



PCB Soils Investigation Report

Operable Unit (OU) 2
Former Frenchtown Mill
Missoula County, Montana

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1.0 INTRODUCTION

NewFields Companies, LLC (NewFields) prepared this Soils Investigation Report to present the findings of a Polychlorinated Biphenyl (PCB) soils investigation completed in OU2 at the former Smurfit Stone/Frenchtown Mill, hereafter referred to as the “Site”. The Site is located north of Fairbanks Lane and west of Mullan Road, Missoula County, Montana (**Figure 1**), and has the physical address of 14377 Pulp Mill Road, Missoula, Montana. The PCB soils investigation was completed in accordance with *Addendum No. 2 to the Remedial Investigation Work Plan, Additional Soil Sampling for PCBs at the High Density Pulp Tank Foundation and Transformer Storage Building Foundation Areas, Smurfit Stone/Frenchtown Mill, Missoula County, Montana* (NewFields, 2016a) on behalf of International Paper Company, M2Green Redevelopment, LLC, and WestRock CP, LLC, collectively referred to as Potential Responsible Parties (PRPs).

1.1 PURPOSE OF INVESTIGATION

An initial soils investigation was completed in December 2015 in Operable Unit 2 (OU2). The initial investigation detected PCBs (Aroclors 1254 and 1260) in surface soils at elevated concentrations in two areas: High Density Pulp Tank Foundation (HDPT) and Transformer Storage Building (TSB) Area. The purpose of the subsequent soil investigation was to evaluate the extent of PCB soil impacts in each of the areas as shown on **Figure 2**.



2.0 FIELD INVESTIGATION

2.1 SOIL SAMPLING APPROACH

Soil samples during the PCB investigation in OU2 were collected in general accordance with the approved Remedial Investigation Work Plan Addendum 2 and the Quality Assurance Project Plan (NewFields 2016a; 2015b). The soils investigation was overseen by Ms. Heather Grotbo, an environmental scientist with NewFields Missoula office on August 22-23, 2016, and Ms. Sara Sparks of the Environmental Protection Agency (EPA) was on site on August 22, 2016 to oversee the investigation.

Soil samples were collected by Northern Lights Drilling of Post Falls, Idaho using direct-push drilling techniques (e.g., Geoprobe®) to total depths of 4 feet below ground surface (bgs) in the TSB Foundation Area and 10 feet bgs in the HDPT area. The rig was equipped with a four-foot sample sleeve, capable of continuous sampling over a four-foot soil interval. Prior to sampling and between each borehole location, all field equipment was decontaminated to reduce the potential for introduction of contaminants to the site and cross contamination between soil borehole locations. Equipment rinse blank and field duplicate samples were collected to evaluate decontamination procedures and laboratory accuracy, respectively. All samples collected for analytical testing were immediately placed in coolers containing ice and were shipped under chain-of custody to Pace Analytical Laboratories (Pace) in Minneapolis, Minnesota, for PCB analysis using EPA Methods SW-846 Method 8082A. The soil stratigraphy and percent recovery from the retrieved sample sleeve were recorded on field/boring log forms (**Appendix A**). Upon completion of sample collection, each borehole was filled with hydrated bentonite.

2.1.1 HDPT Foundation Area

Figure 3 shows the locations of the surface and subsurface soil samples collected within and outside the ring foundation in HDPT area. The approach in this area involved advancing a borehole at the location of the previous elevated detection of PCBs in samples SB-18 and SB-19 collected during the 2015 investigation to evaluate the vertical extent of PCB impacts. Additional boreholes were also advanced to evaluate the lateral extent of PCB impacts. Borehole locations were initially determined during a site visit with NewFields, EPA, and MDEQ on August 2, 2016, with locations selected to avoid areas of visible concrete surfaces.

Borehole (HDPT SB-38) was advanced at the previous location of SB-18 and SB-19 to depths greater than two feet to evaluate the vertical extent of PCBs in soil. To evaluate the lateral extent of PCB impacts, two boreholes (HDPT SB-39 and HDPT SB-40) were drilled inside the ring and three boreholes (HDPT SB-41 to HDPT SB-43) were drilled outside the ring. As discussed in Section 2.1.2 of this report and as shown on **Figure 3**, HDPT SB-42 had to be moved from west of SB-18 and SB-19 to north of these samples due to the presence of a buried concrete slab encountered below grade. In accordance with the approved Addendum No. 2 (NewFields, 2016a), a subset of the soil samples was analyzed first, followed by a second round of sample analysis based on the initial sample results, to evaluate the extent of PCBs detected in soils. **Table 1** identifies the samples that were initially analyzed for PCBs and the samples analyzed subsequently. In total, twenty-two (22) soil samples were collected in the HDPT ring foundation area from six boring locations and 14 samples were analyzed to evaluate the extent of PCB soils contamination.



2.1.2 Deviation from Work Plan Addendum 2 in HDPT Area

Addendum 2 to the remedial investigation work plan proposed collection of samples from depths of 1 to 4 feet bgs within and outside of the HDPT ring. Due to the unconsolidated nature of the fill material in and around the HDPT ring, and the presence of buried concrete below grade, changes to the investigation approach were necessary, including:

- The proposed location for borehole HDPT42 outside the ring had to be moved from west of the HDPT ring to north of SB-18 and SB-19 (**Figure 3**) due to the presence of buried concrete.
- In some instances, cobbles prevented penetration of soils and movement into the sample sleeve, therefore requiring borehole depths greater than four feet bgs to recover a sufficient sample volume for analysis (see field notes and borehole logs in **Appendix A**). Soils in the HDPT area were generally unconsolidated fill materials with numerous cobbles. The field scientist assigned sample depths based upon professional judgment and in consult with the driller. Due to drilling difficulties and the nature of materials in this area, the sample depth and resultant concentration of PCBs at any borehole location should be considered relevant to a given sampling interval, rather than at a specific grab sample depth.

2.2 TSB FOUNDATION AREA

Soil samples in the TSB Foundation Area were also collected in general accordance with the approved Remedial Investigation Work Plan Addendum 2 and the Quality Assurance Project Plan (NewFields 2016a; 2015b). In this area, soil samples were collected from seven boreholes by Northern Lights Drilling using Geoprobe® to the prescribed depths proposed in Addendum 2. Except for soils from approximately 0-4 inches bgs, soils in this area were native and there were no sample recovery difficulties. Procedures to collect and describe sample lithology, decontamination, sample handling, and borehole backfilling were identical to those used for the HDPT investigation described above. Field notes and boring logs for this area are included in **Appendix A**.

Figure 4 shows the locations of the seven borings completed during the soils investigation in the TSB Foundation Area. Samples were collected in an arc pattern to the north and east at distances of 5 and 10 feet from the 2015 sample which contained elevated PCBs (SS-28). Similar to the sampling approach in the HDPT area, and in accordance with the approved Addendum No. 2, a subset of the soil samples was first analyzed followed by a second round of analysis based on the initial sample results, as necessary to evaluate the extent of PCB detected at concentrations above the EPA industrial direct-contact regional screening level (**Table 2**). In total, 21 samples were collected and five soil samples were analyzed from the TSB foundation area to evaluate the extent of PCB soils contamination.

Samples were not collected to the south and west under the concrete slab during the investigation of the TSB Foundation Area. It is unlikely that PCBs penetrated the slab. The slab is in good condition, there is no oil staining on the slab, and the sump in the floor of the slab is a closed sump (i.e. has no outlet). Sidewall confirmation samples can be collected below the slab on the southern and western boundaries of the excavation, as necessary, to evaluate any migration under the slab.



QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

Three types of quality control (QC) samples were collected during the PCB soils investigation. A field duplicate (FD) sample and equipment rinse blank (ERB) sample were collected, and a deionized rinse water field blank (DFB) was collected. Each of the QC samples was submitted to Pace along with natural samples and analyzed for PCBs per EPA SW-846 Method 8082A.



3.0 INVESTIGATION RESULTS

3.1 HDPT FOUNDATION AREA

Tables 1 and 2 and **Figure 3** present the results of the PCB soil investigation in the HDPT Foundation Area. **Appendix B** includes the laboratory analytical reports for all samples, and data validation summaries are included in **Appendix C**.

The PCBs detected in this area are limited to those associated with Aroclor 1260. At this location, concentrations of Aroclor 1260 were detected in soil above the EPA residential and industrial direct-contact regional screening levels (RSLs) of 240 and 990 micrograms per kilogram ($\mu\text{g}/\text{kg}$), respectively. For purposes of this investigation results are compared to direct-contact RSLs for residential and industrial use; however, it should be noted that future cleanup levels selected for soils in OU2 2 feet bgs will likely be based on a construction worker exposure scenario.

Of the 14 samples analyzed, three had PCB Aroclor 1260 concentrations above the EPA industrial direct-contact RSL (HDPT38-SB-3 and HDPT39 SB-4 and SB-6). The samples collected in the HDPT foundation area did not fully define the extent of PCBs in soils above the industrial direct contact RSL, although the extent was defined at some locations. The sample collected in borehole 38 (HDPT38 SB-4) at 4 feet bgs defined the vertical extent of PCBs detected above the industrial direct-contact RSL in SB-18 and SB-19 in 2015 (see **Figure 3**). The PCB concentration of the deepest sample in borehole 39 (HDPT39-SB-6), located approximately 4 feet from the inside of the southeast corner of the foundation ring, collected at approximately 6 feet bgs, had a concentration of 1,470 $\mu\text{g}/\text{kg}$, above the EPA industrial direct-contact RSL of 990 $\mu\text{g}/\text{kg}$ (**Table 1** and **2**). The vertical extent of PCBs above the industrial direct-contact RSL below this sample at 6 feet bgs was not defined. The lateral extent to the northeast and south of SB-39 was also not defined due to borehole refusal (SB-41) at 5 feet bgs and poor sample recovery in SB-43. The sample collected from SB-40 inside the ring and west of borehole SB-39 at approximately 7 feet bgs, did however, define the lateral extent of PCBs to the west of borehole SB-39 (see **Figure 3** and **Tables 1** and **2**).

3.2 TSB FOUNDATION AREA

Tables 1 and 2 and **Figure 4** present the results of the PCB soil investigation in the TSB Foundation Area. Laboratory analytical reports are included in **Appendix B**. Data validation summaries are included in **Appendix C**.

The PCBs detected in this area were associated with Aroclors 1254 and 1260. The investigation in this area was completed to evaluate the extent of PCBs detected in SS-28 from a depth of 0-2 inches during the 2015 remedial investigation. Soil borehole SB-44 was drilled at the same location of SS-28 to evaluate the vertical extent of PCB impacts. Other boreholes (SB45 to SB-50) were drilled to evaluate the lateral extent of impacts surrounding SS-28. Five samples were submitted for PCB analysis in the TSB area. The samples from SB-44 at one and two feet bgs defined the vertical extent of PCBs detected in SS-28 above the industrial direct-contact RSL. The other three samples from SB-45, 46, and 47) at one foot bgs defined the lateral extent of PCBs above the industrial direct-contact RSLs in SS-28. Only one sample from SB-46 at one foot bgs contained PCBs (aroclor 1254) above the residential direct-contact RSL.



3.3 DATA VALIDATION AND MANAGEMENT

Appendix C includes a summary of data validation and evaluation of data quality. The FSP and QAPP, (Appendices D, and E respectively, in the RIWP) were used as guidance documents for verification and validation of data collected during this investigation.

All data collected during the soils investigation are usable for characterizing the extent of PCBs in OU2. No data were rejected based on results of the data review and validation process. Some data has been qualified, as depicted in **Table 2**. Data qualified with a J-flag in the table indicates that the data or concentrations are estimated values. Measurements that are reported below the laboratory reporting limit are qualified with a U-flag.

All data collected during this RI is being managed consistent with the Data Management Memorandum (NewFields, 2016b). Consistent with the RIWP, the data has been uploaded to the site-specific SCRIBE database.



4.0 RECOMMENDATIONS

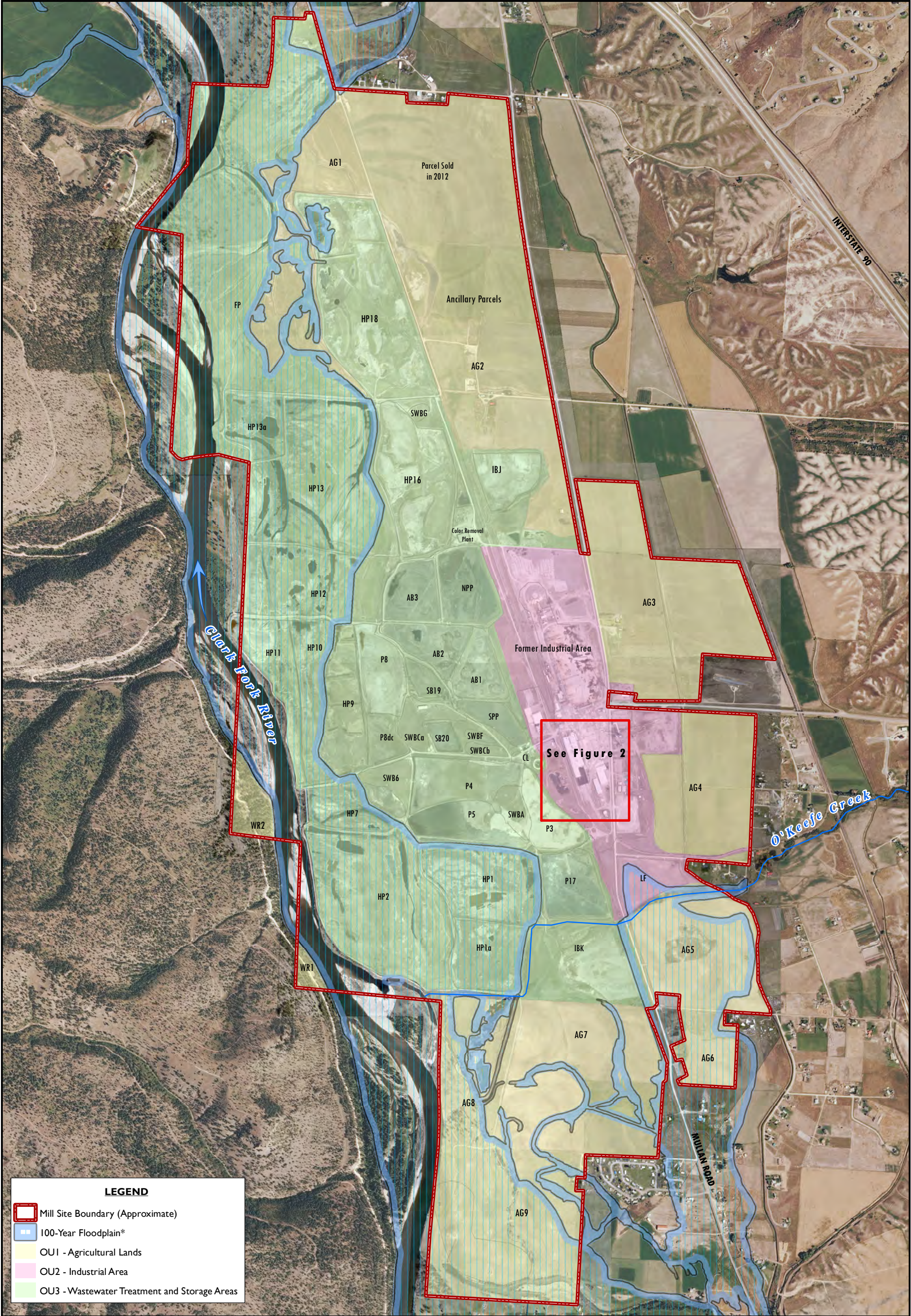
The extent of PCBs in surface soils in the TSB foundation area above the industrial direct-contact RSLs for Aroclors 1254 and 1260 was defined. While the additional investigation of PCBs in soil in the HDPT foundation area did not fully define the extent of impacts in soil above the EPA industrial direct-contact RSL, the investigation did provide sufficient information to move forward with a soil removal response action. A response action is proposed for both areas knowing that confirmation samples will be collected to demonstrate that soils containing PCBs above applicable soil cleanup levels in OU2 are removed. At this time, the PRPs propose to develop a plan for the removal of PCB-impacted soils in both the HDPT and TSB foundation areas. This plan would define depths of excavation, propose site-specific cleanup levels for surface and subsurface soils, describe the number of confirmation samples to be collected, and the disposal location for the PCB-impacted soils.



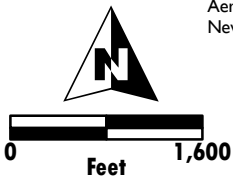
5.0 REFERENCES

- EPA, 2016.** *National Priority Drinking Water Regulations.* <https://www.epa.gov/ground-water-and-drinking-water/table-regulated-drinking-water-contaminants>. 2016
- MDEQ, 2012.** *Circular DEQ-7, Montana Numeric Water Quality Standards.* August 2012.
- NewFields, 2016a.** *Addendum No. 2 to the Remedial Investigation Work Plan, Additional Soil Sampling for PCBs at the High Density Pulp Tank Foundation and Transformer Storage Building Foundation Areas, Smurfit Stone/Frenchtown Mill, Missoula County, Montana.* August 2016.
- NewFields, 2016b.** *Data Management Process Memorandum, Former Smurfit Stone/Frenchtown Mill Project, Missoula County, Montana.* May 2016.
- NewFields, 2016c.** *Draft Groundwater Data Summary Report, June 2016, Seasonally High Groundwater Monitoring Event.* September 2016.
- NewFields. 2015a.** *Field Sampling Plan for the Smurfit Stone / Frenchtown Mill Site, Missoula County, Montana.* Version 2, 11/09/2015. Included as Appendix D of the Remedial Investigation Work Plan.
- NewFields. 2015b.** *Quality Assurance Project Plan for the Smurfit Stone / Frenchtown Mill Site, Missoula County, Montana.* Version 2, 11/05/2015. Included as Appendix E of the Remedial Investigation Work Plan.

FIGURES



Aerial Photo Source: NAIP 2011 and Newfields 2016 (Within Site Boundary)



NewFields

*Floodplain Source:
As defined by the Federal Emergency Management Agency (FEMA) 2013 Digital Flood Insurance Rate Map (DFIRM). (NFIP 2013)

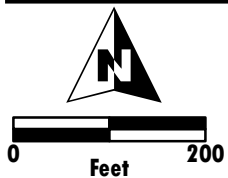
Notes

- | | |
|-----------------------------------|----------------------------|
| AG - Agricultural Land | NPP - North Polishing Pond |
| AB - Aeration Stabilization Basin | P - Settling Pond |
| CL - Clarifier | SB - Spoils Basin |
| FP - Flood Plain | SPP - South Polishing Pond |
| HP - Holding or Storage Pond | SWB - Solid Waste Basin |
| IB - Rapid Infiltration Basin | WR - West of River |
| LF - Landfarm | |

Site Location
Former Frenchtown Mill Site
Missoula County, Montana
FIGURE 1



Aerial Photo Source: Newfields 2016

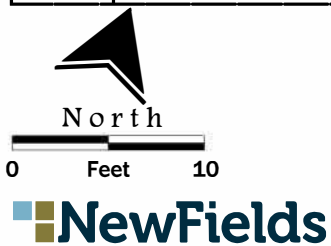
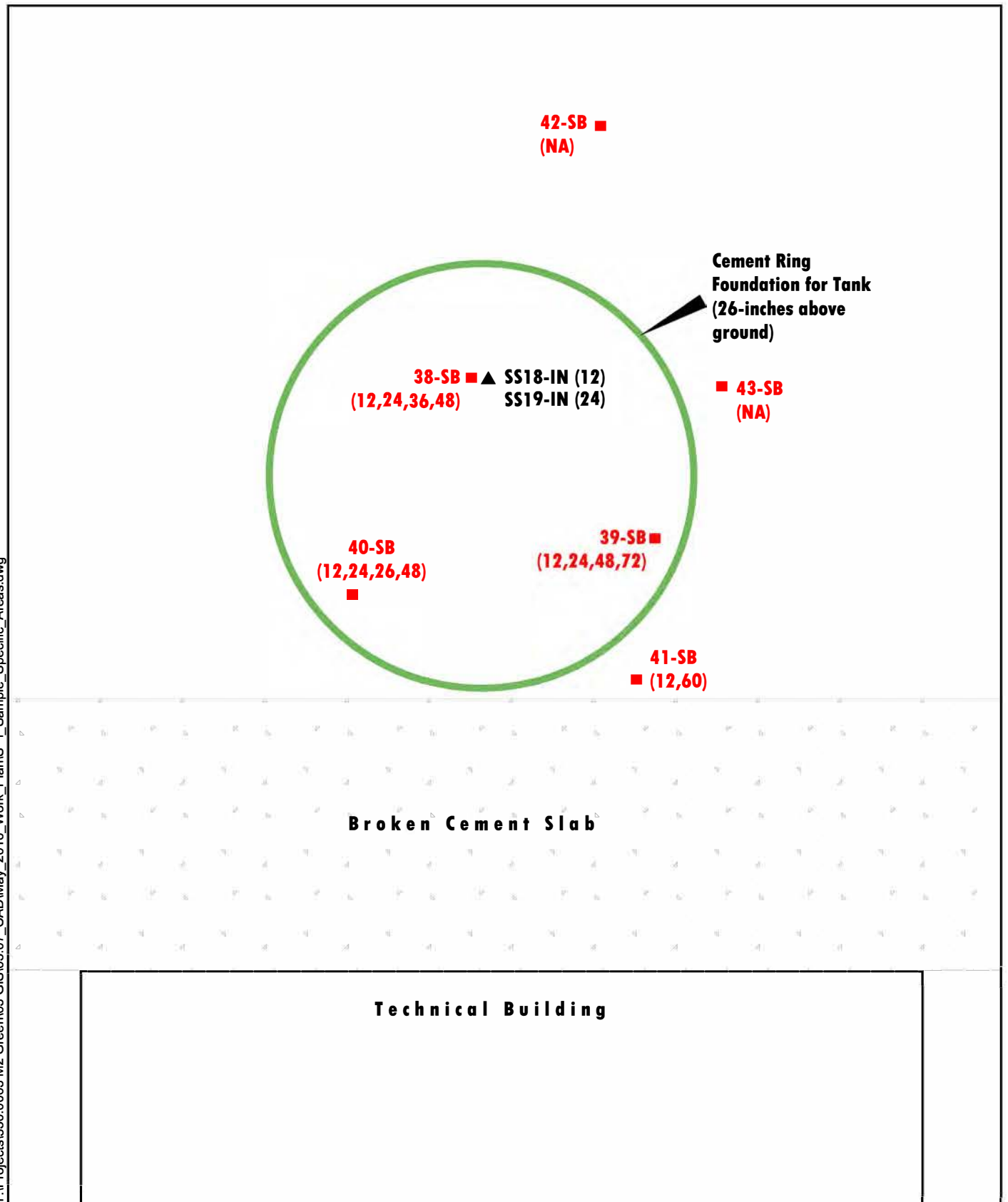


NewFields

 OU2 - Industrial Area Boundary

Soil Sample Areas (OU2)
Former Frenchtown Mill Site
Missoula County, Montana
FIGURE 2

Y:\Projects\350.0065 M2 Green\05 GIS\05.07 CAD\May_2016_Work_Plan\5 Sample_Specific_Areas.dwg



■ Soil Sample Locations (inches below grade)

▲ Previous Soil Sample Location
(2015 Soils Investigation) with PCBs >EPA RSL

Note:

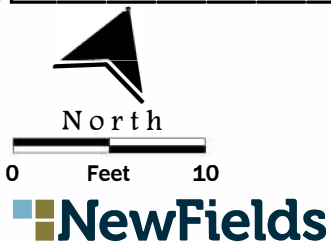
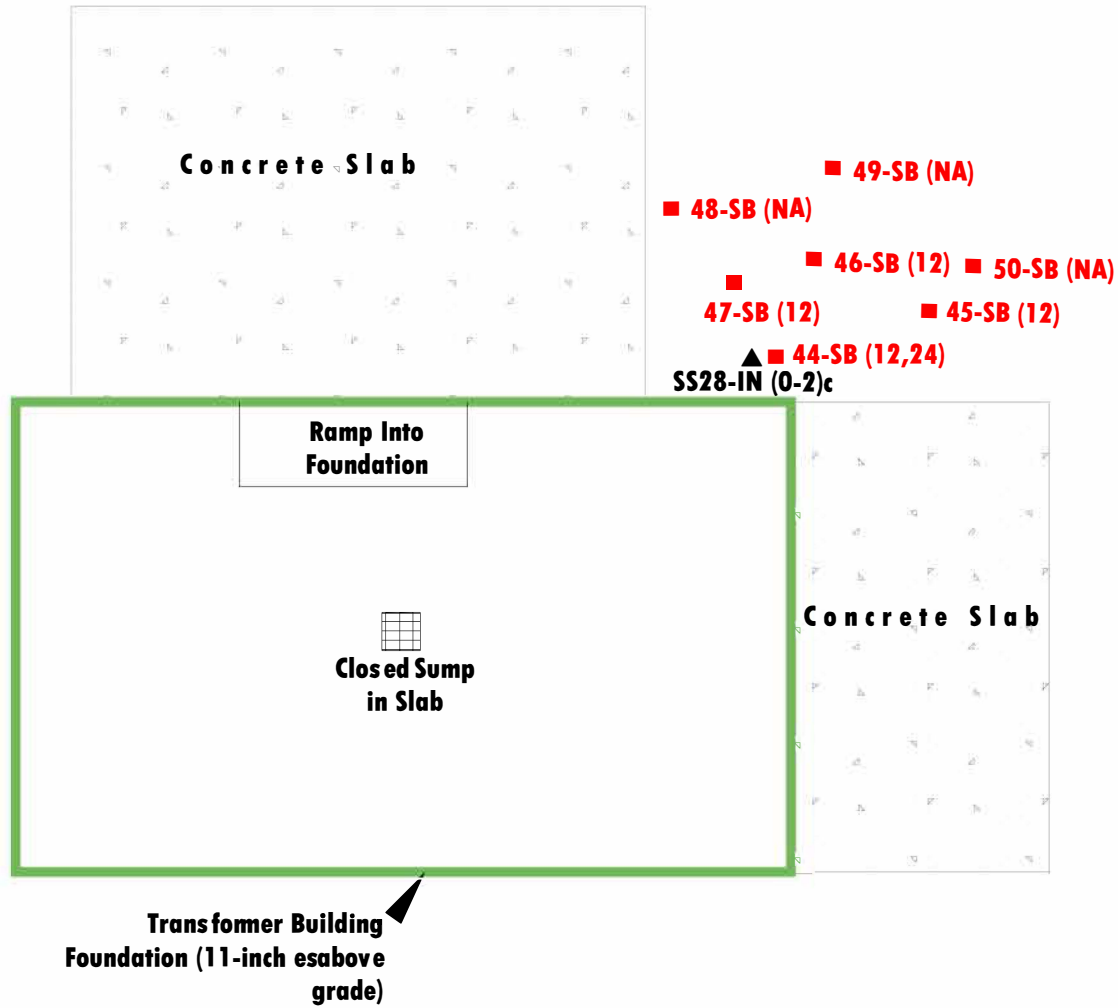
Samples will be identified as shown in Table I
(i.e., IN-HDPT38-SB1)

NA - Not Analyzed

(12, 60) = ie: samples were analyzed from depths of
12 and 60 inches below ground surface.

Soil Sample Locations
High Density Pulp Tank Foundation
Former Frenchtown Mill
Missoula County, Montana
FIGURE 3

\\NFHELENA\shares\Projects\350.0065 M2 Green\05 GIS\05.07_CAD\May_2016_Work_Plan\Soil_Sample_Specific_Areas.dwg



■ Soil Sample Locations (inches below grade)

▲ Soils Previous Soil Investigation
(Sample with Location PCBs > EPA (2015 RSL))

Note:
Samples will be identified as shown in Table 1
(ie, IN-HDPT38-SB1)
NA - Not Analyzed
(12, 24) = ie: samples were analyzed from
depths of 12 and 24 inches below ground
surface

Soil Sample Locations Transformer
Storage Building Foundation Former
Frenchtown Mill
Missoula County, Montana
FIGURE 4

TABLES

TABLE 1
Summary of Soil Sample Results By Depth
PCB Soil Investigation (OU2)
Former Frenchtown Mill, Missoula County, Montana

SAMPLE ID	High Density Pulp Tank Foundation Area ^f										Transformer Storage Building Foundation Area ^f															
	Soil Sample							Field QA/QC Sample			Soil Sample										Field QA/QC Sample					
	SS18-IN-(12) SS19-IN-(24)	IN-HDPT38-SB-1,2,3,4	IN-HDPT39-SB-1,2,4,6	IN-HDPT40-SB-1,2,3,4 ^a	IN-HDPT41-SB-1,4	IN-HDPT42-SB-1,2,4,5	IN-HDPT43-SB-1,2,5,6	FD1-SO ^b	FD3-SO ^d	ERB1-SO	ERB3-SO	SS28-IN-(0-2)c	SS29-IN-(0-2)c	SS30-IN-(0-2)c	SS31-IN-(0-2)c	IN-TSB44-SB-1,2,3	IN-TSB45-SB-1,2,3	IN-TSB46-SB-1,2,3	IN-TSB47-SB-1,2,3	IN-TSB48-SB-1,2,3	IN-TSB49-SB-1,2,3	IN-TSB50-SB-1,2,3	FD2-SO ^c	ERB2-SO	DFB1	
SAMPLING DEPTH (feet) ^e	Inside Ring			Outside Ring																						
	1	1440 ND	614	42.9	70.7		H	H	91.6		ND	H	7490 J	154 J	37.7 U	88.1 J	15.2	ND	66.7 156	ND 893	H	H	H	H	H	ND
	2	1740 ND	126	ND	747	65.8		H	H		H						14.8	H			H	H	H			
	3		1020																							
	4		17.1J														H	H	H	H	H					
	5			2840		172		H														H	H			
	6			1470	125			H																		
	7				50.3																					
	8																									
	9																									
	10																									

Notes:

- 156 - Blue font; Aroclor 1254 concentration in ug/kg, ND (Approx. 34.5U) if not shown.
- 1020 - Black font; Aroclor 1260 concentration in ug/kg
- H - extracted and held. PCB analysis was based on results of analyzed samples
- DFB - Deionized water field blank
- ERB-SO - soil sample equipment rinse blank
- FD-SO - soil sample field duplicate
- HDPT HDPT = High Density Pulp Tank
- TSB TSB = Transformer Storage Building

- ^a - For sample IN-HDTP40-SB use the "dup" boring as the NM and use the NM for the dup sample.
- ^b - FD1-SO = IN-HDTP40-SB1
- ^c - FD2-SO = IN-TSB47-SB2
- ^d - FD3-SO = IN-HDPT43-SB2
- ^e - Sample depths are based on professional judgment due to poor sample recovery in sampling sleeve.
- ^f - Sample locations are shown on Figure 3 (HDPT) and Figure 4 (TSB)

- ID - identification
- J - Concentration is considered estimated.
- ND - result is below reporting limits
- QA/QC - Quality Assurance/Quality Control
- ug/kg - micrograms per kilogram or parts per billion
- OU - Operable Unit
- initial soil samples collected during 2015 soils investigation of OU2
- not investigated
- 614 - analyzed by the laboratory (first round)
- 1470 - Aroclor 1260 analyzed by the laboratory based on the results of first round of analyses
- Bold** - exceeds the industrial direct contact screening level of 990 ug/kg (Aroclor 1260) or 970
- depth driven by sample sleeve
- total depth of borehole

TABLE 2
PCB Concentrations in Soil Samples
PCB Soil Investigation (OU2)
Former Frenchtown Mill Site, Missoula County, Montana

Sample ID	Sample Date	Sample Type	PCB-1016 (Aroclor 1016) (ug/kg)	PCB-1221 (Aroclor 1221) (ug/kg)	PCB-1232 (Aroclor 1232) (ug/kg)	PCB-1242 (Aroclor 1242) (ug/kg)	PCB-1248 (Aroclor 1248) (ug/kg)	PCB-1254 (Aroclor 1254) (ug/kg)	PCB-1260 (Aroclor 1260) (ug/kg)	PCB-1262 (Aroclor 1262) (ug/kg)	PCB-1268 (Aroclor 1268) (ug/kg)	Percent Moisture (%)
Residential Direct-Contact RSL ¹			410	200	170	230	230	120	240	---	---	---
Industrial Direct-Contact RSL ²			5100	830	720	950	950	970	990	---	---	---
High Density Pulp Tank Foundation Area												
SS18-IN-(12)	12/15/2015	NM	34.5 U	34.5 U	34.5 U	34.5 U	34.5 U	34.5 U	1440	34.5 U	34.5 U	4.7
SS19-IN-(24)	12/15/2015	NM	35.5 U	35.5 U	35.5 U	35.5 U	35.5 U	35.5 U	1740	35.5 U	35.5 U	7.2
IN-HDPT38-SB1	8/22/2016	NM	38.8 U	38.8 U	38.8 U	38.8 U	38.8 U	38.8 U	614	38.8 U	38.8 U	15.2
IN-HDPT38-SB2	8/22/2016	NM	34.6 U	34.6 U	34.6 U	34.6 U	34.6 U	34.6 U	126	34.6 U	34.6 U	4.5
IN-HDPT38-SB3	8/22/2016	NM	34.7 U	34.7 U	34.7 U	34.7 U	34.7 U	34.7 U	1070	34.7 U	34.7 U	5.3
IN-HDPT38-SB4	8/22/2016	NM	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	17.1 J	34.8 U	34.8 U	5.2
IN-HDPT39-SB1	8/22/2016	NM	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	42.9	34.8 U	34.8 U	5.2
IN-HDPT39-SB2	8/22/2016	NM	35.3 U	35.3 U	35.3 U	35.3 U	35.3 U	35.3 U	35.3 U	35.3 U	35.3 U	6.5
IN-HDPT39-SB4	8/22/2016	NM	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	2840	34.8 U	34.8 U	5.6
IN-HDPT39-SB6	8/22/2016	NM	36.6 U	36.6 U	36.6 U	36.6 U	36.6 U	36.6 U	1470	36.6 U	36.6 U	9.9
IN-HDPT40-SB1	8/22/2016	NM	36.4 U	36.4 U	36.4 U	36.4 U	36.4 U	36.4 U	70.7	36.4 U	36.4 U	9.4
IN-HDPT40-SB2	8/22/2016	NM	34.1 U	34.1 U	34.1 U	34.1 U	34.1 U	34.1 U	747	34.1 U	34.1 U	3.6
IN-HDPT40-SB3	8/22/2016	NM	35.5 U	35.5 U	35.5 U	35.5 U	35.5 U	35.5 U	125	35.5 U	35.5 U	7.4
IN-HDPT40-SB4	8/22/2016	NM	34.6 U	34.6 U	34.6 U	34.6 U	34.6 U	34.6 U	50.3	34.6 U	34.6 U	4.5
FD1-SO (IN-HDPT40-SB1)	8/22/2016	DUP (NM)	37.6 U	37.6 U	37.6 U	37.6 U	37.6 U	37.6 U	91.6	37.6 U	37.6 U	12.2
IN-HDPT41-SB1	8/23/2016	NM	34.5 U	34.5 U	34.5 U	34.5 U	34.5 U	34.5 U	65.8	34.5 U	34.5 U	4.4
IN-HDPT41-SB5	8/23/2016	NM	37.6 U	37.6 U	37.6 U	37.6 U	37.6 U	37.6 U	172	37.6 U	37.6 U	12.3
Transformer Storage Building Foundation Area												
SS28-IN-(0-2)c	12/4/2015	NM	38.2 U	38.2 U	38.2 U	38.2 U	38.2 U	38.2 U	7490 J	38.2 U	38.2 U	13.6
SS29-IN-(0-2)c	12/4/2015	NM	36.3 U	36.3 U	36.3 U	36.3 U	36.3 U	36.3 U	154 J	36.3 U	36.3 U	9
SS30-IN-(0-2)c	12/4/2015	NM	37.7 U	37.7 U	37.7 U	37.7 U	37.7 U	37.7 U	37.7 U	37.7 U	37.7 U	12.5
SS31-IN-(0-2)c	12/4/2015	NM	38.3 U	38.3 U	38.3 U	38.3 U	38.3 U	38.3 U	88.1 J	38.3 U	38.3 U	13.9
IN-TSB44-SB1	8/22/2016	NM	33.9 U	33.9 U	33.9 U	33.9 U	33.9 U	33.9 U	15.2 J	33.9 U	33.9 U	3
IN-TSB44-SB2	8/22/2016	NM	35.7 U	35.7 U	35.7 U	35.7 U	35.7 U	35.7 U	14.8 J	35.7 U	35.7 U	7.7
IN-TSB45-SB1	8/22/2016	NM	33.7 U	33.7 U	33.7 U	33.7 U	33.7 U	33.7 U	33.7 U	33.7 U	33.7 U	2
IN-TSB46-SB1	8/22/2016	NM	34.2 U	34.2 U	34.2 U	34.2 U	34.2 U	156	66.7	34.2 U	34.2 U	3.6
IN-TSB47-SB1	8/22/2016	NM	35.5 U	35.5 U	35.5 U	35.5 U	35.5 U	893	35.5 U	35.5 U	35.5 U	7.2
QC Samples												
DfB1 ³	8/22/2016	FB	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	---
ERB1-SO ⁴	8/22/2016	ERB	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	---

Notes: PCBs analyzed by EPA Method 8082A; Percent Moisture by ASTM D2974.

J - Concentration is considered estimated.

U - Concentration is below the reporting limit, reporting limit shown.

³ - PCB results reported in ug/L (micrograms per Liter)

¹ - EPA residential direct-contact regional screening level (HQ=0.1) (May 2016)

² - EPA industrial direct-contact regional screening level (HQ=0.1) (May 2016)

Acronyms:

--- - not analyzed, or not available

DfB - Deionized Water Field Blank

DUP - Duplicate Sample

ERB - Equipment Rinse Blank

PCBs - polychlorinated biphenyls

QC - Quality Control

ug/kg - micrograms per kilogram (parts per billion)

NM - natural material

OU - Operable Unit

	- concentration exceeds EPA industrial direct-contact regional screening level
	- concentration exceeds EPA residential direct-contact screening level

APPENDIX A

FIELD NOTES, FORMS, AND EXPLORATORY BORING LOGS

DAILY FIELD RECORD

Page 1 of 4



Project and Task Number: 350.0065.001		Date: August 22, 2016	
Project Name: Frenchtown Mill Site		Field Activity: PCB Soil Sampling	
Location: Frenchtown, MT		Weather: 75°F; Smokey; Windy; partly sunny	
Personnel: Name	Company	Time in	Time Out
H. Grobbo (H6)	NewFields	0830	1715
JR Cantrall (JRC)	Northern Lights Drilling	0800	1715
D. Lucier (DL)	Lucier Construction	0800	1000

PERSONAL SAFETY CHECKLIST

☒	Steel-toed boots	☒	Hard Hat	☐	Traffic Vest
☒	Gloves	☒	Safety Goggles	☒	Ear Protection

TIME	DESCRIPTION OF WORK PERFORMED
0700	H6 at office; Loads equipment into truck; gets HASP & Safety book for office check in
0800	H6 mobs to the site from the office → JRC on site → DL on site; begins building ramp to pump tank foundation
0830	H6 on site; checks in w/ DL on ramp building; finds JRC at Transformer Building foundation. (TBF)
0840	H6 sets up sample station & collects measurements of stakes for accuracy (1st arc ~5' away from center location [-44-SB] 2nd arc ~10' away from center location)
0900	H6/JRC Set drill rig up on -44-SB → review HASP & check in forms.
0915	DL retrieves H6/JRC to look at ramp to pump tank foundation. to make sure it will be adequate before DL is off site
0925	DL/H6/JRC confirm the ramp will be solid; H6 & JRC mob back to (TBF)
0945	JRC Begins drilling IN-TSB44-SB (1-3)
1000	Sample time IN-TSB44-SB-1 * photo collected
1005	Sample time IN-TSB44-SB-2
1010	Sample time IN-TSB44-SB-3 → JRC Decons cutting shoe & first drill rod. using Distilled water, Alconox, 10% nitric, 10% methanol.

DAILY FIELD RECORD

Page 2 of 4



Date: Aug 22, 2016

TIME	DESCRIPTION OF WORK PERFORMED
1025	Begin drilling IN-TSB45-SB-(1-3) * photo collected
1035	Sample time: IN-TSB45-SB-1
1038	Sample time: IN-TSB45-SB-2
1040	Sample time: IN-TSB45-SB-3
	→ JRC deconns all reusable drilling eqpt (same as before)
1050	Begin drilling IN-TSB46-SB-(1-3)
1058	Sample time: IN-TSB46-SB-1 * photo collected
1103	Sample time: IN-TSB46-SB-2
1107	Sample time: IN-TSB46-SB-3
	→ JRC deconns all reusable drilling eqpt.
1100	
1109	Begin drilling IN-TSB47-SB-(1-3)
1115	Sample time: IN-TSB47-SB-1 * photo collected
1118	Sample time: IN-TSB47-SB-2
1120	Sample time: IN-TSB47-SB-3
	→ JRC deconns all reusable drilling eqpt.
1132	Begin drilling IN-TSB48-SB-(1-3)
1135	Sara Sparks on site (from EPA).
1138	Sample time: IN-TSB48-SB-1 * photo collected
1142	Sample time: IN-TSB48-SB-2
1145	Sample time: IN-TSB48-SB-3
	→ JRC deconns all reusable field eqpt.
1150	Begin drilling IN-TSB49-SB-(1-3)
1156	Per Sara Sparks: Drill deeper to see if we don't get out of the dark gray soil staining; go ahead to 5' bgs.
1205	Sample time: IN-TSB49-SB-1 * photo collected
1208	Sample time: IN-TSB49-SB-2
1210	1208 Sample time: IN-TSB49-SB-3
	→ JRC deconns all reusable drilling eqpt
	* at 3.5 feet color changed from dark gray to dark brown. see field logging form.
1220	Begin drilling IN-TSB50-SB-(1-3) down to 5' bgs (Per S. Sparks)
1230	Sample time: IN-TSB50-SB-1 * photo collected
1234	Sample time: IN-TSB50-SB-2
1238	Sample time: IN-TSB50-SB-3
	→ JRC deconns all reusable eqpt.
DWP	1247 Begin drilling FD250-(1-3)
	Duplicate collected at IN-TSB47-SB(1-3)

DAILY FIELD RECORD

Page 3 of 4



Date: Aug 22, 2016

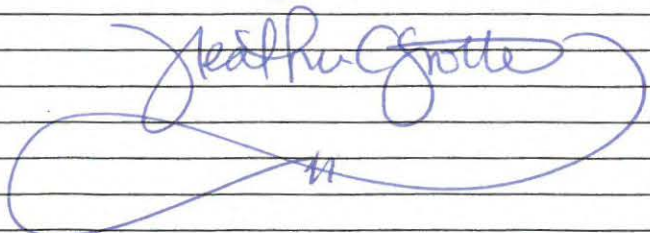
TIME	DESCRIPTION OF WORK PERFORMED
1254	Sample time at FD2-S0-1 * photo collected.
1256	Sample time @ FD2-S0-2
1258	Sample time @ FD2-S0-3 → JRC decons all reusable drilling eqpt.
1315	Collect Rinse Blank "ERB2-S0" → collected off drill rod & cutting shoe using Culligan DI Water
1330	Collect Field Blank "DFB1" → collected using Culligan DI Water
1345	mob to pulp tank foundation; Set up off ramp onto HDPTH2-SB
1409	Begin drilling HDPTH2-SB (1-4) → JR notes: difficulty achieving recovery in sampler; Very cobbly subsurface conditions. Attempt 1: Drove to 4' bgs; recovered 2.5' in PVC Liner Attempt 2: Drove from 4'-8.5' bgs; recovered 1.5' in Liner * hit refusal at 8.5' bgs. * According to JRC: subsurface conditions aren't compact and are loose, with added cobbles; materials are being pushed out of the way rather than up the liner into the drill rod.
1437	Sample time: HDPTH2-SB-1 * Collect photos.
1440	" " : HDPTH2-SB-2
1443	" " : HDPTH2-SB-3
1450	" " : HDPTH2-SB-4 → JR decons all reusable field/drilling eqpt.
1455	Begin drilling: IN-HDPT38-SB (1-4) * Attempt 1: Drove drill rods to 6' bgs; recovered 2' in Liner. * Attempt 2: Drove rods from 2-7' bgs; recovered ~2' in Liner.
1520	Sample time: HDPT38-SB-1 * Collect photo.
1523	" " : HDPT38-SB-2
1525	" " : HDPT38-SB-3
1530	" " : HDPT38-SB-4 → JRC decons all drilling eqpt.
1533	Begin drilling: IN-HDPT40-SB (1-4) * Attempt 1: Drove drill rod to 4' bgs; recovered 2' * Attempt 2: Drove from 4-10' bgs; recovered ~1'

DAILY FIELD RECORD

Page 4 of 4

NewFields
Perspective. Vision. Solutions.

Date: August 22, 2016

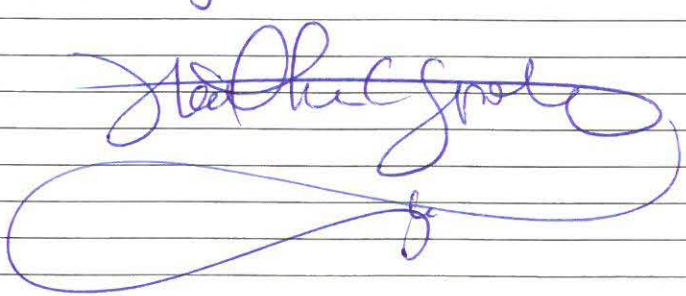
TIME	DESCRIPTION OF WORK PERFORMED
1548	Sample time: HDPT40-SB-1 * Collected photo
1550	↓ : HDPT40-SB-2 NOW "FD1-50" per. D. Tooke. JHG
1553	↓ : HDPT40-SB-3
	→ JRC decons all downhole drilling equipment
	Drill duplicate sample right next to HDPT40 borehole.
1600	Begin drilling FD1-50 (Duplicate); Sam sparks off site.
	° Attempt 1: Drive to 4' bgs; recovered 2'
	° Attempt 2: Drive from 4' to 10' bgs; recovered 2'
1610	Sample time: FD1-50-1 * Switch natural sample & duplicate
1613	NOW "IN-HDPT40" → : FD1-50-2 sample to submit to the lab b/c
1616	IN-HDPT40 → : FD1-50-3 duplicate drive recovered more
1620	IN-HDPT40 → : FD1-50-4 material. JHG
	→ JRC decons all reusable drilling equipment
1630	Begin drilling : IN-HDPT39-SB-(1-4)
	° Attempt 1: Drive to 4' bgs; recovered 2'
	° Attempt 2: drive from 4'-8' bgs; recovered 2'
1645	Sample time: HDPT39-SB-1 * Photo collected
1648	↓ : HDPT39-SB-2
1653	↓ : HDPT39-SB-3 & 4
1655	↓ : HDPT39-SB-5 & 6
	→ JRC decons all drilling equipment.
1700	Collect Second Equipment Rinse Blank "ERB-SO-1"
	→ collected off drill rods & cutting shoe using Celligan DI Water.
1715	mob to pour decon water in evaporation buckets by transformer building slump.
1730	Sign out; demob (H6 back to office).
1750	Back at office; H6 begins labeling sample jars & completing Daily field Record notes.
1945	H6 done for the day.
	

DAILY FIELD RECORD

Page 2 of 2



Date: Aug 23, 2016

TIME	DESCRIPTION OF WORK PERFORMED
	→ JRC decons reusable drilling equip.
1003	Begin drilling IN-HDPT41-SB-(1-4) on West side of foundation. • Attempt 1: Drove 0-3' bgs; recovered 1' of material; at 3' bgs hit refusal. Concrete Slab; unable to penetrate through. • Attempt 2: Drove 0-3' bgs; no recovery; hit refusal at 3' bgs. → move borehole location to fractured concrete on the South side of the foundation.
1100	Begin drilling 3rd attempt at HDPT41 on South side. • Attempt 1: drove from 0-4' bgs; recovered 1' in Liner • Attempt 2: drove from 4-5' bgs; recovered 1' in Liner → hit refusal at 5' bgs. (Secondary Concrete Slab?) → gray staining observed around 4' bgs. Collect 2 samples one from 1' interval & one from the stained 4' interval
1130	Sample time: HDPT41-SB-1 *photo collected.
1135	↓ : HDPT41-SB-4
	→ JRC decons all reusable drilling equip.
1215	Collect Equipment Rinse Blank "ERB3-50" → collected off the drill rods & cutting shoe using Culligan DI Water.
1230	Collect Second Field Blank (if necessary) "DFB2" using Culligan DI Water.
1235	H6 GPS all borehole locations; JRC packs up equipment
1248	Demob from site
1310	H6 back at office; fills out sample bottle labels & daily field notes.
1700	Done for the day
	

PROJECT: Frenchtown Mill Site										PROJECT NO.: 350.0005.001					SHT 1 OF 1	
LOCATION OF BORING										DRILLING METHOD: Direct Push					BORING NO.	
										Geoprobe					IN-HDPT 38-SB	
HAMMER WEIGHT: 40#										DROP: —					LOGGED BY:	
SAMPLER(S): 2" Macro Core PVC										Liner					HCG	
BACKFILL MATERIAL:															DRILLING	
WATER LEVEL										NA					START	
TIME															TIME	
DATE															DATE	
CASING DEPTH															8/22/16	
DATUM										ELEVATION						
SURFACE CONDITIONS: weeds/gravel/dirt																
SAMPLER TYPE	INCHES DRIVEN	INCHES RECOVERED	SAMPLE NO.	DEPTH	OVMPID/FID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY							
					NA	NA		0	Gm	(6m) Silty Sandy gravel; Light gray; dry-Slightly damp; no stains/odors; gravel & sand is fine to coarse, rounded to sub-rounded; some large cobbles present						
					NA	NA		1		Loose						
					NA	NA		2								
					NA	NA		3								
					NA	NA		4		Recovery:						
					NA	NA		5		Attempt 1: Drove drill rods to 6' bgs; recovered ~ 2'						
					NA	NA		6		Attempt 2: Drove drill rods to from 2-7' bgs; recovered ~ 2'						
								7		Attempt 1: Collect 1' & 2'						
								8		Attempt 2: Collect 3' & 4'						
								9		1520 IN-HDPT38-SB1						
								0		1523 IN-HDPT38-SB2						
								0		1525 IN-HDPT38-SB3						
								0		1530 IN-HDPT38-SB4						
								1		} sample times						
								2								
								3								
								4								
								5								
								6								
								7								
								8								
								9								
								0								

PROJECT: Frenchtown Mill Site		PROJECT NO.: 350.0065.001		SHT 1 OF 1	
LOCATION OF BORING		DRILLING METHOD: Direct Push -		BORING NO.	
		Geoprobe		IN- HDPT 39-58	
		HAMMER WEIGHT: 40#		DROP: -	
		SAMPLER(S): 2" Macro Core PVC		LOGGED BY:	
		Liners		HCG	
		BACKFILL MATERIAL: Collapsing borehole		DRILLING	
WATER LEVEL		NA		START	FINISH
TIME				TIME	TIME
DATE				1630	1640
CASING DEPTH				DATE	DATE
				8/22/16	

SAMPLER TYPE	INCHES DRIVEN	INCHES RECOVERED	SAMPLE NO.	SAMPLE DEPTH	OVM/PID/FID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:	
										Weeds; gravel; loose dirt	
								0	GM	(6m) Silty Sandy gravel; Light brown-medium brown; dry until damp conditions at ~2' bgs; no stains/odor; sand/gravel fine to coarse grained; angular (broken cobbles) to subrounded; cobble pieces throughout	
								1			
								2			
								3			
								4		Slight Staining (medium gray material) around bottom around 6' bgs; no odors.	
								5			
								6		Recovery:	
								7		Attempt 1: Drove drill rods to 4' bgs recovered: ~2'	
								8		Attempt 2: Drove drill rods from 4-8' bgs recovered ~2'	
								9			
								0	1645- IN- HDPT 39 - SB1		
								0	1648- IN- HDPT 39 - SB2		
								1	1653 IN- HDPT 39 - SB4		
								1	1655 IN- HDPT 39 - SB6		
								2			
								3			
								4			
								5			
								6			
								7			
								8			
								9			
								0			

PROJECT: Frenchtown Mill Site										PROJECT NO.: 350.0065.001					SHT 1 OF 1				
LOCATION OF BORING										DRILLING METHOD: Direct Push					BORING NO.				
										Globe IN-HDPT 40-SB					LOGGED BY:				
HAMMER WEIGHT: 40#										DROP:					HCG				
SAMPLER(S): 2" Macro Core PVC										Liners					DRILLING				
BACKFILL MATERIAL: Collapsing conditions										START					FINISH				
WATER LEVEL NA										TIME					TIME				
TIME										1533					1605				
DATE										DATE					DATE				
CASING DEPTH										8/22/16									
DATUM										ELEVATION									
SAMPLER TYPE	INCHES DRIVEN	INCHES RECOVERED	SAMPLE NO.	SAMPLE DEPTH	OM/PI/DID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS: weeds / gravel / loose dirt									
								0	6m	(6m) Silty Sandy gravel; medium brown; dry - damp around 2bgs; no stains / odors; gravel / sand is fine to coarse grained; subrounded; broken cobbles in sampler; Loose									
								1											
								2											
								3											
								4											
								5		1600 Drill Duplicate									
								6		Recovery: (Duplicate). "FD1-S0"									
								7		Attempt 1: Drove drill rods to 6' bgs recovered ~ 2.5'									
								8		Attempt 2: Drove drill rods from 6-10' bgs recovered 1'									
								9		Attempt 1: collect 1', 2' bgs									
								10	Attempt 2: collect 6' bgs										
								11	1548: FD1-S0 - sample time from 1'										
								12	Natural Sample Recovery:										
								13	Attempt 1: Drove drill rods to 4' bgs recovered 2'										
								14	Attempt 2: Drove drill rods from 4-10' recovered 2'										
								15	Attempt 1 - collect 1', 2' bgs										
								16	Attempt 2 - collect 3', 4' bgs										
								17	1610 - IN-HDPT40-SB1										
								18	1613 - IN-HDPT40-SB2										
								19	1616 - IN-HDPT40-SB3										
								20	1620 - IN-HDPT40-SB4										

Sample times

PROJECT: Frenchtown Mill Site

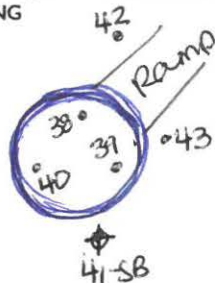
PROJECT NO.: 350.0065.001

SHT 1 OF 1

LOCATION OF BORING

DRILLING METHOD: Direct Push-

BORING NO.



GeoProbe

IN-HDPT41-SB(1+4)

HAMMER WEIGHT: 40#

DROP:

LOGGED BY:

SAMPLER(S): 2" Macro Core PVC

HCG

Liner

DRILLING

BACKFILL MATERIAL: Collapsing Borehole

START

FINISH

WATER LEVEL

NA

TIME

TIME

TIME

1003

1130

DATE

DATE

DATE

CASING DEPTH

8/23/16

16

DATUM

ELEVATION

SAMPLER TYPE	INCHES DRIVEN	INCHES RECOVERED	SAMPLE NO.	DEPTH	OVN/PID/FID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:
										Debris / rubble / concrete
								0		Attempt 1: Drove 0-3'; recovered 1.0' material hit a second slab of concrete at 3' bgs; unable to penetrate past.
								1	Gm	
								2		Silty gravel w/ concrete (Gm); light gray concrete; medium brown Gm; damp; no stains / odors
								3		gravel & sand fine - coarse grained; rounded to subrounded; broken cobble rocks throughout.
								4		
								5		
								6		
								7		
								8		
								9		
								0		1100am 2nd attempt - switch holes
								1		First sample sleeve; drove 0-4' bgs; recovered 1'
								2		Second sample: 4-5' bgs, recovered ~1.0' hit refusal at 5' bgs. (more concrete) ~4' collected
								3		Concrete from 0-4.5"
								4		Sample Sleeve 1
								5		(Gm) Silty gravel w/ sand; medium brown; damp; no staining or odors; gravel & sand is fine to coarse; rounded to subrounded.
								6		
								7		Sample sleeve 2-
								8		(Gm) Silty gravel w/ sand; same as above at 4' bgs staining; gray-dark gray stains, moderate chemical odor; moist
								9		Some silt present, tacky and low plasticity; concrete bits above and below stained zone.
								0		refusal at 5' bgs.
								1		
								2		
								3		
								4		
								5		
								6		
								7		
								8		
								9		
								0		1130 - IN-HDPT41-SB1 2 sample times
								1		1135 - IN-HDPT41-SB4 3

PROJECT: Frenchtown Mill Site

PROJECT NO.: 350.0065.001

SHT 1 OF 1

LOCATION OF BORING

DRILLING METHOD: Direct Push

BORING NO.

GeoProbe

IN-HDPT43-SB(1-4)

HAMMER WEIGHT: 40#

DROP:

LOGGED BY:

SAMPLER(S): 2" Macro Core Liner

HGA

DRILLING

BACKFILL MATERIAL: Collapsing Hole

START

FINISH

WATER LEVEL NA

TIME

TIME

TIME

835

910

DATE

DATE

DATE

CASING DEPTH

8/23/16

DATUM

ELEVATION

SAMPLER TYPE	INCHES DRIVEN INCHES RECOVERED	SAMPLE NO. SAMPLE DEPTH	OVN/PID/FID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:
			NA	NA		0		rubble/debris
						1	Gm	(Gm) Silty Gravel; Light gray (pulverized concrete) → medium brown; dry from 0-1.0'; damp at 1.0' bgs; no staining or odor from 0-2' bgs; Gravel is rounded; fine to med. coarse; sand is fine to coarse, well rounded.
						2	↓	
						3	Sm	at 2' bgs; Same lithology as above; black staining; strong chemical odor; moist
						4		
						5		at 3' bgs; Same as above for staining + odor;
						6	Gm	Silty Sand; black staining; damp + moist; heavy chem odor; med-coarse grained; sub-rounded clasts; med dense to dense sand; sparse gravel present; well rounded; fine-coarse grained. Some broken cobbles throughout
						7	↓	
						8	Sm	
						9		Some less stained material (Sm) on bottom of cutting shoe; dark brown-gray; moist; strong chem. odor.
						10		
						1		Attempt 1: drove to 5' bgs, recovered 2.5'
						2		Attempt 2: drove to 5-9' bgs, recovered 1.5'
						3		Collect Duplicate Sample adjacent to original. (see FD3-50 Field Form).
						4		*Driller notes sandy conditions around 6-7' bgs; drilling was softer/easier & sand conditions were too soft to push up into the macro core sampler & stay.
						5		
						6		
						7		1, IN-HDPT43-SB1 @ 902
						8		2, IN-HDPT43-SB2 @ 905
						9		5, IN-HDPT43-SB5 @ 908
						10		6, IN-HDPT43-SB6 @ 910.

} Sample times

PROJECT: Frenchtown Mill Site		PROJECT NO.: 350.0065.001		SHT 1 OF 1	
LOCATION OF BORING		DRILLING METHOD: Direct Push		BORING NO.	
Diagram showing the location of the boring. A rectangular area contains points labeled 44-50. A north arrow points towards the top-left. The points are distributed as follows: 44-50, 47, 48, 45, 46, 49, 50.		Geoprobe		IN-TSB44-SB1,2	
		HAMMER WEIGHT: 40#		DROP:	
		SAMPLER(S): 2" Macro Core PVC		HCB	
		Liner		DRILLING	
DATUM _____ ELEVATION _____		BACKFILL MATERIAL: Bentonite		START FINISH	
		WATER LEVEL N/A collapsing		TIME TIME	
		TIME		945 1000	
		DATE		DATE DATE	
		CASING DEPTH		8/22/16	

SAMPLER TYPE	INCHES DRIVEN	INCHES RECOVERED	SAMPLE NO.	DEPTH	OVM/PID/FID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:	
										Grass/gravel/weeds	
					NA	NA		0		(Sm) Silty Sands; Light gray; tan; dry; no stains/odors; rock/gravel present well rounded - subrounded; coarse to fine grained sand (well rounded to subrounded).	
					NA			1			
					NA			2		(6m) Silty gravel; Light gray - tan; dry - damp; no stains/odors. Broken gravel clasts fine to coarse gravel; rounded to subrounded; sand is fine to coarse grained. At 2.5' more silt is present and a color change to dark charcoal colored	
								3			
								4			
								5			
								6		Note: Attempted 2 boreholes. First borehole down to 3' w/ 2 ft recovery; 2nd borehole down to 3.5-4' with 2.5' recovery	
								7			
								8		Lots of broken gravel clasts throughout sample sleeve. some Silty flocs lenses. present.	
								9			
								10		IN-TSB44-SB-1 @ 1000	
								11		IN-TSB44-SB-2 @ 1005	
								12		IN-TSB44-SB-3 @ 1010	
								13			
								14			
								15			
								16			
								17			
								18			
								19			
								20			

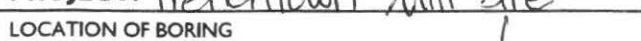
PROJECT: Frenchtown Mill Site						PROJECT NO.: 350.0065.001				SHT 1 OF 1	
LOCATION OF BORING 						DRILLING METHOD: Direct Push - Geoprobe				BORING NO.	
										TN-TSB47-SB-1-3	
						HAMMER WEIGHT: 40#		DROP:		LOGGED BY:	
						SAMPLER(S): 2" Macro Core PVC Liner				HCL	
						BACKFILL MATERIAL: Bentonite				DRILLING	
						WATER LEVEL		NA		START	
						TIME				TIME	
						DATE				DATE	
						CASING DEPTH				8/22/16	
DATUM						ELEVATION					

SAMPLER TYPE	INCHES DRIVEN INCHES RECOVERED	SAMPLE NO. SAMPLE DEPTH	OM/PI/DI READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:
			NA	NA		0	Gm	Weeds/gravel
			NA	NA		1		(Gm) Silty gravel; Light gray - tan; dry; no stains/odors; Gravel is fine to coarse; rounded. Sub rounded; Sand is medium to coarse; well rounded - subrounded.
			NA	NA		2	Sm	(Sm) Sandy gravelly silt; dark gray - brown; damp; moderate staining; some slight chemical odor; gravel is sparse + fine grained; rounded; Low plasticity
						3	ML	(ML) Silt; dark gray - brown; damp; moderate staining; slight chemical odor; sand is fine grained; Low plasticity.
						4		
						5		
						6		
						7		
						8		1115 - ST - 47-SB-1
						9		1118 - ST - 47-SB-2
						10		1120 - ST - 47-SB-3
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		
						21		
						22		
						23		
						24		
						25		
						26		
						27		
						28		
						29		
						30		

* ST = Sample time

PROJECT: Frenchtown Mill Site						PROJECT NO.: 350.0065.001				SHT 1 OF 1	
LOCATION OF BORING 						DRILLING METHOD: Direct Push - GeoProbe				BORING NO. IN-TSB48-SB 13	
						HAMMER WEIGHT: 40#				DROP: /	
						SAMPLER(S): 2" Macro Core PVC Liner				DRILLING	
						BACKFILL MATERIAL: Bentonite				START	
						WATER LEVEL: NA				FINISH	
						TIME				TIME	
						DATE				DATE	
						CASING DEPTH				8122116 -	
DATUM _____ ELEVATION _____											

SAMPLER TYPE	INCHES DRIVEN	INCHES RECOVERED	SAMPLE NO. DEPTH	OVN/PID/FID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:
				NA	NA		0	Gm	Weeds / gravel.
				NA	↓		1		(Gm) Silty Gravel; light gray - pink gray; damp - dry; no stains / odors; gravel is rounded - sub-rounded; fine - coarse grained; sand is fine to coarse grained, rounded.
				NA	↓		2	sm	(Sm) Silty Sand; dark gray - brown; damp; moderate staining; slight chemical odor; gravel more sparse, rounded to broken shards; sand is fine to medium; low plasticity.
							3	ml	(ml) silt; dark gray - brown; damp; moderate staining / slight chem odor; sparse gravel - no gravel clasts; low - no plasticity; sand is fine grained.
							4		
							5		
							6		
							7		
							8		
							9		
							0		1138 - IN-TSB48-SB-1 } Sample times
							1		1142 - IN-TSB48-SB-2 }
							2		1145 - IN-TSB48-SB-3 }
							3		
							4		
							5		
							6		
							7		
							8		
							9		
							0		

PROJECT: Frenchtown Mill Site LOCATION OF BORING 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">PROJECT NO.: 350.0065.001</td> <td colspan="2">SHT 1 OF 1</td> </tr> <tr> <td colspan="2">DRILLING METHOD: Direct Push</td> <td colspan="2">BORING NO.</td> </tr> <tr> <td colspan="2">Geoprobe</td> <td colspan="2">IN-TSB49-SB1-3</td> </tr> <tr> <td>HAMMER WEIGHT: 40#</td> <td>DROP:</td> <td colspan="2">LOGGED BY:</td> </tr> <tr> <td colspan="2">SAMPLER(S): 2" Macro Core PVC</td> <td colspan="2">HCG</td> </tr> <tr> <td colspan="2">Liner</td> <td colspan="2">DRILLING</td> </tr> <tr> <td colspan="2">BACKFILL MATERIAL: Collapsing conditions</td> <td>START</td> <td>FINISH</td> </tr> <tr> <td>WATER LEVEL</td> <td>NA</td> <td>TIME</td> <td>TIME</td> </tr> <tr> <td>TIME</td> <td></td> <td>1150</td> <td>1205</td> </tr> <tr> <td>DATE</td> <td></td> <td>DATE</td> <td>DATE</td> </tr> <tr> <td>CASING DEPTH</td> <td></td> <td>8/22/16</td> <td></td> </tr> </table>	PROJECT NO.: 350.0065.001		SHT 1 OF 1		DRILLING METHOD: Direct Push		BORING NO.		Geoprobe		IN-TSB49-SB1-3		HAMMER WEIGHT: 40#	DROP:	LOGGED BY:		SAMPLER(S): 2" Macro Core PVC		HCG		Liner		DRILLING		BACKFILL MATERIAL: Collapsing conditions		START	FINISH	WATER LEVEL	NA	TIME	TIME	TIME		1150	1205	DATE		DATE	DATE	CASING DEPTH		8/22/16	
PROJECT NO.: 350.0065.001		SHT 1 OF 1																																											
DRILLING METHOD: Direct Push		BORING NO.																																											
Geoprobe		IN-TSB49-SB1-3																																											
HAMMER WEIGHT: 40#	DROP:	LOGGED BY:																																											
SAMPLER(S): 2" Macro Core PVC		HCG																																											
Liner		DRILLING																																											
BACKFILL MATERIAL: Collapsing conditions		START	FINISH																																										
WATER LEVEL	NA	TIME	TIME																																										
TIME		1150	1205																																										
DATE		DATE	DATE																																										
CASING DEPTH		8/22/16																																											

DATUM _____
ELEVATION _____

SAMPLER TYPE	INCHES DRIVEN RECOVERED	SAMPLE NO. DEPTH	OVM/PID/FID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:	
			NA	NA		0	Gm	Weeds/gravel.	
			NA	~		1		(Gm) Silty gravel; Light gray-tan; dry; no stains/odors. Gravel fine-coarse grained; rounded-subrounded; sand is fine to coarse	
			NA	~		2	Sm	Silty sand/gravel; dark gray-brown; damp; moderate staining; chemical odor; gravel med-fine grained; rounded-subrounded; sand (same as above).	
						3			
						4	ML		
						5		(ML) silt w/sand; dark gray-brown; damp; moderate staining; no chemical odor; Low-to plasticity; dense to very stiff sand.	
						6			
						7		below 3.5' color change to dark brown; less staining; no odors.	
						8			
						9		1205 - IN - TSB49-SB-1 } sample times	
						10		1208 - IN - TSB49-SB-2 }	
						11		1210 - IN - TSB49-SB-3 }	
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			

SAMPLER TYPE	INCHES DRIVEN RECOVERED	SAMPLE NO. DEPTH	OVM/PID/FID READING	BLOW CT PER 6"	SPT N-VALUE	DEPTH IN FEET	LITHOLOGY	SURFACE CONDITIONS:	
								Needs/gravel.	
			NA	1		0		(Gm) Silty Sandy gravels; light gray; dry; no stains/odors; gravel fine to medium coarse; rounded to subrounded; sand is fine grained	
			NA	1		1	Gm	to coarse, rounded.	
			NA	1		2			
			NA	1		3	sm	(Sm) Silty Sand; dark gray-brown; damp; moderate stains / very slight chem. odor;	
						4	ml	gravel sparse, sand same as above; non- plastic like	
						5		(ml) Silts; dark brown (less gray staining); damp; no chem. odor; no gravel; sand is fine grained; very stiff - dense compaction; low plasticity	
						6			
						7			
						8			
						9		1230 - TBS50-SB-1	
						0		1234 - TBS50-SB-2	
						1		1238 - TBS50-SB-3	
						2		} sample times	
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						0			

APPENDIX B

ANALYTICAL LABORATORY REPORTS

September 01, 2016

David Tooke
Newfields
1120 Cedar Street
Missoula, MT 59802

RE: Project: 350.0065.001 4D FrenchtownMill
Pace Project No.: 10360345

Dear David Tooke:

Enclosed are the analytical results for sample(s) received by the laboratory on August 25, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jennifer Anderson
jennifer.anderson@pacelabs.com
Project Manager

Enclosures

cc: Chris Cerquone, Newfields
Katie Sitler, Newfields



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10360345001	IN-HDPT38-SB1	Solid	08/22/16 15:20	08/25/16 10:00
10360345002	IN-HDPT38-SB2	Solid	08/22/16 15:23	08/25/16 10:00
10360345003	IN-HDPT38-SB3	Solid	08/22/16 15:25	08/25/16 10:00
10360345004	IN-HDPT39-SB1	Solid	08/22/16 16:45	08/25/16 10:00
10360345005	IN-HDPT39-SB2	Solid	08/22/16 16:48	08/25/16 10:00
10360345006	IN-HDPT39-SB4	Solid	08/22/16 16:53	08/25/16 10:00
10360345007	IN-HDPT40-SB1	Solid	08/22/16 16:10	08/25/16 10:00
10360345008	IN-HDPT40-SB2	Solid	08/22/16 16:13	08/25/16 10:00
10360345009	IN-HDPT40-SB3	Solid	08/22/16 16:16	08/25/16 10:00
10360345010	IN-HDPT41-SB1	Solid	08/23/16 11:30	08/25/16 10:00
10360345011	FD1-SO	Solid	08/22/16 15:48	08/25/16 10:00
10360345012	ERB1-SO	Water	08/22/16 17:00	08/25/16 10:00
10360345013	IN-TSB44-SB1	Solid	08/22/16 10:00	08/25/16 10:00
10360345014	IN-TSB44-SB2	Solid	08/22/16 10:05	08/25/16 10:00
10360345015	IN-TSB45-SB1	Solid	08/22/16 10:35	08/25/16 10:00
10360345016	IN-TSB46-SB1	Solid	08/22/16 10:58	08/25/16 10:00
10360345017	IN-TSB47-SB1	Solid	08/22/16 11:15	08/25/16 10:00
10360345018	DFB1	Water	08/22/16 13:30	08/25/16 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10360345001	IN-HDPT38-SB1	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345002	IN-HDPT38-SB2	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345003	IN-HDPT38-SB3	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345004	IN-HDPT39-SB1	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345005	IN-HDPT39-SB2	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345006	IN-HDPT39-SB4	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345007	IN-HDPT40-SB1	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345008	IN-HDPT40-SB2	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345009	IN-HDPT40-SB3	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345010	IN-HDPT41-SB1	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345011	FD1-SO	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345012	ERB1-SO	EPA 8082A	KL1	11	PASI-M
10360345013	IN-TSB44-SB1	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345014	IN-TSB44-SB2	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345015	IN-TSB45-SB1	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345016	IN-TSB46-SB1	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345017	IN-TSB47-SB1	EPA 8082A	SNG	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360345018	DFB1	EPA 8082A	KL1	11	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-HDPT38-SB1 **Lab ID: 10360345001** Collected: 08/22/16 15:20 Received: 08/25/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	38.8	1	08/26/16 07:07	08/29/16 16:10	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	38.8	1	08/26/16 07:07	08/29/16 16:10	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	38.8	1	08/26/16 07:07	08/29/16 16:10	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	38.8	1	08/26/16 07:07	08/29/16 16:10	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	38.8	1	08/26/16 07:07	08/29/16 16:10	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	38.8	1	08/26/16 07:07	08/29/16 16:10	11097-69-1	
PCB-1260 (Aroclor 1260)	614	ug/kg	38.8	1	08/26/16 07:07	08/29/16 16:10	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	38.8	1	08/26/16 07:07	08/29/16 16:10	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	38.8	1	08/26/16 07:07	08/29/16 16:10	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	71	%	52-125	1	08/26/16 07:07	08/29/16 16:10	877-09-8	
Decachlorobiphenyl (S)	80	%	47-125	1	08/26/16 07:07	08/29/16 16:10	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	15.2	%	0.10	1		08/26/16 10:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-HDPT38-SB2 **Lab ID: 10360345002** Collected: 08/22/16 15:23 Received: 08/25/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.6	1	08/26/16 07:07	08/29/16 16:58	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.6	1	08/26/16 07:07	08/29/16 16:58	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.6	1	08/26/16 07:07	08/29/16 16:58	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.6	1	08/26/16 07:07	08/29/16 16:58	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.6	1	08/26/16 07:07	08/29/16 16:58	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	34.6	1	08/26/16 07:07	08/29/16 16:58	11097-69-1	
PCB-1260 (Aroclor 1260)	126	ug/kg	34.6	1	08/26/16 07:07	08/29/16 16:58	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	34.6	1	08/26/16 07:07	08/29/16 16:58	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	34.6	1	08/26/16 07:07	08/29/16 16:58	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	96	%.	52-125	1	08/26/16 07:07	08/29/16 16:58	877-09-8	
Decachlorobiphenyl (S)	107	%.	47-125	1	08/26/16 07:07	08/29/16 16:58	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	4.5	%	0.10	1		08/26/16 10:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-HDPT38-SB3 **Lab ID:** 10360345003 Collected: 08/22/16 15:25 Received: 08/25/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.7	1	08/26/16 07:07	08/29/16 17:13	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.7	1	08/26/16 07:07	08/29/16 17:13	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.7	1	08/26/16 07:07	08/29/16 17:13	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.7	1	08/26/16 07:07	08/29/16 17:13	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.7	1	08/26/16 07:07	08/29/16 17:13	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	34.7	1	08/26/16 07:07	08/29/16 17:13	11097-69-1	
PCB-1260 (Aroclor 1260)	1070	ug/kg	34.7	1	08/26/16 07:07	08/29/16 17:13	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	34.7	1	08/26/16 07:07	08/29/16 17:13	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	34.7	1	08/26/16 07:07	08/29/16 17:13	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	99	%	52-125	1	08/26/16 07:07	08/29/16 17:13	877-09-8	
Decachlorobiphenyl (S)	109	%	47-125	1	08/26/16 07:07	08/29/16 17:13	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	5.3	%	0.10	1		08/26/16 10:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-HDPT39-SB1 **Lab ID:** 10360345004 Collected: 08/22/16 16:45 Received: 08/25/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 17:29	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 17:29	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 17:29	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 17:29	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 17:29	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 17:29	11097-69-1	
PCB-1260 (Aroclor 1260)	42.9	ug/kg	34.8	1	08/26/16 07:07	08/29/16 17:29	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 17:29	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 17:29	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	97	%.	52-125	1	08/26/16 07:07	08/29/16 17:29	877-09-8	
Decachlorobiphenyl (S)	108	%.	47-125	1	08/26/16 07:07	08/29/16 17:29	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	5.2	%	0.10	1		08/26/16 10:00		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-HDPT39-SB2 **Lab ID:** 10360345005 **Collected:** 08/22/16 16:48 **Received:** 08/25/16 10:00 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.3	1	08/26/16 07:07	08/29/16 17:45	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.3	1	08/26/16 07:07	08/29/16 17:45	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.3	1	08/26/16 07:07	08/29/16 17:45	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.3	1	08/26/16 07:07	08/29/16 17:45	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.3	1	08/26/16 07:07	08/29/16 17:45	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	35.3	1	08/26/16 07:07	08/29/16 17:45	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	35.3	1	08/26/16 07:07	08/29/16 17:45	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	35.3	1	08/26/16 07:07	08/29/16 17:45	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	35.3	1	08/26/16 07:07	08/29/16 17:45	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	104	%.	52-125	1	08/26/16 07:07	08/29/16 17:45	877-09-8	
Decachlorobiphenyl (S)	116	%.	47-125	1	08/26/16 07:07	08/29/16 17:45	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	6.5	%	0.10	1		08/26/16 10:01		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-HDPT39-SB4 **Lab ID: 10360345006** Collected: 08/22/16 16:53 Received: 08/25/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 18:01	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 18:01	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 18:01	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 18:01	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 18:01	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 18:01	11097-69-1	
PCB-1260 (Aroclor 1260)	2840	ug/kg	105	3	08/26/16 07:07	08/30/16 11:20	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 18:01	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	34.8	1	08/26/16 07:07	08/29/16 18:01	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	87	%.	52-125	1	08/26/16 07:07	08/29/16 18:01	877-09-8	
Decachlorobiphenyl (S)	96	%.	47-125	1	08/26/16 07:07	08/29/16 18:01	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	5.6	%	0.10	1		08/26/16 10:01		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-HDPT40-SB1 **Lab ID:** 10360345007 Collected: 08/22/16 16:10 Received: 08/25/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.4	1	08/26/16 07:07	08/29/16 18:17	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.4	1	08/26/16 07:07	08/29/16 18:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.4	1	08/26/16 07:07	08/29/16 18:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.4	1	08/26/16 07:07	08/29/16 18:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.4	1	08/26/16 07:07	08/29/16 18:17	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	36.4	1	08/26/16 07:07	08/29/16 18:17	11097-69-1	
PCB-1260 (Aroclor 1260)	70.7	ug/kg	36.4	1	08/26/16 07:07	08/29/16 18:17	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	36.4	1	08/26/16 07:07	08/29/16 18:17	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	36.4	1	08/26/16 07:07	08/29/16 18:17	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	107	%.	52-125	1	08/26/16 07:07	08/29/16 18:17	877-09-8	
Decachlorobiphenyl (S)	121	%.	47-125	1	08/26/16 07:07	08/29/16 18:17	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	9.4	%	0.10	1		08/26/16 10:01		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-HDPT40-SB2 **Lab ID:** 10360345008 Collected: 08/22/16 16:13 Received: 08/25/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.1	1	08/26/16 07:07	08/29/16 18:33	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.1	1	08/26/16 07:07	08/29/16 18:33	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.1	1	08/26/16 07:07	08/29/16 18:33	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.1	1	08/26/16 07:07	08/29/16 18:33	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.1	1	08/26/16 07:07	08/29/16 18:33	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	34.1	1	08/26/16 07:07	08/29/16 18:33	11097-69-1	
PCB-1260 (Aroclor 1260)	747	ug/kg	34.1	1	08/26/16 07:07	08/29/16 18:33	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	34.1	1	08/26/16 07:07	08/29/16 18:33	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	34.1	1	08/26/16 07:07	08/29/16 18:33	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	88	%.	52-125	1	08/26/16 07:07	08/29/16 18:33	877-09-8	
Decachlorobiphenyl (S)	106	%.	47-125	1	08/26/16 07:07	08/29/16 18:33	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	3.6	%	0.10	1		08/26/16 10:02		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-HDPT40-SB3 **Lab ID:** 10360345009 **Collected:** 08/22/16 16:16 **Received:** 08/25/16 10:00 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 18:49	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 18:49	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 18:49	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 18:49	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 18:49	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 18:49	11097-69-1	
PCB-1260 (Aroclor 1260)	125	ug/kg	35.5	1	08/26/16 07:07	08/29/16 18:49	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 18:49	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 18:49	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	98	%.	52-125	1	08/26/16 07:07	08/29/16 18:49	877-09-8	
Decachlorobiphenyl (S)	111	%.	47-125	1	08/26/16 07:07	08/29/16 18:49	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	7.4	%	0.10	1		08/26/16 10:02		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-HDPT41-SB1 **Lab ID:** 10360345010 **Collected:** 08/23/16 11:30 **Received:** 08/25/16 10:00 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.5	1	08/26/16 07:07	08/29/16 19:04	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.5	1	08/26/16 07:07	08/29/16 19:04	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.5	1	08/26/16 07:07	08/29/16 19:04	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.5	1	08/26/16 07:07	08/29/16 19:04	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.5	1	08/26/16 07:07	08/29/16 19:04	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	34.5	1	08/26/16 07:07	08/29/16 19:04	11097-69-1	
PCB-1260 (Aroclor 1260)	65.8	ug/kg	34.5	1	08/26/16 07:07	08/29/16 19:04	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	34.5	1	08/26/16 07:07	08/29/16 19:04	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	34.5	1	08/26/16 07:07	08/29/16 19:04	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	92	%	52-125	1	08/26/16 07:07	08/29/16 19:04	877-09-8	
Decachlorobiphenyl (S)	107	%	47-125	1	08/26/16 07:07	08/29/16 19:04	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	4.4	%	0.10	1		08/26/16 10:02		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: FD1-SO **Lab ID: 10360345011** Collected: 08/22/16 15:48 Received: 08/25/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.6	1	08/26/16 07:07	08/29/16 19:20	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.6	1	08/26/16 07:07	08/29/16 19:20	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.6	1	08/26/16 07:07	08/29/16 19:20	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.6	1	08/26/16 07:07	08/29/16 19:20	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.6	1	08/26/16 07:07	08/29/16 19:20	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	37.6	1	08/26/16 07:07	08/29/16 19:20	11097-69-1	
PCB-1260 (Aroclor 1260)	91.6	ug/kg	37.6	1	08/26/16 07:07	08/29/16 19:20	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	37.6	1	08/26/16 07:07	08/29/16 19:20	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	37.6	1	08/26/16 07:07	08/29/16 19:20	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	104	%.	52-125	1	08/26/16 07:07	08/29/16 19:20	877-09-8	
Decachlorobiphenyl (S)	118	%.	47-125	1	08/26/16 07:07	08/29/16 19:20	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	12.2	%	0.10	1		08/26/16 10:02		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: ERB1-SO		Lab ID: 10360345012		Collected: 08/22/16 17:00		Received: 08/25/16 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8082A GCS PCB		Analytical Method: EPA 8082A Preparation Method: EPA 3510C							
PCB-1016 (Aroclor 1016)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:44	12674-11-2		
PCB-1221 (Aroclor 1221)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:44	11104-28-2		
PCB-1232 (Aroclor 1232)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:44	11141-16-5		
PCB-1242 (Aroclor 1242)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:44	53469-21-9		
PCB-1248 (Aroclor 1248)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:44	12672-29-6		
PCB-1254 (Aroclor 1254)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:44	11097-69-1		
PCB-1260 (Aroclor 1260)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:44	11096-82-5		
PCB-1262 (Aroclor 1262)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:44	37324-23-5		
PCB-1268 (Aroclor 1268)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:44	11100-14-4		
Surrogates									
Tetrachloro-m-xylene (S)	57	%.	30-125	1	08/30/16 17:39	08/31/16 12:44	877-09-8		
Decachlorobiphenyl (S)	37	%.	30-143	1	08/30/16 17:39	08/31/16 12:44	2051-24-3		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-TSB44-SB1 **Lab ID: 10360345013** Collected: 08/22/16 10:00 Received: 08/25/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	33.9	1	08/26/16 07:07	08/29/16 19:36	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.9	1	08/26/16 07:07	08/29/16 19:36	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.9	1	08/26/16 07:07	08/29/16 19:36	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.9	1	08/26/16 07:07	08/29/16 19:36	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.9	1	08/26/16 07:07	08/29/16 19:36	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	33.9	1	08/26/16 07:07	08/29/16 19:36	11097-69-1	
PCB-1260 (Aroclor 1260)	15.2J	ug/kg	33.9	1	08/26/16 07:07	08/29/16 19:36	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	33.9	1	08/26/16 07:07	08/29/16 19:36	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	33.9	1	08/26/16 07:07	08/29/16 19:36	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	100	%.	52-125	1	08/26/16 07:07	08/29/16 19:36	877-09-8	
Decachlorobiphenyl (S)	112	%.	47-125	1	08/26/16 07:07	08/29/16 19:36	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	3.0	%	0.10	1		08/26/16 10:03		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-TSB44-SB2 **Lab ID: 10360345014** Collected: 08/22/16 10:05 Received: 08/25/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.7	1	08/26/16 07:07	08/29/16 19:52	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.7	1	08/26/16 07:07	08/29/16 19:52	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.7	1	08/26/16 07:07	08/29/16 19:52	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.7	1	08/26/16 07:07	08/29/16 19:52	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.7	1	08/26/16 07:07	08/29/16 19:52	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	35.7	1	08/26/16 07:07	08/29/16 19:52	11097-69-1	
PCB-1260 (Aroclor 1260)	14.8J	ug/kg	35.7	1	08/26/16 07:07	08/29/16 19:52	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	35.7	1	08/26/16 07:07	08/29/16 19:52	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	35.7	1	08/26/16 07:07	08/29/16 19:52	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	110	%.	52-125	1	08/26/16 07:07	08/29/16 19:52	877-09-8	
Decachlorobiphenyl (S)	124	%.	47-125	1	08/26/16 07:07	08/29/16 19:52	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	7.7	%	0.10	1		08/26/16 10:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-TSB45-SB1 **Lab ID:** 10360345015 **Collected:** 08/22/16 10:35 **Received:** 08/25/16 10:00 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	33.7	1	08/26/16 07:07	08/29/16 20:08	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.7	1	08/26/16 07:07	08/29/16 20:08	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.7	1	08/26/16 07:07	08/29/16 20:08	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.7	1	08/26/16 07:07	08/29/16 20:08	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.7	1	08/26/16 07:07	08/29/16 20:08	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	33.7	1	08/26/16 07:07	08/29/16 20:08	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	33.7	1	08/26/16 07:07	08/29/16 20:08	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	33.7	1	08/26/16 07:07	08/29/16 20:08	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	33.7	1	08/26/16 07:07	08/29/16 20:08	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	97	%.	52-125	1	08/26/16 07:07	08/29/16 20:08	877-09-8	
Decachlorobiphenyl (S)	108	%.	47-125	1	08/26/16 07:07	08/29/16 20:08	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	2.0	%	0.10	1		08/26/16 10:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-TSB46-SB1 **Lab ID:** 10360345016 **Collected:** 08/22/16 10:58 **Received:** 08/25/16 10:00 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.2	1	08/26/16 07:07	08/29/16 20:24	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.2	1	08/26/16 07:07	08/29/16 20:24	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.2	1	08/26/16 07:07	08/29/16 20:24	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.2	1	08/26/16 07:07	08/29/16 20:24	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.2	1	08/26/16 07:07	08/29/16 20:24	12672-29-6	
PCB-1254 (Aroclor 1254)	156	ug/kg	34.2	1	08/26/16 07:07	08/29/16 20:24	11097-69-1	
PCB-1260 (Aroclor 1260)	66.7	ug/kg	34.2	1	08/26/16 07:07	08/29/16 20:24	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	34.2	1	08/26/16 07:07	08/29/16 20:24	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	34.2	1	08/26/16 07:07	08/29/16 20:24	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	107	%.	52-125	1	08/26/16 07:07	08/29/16 20:24	877-09-8	
Decachlorobiphenyl (S)	123	%.	47-125	1	08/26/16 07:07	08/29/16 20:24	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	3.6	%	0.10	1		08/26/16 10:03		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: IN-TSB47-SB1 **Lab ID: 10360345017** Collected: 08/22/16 11:15 Received: 08/25/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 21:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 21:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 21:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 21:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 21:11	12672-29-6	
PCB-1254 (Aroclor 1254)	893	ug/kg	35.5	1	08/26/16 07:07	08/29/16 21:11	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 21:11	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 21:11	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	35.5	1	08/26/16 07:07	08/29/16 21:11	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	102	%	52-125	1	08/26/16 07:07	08/29/16 21:11	877-09-8	
Decachlorobiphenyl (S)	115	%	47-125	1	08/26/16 07:07	08/29/16 21:11	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	7.2	%	0.10	1		08/26/16 10:04		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Sample: DFB1		Lab ID: 10360345018		Collected: 08/22/16 13:30		Received: 08/25/16 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8082A GCS PCB		Analytical Method: EPA 8082A Preparation Method: EPA 3510C							
PCB-1016 (Aroclor 1016)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:58	12674-11-2		
PCB-1221 (Aroclor 1221)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:58	11104-28-2		
PCB-1232 (Aroclor 1232)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:58	11141-16-5		
PCB-1242 (Aroclor 1242)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:58	53469-21-9		
PCB-1248 (Aroclor 1248)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:58	12672-29-6		
PCB-1254 (Aroclor 1254)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:58	11097-69-1		
PCB-1260 (Aroclor 1260)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:58	11096-82-5		
PCB-1262 (Aroclor 1262)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:58	37324-23-5		
PCB-1268 (Aroclor 1268)	ND	ug/L	0.11	1	08/30/16 17:39	08/31/16 12:58	11100-14-4		
Surrogates									
Tetrachloro-m-xylene (S)	36	%.	30-125	1	08/30/16 17:39	08/31/16 12:58	877-09-8		
Decachlorobiphenyl (S)	69	%.	30-143	1	08/30/16 17:39	08/31/16 12:58	2051-24-3		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

QC Batch:	432719	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	10360345001, 10360345002, 10360345003, 10360345004, 10360345005, 10360345006, 10360345007, 10360345008, 10360345009, 10360345010, 10360345011, 10360345013, 10360345014, 10360345015, 10360345016, 10360345017		

SAMPLE DUPLICATE: 2352795

Parameter	Units	10360347002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.1	21.3	16	30	

SAMPLE DUPLICATE: 2352796

Parameter	Units	10360299003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.1	9.8	3	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

QC Batch:	432673	Analysis Method:	EPA 8082A
QC Batch Method:	EPA 3550	Analysis Description:	8082A GCS PCB
Associated Lab Samples:	10360345001, 10360345002, 10360345003, 10360345004, 10360345005, 10360345006, 10360345007, 10360345008, 10360345009, 10360345010, 10360345011, 10360345013, 10360345014, 10360345015, 10360345016, 10360345017		

METHOD BLANK: 2352649

Matrix: Solid

Associated Lab Samples: 10360345001, 10360345002, 10360345003, 10360345004, 10360345005, 10360345006, 10360345007, 10360345008, 10360345009, 10360345010, 10360345011, 10360345013, 10360345014, 10360345015, 10360345016, 10360345017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	08/29/16 15:38	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	08/29/16 15:38	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	08/29/16 15:38	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	08/29/16 15:38	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	08/29/16 15:38	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	08/29/16 15:38	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	08/29/16 15:38	
PCB-1262 (Aroclor 1262)	ug/kg	ND	33.0	08/29/16 15:38	
PCB-1268 (Aroclor 1268)	ug/kg	ND	33.0	08/29/16 15:38	
Decachlorobiphenyl (S)	%.	98	47-125	08/29/16 15:38	
Tetrachloro-m-xylene (S)	%.	95	52-125	08/29/16 15:38	

LABORATORY CONTROL SAMPLE: 2352650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	479	72	58-125	
PCB-1260 (Aroclor 1260)	ug/kg	667	491	74	60-125	
Decachlorobiphenyl (S)	%.			99	47-125	
Tetrachloro-m-xylene (S)	%.			92	52-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2352692

2352693

Parameter	Units	10360345002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	698	695	524	575	75	83	48-125	9	30
PCB-1260 (Aroclor 1260)	ug/kg	126	698	695	667	642	78	74	40-125	4	30
Decachlorobiphenyl (S)	%.						99	114	47-125		
Tetrachloro-m-xylene (S)	%.						93	104	52-125		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

QC Batch: 433317

Analysis Method: EPA 8082A

QC Batch Method: EPA 3510C

Analysis Description: 8082A GCS PCB

Associated Lab Samples: 10360345012, 10360345018

METHOD BLANK: 2356684

Matrix: Water

Associated Lab Samples: 10360345012, 10360345018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.10	08/31/16 12:03	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.10	08/31/16 12:03	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.10	08/31/16 12:03	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.10	08/31/16 12:03	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.10	08/31/16 12:03	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.10	08/31/16 12:03	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.10	08/31/16 12:03	
PCB-1262 (Aroclor 1262)	ug/L	ND	0.10	08/31/16 12:03	
PCB-1268 (Aroclor 1268)	ug/L	ND	0.10	08/31/16 12:03	
Decachlorobiphenyl (S)	%.	95	30-143	08/31/16 12:03	
Tetrachloro-m-xylene (S)	%.	58	30-125	08/31/16 12:03	

LABORATORY CONTROL SAMPLE & LCSD: 2356685

2356686

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2	1.3	1.2	63	61	52-125	2	20	
PCB-1260 (Aroclor 1260)	ug/L	2	1.4	1.5	72	74	47-125	3	20	
Decachlorobiphenyl (S)	%.				75	91	30-143			
Tetrachloro-m-xylene (S)	%.				49	56	30-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: 433464

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360345

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10360345001	IN-HDPT38-SB1	EPA 3550	432673	EPA 8082A	433017
10360345002	IN-HDPT38-SB2	EPA 3550	432673	EPA 8082A	433017
10360345003	IN-HDPT38-SB3	EPA 3550	432673	EPA 8082A	433017
10360345004	IN-HDPT39-SB1	EPA 3550	432673	EPA 8082A	433017
10360345005	IN-HDPT39-SB2	EPA 3550	432673	EPA 8082A	433017
10360345006	IN-HDPT39-SB4	EPA 3550	432673	EPA 8082A	433017
10360345007	IN-HDPT40-SB1	EPA 3550	432673	EPA 8082A	433017
10360345008	IN-HDPT40-SB2	EPA 3550	432673	EPA 8082A	433017
10360345009	IN-HDPT40-SB3	EPA 3550	432673	EPA 8082A	433017
10360345010	IN-HDPT41-SB1	EPA 3550	432673	EPA 8082A	433017
10360345011	FD1-SO	EPA 3550	432673	EPA 8082A	433017
10360345013	IN-TSB44-SB1	EPA 3550	432673	EPA 8082A	433017
10360345014	IN-TSB44-SB2	EPA 3550	432673	EPA 8082A	433017
10360345015	IN-TSB45-SB1	EPA 3550	432673	EPA 8082A	433017
10360345016	IN-TSB46-SB1	EPA 3550	432673	EPA 8082A	433017
10360345017	IN-TSB47-SB1	EPA 3550	432673	EPA 8082A	433017
10360345012	ERB1-SO	EPA 3510C	433317	EPA 8082A	433464
10360345018	DFB1	EPA 3510C	433317	EPA 8082A	433464
10360345001	IN-HDPT38-SB1	ASTM D2974	432719		
10360345002	IN-HDPT38-SB2	ASTM D2974	432719		
10360345003	IN-HDPT38-SB3	ASTM D2974	432719		
10360345004	IN-HDPT39-SB1	ASTM D2974	432719		
10360345005	IN-HDPT39-SB2	ASTM D2974	432719		
10360345006	IN-HDPT39-SB4	ASTM D2974	432719		
10360345007	IN-HDPT40-SB1	ASTM D2974	432719		
10360345008	IN-HDPT40-SB2	ASTM D2974	432719		
10360345009	IN-HDPT40-SB3	ASTM D2974	432719		
10360345010	IN-HDPT41-SB1	ASTM D2974	432719		
10360345011	FD1-SO	ASTM D2974	432719		
10360345013	IN-TSB44-SB1	ASTM D2974	432719		
10360345014	IN-TSB44-SB2	ASTM D2974	432719		
10360345015	IN-TSB45-SB1	ASTM D2974	432719		
10360345016	IN-TSB46-SB1	ASTM D2974	432719		
10360345017	IN-TSB47-SB1	ASTM D2974	432719		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10360345

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: NewFields		Report To: David Tooke		Attention: David Tooke / Donna McCammon	
Address: 1120 Cedar St		Copy To: Katie Sittler		Company Name: NewFields	
Missoula, MT 59802		k.sittler@newfields.com k.sittler@newfields.com		Address: Same	
Email To: dtooke@newfields.com		Purchase Order No.: 20160824		Pace Quote Reference: 23454	
Phone: 406-549-8270 Fax: 406-549-8277		Project Name: Frenchtown Mill		Pace Project Manager: Jennifer Anderson	
Requested Due Date/TAT: Standard		Project Number: 350.0065.001 4D		Pace Profile #:	

Page: 1 of 2

REGULATORY AGENCY	
☐ NPDES	☐ GROUND WATER
☐ UST	☐ RCRA
☒ OTHER	CERCLA
Site Location	STATE: MT

ITEM #	Section D Required Client Information		Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
All samples on this COC will be extracted and analyzed.	Heather Grotbo	8/24/16	1200	Jennifer Anderson/Pace	8/25/16	1000	4.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Heather Grotbo					
SIGNATURE of SAMPLER: <i>Heather Grotbo</i>					
DATE Signed (MM/DD/YY): 8/24/16					

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

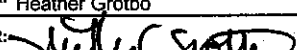
Page: **2** of **2**

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: NewFields		Report To: David Tooke		Attention: David Tooke / Donna McCammon	
Address: 1120 Cedar St		Copy To: Katie Sittler		Company Name: NewFields	
Missoula, MT 59802		kstiller@newfields.com kstiller@newfields.com		Address: Same	
Email To: dtooke@newfields.com		Purchase Order No.: 20160824		Pace Quote Reference: 23454	
Phone: 406-549-8270 Fax: 406-549-8277		Project Name: Frenchtown Mill		Pace Project Manager: Jennifer Anderson	
Requested Due Date/TAT: Standard		Project Number: 350.0065.001 4D		Pace Profile #:	

REGULATORY AGENCY			
☐ NPDES	☐ GROUND WATER	☐ DRINKING WATER	
☐ UST	☐ RCRA	☒ OTHER CERCLA	
Site Location		STATE: MT	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Z																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
All samples on this COC will be extracted and analyzed.	Heather Grotho	8/24/16	1200	Jake Anderson/Pace	8/25/16	1000	4.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Heather Grotho					
SIGNATURE of SAMPLER: 	DATE Signed (MM/DD/YY): 8/24/16				

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 02Aug2016 Page 1 of 2
	Document No.: F-MN-L-213-rev.17	Issuing Authority: Pace Minnesota Quality Office

**Sample Condition
Upon Receipt**

Client Name:

Project #:

New Fields

WO# : 10360345

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client
☐ Commercial ☐ Pace ☐ SpeedDee ☐ Other: _____



Tracking Number: 7770 6845 7132

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No

Seals Intact? ☒ Yes ☐ No

Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____

Temp Blank? ☒ Yes ☐ No

Thermometer ☐ 151401163

☐ B88A912167504

Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Used: ☒ 151401164

☐ B88A0143310098

Cooler Temp Read (°C): 4.0 **Cooler Temp Corrected (°C):** 4.0

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C

Correction Factor: +0.0

Date and Initials of Person Examining Contents: GS 8/25/16

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA,

MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?

☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? ☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out? ☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished? ☒ Yes ☐ No ☐ N/A	3.
Sampler Name and/or Signature on COC? ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time? ☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72 hr)? ☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested? ☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume? ☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used? ☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used? ☒ Yes ☐ No ☐ N/A	
Containers Intact? ☒ Yes ☐ No ☐ N/A	10.
Filtered Volume Received for Dissolved Tests? ☐ Yes ☐ No ☒ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? ☒ Yes ☐ No ☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>SL/WT</u>	
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A	Sample #
(HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC ☐ Yes ☐ No ☒ N/A	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? ☐ Yes ☐ No ☒ N/A	14.
Trip Blank Present? ☐ Yes ☐ No ☒ N/A	15.
Trip Blank Custody Seals Present? ☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased): _____	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature]

Date: 08/25/2016

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

September 09, 2016

David Tooke
Newfields
1120 Cedar Street
Missoula, MT 59802

RE: Project: 350.0065.001 4D FrenchtownMill
Pace Project No.: 10360348

Dear David Tooke:

Enclosed are the analytical results for sample(s) received by the laboratory on August 25, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jennifer Anderson
jennifer.anderson@pacelabs.com
Project Manager

Enclosures

cc: Chris Cerquone, Newfields
Katie Sitler, Newfields



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360348

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360348

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10360348001	IN-HDPT38-SB4	Solid	08/22/16 15:30	08/25/16 10:00
10360348002	IN-HDPT39-SB6	Solid	08/22/16 16:55	08/25/16 10:00
10360348003	IN-HDPT40-SB4	Solid	08/22/16 16:20	08/25/16 10:00
10360348004	IN-HDPT41-SB5	Solid	08/23/16 11:35	08/25/16 10:00

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SAMPLE ANALYTE COUNT

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360348

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10360348001	IN-HDPT38-SB4	EPA 8082A	KL1	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360348002	IN-HDPT39-SB6	EPA 8082A	KL1	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360348003	IN-HDPT40-SB4	EPA 8082A	KL1	11	PASI-M
		ASTM D2974	JDL	1	PASI-M
10360348004	IN-HDPT41-SB5	EPA 8082A	KL1	11	PASI-M
		ASTM D2974	JDL	1	PASI-M

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PROJECT NARRATIVE

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360348

Method: EPA 8082A

Description: 8082A GCS PCB

Client: Newfields

Date: September 09, 2016

General Information:

4 samples were analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360348

Sample: IN-HDPT38-SB4 **Lab ID:** 10360348001 **Collected:** 08/22/16 15:30 **Received:** 08/25/16 10:00 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.8	1	08/29/16 09:44	09/06/16 17:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.8	1	08/29/16 09:44	09/06/16 17:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.8	1	08/29/16 09:44	09/06/16 17:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.8	1	08/29/16 09:44	09/06/16 17:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.8	1	08/29/16 09:44	09/06/16 17:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	34.8	1	08/29/16 09:44	09/06/16 17:48	11097-69-1	
PCB-1260 (Aroclor 1260)	17.13	ug/kg	34.8	1	08/29/16 09:44	09/06/16 17:48	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	34.8	1	08/29/16 09:44	09/06/16 17:48	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	34.8	1	08/29/16 09:44	09/06/16 17:48	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	91	%.	52-125	1	08/29/16 09:44	09/06/16 17:48	877-09-8	
Decachlorobiphenyl (S)	95	%.	47-125	1	08/29/16 09:44	09/06/16 17:48	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	5.2	%	0.10	1		09/07/16 12:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360348

Sample: IN-HDPT39-SB6 **Lab ID:** 10360348002 **Collected:** 08/22/16 16:55 **Received:** 08/25/16 10:00 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB		Analytical Method: EPA 8082A Preparation Method: EPA 3550						
PCB-1016 (Aroclor 1016)	ND	ug/kg	36.6	1	08/29/16 09:44	09/06/16 18:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	36.6	1	08/29/16 09:44	09/06/16 18:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	36.6	1	08/29/16 09:44	09/06/16 18:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	36.6	1	08/29/16 09:44	09/06/16 18:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	36.6	1	08/29/16 09:44	09/06/16 18:30	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	36.6	1	08/29/16 09:44	09/06/16 18:30	11097-69-1	
PCB-1260 (Aroclor 1260)	1470	ug/kg	36.6	1	08/29/16 09:44	09/06/16 18:30	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	36.6	1	08/29/16 09:44	09/06/16 18:30	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	36.6	1	08/29/16 09:44	09/06/16 18:30	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	82	%.	52-125	1	08/29/16 09:44	09/06/16 18:30	877-09-8	
Decachlorobiphenyl (S)	95	%.	47-125	1	08/29/16 09:44	09/06/16 18:30	2051-24-3	
Dry Weight		Analytical Method: ASTM D2974						
Percent Moisture	9.9	%	0.10	1		09/07/16 12:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360348

Sample: IN-HDPT40-SB4 **Lab ID: 10360348003** Collected: 08/22/16 16:20 Received: 08/25/16 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	34.6	1	08/29/16 09:44	09/06/16 18:44	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	34.6	1	08/29/16 09:44	09/06/16 18:44	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	34.6	1	08/29/16 09:44	09/06/16 18:44	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	34.6	1	08/29/16 09:44	09/06/16 18:44	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	34.6	1	08/29/16 09:44	09/06/16 18:44	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	34.6	1	08/29/16 09:44	09/06/16 18:44	11097-69-1	
PCB-1260 (Aroclor 1260)	50.3	ug/kg	34.6	1	08/29/16 09:44	09/06/16 18:44	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	34.6	1	08/29/16 09:44	09/06/16 18:44	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	34.6	1	08/29/16 09:44	09/06/16 18:44	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	94	%	52-125	1	08/29/16 09:44	09/06/16 18:44	877-09-8	
Decachlorobiphenyl (S)	98	%	47-125	1	08/29/16 09:44	09/06/16 18:44	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	4.5	%	0.10	1		09/07/16 12:03		

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ANALYTICAL RESULTS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360348

Sample: IN-HDPT41-SB5 **Lab ID:** 10360348004 **Collected:** 08/23/16 11:35 **Received:** 08/25/16 10:00 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.6	1	08/29/16 09:44	09/06/16 18:58	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.6	1	08/29/16 09:44	09/06/16 18:58	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.6	1	08/29/16 09:44	09/06/16 18:58	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.6	1	08/29/16 09:44	09/06/16 18:58	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.6	1	08/29/16 09:44	09/06/16 18:58	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	37.6	1	08/29/16 09:44	09/06/16 18:58	11097-69-1	
PCB-1260 (Aroclor 1260)	172	ug/kg	37.6	1	08/29/16 09:44	09/06/16 18:58	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/kg	37.6	1	08/29/16 09:44	09/06/16 18:58	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/kg	37.6	1	08/29/16 09:44	09/06/16 18:58	11100-14-4	
Surrogates								
Tetrachloro-m-xylene (S)	90	%.	52-125	1	08/29/16 09:44	09/06/16 18:58	877-09-8	
Decachlorobiphenyl (S)	97	%.	47-125	1	08/29/16 09:44	09/06/16 18:58	2051-24-3	
Dry Weight Analytical Method: ASTM D2974								
Percent Moisture	12.3	%	0.10	1		09/07/16 12:03		

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QUALITY CONTROL DATA

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360348

QC Batch: 434342 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10360348001, 10360348002, 10360348003, 10360348004

SAMPLE DUPLICATE: 2361569

Parameter	Units	10360842001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.7	15.4	2	30	

SAMPLE DUPLICATE: 2361619

Parameter	Units	10360748007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.4	14.9	3	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360348

QC Batch: 432931 Analysis Method: EPA 8082A
QC Batch Method: EPA 3550 Analysis Description: 8082A GCS PCB
Associated Lab Samples: 10360348001, 10360348002, 10360348003, 10360348004

METHOD BLANK: 2354307 Matrix: Solid
Associated Lab Samples: 10360348001, 10360348002, 10360348003, 10360348004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	09/06/16 17:20	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	09/06/16 17:20	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	09/06/16 17:20	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	09/06/16 17:20	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	09/06/16 17:20	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	09/06/16 17:20	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	09/06/16 17:20	
PCB-1262 (Aroclor 1262)	ug/kg	ND	33.0	09/06/16 17:20	
PCB-1268 (Aroclor 1268)	ug/kg	ND	33.0	09/06/16 17:20	
Decachlorobiphenyl (S)	%.	101	47-125	09/06/16 17:20	
Tetrachloro-m-xylene (S)	%.	97	52-125	09/06/16 17:20	

LABORATORY CONTROL SAMPLE: 2354308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	533	80	58-125	
PCB-1260 (Aroclor 1260)	ug/kg	667	532	80	60-125	
Decachlorobiphenyl (S)	%.			106	47-125	
Tetrachloro-m-xylene (S)	%.			101	52-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2354309 2354310

Parameter	Units	10360348001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	700	703	537	491	77	70	48-125	9	30	
PCB-1260 (Aroclor 1260)	ug/kg	17.1J	700	703	553	502	76	69	40-125	10	30	
Decachlorobiphenyl (S)	%.						99	97	47-125			
Tetrachloro-m-xylene (S)	%.						96	93	52-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360348

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 350.0065.001 4D FrenchtownMill

Pace Project No.: 10360348

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10360348001	IN-HDPT38-SB4	EPA 3550	432931	EPA 8082A	434292
10360348002	IN-HDPT39-SB6	EPA 3550	432931	EPA 8082A	434292
10360348003	IN-HDPT40-SB4	EPA 3550	432931	EPA 8082A	434292
10360348004	IN-HDPT41-SB5	EPA 3550	432931	EPA 8082A	434292
10360348001	IN-HDPT38-SB4	ASTM D2974	434342		
10360348002	IN-HDPT39-SB6	ASTM D2974	434342		
10360348003	IN-HDPT40-SB4	ASTM D2974	434342		
10360348004	IN-HDPT41-SB5	ASTM D2974	434342		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: **3** of **3**

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: NewFields		Report To: David Tooke		Attention: David Tooke / Donna McCammon	
Address: 1120 Cedar St		Copy To: Katie Sittler		Company Name: NewFields	
Missoula, MT 59802		kettler@newfields.com		Address: Same	
Email To: dtooke@newfields.com		Purchase Order No.: 20160824		Pace Quote Reference: 23454	
Phone: 406-549-8270 Fax: 406-549-8277		Project Name: Frenchtown Mill		Pace Project Manager: Jennifer Anderson	
Requested Due Date/TAT: Standard		Project Number: 350.0065.001 4D		Pace Profile #:	

REGULATORY AGENCY			
☐ NPDES	☐ GROUND WATER	☐ DRINKING WATER	
☐ UST	☐ RCRA	☒ OTHER CERCLA	
Site Location		STATE: MT	

ITEM #	Section D Required Client Information		Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N ↓ Analysis Test ↑	PCB Aroclors (extract only)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
All samples on this COC will be extracted (SW846 for 8082A) but held until further instruction. Please do not analyze these samples until further instruction from client.	Heather C Grobo	8/24/16	1200	Lab Director	8/25/16	1000	5.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Heather Grobo					
SIGNATURE of SAMPLER: <i>Heather Grobo</i>					
DATE Signed (MM/DD/YY): 8/24/16					

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 02Aug2016 Page 1 of 2
	Document No.: F-MN-L-213-rev.17	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt	Client Name: <u>New Fields</u>	Project #:	WO# : 10360348  10360348
Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Speedee ☐ Other:	Tracking Number: <u>7770 6845 7614</u>		

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No	Seals Intact? ☒ Yes ☐ No	Optional: Proj. Due Date: Proj. Name:
Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other:	Temp Blank? ☒ Yes ☐ No	
Thermometer Used: ☐ 151401163 ☒ 151401164	☐ B88A912167504 ☐ B88A0143310098	Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun
Cooler Temp Read (°C): <u>5.0</u>	Cooler Temp Corrected (°C): <u>5.0</u>	Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C	Correction Factor: <u>+0.0</u>	Date and Initials of Person Examining Contents: <u>GS 8/25/16</u>
USDA Regulated Soil (☐ N/A, water sample) Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.		

	COMMENTS:
Chain of Custody Present? ☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out? ☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished? ☒ Yes ☐ No ☐ N/A	3.
Sampler Name and/or Signature on COC? ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time? ☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72 hr)? ☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested? ☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume? ☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used? ☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used? ☒ Yes ☐ No ☐ N/A	
Containers Intact? <u>GS 8/25/16</u> ☒ Yes ☒ No ☐ N/A	10. one AGIU from sample 32 arrived broken
Filtered Volume Received for Dissolved Tests? ☐ Yes ☐ No ☒ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? ☒ Yes ☐ No ☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>SL/WT</u>	
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A	Sample #
(HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC ☐ Yes ☐ No ☒ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)? ☐ Yes ☐ No ☒ N/A	14.
Trip Blank Present? ☐ Yes ☐ No ☒ N/A	15.
Trip Blank Custody Seals Present? ☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):	

CLIENT NOTIFICATION/RESOLUTION		Field Data Required? ☐ Yes ☐ No
Person Contacted:	Date/Time:	
Comments/Resolution:		

Project Manager Review: <u>[Signature]</u>	Date: <u>08/25/2016</u>
Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).	

APPENDIX C

DATA VALIDATION SUMMARY

APPENDIX C

MEMORANDUM – DATA VALIDATION SUMMARY

Date:	October 11, 2016	Project No.	350.0065.001
To:	Project File		
From:	Katie Sitler, Data Validator		
Subject:	Data Validation Summary – Additional Soil Sampling for PCBs at the High Density Pulp Tank Foundation and Transformer Storage Building Foundation Areas, Smurfit Stone/Frenchtown Mill, Missoula County Montana		

NewFields Mining & Energy Services, LLC (NewFields) prepared this Technical Memorandum (Memo) on behalf of three potentially responsible parties (PRPs) for the Site, including M2Green Redevelopment (M2Green; current owner), WestRock, and International Paper Company, to present the evaluation of data quality for the additional soil sampling for PCBs at the high density pulp tank foundation and transformer storage building foundation areas of the Smurfit-Stone/Frenchtown Mill (Site) in Missoula County, Montana. NewFields completed the study in general accordance with Addendum No. 2 of the Remedial Investigation Work Plan (RI Work Plan; NewFields 2015), including a Field Sampling Plan (FSP), Quality Assurance Project Plan (QAPP), and Health and Safety Plan (HASP).

The purpose of this Memo is to present information concerning the usability of data obtained during the sampling event. This Memo includes a summary of data validation, evaluation of data quality, and a list of deviations to the FSP/QAPP. Laboratory reports are included as **Appendix A** of the investigation report. The FSP, QAPP, and HASP are included as Appendices D, E, and F, respectively of the Remedial Investigation Work Plan (NewFields 2015).

The contents of this Memo are as follows:

- Summary of Data Validation
- Deviations from Plan of Study
- QA/QC Sample Review
- Data Quality Assessment
- Conclusions
- References

1.0 SUMMARY OF DATA VALIDATION

NewFields reviewed information regarding the collection and analysis of field and laboratory samples to evaluate compliance with data quality objectives for the additional PCB soil sampling completed in August 2016. A summary of results from the data review and validation process is described below and further documented in the attached tables (**Tables C1 and C2**).



During the August 2016 PCB soil investigation, 22 soil samples were collected from the High Density Pulp Tank Foundation Area and 21 samples were collected from the Transformer Storage Building Foundation Area and submitted to Pace Laboratories. Additionally, three field duplicates, three equipment rinse blanks, and one field blank were submitted to Pace Laboratories for quality control purposes. A subset of samples was identified for analysis of PCBs (Aroclors). These include 19 natural samples, one field duplicate, one field blank, and one rinsate blank.

Field Duplicate

Field duplicate samples are individual samples collected from the same sampling location, using the same sampling techniques, and submitted to the laboratory for the same set of analyses. Field duplicates were collected by consecutively filling two sample containers with soil from the same sampling location. The purpose of field duplicates is to ascertain sampling precision.

Field Blanks and Rinsate Blanks

Rinsate blanks consist of deionized (DI) water used to rinse decontaminated water sampling equipment (e.g., pumps and water measuring tape). The purpose of the rinsate blank is to assess the potential for cross-contamination of samples due to insufficient decontamination of non-disposable sampling equipment.

Field blanks consist of DI water placed into sample containers in the field and submitted to the laboratory for analysis of the complete list of analytes for the Project. For this project, field blanks were submitted with the soil samples and were used to assess the potential for contamination in the water used for rinsing equipment.

Target control limits for all field blanks are no analyte concentrations above laboratory practical quantifiable limits (PQLs).

A laboratory temperature blank is also included in sample shipping containers prior to sending to the laboratory. The temperature blank is a vial of water that accompanies the samples that is measured for temperature upon arrival at the laboratory. This is used to ensure that the temperature of the contents of the sample shipping container was within the required criterion (≤ 6 degrees Celsius ($^{\circ}\text{C}$)).

Field Documentation

Proper documentation for field data collection and laboratory analysis is an integral part of data validation. In general, field documentation for this sampling event included the following:

- Field notebooks and forms;
- Adherence to standard operating procedures (SOPs);
- Chain-of-custody (COC) procedures and forms;
- Sample shipping records; and
- Corrective action reports (archived as emails between the Laboratories and NewFields).

Laboratory Results



Laboratory analytical results of samples include the following information:

- Sample delivery group (SDG);
- Sample ID;
- Sample preparation data;
- Analytical method;
- Analytical date;
- Analytical batch number;
- Sample results and reporting units;
- Practical quantitation limits (PQL);
- Method detection limits (MDL); and
- Laboratory qualification flags (if any).
- For this project, each lab report includes a level III data package

Depending on analytical methods, each laboratory incorporates the following types of QC information and samples:

- Sample receipt conditions and completeness;
- Holding time issues;
- Initial Calibration Verification (ICV)/Continuing Calibration Verification (CCV) results;
- Initial Calibration Blank (ICB)/Continuing Calibration Blank (CCB) results (inorganics only);
- Method Blank (MB) or Preparation Blank results;
- Matrix Spike (MS) results (not required for dioxins/furans);
- Laboratory Duplicate results (includes MS Duplicates (MSD));
- Laboratory Control Sample (LCS) results;
- Interference Check Sample (ICS) results (inorganics by Inductively Coupled Plasma (ICP) only);
- Serial Dilution results (inorganics by ICP only);
- Internal Standard results (inorganics by ICP-Mass Spectroscopy (ICP-MS) only); and
- Surrogate Spike results (organic data only).

Target control limits for these laboratory QC samples are described in the QAPP (NewFields 2015).

Method requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing acceptable quantitative data for the target analyte list. The criteria used to evaluate laboratory blank samples, applies to any blank associated with the samples (e.g., method blanks, calibration blanks, and field blanks).

The MB consists of laboratory-grade pure water containing all reagents utilized in the analytical procedure. A MB is prepared in the same manner as a sample and is processed through all of the analytical steps, including sample preparation. Method blanks are analyzed to determine whether there is glassware, reagent, instrument, or other laboratory process contamination.



The MS is an aliquot of a field sample spiked with a known concentration of target analyte. The spiking occurs prior to sample preparation and analysis, and is not required for dioxin/furan analysis. An MS is used to document the bias (accuracy and precision) of a method in a given sample matrix.

Laboratory duplicates are splits of environmental samples, and MSDs are splits of the MS samples. The MSD is an intra-laboratory split of the same sample used for the MS that is also spiked with identical concentrations of analytes and treated just as the MS sample. Laboratory duplicates and MSDs are used to evaluate accuracy and precision of the samples respectively.

The LCS is not required for most organic methods, but is evaluated for this project. LCSs are an interference-free matrix (DI water and/or cleaned sand) fortified with known quantities of target analytes. LCSs are used to measure the accuracy of Project samples. They also serve as monitors of overall performance for all steps in the analytical process, including sample preparation.

Surrogates are compounds of similar chemical composition and behavior (in the analytical process) as the target compounds for organic analysis, but are not expected to be present in the sample. Surrogates are added to all field and QC samples in the analytical batch during the preparation stage. They are used to monitor performance of the analyses and measure accuracy of Project samples.

The natural samples and associated QC samples were collected and submitted under chain-of-custody procedures to Pace Analytical Laboratory (Pace) and Frontier Analytical Laboratory (Frontier). Pace analyzed all parameters except for dioxins/furans, which were analyzed by Frontier. Both laboratories are accredited to perform the analysis of parameters identified in the FSP.

Validation and Verification

Data review (validation and verification) is the process by which data generated in support of a project are reviewed against the data quality assurance and quality control (QA/QC) requirements. Sample QA/QC review criteria are described in detail in the QAPP (NewFields 2015), and are consistent with U.S. Environmental Protection Agency (USEPA) functional guidelines for inorganic data review (USEPA 2014a), organic data review (USEPA 2014b), and dioxin/furan data review (USEPA 2011). Professional judgement also is used to determine if results should be qualified or rejected.

Objectives of the QA/QC analysis and data review are to identify any unreliable or invalid field and laboratory measurements, and to qualify data for interpretive use. Measurements that do not meet QC criteria specified in the QAPP (NewFields 2015) are qualified with a J-flag to indicate that the results are estimated values, or an R-flag if any results are rejected. Measurements that are reported below the laboratory reporting limit are qualified with a U-flag. These flags are incorporated into the Project data tables.

The final data evaluation task is to assess whether the data meet Project data quality objectives (DQOs) that are described in the RIWP. The final validated analytical results, some of which are qualified during the data validation process, are checked against the DQOs, and an assessment is made to determine whether the data are of sufficient quality to support the DQOs. To ensure that the data are of sufficient quality to support the intended data uses and the Project's DQOs, the PARCC parameters (precision, accuracy, representativeness, completeness, and comparability) are evaluated (see **Section 4**).



2.0 DEVIATIONS FROM PLAN OF STUDY

No deviations from the Addendum No. 2 and FSP/QAPP occurred during the August 2016 PCB soil sampling event.

3.0 QA/QC SAMPLE REVIEW

The following statements summarize the qualification of data based on Project-specific criteria outlined in the RI Work Plan, FSP, and QAPP (NewFields 2015), along with professional judgment. These QA/QC results for data review and validation are summarized in **Tables B1** and **B2** attached to this Memo.

3.1 Conformance with Sampling Plan and Reporting Limits

General conformance with Addendum No. 2 (NewFields 2016) and the FSP and QAPP (NewFields 2015) was evaluated for the additional soil sampling event. These include: documentation of sampling activities and field information in field notebooks and forms; records of field equipment calibration and maintenance; adherence to SOPs; documentation of sample shipping methods and completion of COC forms; laboratory case narrative nonconformance issues; and matching COC information with laboratory sample receipt documentation. The following conformance issues were noted during validation:

- A Matrix spike/matric spike duplicate was not performed for Samples ERB-SO (Rinsate Blank, QC Sample) and DFB1 (Field Blank, QC Sample) due to insufficient sample volume for PACE SDG 10360345.

3.2 Hold Time, Temperature, and Preservation

Hold times and temperature/preservation requirements are presented in the Laboratory QA Manuals for Pace and Frontier, which are in the QAPP (NewFields 2015). All samples were received within specified hold times for analysis of PCB by EPA Method 8082A. All samples were received by the laboratory within temperature guidelines ($\leq 6^{\circ}\text{C}$) and all samples were received in good condition.

3.3 Duplicates

In accordance with the QAPP (NewFields 2015), laboratory and field duplicates for samples were collected and analyzed at a minimum rate of 5 percent (1 in 20 natural samples) or as defined by method. The relative percent difference (RPD) and practical quantitation limit (PQL) comparison between natural samples and field duplicates and between laboratory MS and MSD samples were evaluated and all duplicate RPDs and PQLs fell within control limits; no results were qualified.

3.4 Blank Detects

In accordance with the QAPP (NewFields 2015), laboratory and field blanks were collected and analyzed at a minimum rate of 5 percent (1 in 20 natural samples) for rinsate blanks, a minimum of one field blank per event, and a minimum rate of 5 percent (1 in 20 natural samples) or as defined by method for laboratory method blanks.



Both field blanks (Field Blank and Rinsate Blank) and laboratory method blanks were non-detect for all analytes. No additional qualification (aside from a U flag) was applied to the sample results.

3.5 Laboratory Control Samples

In accordance with the QAPP (NewFields 2015), a laboratory control sample (LCS) was analyzed by the laboratory at a minimum rate of 5 percent (1 in 20 natural samples) or as defined by method. All LCS recoveries were within quality control acceptance criteria identified in the QAPP (NewFields 2015).

3.6 Matrix Spike Recovery

In accordance with the QAPP (NewFields 2015), a Matrix spike (MS) recovery was analyzed by the laboratory at a minimum rate of 5 percent (1 in 20 natural samples) or as defined by method, except those deviations identified in **Section 3.1**. All MS recovery results evaluated were within quality control acceptance criteria identified in the QAPP (NewFields 2015).

4.0 DATA QUALITY ASSESSMENT

The following section includes an assessment of data based on their intended use and compliance with the Addendum No. 2 (NewFields 2016) and the FSP and QAPP (NewFields 2015). The usability of data pursuant to Project DQOs was evaluated based on five quality indicators including precision, accuracy, representativeness, completeness, and comparability (PARCC). These non-direct indicators are used to guide the evaluation of overall data quality. Sampling data that do not meet the Project-specified validation criteria are qualified with a J-flag in the body of this report. A J-flag indicates the reported value is considered estimated, but is still usable for the purposes of site characterization and statistical analysis of the data. An R-flag, if any, indicates the applicable data are rejected due to a significant data quality issue.

4.1 Precision

Precision is the degree of reproducibility of measurements under a given set of conditions, and is inversely related to variability among the results (i.e. highly variable results have low precision). Field and laboratory precision is evaluated by collecting and analyzing field duplicates and calculating variance between the samples, as RPD. Laboratory precision is evaluated by analyzing MS/MSD samples and using the results to calculate RPD.

Field duplicates were collected at a frequency of one per 20 natural samples. Laboratory duplicates were analyzed for every batch of 20 samples or less, or as defined by method. Target control limits for inorganic analyses associated with field duplicates are when duplicate sample results are within a relative percent difference (RPD) of 35% (for soil) when both sample concentrations (original and duplicate) are greater than five times (5X) the laboratory practical quantitation limit (PQL), and $\pm$ PQL when either of the sample concentrations is $<5X$ PQL. For organic analyses of all samples, if the laboratory's quality control (QC) limits are greater than a RPD of 35%, the laboratory's QC limits are used.



Data are qualified as estimated values (J- or UJ-flagged) when the RPD values for duplicates are outside the control limits. In accordance with USEPA (2011, 2014a, 2014b) guidance, there are no criteria for rejecting results based on duplicate samples.

During the soil sampling event in August 2016, 19 samples were collected and analyzed to further investigate the extent of PCB soil impacts in the two identified areas. Three field duplicate samples were collected, and one laboratory duplicate sample was analyzed by the laboratory to evaluate sampling and analytical precision. Based on criteria outlined in the QAPP, analytical results met precision requirements for this study.

4.2 Accuracy

Accuracy is the agreement between a measured value and a “true” value, and is assessed by evaluating laboratory LCS and MS recovery results. The accuracy objective goal for MS recovery is 75% to 125%. The accuracy objective goal for LCS is a recovery of 80% to 120% or within the 95% confidence limit of the known value.

Data are qualified as estimated values (J-flagged) when the recovery values for spiked samples and fortified blanks are outside the control limits. In accordance with USEPA (2011, 2014a, 2014b) guidance, the criteria for rejecting LCS recoveries are: non-detect results are rejected only if the percent recovery is <40%, and detected results are rejected only if the percent recovery is >150%. There are no rejection criteria for MS recoveries for detected results; however, non-detect results are rejected if the MS recovery is <30%.

No LCS or MS results exceeded data quality criteria during this sampling event and none of the samples were rejected based on the criteria described above.

4.3 Representativeness

Representativeness is the extent to which discrete measurements and testing accurately describe the environmental system. Representative data are achieved through selection of sufficient sampling locations and frequencies to represent the media over the Project area, and proper sampling and analytical procedures to meet Project DQOs. Acceptance for representativeness also is evaluated using blank sample results.

Nineteen (19) soil samples were analyzed to investigate the extent of the PCB soil impacts. One field blank and an equipment rinsate blank were collected and analyzed by the laboratory to evaluate representativeness. The field blank, rinsate blanks, and laboratory blanks did not have any results that exceeded representativeness criteria outlined in the QAPP.

4.4 Completeness

Completeness is achieved when the number of valid measurements is sufficient to satisfactorily address Project DQOs. Completeness is calculated as the number of valid measurements divided by the total number of planned measurements, expressed as a percentage. The completeness goal for this Project is 90%. A valid measurement is one in which the sample was properly collected and considered representative of the material sampled, and which was not rejected during the data quality review



process. Results qualified as estimated (J-flagged) are considered valid measurements, unless extenuating circumstances or professional judgement indicate otherwise.

No data were rejected and all data are deemed suitable for their intended use. Therefore, a completeness threshold of greater than 90 percent was achieved for the sampling event.

4.5 Comparability

Comparability is the degree to which two or more data sets from the same site are generated using consistent procedures. Inherent compositional differences aside, discrete data sets may differ as a result of non-random (biased) sampling, variability in sampling technique, and variations in methods of analysis. To ensure comparability of data collected for this Project, the following actions were implemented:

- Sampling program was based to a large extent on previously implemented sampling programs (e.g., previous USEPA and NewFields sampling) to maximize data comparability.
- Standard Operating Procedures (SOPs) were used for sampling activities and analytical work.
- Field personnel were thoroughly trained in sampling techniques.
- Data results were reported in standard and consistent units.
- Data qualifiers were consistent for all Project data.
- All sampling sites were accurately delineated and recorded according to field sampling SOPs.
- Analyses were performed using USEPA-accepted methods, as available and appropriate.

Standard procedures are identified in the Project FSP and QAPP (NewFields 2015). Standard methods, including data review procedures specified in USEPA's (2011, 2014a, 2014b) National Functional Guidelines were followed by the laboratory, which allows comparison to other datasets obtained by similar methods. No deviations to the FSP/QAPP were noted, see **Section 2** of this Memo.

5.0 CONCLUSIONS

All data collected at the site are deemed usable for this PCB soil investigation. No data were rejected based on the results of the data review and validation process. All analytical values meet QA/QC criteria specified in the QAPP (NewFields 2015). Measurements that are reported below the laboratory reporting limit are qualified with a U-flag. These flags are incorporated into the Project data tables presented in the body of this report.

Soil quality data collected during the August 2015 PCB Soil Investigation have gone through the validation and verification process, and are of sufficient quality to satisfy project DQOs (i.e., not rejected), and can be used for the following:

- Characterize the nature and extent of PCBs in soils within the areas of the HDPT foundation and the TSB foundation; and
- Support human health and ecological risk assessment tasks.



6.0 REFERENCES

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- U.S. Environmental Protection Agency (USEPA), 2009. USEPA Analytical Services Branch Statement of Work for Analysis of Chlorinated Dibenzo-P-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs), Multi-Media, Multi-Concentration, DLM02.2. December 2009.
- _____, 2011. USEPA Contract Laboratory Program (CLP), National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review. OSWER 9240.1-53, EPA-540-R-11-016. Office of Superfund Remediation and Technology Innovation (OSRTI). September 2011.
- _____, 2014a. National Functional Guidelines for Inorganic Superfund Data Review. OSWER 9355.0-131, EPA-540-R-013-001. Office of Superfund Remediation and Technology Innovation (OSRTI). August 2014.
- _____, 2014b. National Functional Guidelines for Superfund Organic Methods Data Review. OSWER 9355.0-132, EPA-540-R-014-002. Office of Superfund Remediation and Technology Innovation (OSRTI). August 2014.
- _____, 2015. EPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods, Multi-Media, Multi-Concentration, ISM02.3. September 2015.

TABLES

TABLE C I
SAMPLE DELIVERABLE GROUPS FOR SOIL SAMPLES
Data Summary Report: August 2016 PCB Soil Investigation
Former Frenchtown Mill

SDG	Lab ID	Sample ID	Sample Date	Type	Natural Sample
10360345	10360345001	IN-HDPT38-SB1	8/22/2016	NM	
	10360345002	IN-HDPT38-SB2	8/22/2016	NM	
	10360345003	IN-HDPT38-SB3	8/22/2016	NM	
	10360345004	IN-HDPT39-SB1	8/22/2016	NM	
	10360345005	IN-HDPT39-SB2	8/22/2016	NM	
	10360345006	IN-HDPT39-SB4	8/22/2016	NM	
	10360345007	IN-HDPT40-SB1	8/22/2016	NM	
	10360345008	IN-HDPT40-SB2	8/22/2016	NM	
	10360345009	IN-HDPT40-SB3	8/22/2016	NM	
	10360345010	IN-HDPT41-SB1	8/23/2016	NM	
	10360345011	FDI-SO	8/22/2016	DUP	IN-HDPT40-SB1
	10360345012	ERBI-SO	8/22/2016	RB	
	10360345013	IN-TSB44-SB1	8/22/2016	NM	
	10360345014	IN-TSB44-SB2	8/22/2016	NM	
	10360345015	IN-TSB45-SB1	8/22/2016	NM	
	10360345016	IN-TSB46-SB1	8/22/2016	NM	
	10360345017	IN-TSB47-SB1	8/22/2016	NM	
	10360345018	DFBI	8/22/2016	FB	
10360348	10360348001	IN-HDPT38-SB4	8/22/2016	NM	
	10360348002	IN-HDPT39-SB6	8/22/2016	NM	
	10360348003	IN-HDPT40-SB4	8/22/2016	NM	
	10360348004	IN-HDPT41-SB5	8/23/2016	NM	

Notes:

	- blank sample
	- duplicate sample

Abbreviations:

RB	- rinsate blank
FB	- field blank
DUP	- field duplicate
SDG	- sample deliverable group
NM	- normal sample
ID	- Identification number or name

SIG	LabID	SampleID	Analyte	CAS Number	Lab Flag	Lab Qualifiers	HT-Temp	Temp	LD	FD	LB	FB/RB	LCS	%R	Final Qualifier
10360345	10360345009	IN-HDPT40-SB3	PCB-1242 (Aroclor 1242)	53469-21-9	U										U
10360345	10360345009	IN-HDPT40-SB3	PCB-1248 (Aroclor 1248)	12672-29-6	U										U
10360345	10360345009	IN-HDPT40-SB3	PCB-1254 (Aroclor 1254)	11097-69-1	U										U
10360345	10360345009	IN-HDPT40-SB3	PCB-1260 (Aroclor 1260)	11096-82-5											
10360345	10360345009	IN-HDPT40-SB3	PCB-1262 (Aroclor 1262)	37324-23-5	U										U
10360345	10360345009	IN-HDPT40-SB3	PCB-1268 (Aroclor 1268)	11100-14-4	U										U
10360345	10360345009	IN-HDPT40-SB3	Percent Moisture												
10360345	10360345010	IN-HDPT41-SB1	PCB-1016 (Aroclor 1016)	12674-11-2	U										U
10360345	10360345010	IN-HDPT41-SB1	PCB-1221 (Aroclor 1221)	11104-28-2	U										U
10360345	10360345010	IN-HDPT41-SB1	PCB-1232 (Aroclor 1232)	11141-16-5	U										U
10360345	10360345010	IN-HDPT41-SB1	PCB-1242 (Aroclor 1242)	53469-21-9	U										U
10360345	10360345010	IN-HDPT41-SB1	PCB-1248 (Aroclor 1248)	12672-29-6	U										U
10360345	10360345010	IN-HDPT41-SB1	PCB-1254 (Aroclor 1254)	11097-69-1	U										U
10360345	10360345010	IN-HDPT41-SB1	PCB-1260 (Aroclor 1260)	11096-82-5											
10360345	10360345010	IN-HDPT41-SB1	PCB-1262 (Aroclor 1262)	37324-23-5	U										U
10360345	10360345010	IN-HDPT41-SB1	PCB-1268 (Aroclor 1268)	11100-14-4	U										U
10360345	10360345010	IN-HDPT41-SB1	Percent Moisture												
10360345	10360345011	FD1-SO	PCB-1016 (Aroclor 1016)	12674-11-2	U										U
10360345	10360345011	FD1-SO	PCB-1221 (Aroclor 1221)	11104-28-2	U										U
10360345	10360345011	FD1-SO	PCB-1232 (Aroclor 1232)	11141-16-5	U										U
10360345	10360345011	FD1-SO	PCB-1242 (Aroclor 1242)	53469-21-9	U										U
10360345	10360345011	FD1-SO	PCB-1248 (Aroclor 1248)	12672-29-6	U										U
10360345	10360345011	FD1-SO	PCB-1254 (Aroclor 1254)	11097-69-1	U										U
10360345	10360345011	FD1-SO	PCB-1260 (Aroclor 1260)	11096-82-5											
10360345	10360345011	FD1-SO	PCB-1262 (Aroclor 1262)	37324-23-5	U										U
10360345	10360345011	FD1-SO	PCB-1268 (Aroclor 1268)	11100-14-4	U										U
10360345	10360345011	FD1-SO	Percent Moisture												
10360345	10360345012	ERB1-SO	PCB-1016 (Aroclor 1016)	12674-11-2	U										U
10360345	10360345012	ERB1-SO	PCB-1221 (Aroclor 1221)	11104-28-2	U										U
10360345	10360345012	ERB1-SO	PCB-1232 (Aroclor 1232)	11141-16-5	U										U
10360345	10360345012	ERB1-SO	PCB-1242 (Aroclor 1242)	53469-21-9	U										U
10360345	10360345012	ERB1-SO	PCB-1248 (Arocl												

TABLE C2
SUMMARY OF DATA QUALIFIERS FOR SOIL SAMPLES
Data Summary Report: August 2016 PCB Soil Investigation
Former Frenchtown Mill

SDG	LabID	SampleID	Analyte	CAS Number	Lab Flag	Lab Qualifiers	HT-Temp	Temp	LD	FD	LB	FB/RB	LCS	%R	Final Qualifier
10360345	10360345017	IN-TS847-SB1	PCB-1262 (Aroclor 1262)	37324-23-5	U										U
10360345	10360345017	IN-TS847-SB1	PCB-1268 (Aroclor 1268)	11100-14-4	U										U
10360345	10360345017	IN-TS847-SB1	Percent Moisture												
10360345	10360345018	DFBI	PCB-1016 (Aroclor 1016)	12674-11-2	U										U
10360345	10360345018	DFBI	PCB-1221 (Aroclor 1221)	11104-28-2	U										U
10360345	10360345018	DFBI	PCB-1232 (Aroclor 1232)	11141-16-5	U										U
10360345	10360345018	DFBI	PCB-1242 (Aroclor 1242)	53469-21-9	U										U
10360345	10360345018	DFBI	PCB-1248 (Aroclor 1248)	12672-29-6	U										U
10360345	10360345018	DFBI	PCB-1254 (Aroclor 1254)	11097-69-1	U										U
10360345	10360345018	DFBI	PCB-1260 (Aroclor 1260)	11096-82-5	U										U
10360345	10360345018	DFBI	PCB-1262 (Aroclor 1262)	37324-23-5	U										U
10360345	10360345018	DFBI	PCB-1268 (Aroclor 1268)	11100-14-4	U										U
10360348	10360348001	IN-HDPT38-SB4	PCB-1016 (Aroclor 1016)	12674-11-2	U										U
10360348	10360348001	IN-HDPT38-SB4	PCB-1221 (Aroclor 1221)	11104-28-2	U										U
10360348	10360348001	IN-HDPT38-SB4	PCB-1232 (Aroclor 1232)	11141-16-5	U										U
10360348	10360348001	IN-HDPT38-SB4	PCB-1242 (Aroclor 1242)	53469-21-9	U										U
10360348	10360348001	IN-HDPT38-SB4	PCB-1248 (Aroclor 1248)	12672-29-6	U										U
10360348	10360348001	IN-HDPT38-SB4	PCB-1254 (Aroclor 1254)	11097-69-1	U										U
10360348	10360348001	IN-HDPT38-SB4	PCB-1260 (Aroclor 1260)	11096-82-5	J										J
10360348	10360348001	IN-HDPT38-SB4	PCB-1262 (Aroclor 1262)	37324-23-5	U										U
10360348	10360348001	IN-HDPT38-SB4	PCB-1268 (Aroclor 1268)	11100-14-4	U										U
10360348	10360348001	IN-HDPT38-SB4	Percent Moisture												
10360348	10360348002	IN-HDPT39-SB6	PCB-1016 (Aroclor 1016)	12674-11-2	U										U
10360348	10360348002	IN-HDPT39-SB6	PCB-1221 (Aroclor 1221)	11104-28-2	U										U
10360348	10360348002	IN-HDPT39-SB6	PCB-1232 (Aroclor 1232)	11141-16-5	U										U
10360348	10360348002	IN-HDPT39-SB6	PCB-1242 (Aroclor 1242)	53469-21-9	U										U
10360348	10360348002	IN-HDPT39-SB6	PCB-1248 (Aroclor 1248)	12672-29-6	U										U
10360348	10360348002	IN-HDPT39-SB6	PCB-1254 (Aroclor 1254)	11097-69-1	U										U
10360348	10360348002	IN-HDPT39-SB6	PCB-1260 (Aroclor 1260)	11096-82-5											
10360348	10360348002	IN-HDPT39-SB6	PCB-1262 (Aroclor 1262)	37324-23-5	U										U
10360348	10360348002	IN-HDPT39-SB6	PCB-1268 (Aroclor 1268)	11100-14-4	U										U
10360348	10360348002	IN-HDPT39-SB6	Percent Moisture												
10360348	10360348003	IN-HDPT40-SB4	PCB-1016 (Aroclor 1016)	12674-11-2	U										U
10360348	10360348003	IN-HDPT40-SB4	PCB-1221 (Aroclor 1221)	11104-28-2	U										U
10360348	10360348003	IN-HDPT40-SB4	PCB-1232 (Aroclor 1232)	11141-16-5	U										U
10360348	10360348003	IN-HDPT40-SB4	PCB-1242 (Aroclor 1242)	53469-21-9	U										U
10360348	10360348003	IN-HDPT40-SB4	PCB-1248 (Aroclor 1248)	12672-29-6	U										U
10360348	10360348003	IN-HDPT40-SB4	PCB-1254 (Aroclor 1254)	11097-69-1	U										U
10360348	10360348003	IN-HDPT40-SB4	PCB-1260 (Aroclor 1260)	11096-82-5											
10360348	10360348003	IN-HDPT40-SB4	PCB-1262 (Aroclor 1262)	37324-23-5	U										U
10360348	10360348003	IN-HDPT40-SB4	PCB-1268 (Aroclor 1268)	11100-14-4	U										U
10360348	10360348003	IN-HDPT40-SB4	Percent Moisture												
10360348	10360348004	IN-HDPT41-SB5	PCB-1016 (Aroclor 1016)	12674-11-2	U										U
10360348	10360348004	IN-HDPT41-SB5	PCB-1221 (Aroclor 1221)	11104-28-2	U										U
10360348	10360348004	IN-HDPT41-SB5	PCB-1232 (Aroclor 1232)	11141-16-5	U										U
10360348	10360348004	IN-HDPT41-SB5	PCB-1242 (Aroclor 1242)	53469-21-9	U										U
10360348	10360348004	IN-HDPT41-SB5	PCB-1248 (Aroclor 1248)	12672-29-6	U										U
10360348	10360348004	IN-HDPT41-SB5	PCB-1254 (Aroclor 1254)	11097-69-1	U										U
10360348	10360348004	IN-HDPT41-SB5	PCB-1260 (Aroclor 1260)	11096-82-5											
10360348	10360348004	IN-HDPT41-SB5	PCB-1262 (Aroclor 1262)	37324-23-5	U										U
10360348	10360348004	IN-HDPT41-SB5	PCB-1268 (Aroclor 1268)	11100-14-4	U										U
10360348	10360348004	IN-HDPT41-SB5	Percent Moisture												

Abbreviation:

FB - Field Blank
FD - Field Duplicate
HT - Holding time
ID - Identification number or name
LB - Laboratory Blank
LCS - Laboratory Control Sample
LD - Laboratory Duplicate
RB - Rinsate Blank
SDG - Sample Delivery Group
%R - Percent Recovery (laboratory Matrix Spike sample)

Lab Flag:

U - Concentration is below the reporting limit. Reporting limit shown.