallow - very rocky-maner on beach in and rocky are - man amounts of bark - no odor or sheen visible. DATE: 2/3/14			1 ack shell			
5.00 SD-48 Shallow 5.00 SD-48 Shallow - Very rocky-maner on beach in gedracky are - man amounts of bark - no odor or sheen visible. DATE: 2/3/14				10:00		
5.00 SD-48 Shallow 5.00 SD-48 Shallow -Very rocky - Maner on beach in sectoricky are - Mananists of bark - no odor or sheen visible	·	- 10ts of	organic Ma	ter ag		
5.00 SD-48 Shallow 5.00 SD-48 Shallow - Very rolky-maner on beach in sectority are - man amounts of bark - no odor or sheen visible			<u> </u>			
5.00 SD-48 Shallow 5.00 SD-48 Shallow - Very rolky-maner on beach in sectority are - man amounts of bark - no odor or sheen visible. DATE: 2/3/14	Si-Ar)					
- Very niky-higher on beach in ged rocky are - high amounts of bark - no odor or sheen visible.		SD -40 1	1-01(CO)			
- Very niky-maker on beach in and rocky are - man amounts of bark - no odor or sheen visible.						
- man amounts of bark - no odor or sheen visible. DATE: 2/3/14	5.00	30 - 93	acer-			
- man amounts of bark - no odor or sheen visible. DATE: 2/3/14				\- ^		MCV and
- man amounts of bark - no odor or sheen visible. DATE: 2/3/14		- Very	wikey - mal	ner on black	n un 400	rocky are
-no odor or sheen visible		- hran		bark		
DATE 2/3/14		- 10	do = or chec			
DATE 2/3/14		<u> </u>	DOV BY SIEE	N V-CS CF)		
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	SIGNATURE:	() $()$ $()$ $()$	/e		DATE 2	3/14

PIONEER DAILY FIELD REPORT

/EATHER	Cyfear Sup	Overcast	Drizzle	Rain	Snow
MPERATURE	10 32	32-50	50-70	70-85	85 Up
ND	Calm	Med.	Strong	Severe	
			A.V.C.V.II.A.T.V.III.		TIME ON SITE AND OFF SITE
OPLE PRESENT ON		NAME	ASSOCIATION		TIME ON-SITE AND OFF-SITE
		H SWALN	PLONETR		1:30 -6:00
	DAIL	el Buttern	VICIOLAR		1190 0.00
	· · · · · · · · · · · · · · · · · · ·				
ES ON WORK COM	IPLETED				
P-53		11'1-			
F -63	shallow	4110			
		· · / ~ ~			
-larg					
- Spr	ngy 4 XT	UPP			
-110		x oder			
- 1/1/		1			
	asi pepi	065			
100		265			
100	p 5:30		110/ 1/2 4 1	11/65	+ high amo
100	p 5:30		ind dee to		thigh amo
	0 5:30 0 54 6av	upu volu	ind dec to 1	11/65	thigh amor fuguel
	0 5:30 0 54 6av		ind det to		
	1 - 1 - 20 - 5:30 - 25 - 50 V	14:50	ind drig to l		
	1 5:30 2 54 6av 3 hallow	upu volu 4:50	ind dec to		
)-116 =	p 5:30 less sav shallow - Largy a - spongy	14:50 AND CITE EXTRE			
)-116 =	1 5:30 2 54 6av 3 hallow	upu volu 4:50			
D-116 5	p 5:30 less sav shallow - Largy a - spongy	14:50 AND CITE EXTRE			
D-116 5	DEST GAV DEST GAV CARACTER SPENSON	14:50 4:50 AND CITE Extre iv clear			
D-416 5	p 5:30 less sav shallow - Largy a - spongy	4:50 Ach cite Exhie iv cher			
D-416 5	DEST GAV DEST GAV CARACTER SPENSON	4:50 Ach cite Exhie iv cher			
D-116 5	DEST GAV DEST GAV CARACTER SPENSON	4:50 Ach cite Exhie iv cher			
D-416 5	p 5:30 (DSG GAV Shallow - Laryl gi - Sponggi - no oder	4:50 Ach cite Exhie iv cher			
D-116 5	p 5:30 (DSG GAV Shallow - Laryl gi - Sponggi - no oder	4:50 Ach cite Exhie iv cher			
D-116 =	p 5:30 (DSG GAV Shallow - Laryl gi - Sponggi - no oder	4:50 Ach cite Exhie iv cher			
)-116	p 5:30 (DSG GAV Shallow - Laryl gi - Sponggi - no oder	4:50 Ach cite Exhie iv cher			
)-116	p 5:30 (DSG GAV Shallow - Laryl gi - Sponggi - no oder	4:50 Ach cite Exhie iv cher			
)-116	p 5:30 (DSG GAV Shallow - Laryl gi - Sponggi - no oder	4:50 Ach cite Exhie iv cher			
)-116	p 5:30 (DSG GAV Shallow - Laryl gi - Sponggi - no oder	4:50 Ach cite Exhie iv cher			
)-116	p 5:30 (DSG GAV Shallow - Laryl gi - Sponggi - no oder	4:50 Ach cite Exhie iv cher			
)-116	p 5:30 (DSG GAV Shallow - Laryl gi - Sponggi - no oder	4:50 Ach cite Exhie iv cher			
)-116	p 5:30 (DSG GAV Shallow - Laryl gi - Sponggi - no oder	4:50 Ach cite Exhie iv cher			
D-116 5	p 5:30 (DSG GAV Shallow - Laryl gi - Sponggi - no oder	4:50 Ach cite Exhie iv cher			

PIONEER DAILY FIELD REPORT

					1.112	· · · · · · · · · · · · · · · · · · ·
VEATHER	Clear	-	Overcast	Drizzle	Ráin	Snow
TEMPERATURE	To 32		32-50	50-70	70-85	85 Up
VIND	Calm		Med.	Strong	Severe	
EOPLE PRESENT O	N-SITE		NAME	ASSOCIATION		TIME ON-SITE AND OFF-SI
		Shella	Swain	PLONKER	1:	36 -6:00
		Daniel	Buttain	RIONEEK		30 ~6:00
		Steve		EWIVAY	3	100-3:45
				<u> </u>		
		ļ				<u> </u>
						Mari
TES ON WORK CO	MPLETED					
D-49 Si	- : 1 .	· 2:10				
		2:05				
	Deep	2.15				
						
-D:+	Froul	tu co	lighting 1	st sample	- 10ts	0/2
	Lav		ocks			
h			ecn			
,	1 : 01		*	1	7	
. : ~ lo	is of	C/a 26				
		CINDS	and livert	ebiate active	ry	
			and church	evial active	ry	
		(1475	and churry	enar active	T	
D-47	Shallo			evial active		
D-47		w 2:25		evial active		
D-47	enallo deep			elilast active		
D-47		w 2:25 2:05			0	
D-47	deep	w 2:25 2:05			0	te actuat
D-47	deep	w 2:25 2:05	e vock, cv	ab and in	0	te actuaty
	deep Lots i	1 2:25 2:05 1 Lara	e rock, cr		0	te actuat
	deep Lots i	n 2:25 2:05 b lard sand	l NCK, CV L sheen		0	te acturity
	deep Lots i	n 2:25 2:05 b lard sand	l NCK, CV L sheen		0	te actually
	deep Lots i	n 2:25 2:05 b lard sand	l NCK, CV L sheen		0	te actuaty
)-45	deep dark ne oc shallo deep	0 2:25 2:05 0 Lava Sano dor ov W 3:45	l W(K, CV L steen 15	ab and in	o vertebra	
)-45	deep dark ne oc shallo deep	0 2:25 2:05 0 Lava Sano dor ov W 3:45	l W(K, CV L steen 15	ab and in	o vertebra	
) - 45	deep dark ne oc shallo deep	0 2:25 2:05 0 Lava Sano dor ov W 3:45	l W(K, CV L steen 15	ab and in	o vertebra	
) - 45	deep dark ne oc shallo deep Lotz no a	0 2 35 2 05 2 100 2 100 2 100 2 100 0 100	l NOCK CV L sheen 15		o vertebra	
) - 45	deep dark ne oc shallo deep Lotz no a	0 2 35 2 05 2 100 2 100 2 100 2 100 0 100	l NOCK CV L sheen 15	ab and in	o vertebra	
)-45	deep dark ne oc shallo deep Lotz no a	0 2 35 2 05 2 100 2 100 2 100 2 100 0 100	l W(K, CV L steen 15	ab and in	o vertebra	
D-45	deep dark ne oc shallo deep Lotz no a	0 2 35 2 05 2 100 2 100 2 100 2 100 0 100	l NOCK CV L sheen 15	ab and in	o vertebra	
) - 45	deep dark ne oc shallo deep Lotz no a	0 2 35 2 05 2 100 2 100 2 100 2 100 0 100	l NOCK CV L sheen 15	ab and in	o vertebra	
D-45	deep dark ne oc shallo deep Lotz no od Larger	0 2 35 2 05 2 100 2 100 2 145 0 1 2 101 1 0 1 0 1	l vock, cv L sheen 15 logical au sheen	ab and in	o vertebra	
)-U5	deep dark ne oc shallo deep Lotz no sa Larges	0 2 35 2 05 1 10 0 2 00 2 00 0 0 0 00 0 0 0 00 0 0 0 0	l vock, cv L sheen 15 logical au sheen	ab and in	ory to bra	nertible af
)-45	deep dark ne oc shallo deep Lotz no sa Larges	0 2 35 2 05 2 100 2 100 2 145 0 1 2 101 1 0 1 0 1	l vock, cv L sheen 15 logical au sheen	ab and in	abs, in	volum
D-45	deep dark ne oc shallo deep Lotz no sa Larges	0 2 35 2 05 2 05 2 00 2 00	l vock, cv L sheen 15 cogreat au cheen in size	ab and im	abs, in	volume
D-45	deep dark dark ne oc shallo deep Lotz no sa largen shallo deep	0 2 35 2 05 2 05 2 00 2 00	l vock, cv L sheen 15 cogreat au cheen in size	ab and im	abs, in	volum
D-45	deep dark ne oc shallo deep Lotz no sa Larges	0 2 35 2 05 2 05 2 00 2 00	l vock, cv L sheen 15 cogreat au cheen in size	ab and im	abs, in	volume Wie Po
50.43	deep dark nes or shallo deep Lots no sa Larger shallo deep	0 2 35 25 05 1 Lava 2 Sano 2 OV OV W 3 3:45 OF 1210 1 OV OV 4.10 Gran Gra	l vock, cv L sheen 15 cogreat au cheen in size	ab and in	abs, in	volume Wie Po
50.43	deep dark nes or shallo deep Lots no sa Larger shallo deep	0 2 35 25 05 1 Lava 2 Sano 2 OV OV W 3 3:45 OF 1210 1 OV OV 4.10 Gran Gra	l vock, cv L sheen 15 cogreat au cheen in size	ab and im	abs, in	volume
50-43	deep dark nes or shallo deep Lots no sa Larger shallo deep	0 2 35 25 05 1 Lava 2 Sano 2 OV OV W 3 3:45 OF 1210 1 OV OV 4.10 Gran Gra	l vock, cv L sheen 15 cogreat au cheen in size	ab and im	abs, in	volume Wie Po
7) · 43	deep dark nes or shallo deep Lots no sa Larger shallo deep	0 2 35 2 05 2 05 2 00 2 00	l vock, cv L sheen 15 cogreat au cheen in size	ab and im	compu	volume Wie Po

PIONEER DAILY FIELD REPORT

		DAILY FIE	LD REPORT		
Date: 2/5/14 Si	te Location:u	westizam	Site Arrival Time: _	1 30 Site Dep	parture Time : 4:0
WEATHER TEMPERATURE WIND	clear Sun)	Overcast 32-50	Drizzle 50-70 Strong	Rain 70-85 Severe	Snow 85 Up
PEOPLE PRESENT ON	SITE	NAME	ASSOCIATION	TIM	E ON-SITE AND OFF-SITE
	DE	NIEL BEITAIN AELLA SNAIN	PIONETR		30 -4:00 30 -4:00
NOTES ON WORK COM	PLETED				
5D-4/10 de	ep 15	0			
50-44 dep -Light -Light -Fin - yew -no	D 2:00 13 of 13 of 14 byon 4 gran 4 you	on extremel	Saturated		
	sum ay	area 2 av	ey, bichan		
Overall n dark prowr Samy	otes: Sev.	Samples fur Samples allen gra Most bro Focus are	ther south near spit in size in actury,	were a further mid-bear	red ght rout ch m
SIGNATURE:				DATE: 2/	5/2014

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Attachment 3

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1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number
Client Sample ID

140207024-001

SD-WB-44-020514-2-3

Sampling Date Sampling Time

Result

ND

ND

2/5/2014 2:00 PM Date/Time Received

2/7/2014 1:09 PM

Client Sample ID Matrix

Parameter

Diesel

Lube Oil

Soil

Sample Location

Extraction Date

2/8/2014

Comments

ments

Units	PQL	Analysis Date	Analyst	Method	Qualifier
mg/kg	25	2/10/2014	KFG	NWTPHDX	
mg/kg	100	2/10/2014	KFG	NWTPHDX	

Surrogate Data

Sample Number

140207024-001

Surrogate Standard hexacosane

Method NWTPHDX Percent Recovery 115.4 Control Limits 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

 Sample Number
 140207024-004
 Sampling Date
 2/5/2014
 Date/Time Received
 2/7/2014
 1:09 PM

Client Sample ID SD-WB-42-020514-05-1 Sampling Time 2:15 PM Extraction Date 2/8/2014

Matrix Soil Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Diesel	ND	mg/kg	25	2/10/2014	KFG	NWTPHDX	
Lube Oil	ND	mg/kg	100	2/10/2014	KFG	NWTPHDX	

Surrogate Data

Sample Number 140207024-004

Surrogate Standard Method Percent Recovery Control Limits
hexacosane NWTPHDX 123.6 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

 Sample Number
 140207024-005
 Sampling Date
 2/3/2014
 Date/Time Received
 2/7/2014
 1:09 PM

 Client Sample ID
 SD-WB-51-020314-2-3-(01)
 Sampling Time
 4:20 PM
 Extraction Date
 2/8/2014

Matrix Soil Sample Location

Comments

Parameter Result Units **PQL Analysis Date** Analyst Method Qualifier Diesel ND 100 2/10/2014 **KFG NWTPHDX** mg/kg 975 **KFG** Lube Oil mg/kg 400 2/10/2014 **NWTPHDX**

Surrogate Data

Sample Number 140207024-005
Surrogate Standard Method Percent Recovery Control Limits
hexacosane NWTPHDX 122.6 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

 Sample Number
 140207024-006
 Sampling Date
 2/3/2014
 Date/Time Received
 2/7/2014
 1:09 PM

 Client Sample ID
 SD-WB-51-020314-2-3
 Sampling Time
 4:15 PM
 Extraction Date
 2/8/2014

Matrix Soil Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Diesel	ND	mg/kg	100	2/10/2014	KFG	NWTPHDX	
Lube Oil	788	mg/kg	400	2/10/2014	KFG	NWTPHDX	

Surrogate Data

Sample Number 140207024-006
Surrogate Standard Method Percent Recovery Control Limits
hexacosane NWTPHDX 121.4 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number **Client Sample ID** 140207024-007

Sampling Date Sampling Time

309

2/3/2014 4:35 PM

Date/Time Received

2/7/2014

1:09 PM

Matrix

Lube Oil

SD-WB-50-020314-05-1

Sample Location

Extraction Date

2/8/2014

NWTPHDX

Comments

Parameter Result Diesel ND

PQL Units 25 mg/kg mg/kg 100

Analysis Date 2/10/2014 2/10/2014

Analyst **KFG KFG**

Method Qualifier **NWTPHDX**

Surrogate Data

Sample Number

140207024-007

Surrogate Standard hexacosane

Method **NWTPHDX** **Percent Recovery** 116.8

Control Limits 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number **Client Sample ID**

140207024-008 SD-WB-48-020314-05-1 **Sampling Date** Sampling Time 2/3/2014 4:50 PM

Date/Time Received

2/7/2014

1:09 PM

Matrix

Sample Location

Extraction Date

2/8/2014

NWTPHDX

Comments

Parameter Result Diesel ND Lube Oil 117

PQL Units 25 mg/kg mg/kg 100

Analysis Date 2/10/2014 2/10/2014

Analyst **KFG KFG**

Method Qualifier **NWTPHDX**

Surrogate Data

Sample Number

140207024-008

Surrogate Standard hexacosane

Method **NWTPHDX** **Percent Recovery** 113.4

Control Limits 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number 140207024-009 **Sampling Date** 2/3/2014 SD-WB-48-020314-2-3 **Client Sample ID** Sampling Time 5:00 PM

Date/Time Received Extraction Date

2/7/2014 2/8/2014 1:09 PM

Matrix

Comments

Sample Location

PQL Parameter Result Units **Analysis Date** Analyst Method Qualifier Diesel ND 25 2/10/2014 **KFG NWTPHDX** mg/kg 200 **KFG** Lube Oil mg/kg 100 2/10/2014 **NWTPHDX**

Surrogate Data

140207024-009 Sample Number

> **Surrogate Standard** Method **Percent Recovery Control Limits** hexacosane **NWTPHDX** 111.8 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number Date/Time Received 140207024-010 **Sampling Date** 2/3/2014 2/7/2014 1:09 PM 2/10/2014 4:40 PM **Extraction Date**

SD-WB-50-020314-2-3 **Client Sample ID** Sampling Time Sample Location

Matrix

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Diesel	ND	mg/kg	25	2/11/2014	KFG	NWTPHDX	
Lube Oil	196	mg/kg	100	2/11/2014	KFG	NWTPHDX	

Surrogate Data

140207024-010 Sample Number **Surrogate Standard** Method **Percent Recovery Control Limits** hexacosane **NWTPHDX** 111.8 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number **Client Sample ID** 140207024-011

Sampling Date Sampling Time 2/3/2014

2:30 PM

Date/Time Received

1:09 PM 2/7/2014

Matrix

SD-WB-54-020314-05-1

Extraction Date

2/10/2014

Comments

Sample Location

Analysis Date Analyst Method Qualifier

PQL Parameter Result Units Diesel ND 25 2/11/2014 **KFG NWTPHDX** mg/kg ND **KFG** Lube Oil mg/kg 100 2/11/2014 **NWTPHDX**

Surrogate Data

Sample Number

140207024-011

Surrogate Standard hexacosane

Method **NWTPHDX** **Percent Recovery** 117.2

Control Limits 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number **Client Sample ID**

140207024-013

Sampling Date Sampling Time 2/3/2014 2:15 PM

Date/Time Received

2/7/2014

NWTPHDX

1:09 PM

Matrix

Lube Oil

SD-WB-55-020314-05-1

Sample Location

2/10/2014 **Extraction Date**

Comments

Parameter Result Diesel ND

PQL Units 25 mg/kg mg/kg 100

106

Analysis Date 2/11/2014 2/11/2014

Analyst **KFG KFG**

Method Qualifier **NWTPHDX**

Surrogate Data

Sample Number

140207024-013

Surrogate Standard hexacosane

Method **NWTPHDX** **Percent Recovery** 113.4

Control Limits 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number **Client Sample ID**

140207024-014

Sampling Date Sampling Time

Result

2/4/2014 5:30 PM

Date/Time Received

2/7/2014

1:09 PM

Matrix

SD-WB-44-020414-05-1

Sample Location

Extraction Date

2/10/2014

Comments

PQL Units **Analysis Date** 25 2/11/2014 mg/kg mg/kg 100 2/11/2014

Analyst **KFG NWTPHDX** Qualifier

Parameter

Diesel ND ND Lube Oil

KFG

NWTPHDX

Method

Surrogate Data

Sample Number

140207024-014

Surrogate Standard hexacosane

Method **NWTPHDX** **Percent Recovery** 118.6

Control Limits 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number **Client Sample ID** 140207024-015 SD-WB-46-020414-05-1 **Sampling Date** Sampling Time

2/4/2014 4:50 PM

Date/Time Received

2/7/2014

1:09 PM

Matrix

Sample Location

Extraction Date

2/10/2014

NWTPHDX

Comments

Parameter Result Diesel ND ND Lube Oil

PQL Units 25 mg/kg mg/kg 100

2/11/2014 2/11/2014

Analysis Date

Analyst **KFG KFG**

Method Qualifier **NWTPHDX**

Surrogate Data

Sample Number

140207024-015

Surrogate Standard hexacosane

Method **NWTPHDX** **Percent Recovery** 120.4

Control Limits 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

1:09 PM

2/7/2014 2/10/2014

Analytical Results Report

Sample Number140207024-017Sampling Date2/4/2014Date/Time ReceivedClient Sample IDSD-WB-53-020414-05-1Sampling Time4:10 PMExtraction Date

Soil Sample Location

Matrix S Comments

> **PQL Parameter** Result Units **Analysis Date** Analyst Method Qualifier Diesel ND 25 2/11/2014 **KFG NWTPHDX** mg/kg **KFG** Lube Oil 115 mg/kg 100 2/11/2014 **NWTPHDX**

Surrogate Data

Sample Number 140207024-017
Surrogate Standard Method Percent Recovery Control Limits
hexacosane NWTPHDX 118.4 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

 Sample Number
 140207024-018
 Sampling Date
 2/4/2014
 Date/Time Received
 2/7/2014
 1:09 PM

 Client Sample ID
 SD-WB-53-020414-2-3
 Sampling Time
 5:30 PM
 Extraction Date
 2/10/2014

Matrix Soil Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Diesel	ND	mg/kg	25	2/11/2014	KFG	NWTPHDX	
Lube Oil	ND	mg/kg	100	2/11/2014	KFG	NWTPHDX	

Surrogate Data

Sample Number 140207024-018
Surrogate Standard Method Percent Recovery Control Limits
hexacosane NWTPHDX 113.8 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sampling Date Sample Number 140207024-019 2/4/2014 Date/Time Received 2/7/2014 1:09 PM 2/10/2014

SD-WB-43-020414-2-3 **Client Sample ID** Sampling Time 4:16 PM **Extraction Date** Sample Location

Matrix

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Diesel	ND	mg/kg	50	2/11/2014	KFG	NWTPHDX	
Lube Oil	351	mg/kg	200	2/11/2014	KFG	NWTPHDX	

Surrogate Data

140207024-019 Sample Number **Surrogate Standard** Method **Percent Recovery Control Limits** hexacosane **NWTPHDX** 116.2 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

 Sample Number
 140207024-020
 Sampling Date
 2/4/2014
 Date/Time Received
 2/7/2014
 1:09 PM

 Client Sample ID
 SD-WB-47-020414-05-1
 Sampling Time
 2:25 PM
 Extraction Date
 2/10/2014

Matrix Soil Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Diesel	ND	mg/kg	25	2/11/2014	KFG	NWTPHDX	
Lube Oil	ND	mg/kg	100	2/11/2014	KFG	NWTPHDX	

Surrogate Data

Sample Number 140207024-020
Surrogate Standard Method Percent Recovery Control Limits
hexacosane NWTPHDX 68.4 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number **Client Sample ID** 140207024-021 SD-WB-43-020414-05-1 **Sampling Date** Sampling Time

ND

2/4/2014 3:50 PM

Date/Time Received

2/7/2014

1:09 PM

Matrix

Lube Oil

Sample Location

Extraction Date

2/10/2014

NWTPHDX

Comments

Parameter Result Diesel ND

PQL Units 25 mg/kg mg/kg 100

Analysis Date 2/11/2014 2/11/2014

Analyst **KFG KFG**

Method Qualifier **NWTPHDX**

Surrogate Data

Sample Number

140207024-021

Surrogate Standard hexacosane

Method **NWTPHDX** **Percent Recovery** 65.6

Control Limits 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

1:09 PM Sample Number 140207024-022 **Sampling Date** 2/4/2014 **Date/Time Received** 2/7/2014 SD-WB-47-020414-2-3 2/10/2014 **Client Sample ID** 3:05 PM **Extraction Date**

Sampling Time Sample Location

Matrix

Comments

PQL Parameter Result Units **Analysis Date** Analyst Method Qualifier Diesel ND 25 2/11/2014 **KFG NWTPHDX** mg/kg ND **KFG** Lube Oil mg/kg 100 2/11/2014 **NWTPHDX**

Surrogate Data

140207024-022 Sample Number **Surrogate Standard** Method **Percent Recovery Control Limits** hexacosane **NWTPHDX** 58.0 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number **Client Sample ID** 140207024-023

Sampling Date Sampling Time

Result

ND ND 2/4/2014 3:15 PM

Date/Time Received

2/7/2014

1:09 PM

Matrix

SD-WB-45-020414-05-1

Extraction Date

2/10/2014

Comments

Parameter

Diesel

Lube Oil

Sample Location

Units	PQL	Analysis Date	Analyst	Method	Qualifier
mg/kg mg/kg	25 100	2/11/2014 2/11/2014	KFG KFG	NWTPHDX NWTPHDX	

Surrogate Data

Sample Number

140207024-023

Surrogate Standard hexacosane

Method **NWTPHDX** **Percent Recovery** 50.6

Control Limits

50-150

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

 Sample Number
 140207024-025
 Sampling Date
 2/4/2014
 Date/Time Received
 2/7/2014
 1:09 PM

 Client Sample ID
 SD-WB-49-020414-05-1
 Sampling Time
 2:05 PM
 Extraction Date
 2/10/2014

Matrix Soil Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Diesel	ND	mg/kg	50	2/11/2014	KFG	NWTPHDX	
Lube Oil	ND	mg/kg	200	2/11/2014	KFG	NWTPHDX	

Surrogate Data

Sample Number 140207024-025
Surrogate Standard Method Percent Recovery Control Limits
hexacosane NWTPHDX 52.6 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

 Sample Number
 140207024-026
 Sampling Date
 2/5/2014
 Date/Time Received
 2/7/2014
 1:09 PM

Client Sample ID EB-WB-020514 Sampling Time 3:00 PM Extraction Date 2/7/2014

Matrix Water Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Diesel	ND	mg/L	0.1	2/10/2014	KFG	NWTPHDX	
Lube Oil	ND	mg/L	0.5	2/10/2014	KFG	NWTPHDX	

Surrogate Data

Sample Number 140207024-026
Surrogate Standard Method Percent Recovery Control Limits
hexacosane NWTPHDX 103.2 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number

140207024-027

Sampling Date Sampling Time

Units

mg/kg

mg/kg

ND

2/3/2014 3:25 PM Date/Time Received

Analyst

KFG

KFG

2/7/2014

1:09 PM

Client Sample ID Matrix

Lube Oil

SD-WB-52-020314-05-1

Sample Location

Extraction Date

2/10/2014

Comments

ParameterResultDieselND

PQL25
100

2/11/2014 2/11/2014 Method NWTPHDX

NWTPHDX

Qualifier

Surrogate Data

Sample Number

140207024-027

Surrogate Standard hexacosane

Method NWTPHDX Percent Recovery 74.3

Control Limits 50-150

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number **Client Sample ID** 140207024-029

SD-WB-51-020314-05-1

Sampling Date Sampling Time

2/3/2014 3:50 PM

Date/Time Received Extraction Date

2/7/2014 2/10/2014 1:09 PM

Matrix Comments

Sample Location

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Diesel	ND	mg/kg	25	2/11/2014	KFG	NWTPHDX	
Lube Oil	ND	mg/kg	100	2/11/2014	KFG	NWTPHDX	

Surrogate Data

Sample Number

140207024-029

Surrogate Standard hexacosane

Method **NWTPHDX** **Percent Recovery** 56.8

Control Limits

50-150

Authorized Signature

MCL EPA's Maximum Contaminant Level

ND Not Detected

Practical Quantitation Limit **PQL**

This report shall not be reproduced except in full, without the written approval of the laboratory.

The results reported relate only to the samples indicated.

Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: PIONEER TECHNOLOGIES CORPORATION

Batch #: 140207024

Address: 5205 CORPORATE CENTER COURT

Project Name: WEST BAY

LACEY, WA 98503

Attn: CHRIS WALDRON

Analytical Results Report

Quality Control Data

Lab Control Sample										
Parameter	LCS Result	Units	s LCS	Spike %	%Rec	AR	%Rec	Prep	Date	Analysis Date
Diesel	87.0	mg/k	g 1	00	87.0	50)-150	2/8/2	2014	2/10/2014
Matrix Spike										
Sample Number Parameter		Sample Result	MS Result	Units		MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
140207024-004 Diesel		ND	94.4	mg/kg		100	94.4	50-150	•	2/10/2014
Matrix Spike Duplicate										
Parameter	MSD Result	Units	MSD Spike	%Re	ec.	%RPD	AR %RPD) Pre	p Date	Analysis Date
Diesel	89.6	mg/kg	100	89.6		5.2	0-50		3/2014	2/10/2014
Method Blank										
Parameter		Re	sult	Uni	its		PQL	Pr	ep Date	Analysis Date
Diesel		1	ND	mg/	kg		25	2/3	8/2014	2/10/2014
Lube Oil		1	ND	mg/	/kg		100	2/3	8/2014	2/10/2014

AR Acceptable Range ND Not Detected

PQL Practical Quantitation Limit RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Batch #: 140207024

Address: 5205 CORPORATE CENTER COURT

Project Name: WEST BAY

25

100

mg/kg

mg/kg

2/10/2014

2/10/2014

2/11/2014

2/11/2014

LACEY, WA 98503

CHRIS WALDRON

Attn:

Analytical Results Report

Quality Control Data

Lab Control Sample										
Parameter	LCS Result	Unit	s LCS	Spike	%Rec	AR	%Rec	Prep	Date	Analysis Date
Diesel	99.2	mg/k	g 1	00	99.2	50	-150	2/10/	/2014	2/11/2014
Matrix Spike										
Sample Number Parameter		Sample Result	MS Result	Units	2	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
140207024-018 Diesel		ND	147	mg/k		100	147.0	50-150	•	•
Matrix Spike Duplicate										
Parameter	MSD Result	Units	MSD Spike	%Re	ec	%RPD	AR %RPI) Pre	p Date	Analysis Date
Diesel	106	mg/kg	100	106	.0	32.4	0-50	2/1	0/2014	2/11/2014
Method Blank										
Parameter		Re	esult	Un	its		PQL	Pr	rep Date	Analysis Date

ND

ND

AR Acceptable Range ND Not Detected

PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Diesel

Lube Oil

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Client: PIONEER TECHNOLOGIES CORPORATION

Batch #: 140207024

Address: 5205 CORPORATE CENTER COURT

Project Name: WEST BAY

LACEY, WA 98503 CHRIS WALDRON

Attn:

Analytical Results Report

Quality Control Data

Lab Control Sample								
Parameter	LCS Resul	t Units	LCS	S Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Diesel	0.769	mg/L		1	76.9	50-150	2/7/2014	2/10/2014
Lab Control Sample Duplicate								
Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR 9 %RPD	Prep Date	Analysis Date
Diesel	0.819	mg/L	1	81.9	6.3	0-50	2/7/2014	2/10/2014

Method Blank					
Parameter	Result	Units	PQL	Prep Date	Analysis Date
Diesel	ND	mg/L	0.1	2/7/2014	2/10/2014
Lube Oil	ND	mg/L	0.5	2/7/2014	2/10/2014

AR Acceptable Range ND Not Detected

PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099



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February 21, 2013

Pioneer Technologies Corp

5205 Corporate Center Crt SE Suite A

Olympia, WA 98503

Project Manager: Shella Swain

Laboratory Project #: 140207024

Client Project #: West Bay Date Sampled: 2/3-2/5 Sampled by: Shella Swain Date Received: 2/7/2014

Anatek Sample ID	Sample ID	Result	Analysis	Analyst
140207024-001	SD-WB-44-020514-2-3	12.5%	2/18/2014	KG
140207024-004	SD-WB-42-020514-05-1	1.12%	2/18/2014	KG
140207024-005	SD-WB-51-020314-2-3-(01)	10.4%	2/18/2014	KG
140207024-006	SD-WB-51-020314-2-3	12.6%	2/18/2014	KG
140207024-007	SD-WB-50-020314-05-1	3.28%	2/18/2014	KG
140207024-008	SD-WB-48-020314-05-1	3.62%	2/18/2014	KG
140207024-009	SD-WB-48-020314-2-3	5.43%	2/18/2014	KG
140207024-010	SD-WB-50-020314-2-3	2.24%	2/18/2014	KG
140207024-011	SD-WB-54-020314-05-1	1.35%	2/18/2014	KG
140207024-013	SD-WB-55-020314-05-1	2.03%	2/18/2014	KG
140207024-014	SD-WB-44-020414-05-1	6.51%	2/18/2014	KG
140207024-015	SD-WB-46-020414-05-1	5.82%	2/18/2014	KG
140207024-017	SD-WB-53-020414-05-1	3.63%	2/18/2014	KG
140207024-018	SD-WB-53-020414-2-3	5.33%	2/18/2014	KG
140207024-019	SD-WB-43-020414-2-3	2.67%	2/18/2014	KG
140207024-020	SD-WB-47-020414-05-1	4.21%	2/18/2014	KG
140207024-021	SD-WB-43-020414-05-1	2.34%	2/18/2014	KG
140207024-022	SD-WB-47-020414-2-3	5.85%	2/18/2014	KG
140207024-023	SD-WB-45-020414-05-1	2.30%	2/18/2014	KG
140207024-025	SD-WB-49-020414-05-1	4.52%	2/18/2014	KG
140207024-027	SD-WB-52-020314-05-1	5.89%	2/18/2014	KG
140207024-029	SD-WB-51-020314-05-1	4.37%	2/18/2014	KG

^{** -} A known amount of dried sample was determined by difference and the fine particulates removed from it by washing through a #230 sieve until the water ran clear. The remaining sample was then quantitatively transferred into a funnel, collected in a pre-weighed filter paper, and the filter placed in a pre-weighed beaker for overnight drying. % Fines was determined as follows:

% Fines = 100% - 100% x ((Final Wt. - Beaker Wt. - Filter Wt.) / (Initial Jar Wt. - Final Jar Wt.))

Approved by:

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Client:

PIONEER TECHNOLOGIES CORPORATION

140207024

Address:

5205 CORPORATE CENTER COURT

Project Name:

Batch #:

WEST BAY

LACEY, WA 98503

Attn:

CHRIS WALDRON

Analytical Results Report

Sample Number

140207024-001

Sampling Date

Date/Time Received 2/7/2014

1:09 PM

1:09 PM

Client Sample ID Matrix

SD-WB-44-020514-2-3 Soil

Sampling Time 2:00 PM

Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	16.9	Percent		2/8/2014	KFG	%moisture	

2/5/2014

Sample Number

Client Sample ID

Matrix

140207024-004

SD-WB-42-020514-05-1

Sampling Date Sampling Time

2/5/2014 2:15 PM

Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	10.2	Percent		2/8/2014	KFG	%moisture	

Sample Number **Client Sample ID** 140207024-005

SD-WB-51-020314-2-3-(01)

Soil

Sampling Date Sampling Time

2/3/2014 4:20 PM

Sample Location

Date/Time Received 2/7/2014

Date/Time Received 2/7/2014

1:09 PM

Comments

Matrix

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	76.2	Percent		2/8/2014	KFG	%moisture	

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number Client Sample ID 140207024-006 SD-WB-51-020314-2-3 Sampling Date 2/3/2014 Sampling Time 4:15 PM Date/Time Received 2/7/2014 1:09 PM

Matrix

Soil

Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	77.7	Percent		2/8/2014	KFG	%moisture	

Sample Number Client Sample ID 140207024-007 SD-WB-50-020314-05-1 Sampling Date 2/3/2014 Sampling Time 4:35 PM Date/Time Received 2/7/2014 1:09 PM

Matrix

Soil

Soil

Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	75	Percent		2/8/2014	KFG	%moisture	

Sample Number Client Sample ID Matrix

Comments

SD-WB-48-020314-05-1 Sa

Sample

Sampling Time 4:50 PM

Sample Location

 mple Number
 140207024-008
 Sampling Date
 2/3/2014
 Date/Time Received
 2/7/2014
 1:09 PM

ParameterResultUnitsPQLAnalysis DateAnalystMethodQualifier%moisture33Percent2/8/2014KFG%moisture

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number Client Sample ID 140207024-009 SD-WB-48-020314-2-3 Sampling Date 2/3/2014 Sampling Time 5:00 PM Date/Time Received 2/7/2014 1:09 PM

Matrix S

Soil

Sample Location

Comments

ParameterResultUnitsPQLAnalysis DateAnalystMethodQualifier%moisture60Percent2/8/2014KFG%moisture

Sample Number Client Sample ID 140207024-010 SD-WB-50-020314-2-3 Sampling Date 2/3/2014 Sampling Time 4:40 PM Date/Time Received 2/7/2014 1:09 PM

Matrix

Soil

Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	42.6	Percent		2/8/2014	KFG	%moisture	

Sample Number Client Sample ID Matrix 140207024-011

Soil

SD-WB-54-020314-05-1 **Sampling**

Sampling Date 2/3/2014 Sampling Time 2:30 PM

Sample Location

Date/Time Received 2/7/2014 1:09 PM

Comments

ParameterResultUnitsPQLAnalysis DateAnalystMethodQualifier%moisture19.8Percent2/8/2014KFG%moisture

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number **Client Sample ID** 140207024-013 SD-WB-55-020314-05-1 Sampling Date 2/3/2014 Sampling Time 2:15 PM

Date/Time Received 2/7/2014 1:09 PM

Matrix

Soil

Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	32.2	Percent		2/8/2014	KFG	%moisture	

Sample Number **Client Sample ID** 140207024-014

Sampling Date 2/4/2014 5:30 PM

Date/Time Received 2/7/2014 1:09 PM

Matrix

SD-WB-44-020414-05-1 Soil

Sampling Time

Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	11.6	Percent		2/8/2014	KFG	%moisture	

Sample Number **Client Sample ID** Matrix

140207024-015

SD-WB-46-020414-05-1

Soil

Sampling Date 2/4/2014 Sampling Time Sample Location

4:50 PM

Date/Time Received 2/7/2014 1:09 PM

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	33.3	Percent		2/8/2014	KFG	%moisture	

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: **CHRIS WALDRON** Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number **Client Sample ID** 140207024-017

SD-WB-53-020414-05-1

Sampling Date 2/4/2014 Sampling Time 4:10 PM

Date/Time Received 2/7/2014 1:09 PM

Matrix

Soil

Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	27.9	Percent		2/8/2014	KFG	%moisture	_

Sample Number **Client Sample ID** 140207024-018 SD-WB-53-020414-2-3 Sampling Date 2/4/2014 Sampling Time 5:30 PM

Date/Time Received 2/7/2014 1:09 PM

Matrix Comments Soil

Sample Location

Parameter Result Units **PQL Analysis Date** Analyst Method Qualifier Percent 2/8/2014 **KFG** %moisture 24.1 %moisture

2/4/2014

4:16 PM

Sample Number **Client Sample ID** Matrix

140207024-019 SD-WB-43-020414-2-3

Sampling Date Sampling Time Date/Time Received 2/7/2014 1:09 PM

Soil

Sample Location

Comments

Parameter Result Units PQL **Analysis Date** Method Qualifier **Analyst** %moisture 55.4 Percent 2/8/2014 **KFG** %moisture

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number Client Sample ID 140207024-020 SD-WB-47-020414-05-1 Sampling Date 2/4/2014 Sampling Time 2:25 PM Date/Time Received 2/7/2014 1:09 PM

Matrix

Soil

Sample Location

Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	33	Percent		2/10/2014	KFG	%moisture	

Sample Number Client Sample ID 140207024-021 SD-WB-43-020414-05-1 Sampling Date 2/4/2014 Sampling Time 3:50 PM Date/Time Received 2/7/2014 1:09 PM

Matrix

Soil

Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	19.4	Percent		2/10/2014	KFG	%moisture	

Sample Number Client Sample ID Matrix

Parameter

%moisture

Friday, February 21, 2014

140207024-022

SD-WB-47-020414-2-3

Sampling Date Sampling Time Sample Location

Percent

24.5

Date/Time Received 2/7/2014 1:09 PM

%moisture

KFG

Comments

rix Soil

Result Units PQL Analysis Date Analyst Method

2/10/2014

2/4/2014

3:05 PM

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Qualifier

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Client: PIONEER TECHNOLOGIES CORPORATION

Address: 5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

Sample Number Client Sample ID 140207024-023 SD-WB-45-020414-05-1 Sampling Date 2/4/2014 Sampling Time 3:15 PM Date/Time Received 2/7/2014 1:09 PM

Matrix S

Soil

Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	26.5	Percent		2/10/2014	KFG	%moisture	

Sample Number Client Sample ID 140207024-025 SD-WB-49-020414-05-1 Sampling Date 2/4/2014 Sampling Time 2:05 PM Date/Time Received 2/7/2014 1:09 PM

Matrix Comments

Soil

Sample Location

ParameterResultUnitsPQLAnalysis DateAnalystMethodQualifier%moisture42.2Percent2/10/2014KFG%moisture

Sample Number Client Sample ID Matrix 140207024-027

Soil

SD-WB-52-020314-05-1

Sampling Date
Sampling Time
Sample Location

Date/Time Received 2/7/2014 1:09 PM

Comments

ParameterResultUnitsPQLAnalysis DateAnalystMethodQualifier%moisture36.1Percent2/10/2014KFG%moisture

2/3/2014

3:25 PM

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: PIONEER TECHNOLOGIES CORPORATION

5205 CORPORATE CENTER COURT

LACEY, WA 98503

Attn: CHRIS WALDRON

Batch #: 140207024

Project Name: WEST BAY

Analytical Results Report

2/3/2014

Sample Number Client Sample ID 140207024-029

SD-WB-51-020314-05-1

Sampling Date

Date/Time Received 2/7/2014 1:09 PM

Matrix

Address:

Soil

Sampling Time 3:50 PM

Sample Location

Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	30.1	Percent		2/10/2014	KFG	%moisture	

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level

ND Not Detected

PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.

The results reported relate only to the samples indicated.

Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Login Report

Customer Name: PIONEER TECHNOLOGIES CORPORATION

Order ID: 140207024

5205 CORPORATE CENTER COURT

2/7/2014

LACEY

WA 98503

Contact Name: CHRIS WALDRON

Project Name: WEST BAY

2/5/2014

Order Date:

Comment:

Sample #: 140207024-001 Customer Sample #: SD-WB-44-020514-2-3

Recv'd: ✓ Collector: SHELLA Date Collected:

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 %Moisture
 M
 %moisture
 2/19/2014
 Normal (~10 Days)

 TPHDX-NW
 M
 NWTPHDX
 2/19/2014
 Normal (~10 Days)

Sample #: 140207024-002 Customer Sample #: SD-WB-42-020514-2-3

Recv'd: ✓ Collector: SHELLA Date Collected: 2/5/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 HOLD
 M
 hold
 2/19/2014
 Normal (~10 Days)

Sample #: 140207024-003 **Customer Sample #:** SD-WB-46-020514-2-3

Recv'd: ✓ Collector: SHELLA Date Collected: 2/5/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 HOLD
 M
 hold
 2/19/2014
 Normal (~10 Days)

5205 CORPORATE CENTER COURT

LACEY

WA

98503

140207024

Order Date:

2/7/2014

Contact Name: CHRIS WALDRON

Project Name: WEST BAY

Order ID:

Comment:

Sample #: 140207024-004 Customer Sample #: SD-WB-42-020514-05-1

Recv'd: Collector: SHELLA Date Collected: 2/5/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 %Moisture
 M
 %moisture
 2/19/2014
 Normal (~10 Days)

 TPHDX-NW
 M
 NWTPHDX
 2/19/2014
 Normal (~10 Days)

Sample #: 140207024-005 **Customer Sample #:** SD-WB-51-020314-2-3-(01)

Recv'd: ✓ Collector: SHELLA Date Collected: 2/3/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 %Moisture
 M
 %moisture
 2/19/2014
 Normal (~10 Days)

 TPHDX-NW
 M
 NWTPHDX
 2/19/2014
 Normal (~10 Days)

Sample #: 140207024-006 Customer Sample #: SD-WB-51-020314-2-3

Recv'd:

Collector: SHELLA Date Collected: 2/3/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 %Moisture
 M
 %moisture
 2/19/2014
 Normal (~10 Days)

 TPHDX-NW
 M
 NWTPHDX
 2/19/2014
 Normal (~10 Days)

Sample #: 140207024-007 **Customer Sample #:** SD-WB-50-020314-05-1

Recv'd: ☐ Collector: SHELLA Date Collected: 2/3/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

Test	Lab	Method	Due Date	Priority
%Moisture	M	%moisture	2/19/2014	Normal (~10 Days)
TPHDX-NW	M	NWTPHDX	2/19/2014	Normal (~10 Days)

5205 CORPORATE CENTER COURT

LACEY

Contact Name: CHRIS WALDRON Project Name: WEST BAY

WA

Comment:

Sample #: 140207024-008 Customer Sample #: SD-WB-48-020314-05-1

Recv'd: ✓ Collector: SHELLA Date Collected: 2/3/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 %Moisture
 M
 %moisture
 2/19/2014
 Normal (~10 Days)

 TPHDX-NW
 M
 NWTPHDX
 2/19/2014
 Normal (~10 Days)

98503

Order ID:

Order Date:

140207024

2/7/2014

Sample #: 140207024-009 Customer Sample #: SD-WB-48-020314-2-3

Recv'd:

Collector: SHELLA Date Collected: 2/3/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 %Moisture
 M
 %moisture
 2/19/2014
 Normal (~10 Days)

 TPHDX-NW
 M
 NWTPHDX
 2/19/2014
 Normal (~10 Days)

Sample #: 140207024-010 Customer Sample #: SD-WB-50-020314-2-3

Recv'd: Collector: SHELLA Date Collected: 2/3/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 %Moisture
 M
 %moisture
 2/19/2014
 Normal (~10 Days)

 TPHDX-NW
 M
 NWTPHDX
 2/19/2014
 Normal (~10 Days)

Sample #: 140207024-011 Customer Sample #: SD-WB-54-020314-05-1

Recv'd: ☐ Collector: SHELLA Date Collected: 2/3/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 %Moisture
 M
 %moisture
 2/19/2014
 Normal (~10 Days)

 TPHDX-NW
 M
 NWTPHDX
 2/19/2014
 Normal (~10 Days)

5205 CORPORATE CENTER COURT

LACEY

WA

98503

140207024

2/7/2014

Order ID:

Order Date:

Contact Name: CHRIS WALDRON

Project Name: WEST BAY

Comment:

Sample #: 140207024-012 Customer Sample #: SD-WB-52-020314-2-3

Recv'd:

Collector: SHELLA Date Collected: 2/3/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 HOLD
 M
 hold
 2/19/2014
 Normal (~10 Days)

Sample #: 140207024-013 Customer Sample #: SD-WB-55-020314-05-1

Recv'd:

Collector: SHELLA Date Collected: 2/3/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 %Moisture
 M
 %moisture
 2/19/2014
 Normal (~10 Days)

 TPHDX-NW
 M
 NWTPHDX
 2/19/2014
 Normal (~10 Days)

Recv'd:

Collector: SHELLA Date Collected: 2/4/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 %Moisture
 M
 %moisture
 2/19/2014
 Normal (~10 Days)

 TPHDX-NW
 M
 NWTPHDX
 2/19/2014
 Normal (~10 Days)

Sample #: 140207024-015 **Customer Sample #:** SD-WB-46-020414-05-1

Recv'd: ✓ Collector: SHELLA Date Collected: 2/4/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 %Moisture
 M
 %moisture
 2/19/2014
 Normal (~10 Days)

 TPHDX-NW
 M
 NWTPHDX
 2/19/2014
 Normal (~10 Days)

5205 CORPORATE CENTER COURT

LACEY

WA

Order Date:

98503

140207024

2/7/2014

Contact Name: CHRIS WALDRON

Project Name: WEST BAY

Order ID:

Comment:

Sample #: 140207024-016 Customer Sample #: SD-WB-45-020414-2-3

Recv'd: Collector: **SHELLA Date Collected:** 2/4/2014 **V**

Quantity: 2 **Date Received:** 2/7/2014 1:09:00 PM Matrix: Soil

Comment:

Test Lab Method **Due Date Priority** HOLD hold 2/19/2014 Normal (~10 Days)

Sample #: 140207024-017 Customer Sample #: SD-WB-53-020414-05-1

Recv'd: **~** Collector: **SHELLA Date Collected:** 2/4/2014

Quantity: 2 Matrix: Soil **Date Received:** 2/7/2014 1:09:00 PM

Comment:

Test Lab Method **Due Date Priority** %Moisture Μ %moisture 2/19/2014 Normal (~10 Days) TPHDX-NW Μ **NWTPHDX** 2/19/2014 Normal (~10 Days)

Sample #: 140207024-018 Customer Sample #: SD-WB-53-020414-2-3

Recv'd: **~** Collector: **SHELLA Date Collected:** 2/4/2014

Quantity: 2 Matrix: **Date Received:** 2/7/2014 1:09:00 PM Soil

Comment:

Test Method Lab **Due Date Priority** %Moisture Μ %moisture 2/19/2014 Normal (~10 Days) TPHDX-NW **NWTPHDX** 2/19/2014 Μ Normal (~10 Days)

140207024-019 Customer Sample #: SD-WB-43-020414-2-3 Sample #:

SHELLA 2/4/2014 Recv'd: Collector: **Date Collected: ~**

2/7/2014 1:09:00 PM Quantity: 2 Matrix: Soil **Date Received:**

Comment:

Test Lab Method **Due Date Priority** %Moisture Μ %moisture 2/19/2014 Normal (~10 Days) TPHDX-NW Μ **NWTPHDX** 2/19/2014 Normal (~10 Days)

5205 CORPORATE CENTER COURT

Order Date:

Order ID:

140207024 2/7/2014

LACEY 98503 WA

Contact Name: CHRIS WALDRON Project Name: WEST BAY

Comment:

Sample #: 140207024-020 Customer Sample #: SD-WB-47-020414-05-1

Recv'd: Collector: SHELLA **Date Collected:** 2/4/2014 **~**

Quantity: 2 **Date Received:** 2/7/2014 1:09:00 PM Matrix: Soil

Comment:

Test Method **Due Date** Lab **Priority** %Moisture Μ %moisture 2/19/2014 Normal (~10 Days) TPHDX-NW **NWTPHDX** Μ 2/19/2014 Normal (~10 Days)

140207024-021 SD-WB-43-020414-05-1 Sample #: Customer Sample #:

Recv'd: **~** Collector: **SHELLA Date Collected:** 2/4/2014

Quantity: 2 Matrix: Soil **Date Received:** 2/7/2014 1:09:00 PM

Comment:

Method **Due Date Priority** Test Lab %Moisture М %moisture 2/19/2014 Normal (~10 Days) TPHDX-NW **NWTPHDX** Μ 2/19/2014 Normal (~10 Days)

Sample #: 140207024-022 Customer Sample #: SD-WB-47-020414-2-3

Recv'd: SHELLA Collector: **Date Collected:** 2/4/2014 **~**

Quantity: 2 Matrix: Soil **Date Received:** 2/7/2014 1:09:00 PM

Comment:

Method **Due Date Priority** Test Lab %Moisture Μ %moisture 2/19/2014 Normal (~10 Days) TPHDX-NW **NWTPHDX** Μ 2/19/2014 Normal (~10 Days)

Sample #: 140207024-023 Customer Sample #: SD-WB-45-020414-05-1

Recv'd: Collector: **SHELLA Date Collected:** 2/4/2014 **~**

Quantity: Matrix: Soil **Date Received:** 2/7/2014 1:09:00 PM

Comment:

Test Lab Method **Due Date Priority** %Moisture Μ %moisture 2/19/2014 Normal (~10 Days) TPHDX-NW Μ **NWTPHDX** 2/19/2014 Normal (~10 Days)

5205 CORPORATE CENTER COURT

LACEY

WA

Order Date:

Order ID:

140207024 2/7/2014

98503

Contact Name: CHRIS WALDRON Project Name: WEST BAY

Comment:

Sample #: 140207024-024 Customer Sample #: SD-WB-49-020414-2-3

Recv'd: Collector: **SHELLA Date Collected:** 2/4/2014 **~**

Quantity: 2 Date Received: 2/7/2014 1:09:00 PM Matrix: Soil

Comment:

Test Lab Method **Due Date Priority** HOLD hold 2/19/2014 Normal (~10 Days)

Sample #: 140207024-025 Customer Sample #: SD-WB-49-020414-05-1

Recv'd: **~** Collector: **SHELLA Date Collected:** 2/4/2014

Quantity: 2 Matrix: Soil **Date Received:** 2/7/2014 1:09:00 PM

Comment:

Test Lab Method **Due Date Priority** 2/19/2014 %Moisture Μ %moisture Normal (~10 Days) TPHDX-NW Μ **NWTPHDX** 2/19/2014 Normal (~10 Days)

Sample #: 140207024-026 Customer Sample #: EB-WB-020514

Recv'd: **~** Collector: **SHELLA Date Collected:** 2/5/2014

Quantity: 1 Matrix: Date Received: 2/7/2014 1:09:00 PM Water

Comment:

Method Test Lab **Due Date Priority** TPHDX-NW Μ **NWTPHDX** 2/19/2014 Normal (~10 Days)

Sample #: 140207024-027 Customer Sample #: SD-WB-52-020314-05-1

Recv'd: Collector: **SHELLA Date Collected:** 2/3/2014 **~**

2 2/7/2014 1:09:00 PM Quantity: Matrix: Soil **Date Received:**

Comment:

Test Lab Method **Due Date Priority** %Moisture Μ %moisture 2/19/2014 Normal (~10 Days) TPHDX-NW **NWTPHDX** 2/19/2014 Μ Normal (~10 Days)

Order Date:

2/7/2014

5205 CORPORATE CENTER COURT

LACEY WA 98503

Contact Name: CHRIS WALDRON Project Name: WEST BAY

Comment:

Sample #: 140207024-028 **Customer Sample #:** SD-WB-54-020314-2-3

Recv'd:

Collector: SHELLA Date Collected: 2/3/2014

Date Collected: 2/3/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 HOLD
 M
 hold
 2/19/2014
 Normal (~10 Days)

Sample #: 140207024-029 Customer Sample #: SD-WB-51-020314-05-1

Recv'd: ✓ Collector: SHELLA Date Collected: 2/3/2014

Quantity: 2 Matrix: Soil Date Received: 2/7/2014 1:09:00 PM

Comment:

 Test
 Lab
 Method
 Due Date
 Priority

 %Moisture
 M
 %moisture
 2/19/2014
 Normal (~10 Days)

 TPHDX-NW
 M
 NWTPHDX
 2/19/2014
 Normal (~10 Days)

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature inside the cooler?	2.0
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	N/A
Is there a trip blank to accompany VOC samples?	N/A
Labels and chain agree?	Yes

Phone:

address

Chain of Custody Record

504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433 1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246 00

Relinquished by ALCEA TANATA MIS Received by Relinquished by Received by Relinquished by 5205 LORPORATE CENTER 13 JD-WB-55-020314-05-1 12 Sp -WB-52-02034-2-3 10 50-WB-50 -020314-2-3 PIONEER TECHNOLOGIES 1-50-115020-115-80-11-05-1 50-WB-48-02034-05-1 50 -60 - 50 - 02 - 6ur 03 50-w8-51-020314-2-3 5D-WB-42-020514-05-1 2/5/14 50-wB-46-020514-2-3 2/5/14 5D-WB-51-020314-2-3-61) 2/3/14/4:20 5D-WB-42-0205H-23 2/5 14 /2130 5D-44-026514-2-3 360-570-1700 Sample Identification Provide Sample Description Printed Name Shella Swain B (homson State: 2/5/14 2/3/14 2/3/14/415 23 14 2/3/14 2/3/14 Sampling Date/Time 21:5/14/2:15 0 2115 2:00 14:50 194:40 2:30 14.35 13:45 Caro CRI SE 5016 1 V010 201L 501L אס ור 5016 501L چەاد SOIL ろのし 7105 Matrix Sugar Sampler Name & phone: SHELLA SWオル Purchase Order #: Email Address: Project Name & #: Project Manager: þ 2 N # of Containers 2 V 1 N 'n SWAINS @ USPIONEER. COM Sample Volume WEST RAY TPH-DX CHRIS LOALDEON GRAINSIZE ist Analyses Requested twatto せるこのの 360-570-1700 **3**/5/14 RRC 世上所 13:09 Time 5:30 1 *ARCHIVE until furtuer notice * REALINE Preservative Jemperature (°C) Received Intact? Inspected By: 🔯 Date & Time VOO Higad Space? Containers Sealed? Labels & Chains Agree? Normal 50/20 Other* _Next Day* _2nd Day* http://www.anateklabs.com/services/guidelines/reporting.asp Note Special Instructions/Comments Please refer to our normal turn around times at: Turn Around Time & Reporting must be prior approved *All rush order requests JOT FURTOR てったつ K Email Fax \$ Phone

Lab ID

Received by

140207 024 PITC Last Due

2/19/2014

1st SAMP 2/3/2014 1st RCVD 2/7/2014

Anam WEST BAY

	I_{I}	Anatek
Inc.	Labs,	tek

Chain of Custody Record

Labs, 1282 Alturas Dr	1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246	
Company Name: PLONETE TECHNOLOGIES 10RP.		Turn Around Time & Reporting
H	Project Name & #	http://www.anateklabs.com/services/guidelines/reporting.asp
State: Zip: 1850-3	Email Address:	Normal *All rush order requests —Phone Next Day* Mail
Phone: 360-S70-1700		2nd Day*
	Sampler Name & phone:	Cula
Provide Sample Description	Analyses Requested	Note Special Instructions/Comments
	a	
Lab ID Sample Identification Sampling Date/Time Matrix	Samp	
14 SD-WB-44-020414-05-1 2/4/14/5:30 SOIL	47 X X	
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50-45-45-020414-2-3 2/4/14/3:45	T	- * FRATIVE UNTIL FURTHER WOTE
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50-128-53-02MH-2-3 24/14/5:30	47 X X	
19 SNW8-43-02044-2-3 2/4/14/4:16 SOIL	2 X X	
50-w8-47-02044-05-1 2/4/14/2:25	2 X X	
17 Company - 03-12 - 2/4/14 / 3:50 00/L	X X X	Received intact?
5 SD 20945 -020414-054 2/4/14 /3715	×	Labels & Chains Agree? 🙀 N
50. WB-49-020M4-2-3 2/4/14/	2 X X * ARCHIVE	Containers Sealed? CY N
SD - W - 49-020414-05-1 2/4/14/2:ES		VOC Head Space? Y N
7/0 FB - ωB - 62.0 ≤ 14 2/5/14 / 3:00 CAFTER Signature Signature	Company Date Time	2 to See See See See See See See See See Se
Relinquished by Shella Swam QQ	NEER 45/14 3:40	Temperature (°C) 2.0
Received by & Thomson TSch	m Anatic 4/14/13/12	Preservative:
Relinquished by		
Received by		Date & Time 2/7/14 /3/12
Relinquished by		Inspected By ST

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246 504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-443

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Anatek Log-In #			***	JAnatek Lox-In	

Labs, 1282 Altura	1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246	
) 030-3333 FAX 030-4433	Turn Around Time & Reporting
HONEER TECHNOLOGIES CARP	Princet Name & #	Please refer to our normal turn around times at:
SUSCORPORATE CONTRUGET SE SUITA	<u> </u>	http://www.anateklabs.com/services/guidelines/reporting asp
State: Zip:	Email Address:	
1700 360-570-1700		must be prior approved. — y*
- 1	Sampler Name & phone: SHELLA SIJAIN, BLO-570-1700	Oute
Provide Sample Description	List Analyses Requested	Note Special Instructions/Comments
	ontainers servative e Volume DX /N SRC	
ab ID Sample Identification Sampling Date/Time Matrix	TPH	
27 SD-WB-52-020314-05-1 2/3/14/3:25 SOIL	2 X X	
78 SD-WB-54-020314-2-3 2/3/14/2:35 201	7 XX 7	- Rective until Further worker
1	\(\frac{1}{x}\)	
		Inspection Checklis
		B
		Labels & Chains Agree?
		VOC Head Space?
Printed Name Signature	Company	57.5
telinguished by Shella Swan Sh	NEER 2/5/14	emperaure (°C) Z.O
teceived by 3 Thomson 18th	town Awate 2/1/14/13/10	Preservative
telinquished by		
teceived by		Date & Time 2/7/14 13/09
telinquished by		Inspected By: 137
Received by		