

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 [*Callinassa 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 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.



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.



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

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Table 2: Previous Sediment Sampling Results

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Figure 2: Previous TPH and Bioassay Results

Figure 3: TPH-HO Results

Figure 4: Recommended Bioassay Locations

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Attachment 2: Field Logs

Attachment 3: Analytical Laboratory Report



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Tables

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Table 1: Supplemental Sediment Sampling Results

Sample	Depth (ft bgs)	TPH-D (mg/kg)	TPH-HO (mg/kg)	Grain Size (% fines)
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
	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
	2 - 3	25 U	100 U	5.9
SD-48	0 - 0.5	25 U	117	3.6
	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
	2 - 3	25 U	196	2.2
SD-51	0 - 0.5	25 U	100 U	4.4
	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
	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

Sediment Sample	Sample Depth (ft bgs)	Sample Date	TPH-D (mg/kg)	TPH-HO (mg/kg)	Total TPH ¹ (mg/kg)	Pass/Fail Biological Criteria?	Grain Size (% 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	2 - 3	2/4/14	13 U	50 U	50 U	--	5.9
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-49	0.5 - 1	2/4/14	25 U	100 U	100 U	--	4.5
SD-50	0.5 - 1	2/3/14	13 U	309	309	--	3.3
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	--	2.0

Notes:

J: Concentration presented is estimated.

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

¹SMS 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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Supplemental Sediment Sampling Locations
Supplemental Sediment Sampling Results for the Solid Wood Incorporated Site
Olympia, Washington

Figure 1



Legend

Focus Area

1. TPH-HO Concentration¹
 2. TPH-D Concentration¹
 3. Bioassay Results²

TPH Concentrations

- Non-Detect
- 0 - 100 mg/kg
- 101 - 400 mg/kg
- 401 - 700 mg/kg
- > 701 mg/kg

Bioassay Results

- Pass
- Fail

Notes:
¹ Only the maximum concentration at each sample location is displayed.
² If one of the three bioassay tests failed the sample location was designated "fail".



West Bay of Budd Inlet



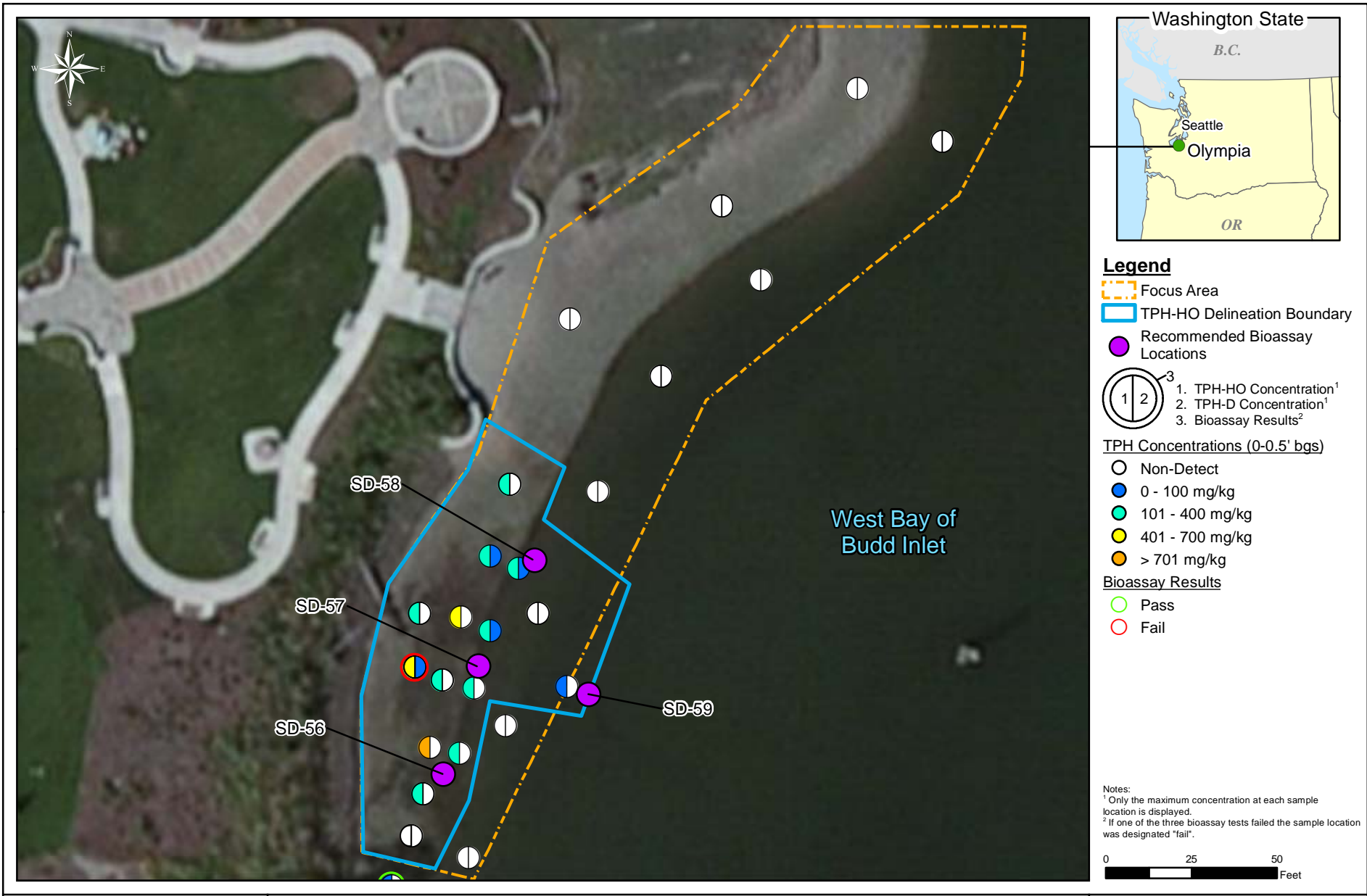
Previous TPH and Bioassay Results
 Supplemental Sediment Sampling Results for the Solid Wood Incorporated Site
 Olympia, Washington

Figure 2



TPH-HO Results
Supplemental Sediment Sampling Results for the Solid Wood Incorporated Site
Olympia, Washington

Figure 3



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

Figure 4

Attachment 1

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Photographic Log

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Photographic Log

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.



Photographic Log

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.	

Photographic Log

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.



Photographic Log

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.



Photographic Log

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.



Photographic Log

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.	

Photographic Log

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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double-sided printing.

PIONEER DAILY FIELD REPORT

Date: 2/3/14 Site Location: West Bay Site Arrival Time: 1:40 Site Departure Time: 5:30

WEATHER
TEMPERATURE
WIND

Clear Sun	Overcast	Drizzle	Rain	Snow
To 32	32-50	50-70	70-85	85 Up
Calm	Med.	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE
Shella Swain	PIONEER	1:40 - 5:30
Daniel Brittain	PIONEER	1:40 - 5:30

NOTES ON WORK COMPLETED

1:40 Arrival on-site. Tide still high

2:15 SD-55

part gray sand ~~and~~ ^{met} no odor or sheen
shell & wood particles, large mussels & rocks

2:30 SD-54 2:30, 2:35

part gray sand. no odor or sheen
large rocks and shells
extremely saturated. stream run into

Deep sample, no shell pieces
- deep water bubbling while digging
- sheen on water
- no odor

2:45 SD-52 3:25, 3:45

shallow - when water pooled, slight sheen
was visible

deep - large rocks & bricks dug up

3:47 SD-51 shallow at 3:50

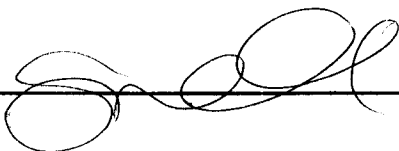
SS began shallow while D's dug deep @ SD-52

4:15 SD-51 Deep

- mostly sand, some wood particles
- no odor or sheen seen

4:20 SD-51 - 2-3 dup

SIGNATURE: _____



DATE: 2/3/14

PIONEER DAILY FIELD REPORT

Date: 2/3/14 Site Location: West Bay Site Arrival Time: 1:40 Site Departure Time: 5:30

WEATHER
TEMPERATURE
WIND

Clear Sun	Overcast	Drizzle	Rain	Snow
To 32	32-50	50-70	70-85	85 Up
Calm	Med	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE
Daniel Brittain	PIONEER	1:40 - 5:30
Shella Swain	PIONEER	1:40 - 5:30

NOTES ON WORK COMPLETED

~~4:35~~ 4:35 SD-50 shallow
4:40 deep

- slight sheen
- no odor
- minimal rock/shell
- lots of organic material

~~5:00~~
4:50 SD-48 shallow
5:00 SD-48 deep

- very rocky - higher on beach in ~~sed~~ rocky area
- high amounts of bark
- no odor or sheen visible

SIGNATURE: 

DATE: 2/3/14

PIONEER DAILY FIELD REPORT

Date: 2/4/14 Site Location: West Key Site Arrival Time: 1:30 Site Departure Time: 6:00

WEATHER
TEMPERATURE
WIND

Clear Sky	Overcast	Drizzle	Rain	Snow
To 32	32-50	50-70	70-85	85 Up
Calm	Med.	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE
SHONA SWAN	PIONEER	1:30 - 6:00
Daniel Balthus	PIONEER	1:30 - 6:00

NOTES ON WORK COMPLETED

SD-53 shallow 4:10

- large grain size
- spongy texture
- no silt or clay
- small pebbles

deep 5:30

- less sample volume due to rocks + high amount of liquid

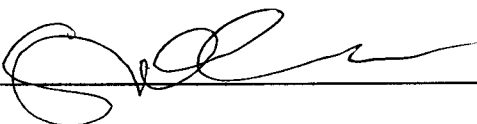
SD-46 shallow 4:50

- large grain size
- spongy texture
- no silt or clay

SD-44 shallow 5:30

- light brown clayey sand
- rocky + shell
- no silt or clay

SIGNATURE: _____



DATE: _____

2/4/14

PIONEER DAILY FIELD REPORT

Date: 2/4/14 Site Location: West Bay Site Arrival Time: 1:30 Site Departure Time: 6:00

WEATHER
TEMPERATURE
WIND

Clear Sun	Overcast	Drizzle	Rain	Snow
10-32	32-50	50-70	70-85	85 Up
Calm	Med	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE
Shella Swain	PIONEER	1:30 - 6:00
Daniel Buitain	PIONEER	1:30 - 6:00
Steve Teel	Ecology	3:00 - 3:45

NOTES ON WORK COMPLETED

SD-49 Shallow 2:05
Deep 2:15

- Difficulty collecting 1st sample - lots of large rocks
- no odor, sheen
- lots of crabs and invertebrate activity

SD-47 Shallow 2:35
Deep 3:05

- Lots of large rock, crab and invertebrate activity
- dark sand
- no odor or sheen

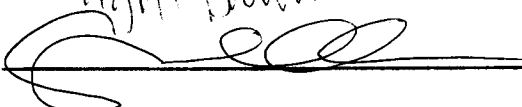
SD-45 Shallow 3:15
Deep 3:45

- Lots of biological activity - crabs, invertebrates
- no odor or sheen
- larger grain size

SD-43 Shallow 3:50
Deep 4:10

- *Not much sample volume due to ricks + high liquid
- large grain size (unsaturated)
- high amount of shell
- no odor
- light brown

SIGNATURE:



DATE: 2/4/14

PIONEER DAILY FIELD REPORT

Date: 2/5/14 Site Location: west bay Site Arrival Time: 1:30 Site Departure Time: 4:00

WEATHER
TEMPERATURE
WIND

Clear Sun	Overcast	Drizzle	Rain	Snow
To 32	32-50	50-70	70-85	85 Up
Calm	Med	Strong	Severe	

PEOPLE PRESENT ON-SITE

NAME	ASSOCIATION	TIME ON-SITE AND OFF-SITE
DANIEL BRITTAIN	PIONEER	1:30 - 4:00
SHELLA SWAIN	PIONEER	1:30 - 4:00

NOTES ON WORK COMPLETED

SD-416 deep 1:50

- dark brown, spangly
- saturated
- small amount of pebbles
- no odor or sheen
- lots of organic matter

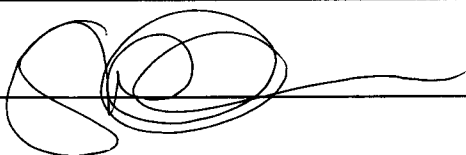
SD-44 deep 2:00

- light brown, extremely saturated
- fine grain
- very rocky
- no biological activity
- no odor or sheen

SD-42 shallow 2:15
deep 2:30

- sandy area → grey, brown
- med grain
- no odor or sheen

Overall notes: Samples further south appeared darker. Samples near spit were light brown. smaller grain size in further out samples. Most bio. activity mid-beach in middle of focus area.

SIGNATURE: 

DATE: 2/5/2014

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Attachment 3

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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

Sample Number	140207024-001	Sampling Date	2/5/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-44-020514-2-3	Sampling Time	2:00 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	140207024-001		
Surrogate Standard	hexacosane	Method	Percent Recovery
		NWTPHDX	115.4
			Control Limits
			50-150

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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

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

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Address: 5205 CORPORATE CENTER COURT **Project Name:** WEST BAY
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Attn: CHRIS WALDRON

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	mg/kg	100	2/10/2014	KFG	NWTPHDX	
Lube Oil	975	mg/kg	400	2/10/2014	KFG	NWTPHDX	

Surrogate Data

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

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Attn: CHRIS WALDRON

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

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Address: 5205 CORPORATE CENTER COURT **Project Name:** WEST BAY
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Attn: CHRIS WALDRON

Analytical Results Report

Sample Number	140207024-007	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM	
Client Sample ID	SD-WB-50-020314-05-1	Sampling Time	4:35 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	309	mg/kg	100	2/10/2014	KFG	NWTPHDX	

Surrogate Data

Sample Number	140207024-007			
Surrogate Standard		Method	Percent Recovery	Control Limits
hexacosane		NWTPHDX	116.8	50-150

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Attn: CHRIS WALDRON

Analytical Results Report

Sample Number	140207024-008	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM	
Client Sample ID	SD-WB-48-020314-05-1	Sampling Time	4:50 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	117	mg/kg	100	2/10/2014	KFG	NWTPHDX	

Surrogate Data

Sample Number	140207024-008			
Surrogate Standard		Method	Percent Recovery	Control Limits
hexacosane		NWTPHDX	113.4	50-150

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Address: 5205 CORPORATE CENTER COURT **Project Name:** WEST BAY
LACEY, WA 98503
Attn: CHRIS WALDRON

Analytical Results Report

Sample Number	140207024-009	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM	
Client Sample ID	SD-WB-48-020314-2-3	Sampling Time	5:00 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	200	mg/kg	100	2/10/2014	KFG	NWTPHDX	

Surrogate Data

Sample Number	140207024-009			
Surrogate Standard		Method	Percent Recovery	Control Limits
hexacosane		NWTPHDX	111.8	50-150

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Attn: CHRIS WALDRON

Analytical Results Report

Sample Number	140207024-010	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM	
Client Sample ID	SD-WB-50-020314-2-3	Sampling Time	4:40 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	196	mg/kg	100	2/11/2014	KFG	NWTPHDX	

Surrogate Data

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

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Address: 5205 CORPORATE CENTER COURT **Project Name:** WEST BAY
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Attn: CHRIS WALDRON

Analytical Results Report

Sample Number	140207024-011	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM	
Client Sample ID	SD-WB-54-020314-05-1	Sampling Time	2:30 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	140207024-011			
Surrogate Standard		Method	Percent Recovery	Control Limits
hexacosane		NWTPHDX	117.2	50-150

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LACEY, WA 98503
Attn: CHRIS WALDRON

Analytical Results Report

Sample Number	140207024-013	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-55-020314-05-1	Sampling Time	2:15 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	106	mg/kg	100	2/11/2014	KFG	NWTPHDX	

Surrogate Data

Sample Number	140207024-013			
Surrogate Standard		Method	Percent Recovery	Control Limits
hexacosane		NWTPHDX	113.4	50-150

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Address: 5205 CORPORATE CENTER COURT **Project Name:** WEST BAY
LACEY, WA 98503
Attn: CHRIS WALDRON

Analytical Results Report

Sample Number	140207024-014	Sampling Date	2/4/2014	Date/Time Received	2/7/2014	1:09 PM	
Client Sample ID	SD-WB-44-020414-05-1	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	140207024-014			
Surrogate Standard		Method	Percent Recovery	Control Limits
hexacosane		NWTPHDX	118.6	50-150

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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

Sample Number	140207024-015	Sampling Date	2/4/2014	Date/Time Received	2/7/2014	1:09 PM	
Client Sample ID	SD-WB-46-020414-05-1	Sampling Time	4:50 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	140207024-015			
Surrogate Standard		Method	Percent Recovery	Control Limits
hexacosane		NWTPHDX	120.4	50-150

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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

Sample Number	140207024-017	Sampling Date	2/4/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-53-020414-05-1	Sampling Time	4:10 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	115	mg/kg	100	2/11/2014	KFG	NWTPHDX	

Surrogate Data

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

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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

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

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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

Sample Number	140207024-019	Sampling Date	2/4/2014	Date/Time Received	2/7/2014	1:09 PM	
Client Sample ID	SD-WB-43-020414-2-3	Sampling Time	4:16 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	351	mg/kg	200	2/11/2014	KFG	NWTPHDX	

Surrogate Data

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

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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

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

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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

Sample Number	140207024-021	Sampling Date	2/4/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-43-020414-05-1	Sampling Time	3:50 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	140207024-021			
Surrogate Standard	hexacosane	Method	Percent Recovery	Control Limits
		NWTPHDX	65.6	50-150

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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

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

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

Surrogate Data

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

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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

Sample Number	140207024-023	Sampling Date	2/4/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-45-020414-05-1	Sampling Time	3:15 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	140207024-023			
Surrogate Standard	hexacosane	Method	Percent Recovery	Control Limits
		NWTPHDX	50.6	50-150

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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

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

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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

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

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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

Sample Number	140207024-027	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM	
Client Sample ID	SD-WB-52-020314-05-1	Sampling Time	3:25 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	140207024-027			
Surrogate Standard		Method	Percent Recovery	Control Limits
hexacosane		NWTPHDX	74.3	50-150

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Address: 5205 CORPORATE CENTER COURT **Project Name:** WEST BAY
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Attn: CHRIS WALDRON

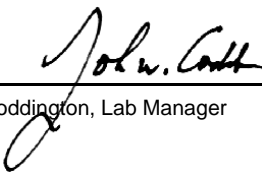
Analytical Results Report

Sample Number	140207024-029	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM	
Client Sample ID	SD-WB-51-020314-05-1	Sampling Time	3:50 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	140207024-029			
Surrogate Standard		Method	Percent Recovery	Control Limits
hexacosane		NWTPHDX	56.8	50-150

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.

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Client: PIONEER TECHNOLOGIES CORPORATION **Batch #:** 140207024
Address: 5205 CORPORATE CENTER COURT **Project Name:** WEST BAY
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Attn: CHRIS WALDRON

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Diesel	87.0	mg/kg	100	87.0	50-150	2/8/2014	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	2/8/2014	2/10/2014

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Diesel	89.6	mg/kg	100	89.6	5.2	0-50	2/8/2014	2/10/2014

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Diesel	ND	mg/kg	25	2/8/2014	2/10/2014
Lube Oil	ND	mg/kg	100	2/8/2014	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
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Attn: CHRIS WALDRON

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Diesel	99.2	mg/kg	100	99.2	50-150	2/10/2014	2/11/2014

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
140207024-018	Diesel	ND	147	mg/kg	100	147.0	50-150	2/10/2014	2/11/2014

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Diesel	106	mg/kg	100	106.0	32.4	0-50	2/10/2014	2/11/2014

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Diesel	ND	mg/kg	25	2/10/2014	2/11/2014
Lube Oil	ND	mg/kg	100	2/10/2014	2/11/2014

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
LACEY, WA 98503
Attn: CHRIS WALDRON

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS 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 %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
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moscow@anateklabs.com

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:

$$\% \text{ Fines} = 100\% - 100\% \times \left(\frac{\text{Final Wt.} - \text{Beaker Wt.} - \text{Filter Wt.}}{\text{Initial Jar Wt.} - \text{Final Jar Wt.}} \right)$$

Approved by:

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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

Sample Number	140207024-001	Sampling Date	2/5/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-44-020514-2-3	Sampling Time	2:00 PM			
Matrix	Soil	Sample Location				
Comments						

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

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			
Matrix	Soil	Sample Location				
Comments						

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

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			
Matrix	Soil	Sample Location				
Comments						

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 **Batch #:** 140207024
Address: 5205 CORPORATE CENTER COURT **Project Name:** WEST BAY
LACEY, WA 98503
Attn: CHRIS WALDRON

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

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

Sample Number	140207024-008	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-48-020314-05-1	Sampling Time	4:50 PM			
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	33	Percent		2/8/2014	KFG	%moisture	

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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

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

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	60	Percent		2/8/2014	KFG	%moisture	

Sample Number	140207024-010	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-50-020314-2-3	Sampling Time	4:40 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	140207024-011	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-54-020314-05-1	Sampling Time	2:30 PM			
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	19.8	Percent		2/8/2014	KFG	%moisture	

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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

Sample Number	140207024-013	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-55-020314-05-1	Sampling Time	2:15 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	140207024-014	Sampling Date	2/4/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-44-020414-05-1	Sampling Time	5:30 PM			
Matrix	Soil	Sample Location				
Comments						

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

Sample Number	140207024-015	Sampling Date	2/4/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-46-020414-05-1	Sampling Time	4:50 PM			
Matrix	Soil	Sample Location				
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 **Batch #:** 140207024
Address: 5205 CORPORATE CENTER COURT **Project Name:** WEST BAY
LACEY, WA 98503
Attn: CHRIS WALDRON

Analytical Results Report

Sample Number 140207024-017 **Sampling Date** 2/4/2014 **Date/Time Received** 2/7/2014 1:09 PM
Client Sample ID SD-WB-53-020414-05-1 **Sampling Time** 4:10 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 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
Matrix Soil **Sample Location**
Comments

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

Sample Number 140207024-019 **Sampling Date** 2/4/2014 **Date/Time Received** 2/7/2014 1:09 PM
Client Sample ID SD-WB-43-020414-2-3 **Sampling Time** 4:16 PM
Matrix Soil **Sample Location**
Comments

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

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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

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			
Matrix	Soil	Sample Location				
Comments						

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

Sample Number	140207024-021	Sampling Date	2/4/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-43-020414-05-1	Sampling Time	3:50 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	140207024-022	Sampling Date	2/4/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-47-020414-2-3	Sampling Time	3:05 PM			
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	24.5	Percent		2/10/2014	KFG	%moisture	

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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

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

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

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			
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	42.2	Percent		2/10/2014	KFG	%moisture	

Sample Number	140207024-027	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-52-020314-05-1	Sampling Time	3:25 PM			
Matrix	Soil	Sample Location				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
%moisture	36.1	Percent		2/10/2014	KFG	%moisture	

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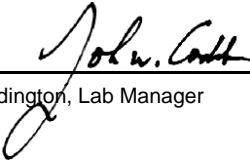
Client: PIONEER TECHNOLOGIES CORPORATION **Batch #:** 140207024
Address: 5205 CORPORATE CENTER COURT **Project Name:** WEST BAY
LACEY, WA 98503
Attn: CHRIS WALDRON

Analytical Results Report

Sample Number	140207024-029	Sampling Date	2/3/2014	Date/Time Received	2/7/2014	1:09 PM
Client Sample ID	SD-WB-51-020314-05-1	Sampling Time	3:50 PM			
Matrix	Soil	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.

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Login Report

Customer Name: PIONEER TECHNOLOGIES CORPORATION
5205 CORPORATE CENTER COURT
LACEY WA 98503

Order ID: 140207024
Order Date: 2/7/2014

Contact Name: CHRIS WALDRON

Project Name: WEST BAY

Comment:

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

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
%Moisture	M	%moisture	2/19/2014	<u>Normal (~10 Days)</u>
TPHDX-NW	M	NWTPHDX	2/19/2014	<u>Normal (~10 Days)</u>

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	<u>Normal (~10 Days)</u>

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	<u>Normal (~10 Days)</u>

Customer Name: PIONEER TECHNOLOGIES CORPORATION
5205 CORPORATE CENTER COURT
LACEY WA 98503

Order ID: 140207024
Order Date: 2/7/2014

Contact Name: CHRIS WALDRON

Project Name: WEST BAY

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

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

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

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

Customer Name: PIONEER TECHNOLOGIES CORPORATION
5205 CORPORATE CENTER COURT
LACEY WA 98503

Order ID: 140207024
Order Date: 2/7/2014

Contact Name: CHRIS WALDRON

Project Name: WEST BAY

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

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

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

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

Customer Name: PIONEER TECHNOLOGIES CORPORATION
5205 CORPORATE CENTER COURT
LACEY WA 98503

Order ID: 140207024
Order Date: 2/7/2014

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	<u>Normal (~10 Days)</u>

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

Sample #: 140207024-014 **Customer Sample #:** SD-WB-44-020414-05-1

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

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

Customer Name: PIONEER TECHNOLOGIES CORPORATION
5205 CORPORATE CENTER COURT
LACEY WA 98503

Order ID: 140207024
Order Date: 2/7/2014

Contact Name: CHRIS WALDRON

Project Name: WEST BAY

Comment:

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

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

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	M	%moisture	2/19/2014	<u>Normal (~10 Days)</u>
TPHDX-NW	M	NWTPHDX	2/19/2014	<u>Normal (~10 Days)</u>

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

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

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

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

Customer Name: PIONEER TECHNOLOGIES CORPORATION
5205 CORPORATE CENTER COURT
LACEY WA 98503

Order ID: 140207024
Order Date: 2/7/2014

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

Comment:

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

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

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

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

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

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

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

Customer Name: PIONEER TECHNOLOGIES CORPORATION
5205 CORPORATE CENTER COURT
LACEY WA 98503

Order ID: 140207024
Order Date: 2/7/2014

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

Comment:

Test	Lab	Method	Due Date	Priority
HOLD	M	hold	2/19/2014	<u>Normal (~10 Days)</u>

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
%Moisture	M	%moisture	2/19/2014	<u>Normal (~10 Days)</u>
TPHDX-NW	M	NWTPHDX	2/19/2014	<u>Normal (~10 Days)</u>

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

Recv'd: **Collector:** SHELLA **Date Collected:** 2/5/2014
Quantity: 1 **Matrix:** Water **Date Received:** 2/7/2014 1:09:00 PM

Comment:

Test	Lab	Method	Due Date	Priority
TPHDX-NW	M	NWTPHDX	2/19/2014	<u>Normal (~10 Days)</u>

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

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

Customer Name: PIONEER TECHNOLOGIES CORPORATION
5205 CORPORATE CENTER COURT
LACEY WA 98503

Order ID: 140207024
Order Date: 2/7/2014

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
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	<u>Normal (~10 Days)</u>

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

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



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

Chain of Custody Record

Anatek Log-in #

Turn Around Time & Reporting

Please refer to our normal turn around times at:
<http://www.anatek-labs.com/services/guidelines/reporting.asp>

Normal Next Day*
 2nd Day*
 Other*
 *All rush order requests must be prior approved.
 Phone
 Mail
 Fax
 Email

Note Special Instructions/Comments

List Analyses Requested

Provide Sample Description

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Preservative	TPH-D ₂	GRAINS ₂
14	SP-WB-44-020414-05-1	2/4/14/5:30	SOIL	4-2	X	X		
15	SP-WB-46-020414-05-1	2/4/14/4:50	SOIL	4-2	X	X		
16	SP-WB-45-020414-2-3	2/4/14/3:45	SOIL	4-2	X	X		
17	SP-WB-5-020414-45-1	2/4/14/4:10	SOIL	4-2	X	X		
18	SP-WB-53-020414-2-3	2/4/14/5:30	SOIL	4-2	X	X		
19	SP-WB-43-020414-2-3	2/4/14/4:16	SOIL	2	X	X		
20	SP-WB-47-020414-05-1	2/4/14/2:25	SOIL	2	X	X		
21	SP-WB-43-020414-05-1	2/4/14/3:50	SOIL	2	X	X		
22	SP-WB-47-020414-2-3	2/4/14/3:05	SOIL	2	X	X		
23	SP-WB-45-020414-05-1	2/4/14/3:15	SOIL	2	X	X		
24	SP-WB-44-020414-2-3	2/4/14/2:15	SOIL	2	X	X		
25	SP-WB-44-020414-05-1	2/4/14/2:05	SOIL	2	X	X		
26	SP-WB-020514	2/5/14/3:00	WATER	1	X	X		

Received by: Shellia Swain Date: 2/5/14 Time: 3:40

Received by: B Thonson Date: 2/7/14 Time: 13:12

Relinquished by: _____

Relinquished by: _____

Relinquished by: _____

Received by: _____

Received by: _____

Received by: _____

Inspection Checklist

Received intact? Y

Labels & Chains Agree? Y

Containers Sealed? Y

VOC Head Space? Y

Temperature (°C) 2.0

Preservative: _____

Date & Time: 2/7/14 13:12

Inspected By: BT

Note Special Instructions/Comments

← * NEGATIVE UNTIL FURTHER NOTICE

