SOIL BOR LOGS
Amtrak Former Fueling Facility
Wilmington, DE

Sample Name: EDT-4W-8A, EDT-4W-8B(0.5'-3.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: EDT-4W-9		**Drilling Method:** Hand Auger
Sample Date: 10/5/06		**Geologist(s):** Jamey Charter
Boring Diameter: 1.5"		**Gray Clay Depth:** Not encountered
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Sand	Dark brown to black silty sand, some small gravel and little roots with other organics, dry.
0.5'-2.0'	Clay	Dark brown to black silty sand, some small gravel and little roots with other organics, dry. More roots than above.
2.0'-2.5'	Clay	Sandy clay layer, gray in color, medium moisture content, no recognizable odor. GW at 2 1/2'
2.5'-5.0'	Sand w/fill	Sand with some clay and little silt, dark to black in color, much small gravel, super saturated and an odor at 4.0'. Glass present at 5.0'
		Refusal on rock or metal
Sample Name: EDT-4W-9A, EDT-4W-9B(0.5'-3.5'), EDT-4W-9B(3.5'-5.0')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: EDT-4W-10		**Drilling Method:** Hand Auger
Sample Date: 10/4/06		**Geologist(s):** John Burchette
Boring Diameter: 1.5"		**Gray Clay Depth:** 9.0'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Silt	Dark brown sandy silt. Dry some roots and trace angular gravel. No staining and no odor.
0.5'-3.5'	Silt	Black silt with some gravel. Trace coal and glass. No staining and no odor, GW at 3.5'.
3.5'-9.0'	Silt	Black silt with some gravel. Trace coal and glass. Noticeable staining and odor at 3.5'.
9.0'	Clay	Gray clay layer
Sample Name: EDT-4W-10A, EDT-4W-10B(0.5'-3.5'), EDT-4W-10B(3.5'-6.5'), EDT-4W-10B(6.5'-9.0')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: EDT-4W-11		**Drilling Method:** Hand Auger
Sample Date: 10/4/06		**Geologist(s):** Jamey Charter
Boring Diameter: 1.5"		**Gray Clay Depth:** 9.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-1.0'	Silt	Dark brown sandy silt, low moisture content, mostly dry. Some roots and trace small angular gravel.
1.0'-1.5'	Clay	Dense gray clay layer hard, not much moisture.
1.5'-3.5'	Sand w/fill	Dry silty sand almost black must be fill because there is glass and coal present.
3.5'-6.5'	Gravel	Small to large angular gravel with sand, black, supersaturated. Sample looks like it is stained but there is no odor until we reach 6.25'
6.5'-9.5'	Gravel	Small to large gravel with trace clays and sands, black in color with a sheen, strong odor and staining.
9.5'	Clay	Gray clay layer
Sample Name: EDT-4W-11A, EDT-4W-11B(0.5'-3.5'), EDT-4W-11B(3.5'-6.5'), EDT-4W-11B(6.5'-9.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: EDT-4W-12	**Drilling Method:** Hand Auger

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Sample Date: 10/4/06		**Geologist(s):** Jamey Charter
Boring Diameter: 1.5"		**Gray Clay Depth:** 7.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Silt	Dry, dark brown silty sand with some coal and little roots. Trace angular gravel but mainly all chunks are coal. No odor or staining.
0.5'-3.5'	Sand w/fill	Dry silty sand becomes darker to almost black with 30% coal in small pieces. Trace roots and gravel. No odor, but appears to be fill and slightly stained.
1.5'-3.5'	Sand w/fill	Dry silty sand almost black must be fill because there is glass and coal present.
3.5'-6.5'	Gravel	Coarse to fine gravel with some sand. Black in color. Supersaturated. Slight sheen in water, no definite odor
6.5'-7.5'	Gravel	Coarse to fine gravel with some sand. Jet black in color. Supersaturated. Odor and staining.
9.5'	Clay	Gray clay layer
Sample Name: EDT-4W-12A, EDT-4W-12B(0.5'-3.5'), EDT-4W-12B(3.5'-6.5'), EDT-4W-12B(6.5'-7.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: EDT-4W-13		**Drilling Method:** Hand Auger
Sample Date: 9/26/06		**Geologist(s):** Jamey Charter
Boring Diameter: 1.5"		**Gray Clay Depth:** 9.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Silt	Light brown silt with trace sand and trace fine gravel. Some organics (roots) and trace coal fragments. No odor and no staining.
0.5'-3.5'	Silt w/fill	Dark brown silt with trace sand and some fine to medium gravel. Trace organics and coal frags. No odor and no staining.
3.5'-6.5'	Sand	Dark brown to black coarse sand with rock fragments and silt. No staining no odor. GW at 6.0'
6.5'-9.5'	Sand	Black with some brown very coarse sand and gravel with coal. Angular poorly sorted odor, but no noticeable staining.
Sample Name: EDT-4W-13A, EDT-4W-13B(0.5'-3.5'), EDT-4W-13B(3.5'-6.5'), EDT-4W-13B(6.5'-9.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: EDT-4W-14		**Drilling Method:** Hand Auger
Sample Date: 10/5/06		**Geologist(s):** Jamey Charter
Boring Diameter: 1.5"		**Gray Clay Depth:** 5.0'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Sand	Dark brown silty sand with little poorly sorted gravel and little roots
0.5'-3.0'	Sand	Silty sand, black in color, some coal, and little garbage. Dry no odor or staining. GW at 3.0'.
3.0'-5.0'	Sand	Silty sand, with gravel. Black in color. Supersaturated looks to be stained but no odor. Refusal
Sample Name: EDT-4W-14A, EDT-4W-14B(0.5'-3.5'), EDT-4W-14B(3.5'-5.0')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: EDT-4W-15		**Drilling Method:** Hand Auger
Sample Date: 10/6/06		**Geologist(s):** John Burchette
Boring Diameter: 1.5"		**Gray Clay Depth:** Not encountered
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Sand	Dark brown silty sand. Some roots and trace angular poorly sorted gravel. Somewhat dry. No odor and no staining
0.5'-4.0'	Sand w/fill	Light to dark brown silty sand with poorly sorted angular gravel. Some coal present. No odor or staining.
4.0'-6.0'	Sand	Black silty sand and angular poorly sorted gravel. GW at 5.5'. Refusal at 6.5'

Sample Name: EDT-4W-15A, EDT-4W-15B(0.5'-3.5'), EDT-4W-15B(3.5'-6.5')	
Analysis: PCB'S, TPH-DRO	
Comments:	

SOIL BORING ID: EDT-4W-16		**Drilling Method:** Hand Auger
Sample Date: 10/5/06		**Geologist(s):** John Burchette
Boring Diameter: 1.5"		**Gray Clay Depth:** Not encountered
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Sand	Dark brown to black silty sand. Some angular poorly sorted gravel. Dry, no odor or staining.
0.5'-3.5'	Sand w/fill	Black silty sand with some gravel (angular and poorly sorted). Moist. GW at 2.5'. No odor or staining. Glass and coal noticed.
3.5'-5.0'	Sand	Black silty sand and angular poorly sorted gravel. No staining, slight odor. Refusal at 5.0' possibly rock.

Sample Name: EDT-4W-16A, EDT-4W-16B(0.5'-3.5'), EDT-4W-16B(3.5'-5.0')	
Analysis: PCB'S, TPH-DRO	
Comments:	

SOIL BORING ID: EDT-4W-17		**Drilling Method:** Hand Auger
Sample Date: 10/5/06		**Geologist(s):** John Burchette
Boring Diameter: 1.5"		**Gray Clay Depth:** Not encountered
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Sand	Silty sand, dark brown in color. Some angular poorly sorted gravel. Trace organics. No staining and no odor
0.5'-1.5'	Sand	Dark brown to black sand and angular poorly sorted gravel with some clay.
1.5'-4.16'	Sand w/fill	Dark brown to black sand and angular poorly sorted gravel with some clay. GW at 2.5'. Brick and glass present. No staining and no odor.
4.16'-7.0'	Sand w/fill	Dark brown to black sand and angular poorly sorted gravel with some clay. GW at 2.5'. Brick and glass present. Noticeable staining and odor. Refusal

Sample Name: EDT-4W-17A, EDT-4W-17B(0.5'-3.5'), EDT-4W-17B(3.5'-7.0')	
Analysis: PCB'S, TPH-DRO	
Comments:	

SOIL BORING ID: EDT-4W-18		**Drilling Method:** Hand Auger
Sample Date: 10/5/06		**Geologist(s):** Jamey Charter
Boring Diameter: 1.5"		**Gray Clay Depth:** 8.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Sand	Silty sand, dark in color, some gravel, little roots, dry.
0.5'-3.0'	Sand	Dark sand and gravel with little clay. Dry appears to be tough fill material. GW at 3.0'.
3.0'-5.5'	Sand	Sand and gravel, dark to black in color, supersaturated.
5.5'-8.5'	Sand	Sand and gravel, dark to black in color, supersaturated. Heavy odor and staining.

Sample Name: EDT-4W-18A, EDT-4W-18B(0.5'-3.5'), EDT-4W-18B(3.5'-6.5'), EDT-4W-18B(6.5'-8.5')	
Analysis: PCB'S, TPH-DRO	
Comments:	

SOIL BORING ID: EDT-4W-19	**Drilling Method:** Hand Auger
Sample Date: 10/5/06	**Geologist(s):** John Burchette
Boring Diameter: 1.5"	**Gray Clay Depth:** Not encountered

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Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Dark brown sandy silt. Dry. Some organics and some angular gravel. No odor and no staining.
0.5'-2.5'	Sand w/fill	Black sand with gravel. Glass and coal present. Trace organics with little angular gravel. Refusal at 2.5'. Possibly a thick fill.

Sample Name: EDT-4W-19A, EDT-4W-19B(0.5'-2.5')
Analysis: Not analyzed
Comments:

SOIL BORING ID: EDT-4W-20
Sample Date: 9/26/06
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): John Burchette
Gray Clay Depth: 9.5'

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt w/fill	Light brown silt with trace sand and trace fine gravel. Some organics (roots) and trace coal frags. No odor and no staining.
0.5'-3.5'	Sand w/fill	Dark brown silt with trace sand and some fine to medium gravel. Trace organics and some coal fragment. No odor and no staining.
3.5'-6.5'	Sand	Dark brown to black coarse sand with trace rock fragments and silt no odor and no staining. GW at 6.0'.
6.5'-9.5'	Sand	Black sand with some brown . Very coarse sand and gravel. Angular and poorly sorted. Trace silt. Odor and some staining noticed around 7.5' gray clay at 9.5'

Sample Name: EDT-4W-20A, EDT-4W-20B(0.5'-3.5'), EDT-4W-20B(3.5'-6.5'), EDT-4W-20B(6.5'-9.5')
Analysis: Not analyzed
Comments:

SOIL BORING ID: EDT-4W-21
Sample Date: 10/6/06
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Jamey Charter
Gray Clay Depth: 10.0'

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Sand	Dark brown to black silty sand, with little poorly sorted gravel and little roots. Dry, no odor or staining.
0.5'-6.0'	Sand	Silty sand with gravel, black in color. Very moist, looks to be stained but no odor. GW at 3.0' Saturated below 3.0'.
6.0'-10.0'	Sand	Gray to black sand and gravel and little clay, supersaturated after 6.0'. Noticeable odor and staining

Sample Name: EDT-4W-21A, EDT-4W-21B(0.5'-3.5'), EDT-4W-21B(3.5'-6.5'), EDT-4W-21B(6.5-10.0')
Analysis: Not analyzed
Comments:

SOIL BORING ID: EDT-4W-22
Sample Date: 10/6/06
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Jamey Charter
Gray Clay Depth: 10.5'

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Sand	Dark brown silty sand. Some roots and trace stones. Dry, no odor or staining.
0.5'-4.0'	Sand w/fill	Light to dark brown silty sand with poorly sorted gravel. Much garbage definitely a fill of some kind. Dry, no odor or staining.
4.0'-6.0'	Sand	Black silty sand with gravel. Supersaturated. Looks to be stained, but only a slight odor.
6.0'-10.5'	Sand	Black silty sand with gravel. Supersaturated. Definite staining, sheen, and strong odor.

Sample Name: EDT-4W-22A, EDT-4W-22B(0.5'-3.5'), EDT-4W-22B(3.5'-6.5'), EDT-4W-22B(6.5-10.5')

Analysis: Not analyzed	
Comments:	

SOIL BORING ID: EDT-4W-23		**Drilling Method:** Hand Auger
Sample Date: 12/15/06		**Geologist(s):** John Burchette
Boring Diameter: 1.5"		**Gray Clay Depth:** 3.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Clay	Brown black silty clay with little sand and little organics. No odor and no noticeable staining.
0.5'-3.5'	Silt	Black silt with some rock fragments (angular and poorly osrted). Definite odor and staining.
Sample Name: EDT-4W-23A, EDT-4W-23B(0.5'-3.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: EDT-4W-24		**Drilling Method:** Hand Auger
Sample Date: 12/14/06		**Geologist(s):** John Burchette
Boring Diameter: 1.5"		**Gray Clay Depth:** 6.75'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Clay	Black silty clay with little sand and some organics (roots). No odor and no staining.
0.5'-3.5'	Silt	Brown black silt with little organics and rock fragments (poorly sorted and angular). Slight odor with no staining.
3.5'-6.5'	Sand	Black silty sand with trace clay. Some rock fragments (angular and poorly sorted). Strong odor and definite staining. GW at 4.0'
Sample Name: EDT-4W-24A, EDT-4W-24B(0.5'-3.5'), EDT-4W-24B(3.5'-6.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: EDT-4W-25		**Drilling Method:** Hand Auger
Sample Date: 12/14/06		**Geologist(s):** John Burchette
Boring Diameter: 1.5"		**Gray Clay Depth:** 6.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Clay	Black silty clay with some sand and some organics (roots). No odor and no staining.
0.5'-3.5'	Silt w/fill	Black silt with some sand. Trace angular poorly sorted rock fragments. Trace pieces of scrap metal. No noticeable staining or odor. GW at 3.5'-4.0'.
3.5'-6.5'	Silt	Black silt with little sand. Some angular poorly sorted gravel. Noticeable staining and odor.
Sample Name: EDT-4W-25A, EDT-4W-25B(0.5'-3.5'), EDT-4W-25B(3.5'-6.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: EDT-4W-26		**Drilling Method:** Hand Auger
Sample Date: 12/14/06		**Geologist(s):** John Burchette
Boring Diameter: 1.5"		**Gray Clay Depth:** 6.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Clay	Black silt with some sand. Trace organics (roots) and rock fragments (angular poorly sorted). No odor with possible staining.

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0.5'-3.5'	Silt w/fill	Black silt with little sand and some rock fragments (angular and poorly sorted). Trace coal fragments. No odor, but possible staining.
3.5'-6.5'	Silt	Black silt with little sand. Some angular poorly sorted gravel. Noticeable staining and odor.

Sample Name: EDT-4W-26A, EDT-4W-26B(0.5'-3.5'), EDT-4W-26B(3.5'-6.5')
Analysis: PCB'S, TPH-DRO
Comments:

SOIL BORING ID: EDT-4W-27		**Drilling Method:** Hand Auger
Sample Date: 12/15/06		**Geologist(s):** John Burchette
Boring Diameter: 1.5"		**Gray Clay Depth:** 7.0'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Clay	Brown black silty clay with little sand and some organics (roots). No odor and no staining.
0.5'-3.5'	Silt w/fill	Brown black silt with trace organics and some rock fragments (angular and poorly sorted). Trace coal fragments. No odor and possible staining.
3.5'-6.5'	Sand	Black silty sand with trace clay. Some poorly sorted angular rock fragments. Odor and staining. GW at 4.5'

Sample Name: EDT-4W-27A, EDT-4W-27B(0.5'-3.5'), EDT-4W-27B(3.5'-6.5')
Analysis: PCB'S, TPH-DRO
Comments:

SOIL BORING ID: EDT-4W-28		**Drilling Method:** Hand Auger
Sample Date: 1/16/07		**Geologist(s):** John Burchette
Boring Diameter: 1.5"		**Gray Clay Depth:** 3.75'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Silt	Brown silt with trace sand and organics. Trace poorly sorted angular gravel. No odor and no staining.
0.5'-3.5'	Silt	Brown silt with some sand. Trace gravel (angular and poorly sorted) trace organics. No odor and no and no noticeable staining. GW at 3.0'

Sample Name: EDT-4W-28A, EDT-4W-28B(0.5'-3.5')
Analysis: PCB'S, TPH-DRO
Comments: SECOR 2(Dup of EDT-4W-28A) and SECOR 3(Dup of EDT-4W-28B(0.5'-3.5')

Drainage Ditch North [illegible]ern Drainage Ditch
Bank Soil Sample Results

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SOIL BORING ID: NED-13E-1		Drilling Method: Hand Auger
Sample Date: 5/9/06		Geologist(s): Jamey Charter
Boring Diameter: 1.5"		Gray Clay Depth: 2.5'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Peat	Saturated peat soil with some clay. Brown to dark brown. Much organic material including roots and trace plastic scraps. Groundwater at 0.25'. Slight petroleum odor
0.5'-2.0'	Peat	Soil is supersaturated and dark. There is trouble keeping the core in the bucket. The hole needed to be offset multiple times in order to gather the volume.
2.0'-2.5'	Peat	Dark brown layer that has been above clay layer in the past. Heavy petroleum odor and staining.
Sample Name: NED-13E-1A, NED-13E-1B(0.5'-3.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: NED-13W-1		Drilling Method: Hand Auger
Sample Date: 5/11/06		Geologist(s): Jamey Charter
Boring Diameter: 1.5"		Gray Clay Depth: 3.5'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Clay	Sandy clay - Dark brown and gray. Small to medium grains, some roots, dark soil, but most likely from organics and not from oil pollutants. No odor on waters edge.
		Some grab samples are hitting refusal at 0.5' on fill on rising bank, but at elevation close to water, bucket slides through.
0.5'-3.5'	Clay	Sandy clay - saturated with some gravel - black in color with staining and heavy odor.
Sample Name: NED-13W-1A, NED-13W-1B(0.5'-3.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: NED-13E-2		Drilling Method: Hand Auger
Sample Date: 7/13/06		Geologist(s): John Burchette
Boring Diameter: 1.5"		Gray Clay Depth: 3.0'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Clayey silt with trace sand, trace organics and trace medium gravel. Moist, no staining and no odor.
0.5'-3.0'	Clay	Brown to dark silty clay, moist and darker at 9.0'. No staining or odor. Groundwater at 1.5'. Some organics, primarily roots.
Sample Name: NED-13E-2A, NED-13E-2B(0.5'-3.0')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: NED-13W-2		Drilling Method: Hand Auger
Sample Date: 7/13/06		Geologist(s): John Burchette
Boring Diameter: 1.5"		Gray Clay Depth: 3.166'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Brown silt with trace clay little gravel, little organics, trace plastic and glass. Moist with no odor or staining.
0.5'-1.5'	Silt	Dark brown to black silt and gravel, trace organics. No noticeable odor or staining.
1.5'-3.0'	Silt	Dark brown to black silt and gravel. Odor and staining. Groundwater at 3.0'.
3.0'-3.5'	Silt	Dark brown to black silt and gravel. Odor and staining.
Sample Name: NED-13W-2A, NED-13W-2B(0.5'-3.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

Drainage Ditch North ... stern Drainage Ditch
Bank Soil Sample Results

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SOIL BORING ID: NED-13E-3		**Drilling Method:** Hand Auger
Sample Date: 9/27/06		**Geologist(s):** John Burchette
Boring Diameter: 1.5"		**Gray Clay Depth:** 2.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-1.0'	Silt	Light brown silt with little clay and little sand. Some organics and little angular poorly sorted rock fragments.
0.5'-2.5'	Clay	Brown gray to dark brown tightly packed silty clay.
Sample Name: NED-13E-3A, NED-13E-3B(0.5'-2.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: NED-13E-4		**Drilling Method:** Hand Auger
Sample Date: 9/27/06		**Geologist(s):** John Burchette
Boring Diameter: 1.5"		**Gray Clay Depth:** 2.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-1.0'	Silt	Light brown silt with little clay and little sand. Some organics present.
1.0'-2.5'	Clay	Brown gray to dark brown tightly packed silty clay. Groundwater at 1.5'.
Sample Name: NED-13E-4A, NED-13E-4B(0.5'-2.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: NED-14E-1		**Drilling Method:** Hand Auger
Sample Date: 5/11/06		**Geologist(s):** Jamey Charter
Boring Diameter: 1.5"		**Gray Clay Depth:** 7.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Silt	Silty mud - saturated brown, gray, black with little clay, 30% roots from phragmites, slight sheen.
0.5'-2.5'	Silt	Dark silty mud - saturated - almost all fallout from bucket. Trace fine sands are present.
2.5'-3.5'	Silt	Dark black silty mud. Trace fine sands are present. Not as much water as the above layer. Heavy odor and staining.
3.5'-7.5'	Silt	Black silty mud, supersaturated with some sand. Bucket can not retrieve this layer due to high water content.
Sample Name: NED-14E-1A, NED-14E-1B(0.5'-3.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: NED-14W-1		**Drilling Method:** Hand Auger
Sample Date: 5/11/06		**Geologist(s):** Jamey Charter
Boring Diameter: 1.5"		**Gray Clay Depth:** 5.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Silt	Silty mud - saturated brown, gray, black, little clay - 30% roots from phragmites.
0.5'-1.5'	Silt	Changes to black clay, silt - high water concentration. Some fallout from bucket. Heavy odor and staining.
1.5'-3.5'	Silt	Same matrix except trace sands and soil becomes slightly more cohesive - easier recovery.
3.5'-5.5'	Clay	Jet black sandy clay - highly contaminated and odorous - becomes more clay as we approach the gray clay layer.
Sample Name: NED-14W-1A, NED-14W-1B(0.5'-3.5'), NED-14W-1B(3.5'-5.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

Drainage Ditch North ..stern Drainage Ditch
Bank Soil Sample Results

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SOIL BORING ID: NED-14E-2		Drilling Method: Hand Auger
Sample Date: 6/22/06		Geologist(s): Jamey Charter
Boring Diameter: 1.5"		Gray Clay Depth: 1.5'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Sandy silt, with trace clays brown to dark brown in color. Slightly moist. Little roots with no odor and no staining.
0.5'-1.5'	Clay	Silty clay with trace sands. Brown to gray in color. More moist than first 6".
Sample Name: NED-14E-2A, NED-14E-2B(0.5'-1.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: NED-14W-2		Drilling Method: Hand Auger
Sample Date: 6/22/06		Geologist(s): John Burchette
Boring Diameter: 1.5"		Gray Clay Depth: 2.0'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Brown to dark brown silt with trace sand and clay. Some organics. No odor and no staining. Moist.
0.5'-2.0'	Silt	Brown to dark brown silt with some sand, trace clay and trace gravel. Goundwater at 1.0'. No staining and no odor.
Sample Name: NED-14W-2A, NED-14W-2B(0.5'-2.0')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: NED-15E-1		Drilling Method: Hand Auger
Sample Date: 6/22/06		Geologist(s): John Burchette
Boring Diameter: 1.5"		Gray Clay Depth: 3.5'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Organics	Organics at various stages of decomposition with little silt. Groundwater at 1". No staining and no noticeable odor.
0.5'-3.5'	Silt	Gray brown silt with trace clay. Fallout from 0.5' to 2.0' because of saturation. Staining and odor. Some organics.
Sample Name: NED-15E-1A, NED-15E-1B(0.5'-3.5')		
Analysis: PCB'S, TPH-DRO		
Comments:		

SOIL BORING ID: NED-15W-1		Drilling Method: Hand Auger
Sample Date: 6/21/06		Geologist(s): Jamey Charter
Boring Diameter: 1.5"		Gray Clay Depth: 4.0'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Silty mud and roots, dark in color. Almost black. Groundwater at 0.25'.
0.5'-4.0'	Clay	Silty clay that is supersaturated. Dark gray in color, little angular gravel. No apparent odor or staining.
Sample Name: NED-15W-1A, NED-15W-1B(0.5'-4.0')		
Analysis: PCB'S, TPH-DRO		
Comments:		

Western D[illegible]e Ditch
Soil Boring Logs

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SOIL BORING ID: WDT-1E		**Drilling Method:** Hand Auger
Sample Date: 6/1/05		**Geologist(s):** Sergio Morescalchi
Boring Diameter: 1.5"		**Gray Clay Depth:** Not encountered
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-1.0'	Silt/Sand	Fine silt and sand; little medium to coarse sand; little organic matter (roots); brown; dry.
1.0'-2.0'	Sand	Sand fine to coarse; little silt; trace fine gravel; brown; moist.

Sample Name: WDT-1E
Analysis: PCB'S, TPH-DRO
Comments: Refusal at 2.0' at 3 locations

SOIL BORING ID: WDT-1W		**Drilling Method:** Hand Auger
Sample Date: 6/1/05		**Geologist(s):** Sergio Morescalchi
Boring Diameter: 1.5"		**Gray Clay Depth:** 4.0'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Silt	Silt with significant roots, plant debris, brown, moist, slightly clayey, slight plasticity. Groundwater at 0.5'
0.5'-4.0'	Clay	Silty clay, saturated, slight plasticity, petroleum odor, gray to black and soft.

Sample Name: WDT-1W
Analysis: PCB'S, TPH-DRO
Comments:

SOIL BORING ID: WDT-1E-1		**Drilling Method:** Hand Auger
Sample Date: 4/20/06		**Geologist(s):** Jim Miller
Boring Diameter: 1.5"		**Gray Clay Depth:** Not encountered
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Silt	Silt, brown, dry with some roots, no staining no odor.
0.5'-2.5'	Silt	Same as above, but more moist and with ballast gravel 1/4" on edge and angular.
2.5'	Gravel	Gravel ballast up to 1 1/2" on edge. Keeps caving into bottom of hole such that hand auger will not advance further. No staining and no odor.

Sample Name: WDT-1E-1A, WDT-1E-1B(0.5'-2.5')
Analysis: PCB'S, TPH-DRO
Comments:

SOIL BORING ID: WDT-1W-1		**Drilling Method:** Hand Auger
Sample Date: 4/21/06		**Geologist(s):** Jim Miller
Boring Diameter: 1.5"		**Gray Clay Depth:** 6.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Silt	Clayey silt, brown and moist, with roots, peaty. Groundwater at 0.5'
0.5'-6.5'	Silt	Saturated and jet black, clayey silt, petroleum odor.
6.5'-7.0'	Clay	Gray Clay

Sample Name: WDT-1W-1A, WDT-1W-1B(0.5'-3.5'), WDT-1W-1B(3.5'-6.5')
Analysis: PCB'S, TPH-DRO
Comments:

Western Di[illegible]ge Ditch
Soil Boring Logs

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SOIL BORING ID: WDT-1E-2		Drilling Method: Hand Auger
Sample Date: 4/21/06		Geologist(s): Jim Miller
Boring Diameter: 1.5"		Gray Clay Depth: Not encountered
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Silt, brown, dry, with some roots, no staining and no odor.
0.5'-1.5'	Silt	Fine grained ballast 1/4" on edge max. Hand auger refusal on hard ballast and or concrete layer at 1.5'

Sample Name: Not sampled
Analysis: None
Comments:

SOIL BORING ID: WDT-2E		Drilling Method: Hand Auger
Sample Date: 5/19/05		Geologist(s): Sergio Morescalchi
Boring Diameter: 1.5"		Gray Clay Depth: 0.5'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.4167'	Silt	Silt; some fine sand; Little medium to coarse sand; little clay; brown; dry.
0.4167'-0.5'	Clay	Clay; little silt; little fine sand; brown to black and dry.

Sample Name: WDT-2E
Analysis: PCB'S, TPH-DRO, EPH/VPH
Comments:

SOIL BORING ID: WDT-2W		Drilling Method: Hand Auger
Sample Date: 5/19/05		Geologist(s): Sergio Morescalchi
Boring Diameter: 1.5"		Gray Clay Depth: 0.5'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.333'	Clay	Clay; little silt; little fine to medium sand; little organic matter (roots); brown and moist.
0.333'-0.5'	Clay	Clay; trace silt

Sample Name: WDT-2E
Analysis: PCB'S, TPH-DRO, EPH/VPH
Comments:

SOIL BORING ID: WDT-3E		Drilling Method: Hand Auger
Sample Date: 6/1/05		Geologist(s): Sergio Morescalchi
Boring Diameter: 1.5"		Gray Clay Depth: 0.8333'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.25'	Clay	Clay; some silt; little fine sand; little organic matter (roots); dark brown; dry.
0.25'-0.833'	Clay	Clay; little sand; trace fine sand; gray and brown; moist.

Sample Name: WDT-3E
Analysis: PCB'S, TPH-DRO, EPH/VPH
Comments:

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SOIL BORING ID: WDT-3W
Sample Date: 6/1/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Jim Miller
Gray Clay Depth: 3.75'

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Brown clayey silt, moist, roots present.
0.5'-1.0'	Silt	Red clayey silt, slight plasticity. Groundwater at 1.0'.
1.0'-3.75'	Sand, Gravel, Fill	Fill, red, significant glass and wood debris, matrix is sand and gravel mix.

Sample Name: WDT-3W
Analysis: PCB'S, TPH-DRO
Comments:

SOIL BORING ID: WDT-4E
Sample Date: 5/26/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Sergio Morescalchi
Gray Clay Depth: 1.0'

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Silt; some organic matter (roots); little fine sand; little clay; black; dry.
0.5'-1.0'	Silt	Silt; some fine to coarse sand; little clay; black; moist.

Sample Name: WDT-4E
Analysis: PCB'S, TPH-DRO
Comments: 3.0' to ditch

SOIL BORING ID: WDT-4W
Sample Date: 5/26/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Jim Miller
Gray Clay Depth: 4.0'

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-1.0'	Clay/Fill	Dark brown silty clay, moist, glass, some black staining 0-1.0'.
1.0'-4.0'	Sand/Fill	1/8" angular brick fragments and medium sand. Significant void space.

Sample Name: WDT-4W
Analysis: PCB'S, TPH-DRO
Comments: 4.0' to West

SOIL BORING ID: WDT-5E
Sample Date: 5/26/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Sergio Morescalchi
Gray Clay Depth: 2.75'

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Silt; little fine to coarse sand; little clay; black; dry.
0.5'-1.1667'	Silt	Same as above, but moist.
1.1667'-2.75'	Sand	Sand; coarse; some fine to medium sand; trace fine gravel; black; wet.

Sample Name: WDT-5E
Analysis: PCB'S, TPH-DRO
Comments: 3.0' to Ditch

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SOIL BORING ID: WDT-5W
Sample Date: 5/26/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Jim Miller
Gray Clay Depth: 2.5'

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-1.0'	Silt/Fill	Clayey silt, brown, moist, roots present, low plasticity, glass bottles.
1.0'-2.5'	Silt/Fill	Same as above, but saturated, with inclusions of angular gravel (1/8").

Sample Name: WDT-5W
Analysis: PCB'S, TPH-DRO
Comments: 3.0' to West

SOIL BORING ID: WDT-6E
Sample Date: 5/23/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Sergio Morescalchi
Gray Clay Depth: 0.25'

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.25'	Silt	Silt; little clay; little fine to medium sand; trace coarse sand; little organic matter (roots); black; dry; clay; little silt; brown and gray; dry at 0.25'.

Sample Name: WDT-6E
Analysis: PCB'S, TPH-DRO
Comments: 3.0' to water

SOIL BORING ID: WDT-6W
Sample Date: 5/23/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Jim Miller
Gray Clay Depth: 0.5'

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Clay	Clay, medium plasticity, moist, brown with some gray, roots present, sticky.

Sample Name: WDT-6W
Analysis: PCB'S, TPH-DRO
Comments: 3.0' to W

SOIL BORING ID: WDT-7E
Sample Date: 5/23/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Sergio Morescalchi
Gray Clay Depth: Not encountered.

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Clay/Silt	Clay and silt; little fine to medium sand; little organic matter (roots); little glass; brown; moist.
0.5'-3.5'	Sand	Fine gravel, sand is fine to coarse; black; odor.

Sample Name: WDT-7E
Analysis: PCB'S, TPH-DRO
Comments: Refusal at 3.5' at 2 locations

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SOIL BORING ID: WDT-7W		Drilling Method: Hand Auger
Sample Date: 5/23/05		Geologist(s): Jim Miller
Boring Diameter: 1.5"		Gray Clay Depth: 1.0'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Clayey silt; moist; dark brown; slight plasticity; roots and glass present.
0.5'-1.0'	Sand	Fine gravel, sand is fine to coarse; black; odor.

Sample Name: WDT-7E
Analysis: PCB'S, TPH-DRO
Comments: Refusal at 3.5' at 2 locations

SOIL BORING ID: WDT-8E		Drilling Method: Hand Auger
Sample Date: 5/19/05		Geologist(s): Sergio Morescalchi
Boring Diameter: 1.5"		Gray Clay Depth: Not encountered
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-1.0'	Silt	Silt; little clay; little fine to coarse sand; little organic matter (roots); brown; dry; moist at bottom.
1.0'-2.0'	Sand	Sand; fine to coarse; little silt; black; noticeable odor.
2.0'-3.0'	Sand	Sand; coarse; some medium to coarse sand; trace fine gravel; black; odor.

Sample Name: WDT-8E
Analysis: PCB'S, TPH-DRO, EPH/VPH
Comments: Refusal at 3.0' in 2 different locations.

SOIL BORING ID: WDT-8W		Drilling Method: Hand Auger
Sample Date: 5/19/05		Geologist(s): Sergio Morescalchi
Boring Diameter: 1.5"		Gray Clay Depth: 3.0'
Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Clay	Clay; some silt; little fine to coarse sand, trace organic matter (roots); brown; dry.
0.5'-3.0'	Clay	Same as above, but moist at 0.5' and wet 1.0'-3.0'.

Sample Name: WDT-8W
Analysis: PCB'S, TPH-DRO
Comments:

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Soil Boring Logs

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SOIL BORING ID: CAT-1E
Sample Date: 5/31/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Sergio Morescalchi
Gray Clay Depth: 4.0'

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Silt with trace fine sand. Some organic matter (roots). Black and wet.
0.5'-1.0'	Silt	Silt with trace sand. Little organic matter (roots). Black and wet.
1.0'-3.0'	Silt	Silt, little clay, little fine sand, black and wet.
3.0'-4.0'	Silt	Silt with some fine to medium sand; little clay; slight petroleum odor. Wet clay at 4.0'; some silt; dark gray and black, wet.

Sample Name: CAT-1E
Analysis: PCB'S, TPH-DRO, EPH/VPH
Comments: Location moved 5' N and 7' E due to rip-rap

SOIL BORING ID: CAT-1E-1
Sample Date: 4/21/06
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Jim Miller
Gray Clay Depth: 6.5'

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Silt, tan, dry, trace 1/4" to 1/2" angular gravel, no odor or staining.
0.5'-1.5'	Silt	Silt, reddish brown, moist and very hard, little clay, non-plastic, no odor or staining. Piece of old wire at 1.5'.
2.0'-3.0'	Clay	Material change to jet black moist, clayey silt. At 3.0' the cutting are saturated.
3.0'-3.5'	Clay	Same saturated silty clay with petroleum odor at the base of the sampler.
5.0'-6.5'	Silt	Clayey silt, black and saturated with petroleum odor.
6.5'	Silt	Very clayey silt, black, petroleum odor, turning gray, but not fat clay yet.

Sample Name: CAT-1E-1A, CAT-1E-1B(0.5'-3.5'), CAT-1E-1B(3.5'-6.5')
Analysis: PCB'S, TPH-DRO
Comments:

SOIL BORING ID: CAT-1W
Sample Date: 5/31/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Sergio Morescalchi
Gray Clay Depth: Not encountered

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Silt with little fine sand; little organic matter (roots); Brown and moist.

Sample Name: CAT-1W
Analysis: PCB'S, TPH-DRO
Comments: Refusal at 6" at 2 locations. Moved locations 3.0'N and 4.0'W due to rip-rap.

SOIL BORING ID: CAT-1W-1
Sample Date: 5/17/06
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Jamey Charter
Gray Clay Depth: Not encountered

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Sandy silt with 50% angular gravel - gravel 1/2" to 1 1/2" diameter. Soil is brown with very little moisture content. Little roots and other organic matter. No odor or staining.

Sample Name: CAT-1W-1A
Analysis: PCB'S, TPH-DRO
Comments: Bank created on side of ditch looks to be man made using small stones as an embankment. Auger didn't want to penetrate down 0.5'.

Conflu... Area
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SOIL BORING ID: CAT-2E
Sample Date: 5/31/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Sergio Morescalchi
Gray Clay Depth: Not encountered

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Clay	Clay; some silt; little organic matter (roots); little fine sand; brown and moist.
0.5'-1.0'	Clay	Same as above with trace organic matter (roots); some fine sand.
1.0'-1.1667'	Sand	Fine sand; black; wet.

Sample Name: CAT-2E
Analysis: PCB'S, TPH-DRO
Comments: Refusal at 3 locations at 1.0'-1'2".

SOIL BORING ID: CAT-2W
Sample Date: 5/31/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Sergio Morescalchi
Gray Clay Depth: Not encountered

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.4167'	Silt	Silt with little sand and little organic matter (roots); brown and dry.

Sample Name: CAT-2W
Analysis: PCB'S, TPH-DRO
Comments: Refusal at 2 locations at 0.4167'

SOIL BORING ID: CAT-3E
Sample Date: 5/31/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Sergio Morescalchi
Gray Clay Depth: Not encountered

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Sand	Fine sand with little silt; little lose sand; trace fine gravel; brown and moist.

Sample Name: CAT-3E
Analysis: PCB'S, TPH-DRO
Comments: Refusal at 3 locations at 0.5'

SOIL BORING ID: CAT-3W
Sample Date: 5/31/05
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Sergio Morescalchi
Gray Clay Depth: Not encountered

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.333'	Clay	Clay; some silt; little fine sand; little organic matter (roots); brown; moist.

Sample Name: CAT-3W
Analysis: PCB'S, TPH-DRO, EPH/VPH
Comments: Refusal at 2 locations at 0.33'

Property to the East o. ..tern Drainage Ditch
Soil Boring Logs

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SOIL BORING ID: ESB-1-1
Sample Date: 5/17/06
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Jamey Charter
Gray Clay Depth: Not encountered

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Brown sandy silt - Sand is mixed grain sizes. Some gravel, up to 3/4" diameter. Little roots, low moisture content, no odor or staining.

Sample Name: ESB-1-1
Analysis: PCB'S, TPH-DRO
Comments: Refusal at 0.5'. Possibly filled in the past. Could not get past 6".

SOIL BORING ID: ESB-2-1
Sample Date: 5/16/06
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Jamey Charter
Gray Clay Depth: 4.0"

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Sand	Silty sand, dark brown some gravel up to 3/4". Trace roots. Very moist to saturated. No odor or staining. Water level at 4".
0.5'-1.0'	Sand	Fine grained sand - some gravel, brown in color - supersaturated.
1.0'-1.083'	Sand	Sandy gray layer, very soft, less moisture than first 12".
1.083'-2.0'	Sand	Sand becomes red to purple in color. Becomes more difficult to auger through, more solid and fine grained - some gravel layer with some sandy clay. Gray to black - soft. No odor
2.0'-2.33'	Clay	Layer with some sandy clay, gray to black - soft, no odor.
2.33'-3.0'	Sand	More red to brown sand - fine grained, some gravel, difficult to auger through - very dense
3.0'-3.33'	Sand	More red to brown sand - fine grained, some gravel, difficult to auger through - very dense. Gravel layer 1/4" - 1/2"
3.33'-4.0'	Sand	More brown sand - fine grained, some gravel, no odor or staining.

Sample Name: ESB-2-1
Analysis: PCB'S, TPH-DRO
Comments: 8' south of stake at the edge of the cat tails.

SOIL BORING ID: ESB-3-1
Sample Date: 5/16/06
Boring Diameter: 1.5"
Drilling Method: Hand Auger
Geologist(s): Jamey Charter
Gray Clay Depth: Not encountered

Depth Interval (ft. bgs)	Lithology Type	Stratagraphic Description
0-0.5'	Silt	Dark brown sandy silt, low to medium moisture content. Sand grains range in size. Trace small gravel and roots. No odor or staining.

Sample Name: ESB-3-1
Analysis: PCB'S, TPH-DRO
Comments: Refusal at 0.5'. Appears to be red sand and then rock of some sort.

Property to the East o. .rn Drainage Ditch
Soil Boring Logs

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SOIL BORING ID: ESB-4-1		**Drilling Method:** Hand Auger
Sample Date: 5/16/06		**Geologist(s):** Jamey Charter
Boring Diameter: 1.5"		**Gray Clay Depth:** Not encountered
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Silt	Sandy silt - dark brown. Little roots and trace clays. Medium moisture content, pocket of light brown sand. Water level at 0.33'
0.5'-2.0'	Silt	Same soil matrix, but higher moisture content. Less roots and trace gravel. Pockets of light brown sand continue.
2.0'-2.5'	Sand	Soil becomes more of a silty sand and becomes more dense and dry.

Sample Name: ESB-4-1
Analysis: PCB'S, TPH-DRO
Comments: Refusal at 2.5' on what feels to be rocks or cement

SOIL BORING ID: ESB-5-1		**Drilling Method:** Hand Auger
Sample Date: 5/16/06		**Geologist(s):** Jamey Charter
Boring Diameter: 1.5"		**Gray Clay Depth:** 4.5'
Depth Interval (ft. bgs)	**Lithology Type**	**Stratagraphic Description**
0-0.5'	Silt	Brown sandy silt, moist in texture with small to large angular gravel - about 30%. Grain sizes in sand varry. Difficult to penetrate this layer, little roots.
0.5'-1.5'	Sand	Soil changes from mostly sand with some silt - more regular, large sand grain sizes, sand varies in color from brown to gray to black. 12"-14" Gray layer of sand with clay, very soft. Water level at 1.5'.
1.5'-2.0'	Gravel	Saturated gravel layer, dark in color, gravel size up to 1/2". Looks to be stained and has a slight odor.
2.0'-4.5'	Sand	Switches back to large grained sand - mostly brown and black in color. Still not a strong smell of petroleum. Few glass pieces.

Sample Name: ESB-5-1
Analysis: PCB'S, TPH-DRO
Comments: 1.0' from stake.

Appendix M

PCB Congener Results for Stained Surface Soil Samples

Stained Soil Areas Surface Soil Sample PCB Congener Results
SSA-3B
June 8, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2-Chlorobiphenyl	1		128000	U
3-Chlorobiphenyl	2		117000	U
4-Chlorobiphenyl	3		102000	U
2,2'-Dichlorobiphenyl	4		642000	U
2,3-Dichlorobiphenyl	5		401000	U
2,3'-Dichlorobiphenyl	6		368000	U
2,4-Dichlorobiphenyl	7		384000	U
2,4'-Dichlorobiphenyl	8		384000	QRBJ
2,5-Dichlorobiphenyl	9		386000	U
2,6-Dichlorobiphenyl	10		399000	U
3,3'-Dichlorobiphenyl	11		385000	U
3,4-Dichlorobiphenyl	12		372000	U
3,4'-Dichlorobiphenyl	13		372000	U
3,5-Dichlorobiphenyl	14		368000	U
4,4'-Dichlorobiphenyl	15		297000	QBJ
2,2',3-Trichlorobiphenyl	16		525000	U
2,2',4-Trichlorobiphenyl	17		424000	U
2,2',5-Trichlorobiphenyl	18		350000	U
2,2',6-Trichlorobiphenyl	19		457000	U
2,3,3'-Trichlorobiphenyl	20		155000	QBCJ
2,3,4-Trichlorobiphenyl	21	653000	160000	CJ
2,3,4'-Trichlorobiphenyl	22	481000	168000	J
2,3,5-Trichlorobiphenyl	23		172000	U
2,3,6-Trichlorobiphenyl	24		307000	U
2,3',4-Trichlorobiphenyl	25		146000	U
2,3',5-Trichlorobiphenyl	26		161000	U
2,3',6-Trichlorobiphenyl	27		299000	U
2,4,4'-Trichlorobiphenyl	28		155000	C20JB
2,4,5-Trichlorobiphenyl	29		161000	U
2,4,6-Trichlorobiphenyl	30		350000	U
2,4',5-Trichlorobiphenyl	31		158000	QBJ
2,4',6-Trichlorobiphenyl	32		274000	U
2,3',4'-Trichlorobiphenyl	33		160000	C21
2,3',5'-Trichlorobiphenyl	34		167000	U
3,3',4-Trichlorobiphenyl	35		166000	U
3,3',5-Trichlorobiphenyl	36		155000	U
3,4,4'-Trichlorobiphenyl	37		253000	BJ
3,4,5-Trichlorobiphenyl	38		159000	U
3,4',5-Trichlorobiphenyl	39		147000	U
2,2',3,3'-Tetrachlorobiphenyl	40	1440000	197000	C

Stained Soil Areas Surface Soil Sample PCB Congener Results
SSA-3B
June 8, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,4-Tetrachlorobiphenyl	41		197000	C40
2,2',3,4'-Tetrachlorobiphenyl	42	561000	218000	J
2,2',3,5-Tetrachlorobiphenyl	43		180000	U
2,2',3,5'-Tetrachlorobiphenyl	44	2620000	177000	QC
2,2',3,6-Tetrachlorobiphenyl	45	1150000	206000	QCJ
2,2',3,6'-Tetrachlorobiphenyl	46		240000	U
2,2',4,4'-Tetrachlorobiphenyl	47		177000	C44
2,2',4,5-Tetrachlorobiphenyl	48		197000	U
2,2',4,5'-Tetrachlorobiphenyl	49	1090000	168000	QCJ
2,2',4,6-Tetrachlorobiphenyl	50	809000	198000	CJ
2,2',4,6'-Tetrachlorobiphenyl	51		206000	C45J
2,2',5,5'-Tetrachlorobiphenyl	52	3680000	189000	
2,2',5,6'-Tetrachlorobiphenyl	53		198000	C50
2,2',6,6'-Tetrachlorobiphenyl	54		298000	U
2,3,3',4-Tetrachlorobiphenyl	55		148000	U
2,3,3',4'-Tetrachlorobiphenyl	56	1940000	146000	
2,3,3',5-Tetrachlorobiphenyl	57		146000	U
2,3,3',5'-Tetrachlorobiphenyl	58	987000	142000	J
2,3,3',6-Tetrachlorobiphenyl	59	188000	143000	QCJ
2,3,4,4'-Tetrachlorobiphenyl	60		144000	U
2,3,4,5-Tetrachlorobiphenyl	61		138000	BC
2,3,4,6-Tetrachlorobiphenyl	62		143000	C59
2,3,4',5-Tetrachlorobiphenyl	63		136000	U
2,3,4',6-Tetrachlorobiphenyl	64	1040000	143000	QJ
2,3,5,6-Tetrachlorobiphenyl	65		177000	C44
2,3',4,4'-Tetrachlorobiphenyl	66	4130000	135000	
2,3',4,5-Tetrachlorobiphenyl	67		127000	U
2,3',4,5'-Tetrachlorobiphenyl	68		132000	U
2,3',4,6-Tetrachlorobiphenyl	69		168000	QRC49J
2,3',4',5-Tetrachlorobiphenyl	70		138000	C61
2,3',4',6-Tetrachlorobiphenyl	71		197000	C40
2,3',5,5'-Tetrachlorobiphenyl	72		140000	U
2,3',5',6-Tetrachlorobiphenyl	73		180000	U
2,4,4',5-Tetrachlorobiphenyl	74		138000	C61
2,4,4',6-Tetrachlorobiphenyl	75		143000	QC59J
2,3',4',5'-Tetrachlorobiphenyl	76		138000	C61
3,3',4,4'-Tetrachlorobiphenyl	77	1100000	127000	J
3,3',4,5-Tetrachlorobiphenyl	78		140000	U
3,3',4,5'-Tetrachlorobiphenyl	79	138000	119000	QJ
3,3',5,5'-Tetrachlorobiphenyl	80		126000	U

Stained Soil Areas Surface Soil Sample PCB Congener Results
SSA-3B
June 8, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
3,4,4',5-Tetrachlorobiphenyl	81		130000	U
2,2',3,3',4-Pentachlorobiphenyl	82	3450000	324000	
2,2',3,3',5-Pentachlorobiphenyl	83	1330000	335000	QJ
2,2',3,3',6-Pentachlorobiphenyl	84	5630000	327000	J
2,2',3,4,4'-Pentachlorobiphenyl	85	4210000	232000	C
2,2',3,4,5-Pentachlorobiphenyl	86	13500000	232000	C
2,2',3,4,5'-Pentachlorobiphenyl	87		232000	C86
2,2',3,4,6-Pentachlorobiphenyl	88	2690000	288000	C
2,2',3,4,6'-Pentachlorobiphenyl	89		313000	U
2,2',3,4',5-Pentachlorobiphenyl	90	34100000	242000	C
2,2',3,4',6-Pentachlorobiphenyl	91		288000	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	5960000	293000	
2,2',3,5,6-Pentachlorobiphenyl	93		283000	U
2,2',3,5,6'-Pentachlorobiphenyl	94		309000	U
2,2',3,5',6-Pentachlorobiphenyl	95	28700000	283000	J
2,2',3,6,6'-Pentachlorobiphenyl	96		215000	U
2,2',3,4',5'-Pentachlorobiphenyl	97		232000	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	611000	288000	QCJ
2,2',4,4',5-Pentachlorobiphenyl	99	8440000	231000	C
2,2',4,4',6-Pentachlorobiphenyl	100		283000	U
2,2',4,5,5'-Pentachlorobiphenyl	101		242000	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		288000	C98J
2,2',4,5',6-Pentachlorobiphenyl	103		265000	U
2,2',4,6,6'-Pentachlorobiphenyl	104		209000	U
2,3,3',4,4'-Pentachlorobiphenyl	105	11600000	132000	
2,3,3',4,5-Pentachlorobiphenyl	106		141000	U
2,3,3',4',5-Pentachlorobiphenyl	107	1980000	125000	
2,3,3',4,5'-Pentachlorobiphenyl	108	1270000	139000	CJ
2,3,3',4,6-Pentachlorobiphenyl	109		232000	C86
2,3,3',4',6-Pentachlorobiphenyl	110	47000000	205000	C
2,3,3',5,5'-Pentachlorobiphenyl	111		197000	U
2,3,3',5,6-Pentachlorobiphenyl	112		231000	C99
2,3,3',5',6-Pentachlorobiphenyl	113		242000	C90
2,3,4,4',5-Pentachlorobiphenyl	114	356000	110000	QJ
2,3,4,4',6-Pentachlorobiphenyl	115		205000	C110
2,3,4,5,6-Pentachlorobiphenyl	116		232000	C85
2,3,4',5,6-Pentachlorobiphenyl	117		232000	C85
2,3',4,4',5-Pentachlorobiphenyl	118	25300000	119000	
2,3',4,4',6-Pentachlorobiphenyl	119		232000	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		190000	U

Stained Soil Areas Surface Soil Sample PCB Congener Results
SSA-3B
June 8, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3',4,5',6-Pentachlorobiphenyl	121		207000	U
2,3,3',4',5'-Pentachlorobiphenyl	122	422000	147000	QJ
2,3',4,4',5'-Pentachlorobiphenyl	123	457000	124000	QJ
2,3',4',5,5'-Pentachlorobiphenyl	124		139000	C108
2,3',4',5',6-Pentachlorobiphenyl	125		232000	C86
3,3',4,4',5-Pentachlorobiphenyl	126	571000	134000	J
3,3',4,5,5'-Pentachlorobiphenyl	127		130000	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	14300000	219000	QCJ
2,2',3,3',4,5-Hexachlorobiphenyl	129	168000000	225000	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	8230000	286000	
2,2',3,3',4,6-Hexachlorobiphenyl	131	1070000	287000	J
2,2',3,3',4,6'-Hexachlorobiphenyl	132	46900000	280000	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	2100000	264000	
2,2',3,3',5,6-Hexachlorobiphenyl	134	6070000	287000	C
2,2',3,3',5,6'-Hexachlorobiphenyl	135	71300000	405000	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	19900000	300000	J
2,2',3,4,4',5-Hexachlorobiphenyl	137	16700000	215000	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138		225000	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	1090000	241000	CJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140		241000	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	39700000	256000	
2,2',3,4,5,6-Hexachlorobiphenyl	142		283000	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		287000	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	10400000	395000	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		306000	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	23800000	231000	
2,2',3,4',5,6-Hexachlorobiphenyl	147	126000000	232000	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		403000	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		232000	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		293000	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		405000	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		290000	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	142000000	197000	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154	911000	346000	QJ
2,2',4,4',6,6'-Hexachlorobiphenyl	155		281000	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	9850000	184000	C
2,3,3',4,4',5'-Hexachlorobiphenyl	157		184000	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	16300000	172000	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	3160000	180000	J
2,3,3',4,5,6-Hexachlorobiphenyl	160		201000	U

Stained Soil Areas Surface Soil Sample PCB Congener Results
SSA-3B
June 8, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3,3',4,5',6-Hexachlorobiphenyl	161		187000	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	636000	180000	J
2,3,3',4',5,6-Hexachlorobiphenyl	163		225000	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		215000	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		205000	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		219000	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	5970000	157000	
2,3',4,4',5',6-Hexachlorobiphenyl	168		197000	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169	226000	154000	QJ
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	71300000	169000	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	25400000	214000	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	15900000	216000	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		214000	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	86500000	200000	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	2980000	192000	QJ
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	10200000	152000	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	48800000	214000	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	15100000	206000	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	28500000	150000	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	163000000	129000	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		200000	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		194000	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	58200000	192000	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		141000	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		192000	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		154000	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	91600000	181000	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		147000	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	3560000	141000	
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	17700000	154000	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	4050000	151000	
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		163000	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		163000	C180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	47500000	130000	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	19900000	143000	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	33000000	195000	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	10100000	143000	C
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	58100000	194000	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		194000	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		143000	C197

Stained Soil Areas Surface Soil Sample PCB Congener Results
SSA-3B
June 8, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	6560000	142000	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	8290000	150000	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	37300000	179000	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		147000	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	2120000	90700	J
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	6680000	184000	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	1230000	166000	J
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	1610000	160000	QJ
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	1930000	84600	

TOTAL = 1,831,307,000

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = Not detected.

Q = Estimated maximum possible concentration.

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

pg/kg = Picograms per kilogram.

Analytical data validated by SECOR personnel

Stained Soil Areas Surface Soil Sample PCB Congener Results
SSA-3D (Duplicate of SSA-3B)
June 8, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2-Chlorobiphenyl	1		91500	U
3-Chlorobiphenyl	2		83700	U
4-Chlorobiphenyl	3		72700	U
2,2'-Dichlorobiphenyl	4		580000	U
2,3-Dichlorobiphenyl	5		362000	U
2,3'-Dichlorobiphenyl	6	189000	332000	QUJ
2,4-Dichlorobiphenyl	7		347000	U
2,4'-Dichlorobiphenyl	8		384000	QRBJ
2,5-Dichlorobiphenyl	9		349000	U
2,6-Dichlorobiphenyl	10		361000	U
3,3'-Dichlorobiphenyl	11		348000	QBJ
3,4-Dichlorobiphenyl	12		336000	U
3,4'-Dichlorobiphenyl	13		336000	U
3,5-Dichlorobiphenyl	14		333000	U
4,4'-Dichlorobiphenyl	15		268000	QBJ
2,2',3-Trichlorobiphenyl	16		471000	U
2,2',4-Trichlorobiphenyl	17		380000	U
2,2',5-Trichlorobiphenyl	18	626000	314000	CJ
2,2',6-Trichlorobiphenyl	19		410000	U
2,3,3'-Trichlorobiphenyl	20		143000	QBCJ
2,3,4-Trichlorobiphenyl	21	490000	144000	CJ
2,3,4'-Trichlorobiphenyl	22		151000	U
2,3,5-Trichlorobiphenyl	23		154000	U
2,3,6-Trichlorobiphenyl	24		275000	U
2,3',4-Trichlorobiphenyl	25		131000	U
2,3',5-Trichlorobiphenyl	26		144000	U
2,3',6-Trichlorobiphenyl	27		268000	U
2,4,4'-Trichlorobiphenyl	28		143000	C20
2,4,5-Trichlorobiphenyl	29		144000	U
2,4,6-Trichlorobiphenyl	30		314000	C18
2,4',5-Trichlorobiphenyl	31		142000	BJ
2,4',6-Trichlorobiphenyl	32		246000	U
2,3',4'-Trichlorobiphenyl	33		144000	C21J
2,3',5'-Trichlorobiphenyl	34		150000	U
3,3',4-Trichlorobiphenyl	35		149000	U
3,3',5-Trichlorobiphenyl	36		139000	U
3,4,4'-Trichlorobiphenyl	37		253000	JB
3,4,5-Trichlorobiphenyl	38		143000	U
3,4',5-Trichlorobiphenyl	39		132000	U
2,2',3,3'-Tetrachlorobiphenyl	40	894000	219000	QCJ

Stained Soil Areas Surface Soil Sample PCB Congener Results
SSA-3D (Duplicate of SSA-3B)
June 8, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,4-Tetrachlorobiphenyl	41		219000	C40
2,2',3,4'-Tetrachlorobiphenyl	42		243000	U
2,2',3,5-Tetrachlorobiphenyl	43		201000	U
2,2',3,5'-Tetrachlorobiphenyl	44	2070000	198000	QC
2,2',3,6-Tetrachlorobiphenyl	45	1030000	230000	CJ
2,2',3,6'-Tetrachlorobiphenyl	46		268000	U
2,2',4,4'-Tetrachlorobiphenyl	47		198000	C44J
2,2',4,5-Tetrachlorobiphenyl	48		220000	U
2,2',4,5'-Tetrachlorobiphenyl	49	1010000	188000	CJ
2,2',4,6-Tetrachlorobiphenyl	50		221000	U
2,2',4,6'-Tetrachlorobiphenyl	51		230000	C45
2,2',5,5'-Tetrachlorobiphenyl	52	2900000	211000	
2,2',5,6'-Tetrachlorobiphenyl	53		221000	U
2,2',6,6'-Tetrachlorobiphenyl	54		332000	U
2,3,3',4-Tetrachlorobiphenyl	55		166000	U
2,3,3',4'-Tetrachlorobiphenyl	56	1380000	163000	J
2,3,3',5-Tetrachlorobiphenyl	57		163000	U
2,3,3',5'-Tetrachlorobiphenyl	58	858000	159000	J
2,3,3',6-Tetrachlorobiphenyl	59		160000	U
2,3,4,4'-Tetrachlorobiphenyl	60	545000	160000	QJ
2,3,4,5-Tetrachlorobiphenyl	61		154000	BC
2,3,4,6-Tetrachlorobiphenyl	62		160000	U
2,3,4',5-Tetrachlorobiphenyl	63		152000	U
2,3,4',6-Tetrachlorobiphenyl	64	975000	159000	J
2,3,5,6-Tetrachlorobiphenyl	65		198000	C44
2,3',4,4'-Tetrachlorobiphenyl	66	3610000	151000	
2,3',4,5-Tetrachlorobiphenyl	67		142000	U
2,3',4,5'-Tetrachlorobiphenyl	68		147000	U
2,3',4,6-Tetrachlorobiphenyl	69		188000	C49
2,3',4',5-Tetrachlorobiphenyl	70		154000	C61
2,3',4',6-Tetrachlorobiphenyl	71		219000	C40J
2,3',5,5'-Tetrachlorobiphenyl	72		157000	U
2,3',5',6-Tetrachlorobiphenyl	73		201000	U
2,4,4',5-Tetrachlorobiphenyl	74		154000	C61
2,4,4',6-Tetrachlorobiphenyl	75		160000	U
2,3',4',5'-Tetrachlorobiphenyl	76		154000	C61
3,3',4,4'-Tetrachlorobiphenyl	77	767000	141000	QJ
3,3',4,5-Tetrachlorobiphenyl	78		157000	U
3,3',4,5'-Tetrachlorobiphenyl	79	414000	132000	QJ
3,3',5,5'-Tetrachlorobiphenyl	80		141000	U

Stained Soil Areas Surface Soil Sample PCB Congener Results
SSA-3D (Duplicate of SSA-3B)
June 8, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
3,4,4',5-Tetrachlorobiphenyl	81		128000	U
2,2',3,3',4-Pentachlorobiphenyl	82	3230000	293000	
2,2',3,3',5-Pentachlorobiphenyl	83	1070000	303000	QJ
2,2',3,3',6-Pentachlorobiphenyl	84	5900000	296000	
2,2',3,4,4'-Pentachlorobiphenyl	85	4770000	210000	C
2,2',3,4,5-Pentachlorobiphenyl	86	11800000	210000	QCJ
2,2',3,4,5'-Pentachlorobiphenyl	87		210000	C86J
2,2',3,4,6-Pentachlorobiphenyl	88	2600000	261000	C
2,2',3,4,6'-Pentachlorobiphenyl	89		283000	U
2,2',3,4',5-Pentachlorobiphenyl	90	33400000	219000	C
2,2',3,4',6-Pentachlorobiphenyl	91		261000	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	5690000	265000	
2,2',3,5,6-Pentachlorobiphenyl	93		256000	U
2,2',3,5,6'-Pentachlorobiphenyl	94		279000	U
2,2',3,5',6-Pentachlorobiphenyl	95	28300000	256000	J
2,2',3,6,6'-Pentachlorobiphenyl	96		195000	U
2,2',3,4',5'-Pentachlorobiphenyl	97		210000	C86
2,2',3,4',6'-Pentachlorobiphenyl	98		260000	U
2,2',4,4',5-Pentachlorobiphenyl	99	7360000	208000	C
2,2',4,4',6-Pentachlorobiphenyl	100		256000	U
2,2',4,5,5'-Pentachlorobiphenyl	101		219000	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		260000	U
2,2',4,5',6-Pentachlorobiphenyl	103		240000	U
2,2',4,6,6'-Pentachlorobiphenyl	104		189000	U
2,3,3',4,4'-Pentachlorobiphenyl	105	11800000	118000	
2,3,3',4,5-Pentachlorobiphenyl	106		128000	U
2,3,3',4',5-Pentachlorobiphenyl	107	1860000	113000	
2,3,3',4,5'-Pentachlorobiphenyl	108	1160000	126000	CJ
2,3,3',4,6-Pentachlorobiphenyl	109		210000	C86
2,3,3',4',6-Pentachlorobiphenyl	110	45600000	186000	C
2,3,3',5,5'-Pentachlorobiphenyl	111		178000	U
2,3,3',5,6-Pentachlorobiphenyl	112		208000	C99
2,3,3',5',6-Pentachlorobiphenyl	113		219000	C90
2,3,4,4',5-Pentachlorobiphenyl	114	401000	100000	QJ
2,3,4,4',6-Pentachlorobiphenyl	115		186000	C110
2,3,4,5,6-Pentachlorobiphenyl	116		210000	C85
2,3,4',5,6-Pentachlorobiphenyl	117		210000	C85
2,3',4,4',5-Pentachlorobiphenyl	118	23600000	112000	
2,3',4,4',6-Pentachlorobiphenyl	119		210000	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		172000	U

Stained Soil Areas Surface Soil Sample PCB Congener Results
SSA-3D (Duplicate of SSA-3B)
June 8, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3',4,5',6-Pentachlorobiphenyl	121		187000	U
2,3,3',4',5'-Pentachlorobiphenyl	122	414000	133000	QJ
2,3',4,4',5'-Pentachlorobiphenyl	123	506000	105000	J
2,3',4',5,5'-Pentachlorobiphenyl	124		126000	C108
2,3',4',5',6-Pentachlorobiphenyl	125		210000	C86
3,3',4,4',5-Pentachlorobiphenyl	126	489000	125000	J
3,3',4,5,5'-Pentachlorobiphenyl	127		117000	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	18400000	230000	C
2,2',3,3',4,5-Hexachlorobiphenyl	129	168000000	236000	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	8150000	300000	
2,2',3,3',4,6-Hexachlorobiphenyl	131	1170000	302000	QRJ
2,2',3,3',4,6'-Hexachlorobiphenyl	132	44400000	294000	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	2020000	277000	
2,2',3,3',5,6-Hexachlorobiphenyl	134	5910000	302000	C
2,2',3,3',5,6'-Hexachlorobiphenyl	135	66900000	425000	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	19000000	315000	
2,2',3,4,4',5-Hexachlorobiphenyl	137	16800000	226000	QC
2,2',3,4,4',5'-Hexachlorobiphenyl	138		236000	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	884000	253000	CJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140		253000	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	39400000	268000	
2,2',3,4,5,6-Hexachlorobiphenyl	142		297000	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		302000	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	10300000	415000	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		322000	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	23800000	243000	
2,2',3,4',5,6-Hexachlorobiphenyl	147	126000000	244000	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		423000	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		244000	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		308000	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		425000	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		304000	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	138000000	207000	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154	771000	364000	QJ
2,2',4,4',6,6'-Hexachlorobiphenyl	155		295000	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	9120000	196000	C
2,3,3',4,4',5'-Hexachlorobiphenyl	157		196000	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	15600000	181000	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	3290000	189000	
2,3,3',4,5,6-Hexachlorobiphenyl	160		211000	U

Stained Soil Areas Surface Soil Sample PCB Congener Results
SSA-3D (Duplicate of SSA-3B)
June 8, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3,3',4,5',6-Hexachlorobiphenyl	161		197000	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	716000	189000	QJ
2,3,3',4',5,6-Hexachlorobiphenyl	163		236000	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		226000	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		215000	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		230000	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	6400000	161000	
2,3',4,4',5',6-Hexachlorobiphenyl	168		207000	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169	275000	163000	J
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	71100000	185000	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	27100000	216000	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	16000000	219000	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		216000	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	90400000	203000	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	3560000	194000	
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	10200000	154000	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	50600000	217000	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	15400000	209000	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	29700000	152000	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	166000000	131000	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181	384000	203000	J
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		197000	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	62200000	194000	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		143000	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		194000	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		156000	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	92200000	183000	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		149000	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	3760000	136000	
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	17600000	156000	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	3540000	153000	QJ
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		165000	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		165000	C180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	48900000	192000	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	20900000	210000	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	34700000	288000	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	10100000	210000	C
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	60500000	286000	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		286000	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		210000	C197J

Stained Soil Areas Surface Soil Sample PCB Congener Results
SSA-3D (Duplicate of SSA-3B)
June 8, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	7560000	209000	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	9430000	221000	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	37600000	263000	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		216000	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	2370000	134000	J
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	5300000	232000	Q
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	1220000	210000	J
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	1410000	202000	J
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	1900000	91800	QJ
	TOTAL =	**1834648000**		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

C*x* = *Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.*

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/kg = *Picograms per kilogram.*

Analytical data validated by SECOR personnel

P:\Clients\Amtrak-APU\Phase 2 RI Laboratory Data\Attachments\Attachment H\[stained area PCB cong results-validated.xls]SSA-3D wo b validated

Appendix N

PCB Congener and Grain-Size Results for Upland (Subdrainage Area) Surface Soils

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
10-M
April 1, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2-Chlorobiphenyl	1		35200	U
3-Chlorobiphenyl	2	23600	32200	QJ
4-Chlorobiphenyl	3	115000	27900	QJ
2,2'-Dichlorobiphenyl	4		301000	U
2,3-Dichlorobiphenyl	5		188000	U
2,3'-Dichlorobiphenyl	6		172000	U
2,4-Dichlorobiphenyl	7		180000	U
2,4'-Dichlorobiphenyl	8		172000	U
2,5-Dichlorobiphenyl	9		181000	U
2,6-Dichlorobiphenyl	10		187000	U
3,3'-Dichlorobiphenyl	11		180000	U
3,4-Dichlorobiphenyl	12		174000	U
3,4'-Dichlorobiphenyl	13		174000	U
3,5-Dichlorobiphenyl	14		172000	U
4,4'-Dichlorobiphenyl	15		139000	QBJ
2,2',3-Trichlorobiphenyl	16		192000	U
2,2',4-Trichlorobiphenyl	17	808000	155000	QJ
2,2',5-Trichlorobiphenyl	18		128000	U
2,2',6-Trichlorobiphenyl	19	387000	167000	J
2,3,3'-Trichlorobiphenyl	20		56600	BCJ
2,3,4-Trichlorobiphenyl	21		58600	BCJ
2,3,4'-Trichlorobiphenyl	22	243000	61400	QJ
2,3,5-Trichlorobiphenyl	23		62900	U
2,3,6-Trichlorobiphenyl	24		112000	U
2,3',4-Trichlorobiphenyl	25	369000	53300	QJ
2,3',5-Trichlorobiphenyl	26	234000	58700	QCJ
2,3',6-Trichlorobiphenyl	27	277000	109000	QJ
2,4,4'-Trichlorobiphenyl	28		56600	C20J
2,4,5-Trichlorobiphenyl	29		58700	C26
2,4,6-Trichlorobiphenyl	30		128000	U
2,4',5-Trichlorobiphenyl	31		57700	BJ
2,4',6-Trichlorobiphenyl	32	2560000	100000	
2,3',4'-Trichlorobiphenyl	33		58600	C21
2,3',5'-Trichlorobiphenyl	34		61100	U
3,3',4-Trichlorobiphenyl	35		60600	U
3,3',5-Trichlorobiphenyl	36		56600	U
3,4,4'-Trichlorobiphenyl	37	167000	50500	QJ
3,4,5-Trichlorobiphenyl	38		58000	U
3,4',5-Trichlorobiphenyl	39		53700	U

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
10-M
April 1, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	4980000	79600	C
2,2',3,4-Tetrachlorobiphenyl	41		79600	C40
2,2',3,4'-Tetrachlorobiphenyl	42	1890000	88200	
2,2',3,5-Tetrachlorobiphenyl	43	778000	72900	CJ
2,2',3,5'-Tetrachlorobiphenyl	44		71800	BCJ
2,2',3,6-Tetrachlorobiphenyl	45	7510000	83200	C
2,2',3,6'-Tetrachlorobiphenyl	46	895000	97100	J
2,2',4,4'-Tetrachlorobiphenyl	47		71800	C44J
2,2',4,5-Tetrachlorobiphenyl	48		79600	U
2,2',4,5'-Tetrachlorobiphenyl	49		68000	BCJ
2,2',4,6-Tetrachlorobiphenyl	50	4400000	80100	C
2,2',4,6'-Tetrachlorobiphenyl	51		83200	C45
2,2',5,5'-Tetrachlorobiphenyl	52		76400	B
2,2',5,6'-Tetrachlorobiphenyl	53		80100	C50
2,2',6,6'-Tetrachlorobiphenyl	54	848000	121000	J
2,3,3',4-Tetrachlorobiphenyl	55		60000	U
2,3,3',4'-Tetrachlorobiphenyl	56	351000	59200	J
2,3,3',5-Tetrachlorobiphenyl	57		59000	U
2,3,3',5'-Tetrachlorobiphenyl	58	287000	57600	J
2,3,3',6-Tetrachlorobiphenyl	59	608000	58000	CJ
2,3,4,4'-Tetrachlorobiphenyl	60	124000	58200	QJ
2,3,4,5-Tetrachlorobiphenyl	61		55700	BCJ
2,3,4,6-Tetrachlorobiphenyl	62		58000	C59
2,3,4',5-Tetrachlorobiphenyl	63	250000	55200	QJ
2,3,4',6-Tetrachlorobiphenyl	64		57700	BJ
2,3,5,6-Tetrachlorobiphenyl	65		71800	C44J
2,3',4,4'-Tetrachlorobiphenyl	66		54800	BJ
2,3',4,5-Tetrachlorobiphenyl	67		51400	U
2,3',4,5'-Tetrachlorobiphenyl	68	889000	53400	J
2,3',4,6-Tetrachlorobiphenyl	69		68000	C49J
2,3',4',5-Tetrachlorobiphenyl	70		55700	C61J
2,3',4',6-Tetrachlorobiphenyl	71		79600	C40
2,3',5,5'-Tetrachlorobiphenyl	72	469000	56800	J
2,3',5',6-Tetrachlorobiphenyl	73		72900	C43
2,4,4',5-Tetrachlorobiphenyl	74		55700	C61J
2,4,4',6-Tetrachlorobiphenyl	75		58000	C59
2,3',4',5'-Tetrachlorobiphenyl	76		55700	C61J
3,3',4,4'-Tetrachlorobiphenyl	77	153000	51300	QJ
3,3',4,5-Tetrachlorobiphenyl	78		56800	U

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
10-M
April 1, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
3,3',4,5'-Tetrachlorobiphenyl	79	158000	48000	J
3,3',5,5'-Tetrachlorobiphenyl	80		51000	U
3,4,4',5-Tetrachlorobiphenyl	81		48100	U
2,2',3,3',4-Pentachlorobiphenyl	82	753000	130000	J
2,2',3,3',5-Pentachlorobiphenyl	83	919000	135000	QJ
2,2',3,3',6-Pentachlorobiphenyl	84	2980000	132000	
2,2',3,4,4'-Pentachlorobiphenyl	85	1650000	93300	C
2,2',3,4,5-Pentachlorobiphenyl	86	6390000	93500	C
2,2',3,4,5'-Pentachlorobiphenyl	87		93500	C86
2,2',3,4,6-Pentachlorobiphenyl	88	7690000	116000	C
2,2',3,4,6'-Pentachlorobiphenyl	89		126000	U
2,2',3,4',5-Pentachlorobiphenyl	90		97400	BCJ
2,2',3,4',6-Pentachlorobiphenyl	91		116000	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	5860000	118000	
2,2',3,5,6-Pentachlorobiphenyl	93	3140000	114000	C
2,2',3,5,6'-Pentachlorobiphenyl	94	1910000	124000	
2,2',3,5',6-Pentachlorobiphenyl	95	19400000	114000	
2,2',3,6,6'-Pentachlorobiphenyl	96	542000	86600	QJ
2,2',3,4',5'-Pentachlorobiphenyl	97		93500	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	1050000	116000	QCJ
2,2',4,4',5-Pentachlorobiphenyl	99	5960000	92700	C
2,2',4,4',6-Pentachlorobiphenyl	100		114000	C93
2,2',4,5,5'-Pentachlorobiphenyl	101		97400	C90J
2,2',4,5,6'-Pentachlorobiphenyl	102		116000	C98
2,2',4,5',6-Pentachlorobiphenyl	103	1150000	107000	J
2,2',4,6,6'-Pentachlorobiphenyl	104	148000	84100	QJ
2,3,3',4,4'-Pentachlorobiphenyl	105	1110000	53300	J
2,3,3',4,5-Pentachlorobiphenyl	106		56900	UJ
2,3,3',4',5-Pentachlorobiphenyl	107	241000	56000	QCJ
2,3,3',4,5'-Pentachlorobiphenyl	108		93500	C86J
2,3,3',4,6-Pentachlorobiphenyl	109	906000	50400	J
2,3,3',4',6-Pentachlorobiphenyl	110	18400000	82500	C
2,3,3',5,5'-Pentachlorobiphenyl	111		79400	U
2,3,3',5,6-Pentachlorobiphenyl	112		92700	C99
2,3,3',5',6-Pentachlorobiphenyl	113		97400	C90J
2,3,4,4',5-Pentachlorobiphenyl	114		47500	U
2,3,4,4',6-Pentachlorobiphenyl	115		82500	C110
2,3,4,5,6-Pentachlorobiphenyl	116		93300	C85
2,3,4',5,6-Pentachlorobiphenyl	117		93300	C85

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
10-M
April 1, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118	4410000	48700	Q
2,3',4,4',6-Pentachlorobiphenyl	119		93500	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		76400	U
2,3',4,5',6-Pentachlorobiphenyl	121		83100	U
2,3,3',4',5'-Pentachlorobiphenyl	122		59000	U
2,3',4,4',5'-Pentachlorobiphenyl	123	81600	42600	QJ
2,3',4',5,5'-Pentachlorobiphenyl	124		56000	C108
2,3',4',5',6-Pentachlorobiphenyl	125		93500	C86J
3,3',4,4',5-Pentachlorobiphenyl	126		58100	UJ
3,3',4,5,5'-Pentachlorobiphenyl	127		52100	UJ
2,2',3,3',4,4'-Hexachlorobiphenyl	128	4800000	113000	CJ
2,2',3,3',4,5-Hexachlorobiphenyl	129	66400000	116000	CJ
2,2',3,3',4,5'-Hexachlorobiphenyl	130	2750000	148000	J
2,2',3,3',4,6-Hexachlorobiphenyl	131	546000	148000	J
2,2',3,3',4,6'-Hexachlorobiphenyl	132	21800000	145000	J
2,2',3,3',5,5'-Hexachlorobiphenyl	133	1230000	136000	J
2,2',3,3',5,6-Hexachlorobiphenyl	134	3510000	148000	CJ
2,2',3,3',5,6'-Hexachlorobiphenyl	135	41100000	209000	CJ
2,2',3,3',6,6'-Hexachlorobiphenyl	136	14500000	155000	J
2,2',3,4,4',5-Hexachlorobiphenyl	137	7140000	111000	CJ
2,2',3,4,4',5'-Hexachlorobiphenyl	138		116000	C129J
2,2',3,4,4',6-Hexachlorobiphenyl	139	456000	125000	CJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140		125000	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	17500000	132000	
2,2',3,4,5,6-Hexachlorobiphenyl	142		146000	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		148000	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	5550000	204000	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		158000	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	10700000	120000	
2,2',3,4',5,6-Hexachlorobiphenyl	147	70900000	120000	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		208000	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		120000	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150	476000	152000	J
2,2',3,5,5',6-Hexachlorobiphenyl	151		209000	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152	368000	150000	QJ
2,2',4,4',5,5'-Hexachlorobiphenyl	153	67300000	102000	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1350000	179000	
2,2',4,4',6,6'-Hexachlorobiphenyl	155		145000	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	1760000	90900	C

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COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3,3',4,4',5'-Hexachlorobiphenyl	157		90900	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	5940000	88900	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	1480000	93200	
2,3,3',4,5,6-Hexachlorobiphenyl	160		104000	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		96700	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162		93100	U
2,3,3',4',5,6-Hexachlorobiphenyl	163		116000	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		111000	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		106000	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		113000	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	1830000	74100	
2,3',4,4',5',6-Hexachlorobiphenyl	168		102000	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		97200	UJ
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	23100000	98600	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	10600000	138000	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	5560000	140000	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		138000	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	36700000	130000	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	1420000	124000	
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	4840000	98600	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	20100000	139000	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	6790000	134000	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	16500000	97400	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	56200000	93600	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		130000	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		126000	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	25100000	124000	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		91600	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		124000	C183J
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		99700	UJ
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	39500000	117000	J
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		95300	UJ
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	1010000	89100	J
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	5600000	100000	J
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	1310000	97800	J
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		106000	UJ
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		106000	C180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	13600000	99300	J
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	6810000	109000	J

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COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	11000000	149000	J
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	3490000	109000	CJ
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	20000000	148000	CJ
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		148000	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		109000	C197
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	2860000	108000	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	3650000	115000	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	11200000	136000	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		112000	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	400000	69100	QJ
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	2140000	113000	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	608000	102000	J
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	826000	98700	QJ
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	13000000	57900	
	TOTAL	807764200		

Notes:

Data has been validated by SECOR personnel.

B = The analyte was detected in the method, field and/or trip blank.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Q = Estimated maximum possible concentration.

pg/kg = Picograms per kilogram.

Analytical data validated by SECOR personnel

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
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April 1, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
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COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2-Chlorobiphenyl	1		209000	U
3-Chlorobiphenyl	2		191000	U
4-Chlorobiphenyl	3	234000	166000	QJ
2,2'-Dichlorobiphenyl	4		1750000	U
2,3-Dichlorobiphenyl	5		1090000	U
2,3'-Dichlorobiphenyl	6		1000000	U
2,4-Dichlorobiphenyl	7		1050000	U
2,4'-Dichlorobiphenyl	8	3950000	1010000	QJ
2,5-Dichlorobiphenyl	9		1050000	U
2,6-Dichlorobiphenyl	10		1090000	U
3,3'-Dichlorobiphenyl	11		1050000	U
3,4-Dichlorobiphenyl	12		1020000	U
3,4'-Dichlorobiphenyl	13		1020000	U
3,5-Dichlorobiphenyl	14		1010000	U
4,4'-Dichlorobiphenyl	15		810000	QBJ
2,2',3-Trichlorobiphenyl	16		992000	U
2,2',4-Trichlorobiphenyl	17	6120000	800000	J
2,2',5-Trichlorobiphenyl	18		661000	QBCJ
2,2',6-Trichlorobiphenyl	19	4920000	863000	J
2,3,3'-Trichlorobiphenyl	20		293000	BCJ
2,3,4-Trichlorobiphenyl	21		303000	BCJ
2,3,4'-Trichlorobiphenyl	22	2480000	318000	QJ
2,3,5-Trichlorobiphenyl	23		325000	U
2,3,6-Trichlorobiphenyl	24		581000	U
2,3',4-Trichlorobiphenyl	25	2610000	276000	QJ
2,3',5-Trichlorobiphenyl	26	1690000	304000	CJ
2,3',6-Trichlorobiphenyl	27	1020000	565000	QJ
2,4,4'-Trichlorobiphenyl	28		293000	C20J
2,4,5-Trichlorobiphenyl	29		304000	C26
2,4,6-Trichlorobiphenyl	30		661000	C18
2,4',5-Trichlorobiphenyl	31		299000	BJ
2,4',6-Trichlorobiphenyl	32	24000000	518000	
2,3',4'-Trichlorobiphenyl	33		303000	C21
2,3',5'-Trichlorobiphenyl	34		316000	U
3,3',4-Trichlorobiphenyl	35		314000	U
3,3',5-Trichlorobiphenyl	36		293000	U
3,4,4'-Trichlorobiphenyl	37	2700000	261000	J
3,4,5-Trichlorobiphenyl	38		300000	U
3,4',5-Trichlorobiphenyl	39		278000	U

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COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	37900000	528000	C
2,2',3,4-Tetrachlorobiphenyl	41		528000	C40
2,2',3,4'-Tetrachlorobiphenyl	42	12100000	585000	
2,2',3,5-Tetrachlorobiphenyl	43	3600000	483000	QCJ
2,2',3,5'-Tetrachlorobiphenyl	44		476000	BC
2,2',3,6-Tetrachlorobiphenyl	45	62700000	552000	C
2,2',3,6'-Tetrachlorobiphenyl	46	5150000	644000	J
2,2',4,4'-Tetrachlorobiphenyl	47		476000	C44
2,2',4,5-Tetrachlorobiphenyl	48		528000	U
2,2',4,5'-Tetrachlorobiphenyl	49		451000	JBC
2,2',4,6-Tetrachlorobiphenyl	50	33300000	532000	C
2,2',4,6'-Tetrachlorobiphenyl	51		552000	C45
2,2',5,5'-Tetrachlorobiphenyl	52		507000	JBC
2,2',5,6'-Tetrachlorobiphenyl	53		532000	C50
2,2',6,6'-Tetrachlorobiphenyl	54	9070000	800000	
2,3,3',4-Tetrachlorobiphenyl	55		398000	U
2,3,3',4'-Tetrachlorobiphenyl	56	3370000	392000	QJ
2,3,3',5-Tetrachlorobiphenyl	57		392000	U
2,3,3',5'-Tetrachlorobiphenyl	58	436000	382000	QJ
2,3,3',6-Tetrachlorobiphenyl	59	5210000	385000	CJ
2,3,4,4'-Tetrachlorobiphenyl	60	1210000	386000	J
2,3,4,5-Tetrachlorobiphenyl	61		369000	JBC
2,3,4,6-Tetrachlorobiphenyl	62		385000	C59
2,3,4',5-Tetrachlorobiphenyl	63	2070000	366000	J
2,3,4',6-Tetrachlorobiphenyl	64		383000	QBJ
2,3,5,6-Tetrachlorobiphenyl	65		476000	C44
2,3',4,4'-Tetrachlorobiphenyl	66		364000	B
2,3',4,5-Tetrachlorobiphenyl	67	656000	341000	QJ
2,3',4,5'-Tetrachlorobiphenyl	68	5340000	354000	J
2,3',4,6-Tetrachlorobiphenyl	69		451000	C49J
2,3',4',5-Tetrachlorobiphenyl	70		369000	C61J
2,3',4',6-Tetrachlorobiphenyl	71		528000	C40
2,3',5,5'-Tetrachlorobiphenyl	72	2490000	377000	J
2,3',5',6-Tetrachlorobiphenyl	73		483000	C43
2,4,4',5-Tetrachlorobiphenyl	74		369000	C61J
2,4,4',6-Tetrachlorobiphenyl	75		385000	C59
2,3',4',5'-Tetrachlorobiphenyl	76		369000	C61J
3,3',4,4'-Tetrachlorobiphenyl	77	1310000	340000	J
3,3',4,5-Tetrachlorobiphenyl	78		377000	U

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COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
3,3',4,5'-Tetrachlorobiphenyl	79	567000	318000	QJ
3,3',5,5'-Tetrachlorobiphenyl	80		339000	U
3,4,4',5-Tetrachlorobiphenyl	81		341000	U
2,2',3,3',4-Pentachlorobiphenyl	82	4540000	996000	J
2,2',3,3',5-Pentachlorobiphenyl	83	3620000	1030000	QJ
2,2',3,3',6-Pentachlorobiphenyl	84	14700000	1010000	
2,2',3,4,4'-Pentachlorobiphenyl	85	11700000	713000	C
2,2',3,4,5-Pentachlorobiphenyl	86	39500000	715000	C
2,2',3,4,5'-Pentachlorobiphenyl	87		715000	C86
2,2',3,4,6-Pentachlorobiphenyl	88	39800000	887000	C
2,2',3,4,6'-Pentachlorobiphenyl	89		961000	U
2,2',3,4',5-Pentachlorobiphenyl	90		745000	BC
2,2',3,4',6-Pentachlorobiphenyl	91		887000	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	32800000	902000	
2,2',3,5,6-Pentachlorobiphenyl	93	19600000	870000	C
2,2',3,5,6'-Pentachlorobiphenyl	94	9890000	951000	QJ
2,2',3,5',6-Pentachlorobiphenyl	95	85200000	871000	J
2,2',3,6,6'-Pentachlorobiphenyl	96	4130000	662000	J
2,2',3,4',5'-Pentachlorobiphenyl	97		715000	C86J
2,2',3,4',6'-Pentachlorobiphenyl	98	6860000	886000	QCJ
2,2',4,4',5-Pentachlorobiphenyl	99	34400000	709000	CJ
2,2',4,4',6-Pentachlorobiphenyl	100		870000	C93J
2,2',4,5,5'-Pentachlorobiphenyl	101		745000	C90J
2,2',4,5,6'-Pentachlorobiphenyl	102		886000	C98
2,2',4,5',6-Pentachlorobiphenyl	103	6800000	815000	J
2,2',4,6,6'-Pentachlorobiphenyl	104		643000	UJ
2,3,3',4,4'-Pentachlorobiphenyl	105	11400000	404000	J
2,3,3',4,5-Pentachlorobiphenyl	106		435000	UJ
2,3,3',4',5-Pentachlorobiphenyl	107	6550000	385000	J
2,3,3',4,5'-Pentachlorobiphenyl	108	1400000	429000	QCJ
2,3,3',4,6-Pentachlorobiphenyl	109		715000	C86
2,3,3',4',6-Pentachlorobiphenyl	110	94900000	631000	C
2,3,3',5,5'-Pentachlorobiphenyl	111		607000	U
2,3,3',5,6-Pentachlorobiphenyl	112		709000	C99
2,3,3',5',6-Pentachlorobiphenyl	113		745000	C90
2,3,4,4',5-Pentachlorobiphenyl	114		343000	U
2,3,4,4',6-Pentachlorobiphenyl	115		631000	C110
2,3,4,5,6-Pentachlorobiphenyl	116		713000	C85J
2,3,4',5,6-Pentachlorobiphenyl	117		713000	C85J

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2,3',4,4',5-Pentachlorobiphenyl	118	39800000	368000	J
2,3',4,4',6-Pentachlorobiphenyl	119		715000	C86J
2,3',4,5,5'-Pentachlorobiphenyl	120		584000	UJ
2,3',4,5',6-Pentachlorobiphenyl	121		636000	U
2,3,3',4',5'-Pentachlorobiphenyl	122		451000	U
2,3',4,4',5'-Pentachlorobiphenyl	123	785000	361000	J
2,3',4',5,5'-Pentachlorobiphenyl	124		429000	C108
2,3',4',5',6-Pentachlorobiphenyl	125		715000	C86J
3,3',4,4',5-Pentachlorobiphenyl	126		430000	UJ
3,3',4,5,5'-Pentachlorobiphenyl	127		399000	UJ
2,2',3,3',4,4'-Hexachlorobiphenyl	128	32200000	845000	CJ
2,2',3,3',4,5-Hexachlorobiphenyl	129	403000000	867000	CJ
2,2',3,3',4,5'-Hexachlorobiphenyl	130	18300000	1100000	J
2,2',3,3',4,6-Hexachlorobiphenyl	131	2510000	1110000	QJ
2,2',3,3',4,6'-Hexachlorobiphenyl	132	129000000	1080000	J
2,2',3,3',5,5'-Hexachlorobiphenyl	133	6960000	1020000	QJ
2,2',3,3',5,6-Hexachlorobiphenyl	134	16600000	1110000	CJ
2,2',3,3',5,6'-Hexachlorobiphenyl	135	204000000	1560000	CJ
2,2',3,3',6,6'-Hexachlorobiphenyl	136	70600000	1160000	
2,2',3,4,4',5-Hexachlorobiphenyl	137	45100000	828000	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138	0	867000	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	2530000	929000	CJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140	0	929000	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	102000000	985000	
2,2',3,4,5,6-Hexachlorobiphenyl	142		1090000	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		1110000	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	27500000	1520000	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		1180000	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	66800000	892000	
2,2',3,4',5,6-Hexachlorobiphenyl	147	404000000	895000	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148	1930000	1550000	J
2,2',3,4',5',6-Hexachlorobiphenyl	149		895000	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150	2260000	1130000	QJ
2,2',3,5,5',6-Hexachlorobiphenyl	151		1560000	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		1120000	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	381000000	761000	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154	7890000	1330000	
2,2',4,4',6,6'-Hexachlorobiphenyl	155		1080000	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	10600000	694000	C

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2,3,3',4,4',5'-Hexachlorobiphenyl	157		694000	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	38000000	663000	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	8110000	695000	Q
2,3,3',4,5,6-Hexachlorobiphenyl	160		774000	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		721000	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	1130000	694000	QJ
2,3,3',4',5,6-Hexachlorobiphenyl	163		867000	C129J
2,3,3',4',5',6-Hexachlorobiphenyl	164		828000	C137J
2,3,3',5,5',6-Hexachlorobiphenyl	165		790000	UJ
2,3,4,4',5,6-Hexachlorobiphenyl	166		845000	C128J
2,3',4,4',5,5'-Hexachlorobiphenyl	167	11900000	557000	J
2,3',4,4',5',6-Hexachlorobiphenyl	168		761000	C153J
3,3',4,4',5,5'-Hexachlorobiphenyl	169		686000	UJ
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	173000000	884000	J
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	64600000	1090000	CJ
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	36600000	1100000	J
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		1090000	C171J
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	231000000	1020000	J
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	7930000	978000	QJ
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	31100000	775000	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	127000000	1090000	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	43300000	1050000	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	94700000	766000	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	383000000	665000	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		1020000	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		989000	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	169000000	977000	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		720000	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		977000	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		784000	UJ
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	262000000	923000	J
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		749000	UJ
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	7560000	697000	J
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	42000000	787000	J
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	9730000	769000	J
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		830000	UJ
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		831000	C180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	104000000	880000	J
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	50300000	964000	J

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
10-P (Duplicate of 10-M)
April 1, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	77800000	1320000	J
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	25300000	963000	CJ
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	144000000	1310000	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		1310000	C198J
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		963000	C197J
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	21400000	961000	J
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	24100000	1010000	J
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	88700000	1210000	J
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		990000	UJ
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	4350000	613000	J
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	17900000	1120000	J
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	4270000	1010000	J
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	6610000	970000	J
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	41700000	891000	J
	TOTAL	4991448000		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/kg = Picograms per kilogram.

Analytical data validated by SECOR personnel

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 12 Composite Sample
March 31, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2-Chlorobiphenyl	1		103000	U
3-Chlorobiphenyl	2		94000	U
4-Chlorobiphenyl	3		81600	U
2,2'-Dichlorobiphenyl	4		1320000	U
2,3-Dichlorobiphenyl	5		826000	U
2,3'-Dichlorobiphenyl	6	797000	758000	QJ
2,4-Dichlorobiphenyl	7		792000	U
2,4'-Dichlorobiphenyl	8		759000	QBJ
2,5-Dichlorobiphenyl	9		796000	U
2,6-Dichlorobiphenyl	10		823000	U
3,3'-Dichlorobiphenyl	11		794000	U
3,4-Dichlorobiphenyl	12		767000	U
3,4'-Dichlorobiphenyl	13		767000	U
3,5-Dichlorobiphenyl	14		759000	U
4,4'-Dichlorobiphenyl	15		612000	QB
2,2',3-Trichlorobiphenyl	16	2060000	635000	QJ
2,2',4-Trichlorobiphenyl	17	1870000	513000	QJ
2,2',5-Trichlorobiphenyl	18		424000	BCJ
2,2',6-Trichlorobiphenyl	19		553000	U
2,3,3'-Trichlorobiphenyl	20		188000	BC
2,3,4-Trichlorobiphenyl	21		194000	QBCJ
2,3,4'-Trichlorobiphenyl	22		204000	BJ
2,3,5-Trichlorobiphenyl	23		209000	U
2,3,6-Trichlorobiphenyl	24		372000	U
2,3',4-Trichlorobiphenyl	25	855000	177000	J
2,3',5-Trichlorobiphenyl	26	1430000	195000	CJ
2,3',6-Trichlorobiphenyl	27		362000	U
2,4,4'-Trichlorobiphenyl	28		188000	C20
2,4,5-Trichlorobiphenyl	29		195000	C26
2,4,6-Trichlorobiphenyl	30		424000	C18
2,4',5-Trichlorobiphenyl	31		191000	B
2,4',6-Trichlorobiphenyl	32	3170000	332000	J
2,3',4'-Trichlorobiphenyl	33		194000	C21
2,3',5'-Trichlorobiphenyl	34		203000	U
3,3',4-Trichlorobiphenyl	35	517000	201000	QJ
3,3',5-Trichlorobiphenyl	36		188000	U
3,4,4'-Trichlorobiphenyl	37	9960000	168000	
3,4,5-Trichlorobiphenyl	38		192000	U
3,4',5-Trichlorobiphenyl	39		178000	U

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 12 Composite Sample
March 31, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	20000000	397000	C
2,2',3,4-Tetrachlorobiphenyl	41		397000	C40
2,2',3,4'-Tetrachlorobiphenyl	42	8980000	441000	
2,2',3,5-Tetrachlorobiphenyl	43		364000	U
2,2',3,5'-Tetrachlorobiphenyl	44		358000	BC
2,2',3,6-Tetrachlorobiphenyl	45	2880000	416000	CJ
2,2',3,6'-Tetrachlorobiphenyl	46	1170000	485000	QJ
2,2',4,4'-Tetrachlorobiphenyl	47		358000	C44
2,2',4,5-Tetrachlorobiphenyl	48	3100000	398000	J
2,2',4,5'-Tetrachlorobiphenyl	49		340000	BC
2,2',4,6-Tetrachlorobiphenyl	50	1490000	400000	QCJ
2,2',4,6'-Tetrachlorobiphenyl	51		416000	C45
2,2',5,5'-Tetrachlorobiphenyl	52		382000	B
2,2',5,6'-Tetrachlorobiphenyl	53		400000	C50
2,2',6,6'-Tetrachlorobiphenyl	54		602000	U
2,3,3',4-Tetrachlorobiphenyl	55		300000	U
2,3,3',4'-Tetrachlorobiphenyl	56	28200000	295000	
2,3,3',5-Tetrachlorobiphenyl	57		295000	U
2,3,3',5'-Tetrachlorobiphenyl	58		288000	U
2,3,3',6-Tetrachlorobiphenyl	59	1610000	290000	QCJ
2,3,4,4'-Tetrachlorobiphenyl	60	11500000	290000	
2,3,4,5-Tetrachlorobiphenyl	61		278000	BC
2,3,4,6-Tetrachlorobiphenyl	62		290000	C59
2,3,4',5-Tetrachlorobiphenyl	63	1330000	276000	J
2,3,4',6-Tetrachlorobiphenyl	64		288000	B
2,3,5,6-Tetrachlorobiphenyl	65		358000	C44
2,3',4,4'-Tetrachlorobiphenyl	66		274000	B
2,3',4,5-Tetrachlorobiphenyl	67	707000	257000	QJ
2,3',4,5'-Tetrachlorobiphenyl	68		267000	U
2,3',4,6-Tetrachlorobiphenyl	69		340000	C49
2,3',4',5-Tetrachlorobiphenyl	70		278000	C61
2,3',4',6-Tetrachlorobiphenyl	71		397000	C40
2,3',5,5'-Tetrachlorobiphenyl	72		284000	U
2,3',5',6-Tetrachlorobiphenyl	73		364000	U
2,4,4',5-Tetrachlorobiphenyl	74		278000	C61
2,4,4',6-Tetrachlorobiphenyl	75		290000	C59
2,3',4',5'-Tetrachlorobiphenyl	76		278000	C61
3,3',4,4'-Tetrachlorobiphenyl	77	10100000	256000	
3,3',4,5-Tetrachlorobiphenyl	78		284000	U

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 12 Composite Sample
March 31, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
3,3',4,5'-Tetrachlorobiphenyl	79	1650000	240000	QJ
3,3',5,5'-Tetrachlorobiphenyl	80		255000	U
3,4,4',5-Tetrachlorobiphenyl	81	349000	239000	QJ
2,2',3,3',4-Pentachlorobiphenyl	82	38700000	672000	
2,2',3,3',5-Pentachlorobiphenyl	83	11100000	696000	
2,2',3,3',6-Pentachlorobiphenyl	84	39100000	679000	
2,2',3,4,4'-Pentachlorobiphenyl	85	59200000	481000	C
2,2',3,4,5-Pentachlorobiphenyl	86	142000000	482000	C
2,2',3,4,5'-Pentachlorobiphenyl	87		482000	C86
2,2',3,4,6-Pentachlorobiphenyl	88	16500000	598000	C
2,2',3,4,6'-Pentachlorobiphenyl	89	1880000	648000	J
2,2',3,4',5-Pentachlorobiphenyl	90		503000	BC
2,2',3,4',6-Pentachlorobiphenyl	91		598000	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	24100000	609000	Q
2,2',3,5,6-Pentachlorobiphenyl	93	1100000	587000	QCJ
2,2',3,5,6'-Pentachlorobiphenyl	94		641000	U
2,2',3,5',6-Pentachlorobiphenyl	95	79700000	588000	
2,2',3,6,6'-Pentachlorobiphenyl	96		447000	U
2,2',3,4',5'-Pentachlorobiphenyl	97		482000	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	3020000	598000	QCJ
2,2',4,4',5-Pentachlorobiphenyl	99	102000000	478000	C
2,2',4,4',6-Pentachlorobiphenyl	100		587000	C93
2,2',4,5,5'-Pentachlorobiphenyl	101		503000	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		598000	C98
2,2',4,5',6-Pentachlorobiphenyl	103		550000	U
2,2',4,6,6'-Pentachlorobiphenyl	104		434000	U
2,3,3',4,4'-Pentachlorobiphenyl	105	144000000	284000	
2,3,3',4,5-Pentachlorobiphenyl	106		294000	U
2,3,3',4',5-Pentachlorobiphenyl	107	12800000	289000	C
2,3,3',4,5'-Pentachlorobiphenyl	108		482000	C86
2,3,3',4,6-Pentachlorobiphenyl	109	18400000	260000	
2,3,3',4',6-Pentachlorobiphenyl	110	294000000	426000	C
2,3,3',5,5'-Pentachlorobiphenyl	111		409000	U
2,3,3',5,6-Pentachlorobiphenyl	112		478000	C99
2,3,3',5',6-Pentachlorobiphenyl	113		503000	C90
2,3,4,4',5-Pentachlorobiphenyl	114	5440000	222000	QJ
2,3,4,4',6-Pentachlorobiphenyl	115		426000	C110
2,3,4,5,6-Pentachlorobiphenyl	116		481000	C85
2,3,4',5,6-Pentachlorobiphenyl	117		481000	C85

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 12 Composite Sample
March 31, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118	261000000	255000	
2,3',4,4',6-Pentachlorobiphenyl	119		482000	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		394000	U
2,3',4,5',6-Pentachlorobiphenyl	121		429000	U
2,3,3',4',5'-Pentachlorobiphenyl	122	5700000	304000	
2,3',4,4',5'-Pentachlorobiphenyl	123	5770000	232000	
2,3',4',5,5'-Pentachlorobiphenyl	124		289000	C108
2,3',4',5',6-Pentachlorobiphenyl	125		482000	C86
3,3',4,4',5-Pentachlorobiphenyl	126	2170000	297000	J
3,3',4,5,5'-Pentachlorobiphenyl	127		269000	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	71200000	483000	C
2,2',3,3',4,5-Hexachlorobiphenyl	129	491000000	496000	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	23000000	629000	
2,2',3,3',4,6-Hexachlorobiphenyl	131	3910000	634000	J
2,2',3,3',4,6'-Hexachlorobiphenyl	132	120000000	617000	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	4310000	582000	J
2,2',3,3',5,6-Hexachlorobiphenyl	134	16100000	633000	C
2,2',3,3',5,6'-Hexachlorobiphenyl	135	123000000	892000	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	36300000	661000	
2,2',3,4,4',5-Hexachlorobiphenyl	137	51200000	473000	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138		496000	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	4840000	531000	CJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140		531000	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	96900000	563000	
2,2',3,4,5,6-Hexachlorobiphenyl	142		623000	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		633000	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	21400000	871000	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		675000	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	51500000	510000	
2,2',3,4',5,6-Hexachlorobiphenyl	147	265000000	512000	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		888000	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		512000	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		646000	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		892000	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		639000	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	381000000	435000	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154	2090000	763000	QJ
2,2',4,4',6,6'-Hexachlorobiphenyl	155		619000	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	54200000	392000	C

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 12 Composite Sample
March 31, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3,3',4,4',5'-Hexachlorobiphenyl	157		392000	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	49600000	379000	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	6500000	398000	
2,3,3',4,5,6-Hexachlorobiphenyl	160		443000	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		413000	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	1570000	397000	J
2,3,3',4',5,6-Hexachlorobiphenyl	163		496000	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		473000	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		452000	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		483000	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	19900000	328000	
2,3',4,4',5',6-Hexachlorobiphenyl	168		435000	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169	854000	387000	J
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	145000000	471000	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	51400000	574000	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	29900000	581000	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		574000	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	171000000	538000	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	7060000	516000	
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	18200000	409000	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	99300000	575000	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	28900000	554000	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	54500000	404000	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	354000000	380000	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		538000	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		522000	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	123000000	515000	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		380000	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		515000	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		413000	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	178000000	487000	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		395000	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	6620000	343000	
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	37000000	415000	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	6940000	405000	Q
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		438000	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		438000	C180
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	95400000	371000	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	42000000	407000	

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 12 Composite Sample
March 31, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	64500000	557000	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	19600000	406000	C
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	112000000	553000	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		553000	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		406000	C197
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	15100000	405000	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	17800000	428000	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	68100000	509000	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		418000	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	3980000	258000	J
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	12100000	440000	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	2160000	397000	J
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	2700000	383000	QJ
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2450000	235000	QJ
	TOTAL	**5045489000**		

Notes:

Data has been validated by SECOR personnel.

B = The analyte was detected in the method, field and/or trip blank.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Q = Estimated maximum possible concentration.

pg/kg = Picograms per kilogram.

Analytical data validated by SECOR personnel

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
13-B
April 1, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2-Chlorobiphenyl	1		23800	U
3-Chlorobiphenyl	2		21800	U
4-Chlorobiphenyl	3		18900	U
2,2'-Dichlorobiphenyl	4		291000	U
2,3-Dichlorobiphenyl	5	218000	182000	QJ
2,3'-Dichlorobiphenyl	6		167000	U
2,4-Dichlorobiphenyl	7		174000	U
2,4'-Dichlorobiphenyl	8		280000	QUJB
2,5-Dichlorobiphenyl	9	198000	175000	QJ
2,6-Dichlorobiphenyl	10		181000	U
3,3'-Dichlorobiphenyl	11	147000	175000	QJ
3,4-Dichlorobiphenyl	12		169000	U
3,4'-Dichlorobiphenyl	13		169000	U
3,5-Dichlorobiphenyl	14		167000	U
4,4'-Dichlorobiphenyl	15		135000	QBJ
2,2',3-Trichlorobiphenyl	16		143000	U
2,2',4-Trichlorobiphenyl	17	176000	115000	QJ
2,2',5-Trichlorobiphenyl	18		95300	U
2,2',6-Trichlorobiphenyl	19		124000	U
2,3,3'-Trichlorobiphenyl	20		42200	QBCJ
2,3,4-Trichlorobiphenyl	21		43700	BCJ
2,3,4'-Trichlorobiphenyl	22	315000	45800	QJ
2,3,5-Trichlorobiphenyl	23		46900	U
2,3,6-Trichlorobiphenyl	24		83600	U
2,3',4-Trichlorobiphenyl	25		39700	U
2,3',5-Trichlorobiphenyl	26	115000	43800	QCJ
2,3',6-Trichlorobiphenyl	27		81400	U
2,4,4'-Trichlorobiphenyl	28		42200	C20
2,4,5-Trichlorobiphenyl	29		43800	C26
2,4,6-Trichlorobiphenyl	30		95300	U
2,4',5-Trichlorobiphenyl	31		43100	BJ
2,4',6-Trichlorobiphenyl	32	152000	74700	QJ
2,3',4'-Trichlorobiphenyl	33		43700	C21
2,3',5'-Trichlorobiphenyl	34		45500	U
3,3',4-Trichlorobiphenyl	35		45200	U
3,3',5-Trichlorobiphenyl	36		42200	U
3,4,4'-Trichlorobiphenyl	37	535000	37700	J
3,4,5-Trichlorobiphenyl	38		43300	U
3,4',5-Trichlorobiphenyl	39		40000	U

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
13-B
April 1, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	946000	75800	CJ
2,2',3,4-Tetrachlorobiphenyl	41		75800	C40
2,2',3,4'-Tetrachlorobiphenyl	42	356000	84000	QJ
2,2',3,5-Tetrachlorobiphenyl	43		69400	U
2,2',3,5'-Tetrachlorobiphenyl	44		68300	BCJ
2,2',3,6-Tetrachlorobiphenyl	45	238000	79200	QCJ
2,2',3,6'-Tetrachlorobiphenyl	46		92400	U
2,2',4,4'-Tetrachlorobiphenyl	47		68300	C44J
2,2',4,5-Tetrachlorobiphenyl	48	224000	75800	QJ
2,2',4,5'-Tetrachlorobiphenyl	49		64800	BCJ
2,2',4,6-Tetrachlorobiphenyl	50	178000	76300	QCJ
2,2',4,6'-Tetrachlorobiphenyl	51		79200	C45
2,2',5,5'-Tetrachlorobiphenyl	52		72700	BJ
2,2',5,6'-Tetrachlorobiphenyl	53		76300	C50
2,2',6,6'-Tetrachlorobiphenyl	54		115000	U
2,3,3',4-Tetrachlorobiphenyl	55		57200	U
2,3,3',4'-Tetrachlorobiphenyl	56	1380000	56300	
2,3,3',5-Tetrachlorobiphenyl	57		56200	U
2,3,3',5'-Tetrachlorobiphenyl	58		54900	U
2,3,3',6-Tetrachlorobiphenyl	59		55200	U
2,3,4,4'-Tetrachlorobiphenyl	60	520000	55400	J
2,3,4,5-Tetrachlorobiphenyl	61		53000	BCJ
2,3,4,6-Tetrachlorobiphenyl	62		55200	U
2,3,4',5-Tetrachlorobiphenyl	63		52600	U
2,3,4',6-Tetrachlorobiphenyl	64		55000	BJ
2,3,5,6-Tetrachlorobiphenyl	65		68300	C44
2,3',4,4'-Tetrachlorobiphenyl	66		52200	B
2,3',4,5-Tetrachlorobiphenyl	67		48900	U
2,3',4,5'-Tetrachlorobiphenyl	68		50800	U
2,3',4,6-Tetrachlorobiphenyl	69		64800	C49
2,3',4',5-Tetrachlorobiphenyl	70		53000	C61J
2,3',4',6-Tetrachlorobiphenyl	71		75800	C40
2,3',5,5'-Tetrachlorobiphenyl	72		54100	U
2,3',5',6-Tetrachlorobiphenyl	73		69400	U
2,4,4',5-Tetrachlorobiphenyl	74		53000	C61J
2,4,4',6-Tetrachlorobiphenyl	75		55200	U
2,3',4',5'-Tetrachlorobiphenyl	76		53000	C61J
3,3',4,4'-Tetrachlorobiphenyl	77	572000	48800	J
3,3',4,5-Tetrachlorobiphenyl	78		54100	U

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
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April 1, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
3,3',4,5'-Tetrachlorobiphenyl	79	114000	45700	QJ
3,3',5,5'-Tetrachlorobiphenyl	80		48600	U
3,4,4',5-Tetrachlorobiphenyl	81		45300	U
2,2',3,3',4-Pentachlorobiphenyl	82	1570000	135000	
2,2',3,3',5-Pentachlorobiphenyl	83	537000	140000	QJ
2,2',3,3',6-Pentachlorobiphenyl	84	1940000	137000	
2,2',3,4,4'-Pentachlorobiphenyl	85	1960000	96900	C
2,2',3,4,5-Pentachlorobiphenyl	86	6310000	97200	C
2,2',3,4,5'-Pentachlorobiphenyl	87		97200	C86
2,2',3,4,6-Pentachlorobiphenyl	88	726000	121000	QCJ
2,2',3,4,6'-Pentachlorobiphenyl	89		131000	U
2,2',3,4',5-Pentachlorobiphenyl	90		101000	BC
2,2',3,4',6-Pentachlorobiphenyl	91		121000	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	2410000	123000	
2,2',3,5,6-Pentachlorobiphenyl	93		118000	U
2,2',3,5,6'-Pentachlorobiphenyl	94		129000	U
2,2',3,5',6-Pentachlorobiphenyl	95	8760000	118000	J
2,2',3,6,6'-Pentachlorobiphenyl	96		90000	UJ
2,2',3,4',5'-Pentachlorobiphenyl	97		97200	C86J
2,2',3,4',6'-Pentachlorobiphenyl	98		120000	UJ
2,2',4,4',5-Pentachlorobiphenyl	99	3740000	96400	CJ
2,2',4,4',6-Pentachlorobiphenyl	100		118000	UJ
2,2',4,5,5'-Pentachlorobiphenyl	101		101000	C90J
2,2',4,5,6'-Pentachlorobiphenyl	102		120000	UJ
2,2',4,5',6-Pentachlorobiphenyl	103		111000	UJ
2,2',4,6,6'-Pentachlorobiphenyl	104		87400	UJ
2,3,3',4,4'-Pentachlorobiphenyl	105	5790000	53400	J
2,3,3',4,5-Pentachlorobiphenyl	106		59100	UJ
2,3,3',4',5-Pentachlorobiphenyl	107	536000	58200	QCJ
2,3,3',4,5'-Pentachlorobiphenyl	108		97200	C86J
2,3,3',4,6-Pentachlorobiphenyl	109	811000	52300	QJ
2,3,3',4',6-Pentachlorobiphenyl	110	19000000	85800	C
2,3,3',5,5'-Pentachlorobiphenyl	111		82500	U
2,3,3',5,6-Pentachlorobiphenyl	112		96400	C99
2,3,3',5',6-Pentachlorobiphenyl	113		101000	C90
2,3,4,4',5-Pentachlorobiphenyl	114	245000	47100	QJ
2,3,4,4',6-Pentachlorobiphenyl	115		85800	C110
2,3,4,5,6-Pentachlorobiphenyl	116		96900	C85
2,3,4',5,6-Pentachlorobiphenyl	117		96900	C85

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
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April 1, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118	11300000	50200	
2,3',4,4',6-Pentachlorobiphenyl	119		97200	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		79400	U
2,3',4,5',6-Pentachlorobiphenyl	121		86400	U
2,3,3',4',5'-Pentachlorobiphenyl	122	237000	61300	J
2,3',4,4',5'-Pentachlorobiphenyl	123	188000	48400	QJ
2,3',4',5,5'-Pentachlorobiphenyl	124		58200	C108
2,3',4',5',6-Pentachlorobiphenyl	125		97200	C86J
3,3',4,4',5-Pentachlorobiphenyl	126	256000	60200	QJ
3,3',4,5,5'-Pentachlorobiphenyl	127		54200	UJ
2,2',3,3',4,4'-Hexachlorobiphenyl	128	5750000	102000	CJ
2,2',3,3',4,5-Hexachlorobiphenyl	129	72000000	104000	CJ
2,2',3,3',4,5'-Hexachlorobiphenyl	130	2610000	133000	J
2,2',3,3',4,6-Hexachlorobiphenyl	131	400000	133000	QJ
2,2',3,3',4,6'-Hexachlorobiphenyl	132	17300000	130000	J
2,2',3,3',5,5'-Hexachlorobiphenyl	133	812000	122000	J
2,2',3,3',5,6-Hexachlorobiphenyl	134	2330000	133000	CJ
2,2',3,3',5,6'-Hexachlorobiphenyl	135	24400000	188000	CJ
2,2',3,3',6,6'-Hexachlorobiphenyl	136	7220000	139000	J
2,2',3,4,4',5-Hexachlorobiphenyl	137	6740000	99600	CJ
2,2',3,4,4',5'-Hexachlorobiphenyl	138		104000	C129J
2,2',3,4,4',6-Hexachlorobiphenyl	139	370000	112000	CJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140		112000	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	18600000	119000	
2,2',3,4,5,6-Hexachlorobiphenyl	142		131000	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		133000	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	3750000	183000	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		142000	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	8840000	107000	
2,2',3,4',5,6-Hexachlorobiphenyl	147	50800000	108000	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		187000	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		108000	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		136000	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		188000	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		134000	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	68100000	91600	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154		161000	U
2,2',4,4',6,6'-Hexachlorobiphenyl	155		130000	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	4690000	83200	C

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
13-B
April 1, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3,3',4,4',5'-Hexachlorobiphenyl	157		83200	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	6480000	79800	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	1490000	83700	
2,3,3',4,5,6-Hexachlorobiphenyl	160		93200	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		86900	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	234000	83600	J
2,3,3',4',5,6-Hexachlorobiphenyl	163		104000	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		99600	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		95100	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		102000	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	2540000	68200	
2,3',4,4',5',6-Hexachlorobiphenyl	168		91600	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		81200	UJ
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	27900000	100000	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	11000000	126000	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	6900000	128000	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		126000	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	36600000	118000	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	1480000	113000	
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	4060000	89700	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	21500000	126000	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	6440000	122000	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	12100000	88700	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	71900000	88800	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		118000	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		115000	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	25000000	113000	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		83400	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		113000	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		90700	UJ
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	40400000	107000	J
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		86700	UJ
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	1300000	73500	J
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	7830000	91000	J
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	1510000	89000	QJ
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		96100	UJ
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		96200	C180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	17700000	96800	J
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	7960000	106000	J

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
13-B
April 1, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	12700000	145000	J
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	4070000	106000	CJ
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	22800000	144000	CJ
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		144000	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		106000	C197J
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	2670000	106000	J
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	3450000	112000	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	13800000	133000	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		109000	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	796000	67400	J
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	2670000	116000	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	525000	104000	J
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	619000	101000	QJ
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	1240000	85300	J
	TOTAL	745076000		

Notes:

Data has been validated by SECOR personnel.

B = The analyte was detected in the method, field and/or trip blank.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Q = Estimated maximum possible concentration.

pg/kg = Picograms per kilogram.

Analytical data validated by SECOR personnel

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 15 Composite Sample
April 5, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2-Chlorobiphenyl	1		24100	U
3-Chlorobiphenyl	2		22000	U
4-Chlorobiphenyl	3		19100	U
2,2'-Dichlorobiphenyl	4	774000	266000	QJ
2,3-Dichlorobiphenyl	5	108000	166000	QJ
2,3'-Dichlorobiphenyl	6	850000	153000	QJ
2,4-Dichlorobiphenyl	7	289000	159000	QJ
2,4'-Dichlorobiphenyl	8		153000	B
2,5-Dichlorobiphenyl	9	439000	160000	QJ
2,6-Dichlorobiphenyl	10	146000	165000	QJ
3,3'-Dichlorobiphenyl	11		160000	U
3,4-Dichlorobiphenyl	12		154000	QBCJ
3,4'-Dichlorobiphenyl	13		154000	C12
3,5-Dichlorobiphenyl	14		153000	U
4,4'-Dichlorobiphenyl	15		123000	B
2,2',3-Trichlorobiphenyl	16	1580000	132000	
2,2',4-Trichlorobiphenyl	17	1680000	106000	
2,2',5-Trichlorobiphenyl	18		87800	BC
2,2',6-Trichlorobiphenyl	19	314000	115000	J
2,3,3'-Trichlorobiphenyl	20		38900	BC
2,3,4-Trichlorobiphenyl	21		40200	BC
2,3,4'-Trichlorobiphenyl	22		42200	B
2,3,5-Trichlorobiphenyl	23		43200	U
2,3,6-Trichlorobiphenyl	24	109000	77100	J
2,3',4-Trichlorobiphenyl	25	535000	36600	J
2,3',5-Trichlorobiphenyl	26	1220000	40400	C
2,3',6-Trichlorobiphenyl	27	390000	75000	J
2,4,4'-Trichlorobiphenyl	28		38900	C20
2,4,5-Trichlorobiphenyl	29		40400	C26
2,4,6-Trichlorobiphenyl	30		87800	C18
2,4',5-Trichlorobiphenyl	31		39700	B
2,4',6-Trichlorobiphenyl	32	1820000	68800	
2,3',4'-Trichlorobiphenyl	33		40200	C21
2,3',5'-Trichlorobiphenyl	34		42000	U
3,3',4-Trichlorobiphenyl	35	195000	41600	QJ
3,3',5-Trichlorobiphenyl	36		38900	U
3,4,4'-Trichlorobiphenyl	37	6220000	34700	
3,4,5-Trichlorobiphenyl	38		39900	U
3,4',5-Trichlorobiphenyl	39	90000	36900	QJ

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 15 Composite Sample
April 5, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	11400000	77200	C
2,2',3,4-Tetrachlorobiphenyl	41		77200	C40
2,2',3,4'-Tetrachlorobiphenyl	42	5020000	85600	
2,2',3,5-Tetrachlorobiphenyl	43	400000	70700	QCJ
2,2',3,5'-Tetrachlorobiphenyl	44		69600	BC
2,2',3,6-Tetrachlorobiphenyl	45	2020000	80800	C
2,2',3,6'-Tetrachlorobiphenyl	46	473000	94200	J
2,2',4,4'-Tetrachlorobiphenyl	47		69600	C44
2,2',4,5-Tetrachlorobiphenyl	48	3290000	77300	
2,2',4,5'-Tetrachlorobiphenyl	49		66000	BC
2,2',4,6-Tetrachlorobiphenyl	50	1650000	77800	C
2,2',4,6'-Tetrachlorobiphenyl	51		80800	C45
2,2',5,5'-Tetrachlorobiphenyl	52		74100	B
2,2',5,6'-Tetrachlorobiphenyl	53		77800	C50
2,2',6,6'-Tetrachlorobiphenyl	54		117000	U
2,3,3',4-Tetrachlorobiphenyl	55	363000	58300	QJ
2,3,3',4'-Tetrachlorobiphenyl	56	31400000	57400	
2,3,3',5-Tetrachlorobiphenyl	57	71000	57300	QJ
2,3,3',5'-Tetrachlorobiphenyl	58		55900	U
2,3,3',6-Tetrachlorobiphenyl	59	1810000	56300	C
2,3,4,4'-Tetrachlorobiphenyl	60	10800000	56400	
2,3,4,5-Tetrachlorobiphenyl	61		54000	BC
2,3,4,6-Tetrachlorobiphenyl	62		56300	C59
2,3,4',5-Tetrachlorobiphenyl	63	892000	53600	J
2,3,4',6-Tetrachlorobiphenyl	64		56000	B
2,3,5,6-Tetrachlorobiphenyl	65		69600	C44
2,3',4,4'-Tetrachlorobiphenyl	66		53200	B
2,3',4,5-Tetrachlorobiphenyl	67	614000	49900	J
2,3',4,5'-Tetrachlorobiphenyl	68		51800	U
2,3',4,6-Tetrachlorobiphenyl	69		66000	C49
2,3',4',5-Tetrachlorobiphenyl	70		54000	C61
2,3',4',6-Tetrachlorobiphenyl	71		77200	C40
2,3',5,5'-Tetrachlorobiphenyl	72	208000	55100	J
2,3',5',6-Tetrachlorobiphenyl	73		70700	C43
2,4,4',5-Tetrachlorobiphenyl	74		54000	C61
2,4,4',6-Tetrachlorobiphenyl	75		56300	C59
2,3',4',5'-Tetrachlorobiphenyl	76		54000	C61
3,3',4,4'-Tetrachlorobiphenyl	77	8750000	49700	
3,3',4,5-Tetrachlorobiphenyl	78		55100	U

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 15 Composite Sample
April 5, 2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
3,3',4,5'-Tetrachlorobiphenyl	79	1470000	46600	
3,3',5,5'-Tetrachlorobiphenyl	80		49500	U
3,4,4',5-Tetrachlorobiphenyl	81	284000	53300	QJ
2,2',3,3',4-Pentachlorobiphenyl	82	26800000	159000	
2,2',3,3',5-Pentachlorobiphenyl	83	5730000	165000	
2,2',3,3',6-Pentachlorobiphenyl	84	25300000	161000	
2,2',3,4,4'-Pentachlorobiphenyl	85	44000000	114000	C
2,2',3,4,5-Pentachlorobiphenyl	86	111000000	114000	C
2,2',3,4,5'-Pentachlorobiphenyl	87		114000	C86
2,2',3,4,6-Pentachlorobiphenyl	88	12400000	142000	C
2,2',3,4,6'-Pentachlorobiphenyl	89	1190000	153000	
2,2',3,4',5-Pentachlorobiphenyl	90		119000	BC
2,2',3,4',6-Pentachlorobiphenyl	91		142000	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	20300000	144000	
2,2',3,5,6-Pentachlorobiphenyl	93	487000	139000	QCJ
2,2',3,5,6'-Pentachlorobiphenyl	94	329000	152000	QJ
2,2',3,5',6-Pentachlorobiphenyl	95	61200000	139000	
2,2',3,6,6'-Pentachlorobiphenyl	96	317000	106000	J
2,2',3,4',5'-Pentachlorobiphenyl	97		114000	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	2470000	141000	C
2,2',4,4',5-Pentachlorobiphenyl	99	79800000	113000	C
2,2',4,4',6-Pentachlorobiphenyl	100		139000	C93
2,2',4,5,5'-Pentachlorobiphenyl	101		119000	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		141000	C98
2,2',4,5',6-Pentachlorobiphenyl	103	300000	130000	J
2,2',4,6,6'-Pentachlorobiphenyl	104		103000	U
2,3,3',4,4'-Pentachlorobiphenyl	105	135000000	64500	
2,3,3',4,5-Pentachlorobiphenyl	106		69400	U
2,3,3',4',5-Pentachlorobiphenyl	107	9940000	68400	C
2,3,3',4,5'-Pentachlorobiphenyl	108		114000	C86
2,3,3',4,6-Pentachlorobiphenyl	109	15900000	61500	
2,3,3',4',6-Pentachlorobiphenyl	110	226000000	101000	C
2,3,3',5,5'-Pentachlorobiphenyl	111		96800	U
2,3,3',5,6-Pentachlorobiphenyl	112		113000	C99
2,3,3',5',6-Pentachlorobiphenyl	113		119000	C90
2,3,4,4',5-Pentachlorobiphenyl	114	3670000	54700	
2,3,4,4',6-Pentachlorobiphenyl	115		101000	C110
2,3,4,5,6-Pentachlorobiphenyl	116		114000	C85
2,3,4',5,6-Pentachlorobiphenyl	117		114000	C85

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
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4001 Vandever Avenue
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COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118	227000000	59000	
2,3',4,4',6-Pentachlorobiphenyl	119		114000	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		93200	U
2,3',4,5',6-Pentachlorobiphenyl	121		101000	U
2,3,3',4',5'-Pentachlorobiphenyl	122	4610000	72000	
2,3',4,4',5'-Pentachlorobiphenyl	123	4600000	57100	
2,3',4',5,5'-Pentachlorobiphenyl	124		68400	C108
2,3',4',5',6-Pentachlorobiphenyl	125		114000	C86
3,3',4,4',5-Pentachlorobiphenyl	126	1450000	68900	
3,3',4,5,5'-Pentachlorobiphenyl	127		63600	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	56000000	131000	C
2,2',3,3',4,5-Hexachlorobiphenyl	129	339000000	134000	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	17600000	171000	
2,2',3,3',4,6-Hexachlorobiphenyl	131	2890000	172000	
2,2',3,3',4,6'-Hexachlorobiphenyl	132	76100000	167000	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	3250000	158000	
2,2',3,3',5,6-Hexachlorobiphenyl	134	10100000	172000	C
2,2',3,3',5,6'-Hexachlorobiphenyl	135	73100000	242000	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	22300000	179000	
2,2',3,4,4',5-Hexachlorobiphenyl	137	38700000	128000	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138		134000	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	3700000	144000	C
2,2',3,4,4',6'-Hexachlorobiphenyl	140		144000	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	55600000	153000	
2,2',3,4,5,6-Hexachlorobiphenyl	142		169000	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		172000	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	11000000	236000	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		183000	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	33200000	138000	
2,2',3,4',5,6-Hexachlorobiphenyl	147	159000000	139000	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		241000	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		139000	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		175000	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		242000	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		173000	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	233000000	118000	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1540000	207000	
2,2',4,4',6,6'-Hexachlorobiphenyl	155		168000	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	42500000	108000	C

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
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COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3,3',4,4',5'-Hexachlorobiphenyl	157		108000	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	35100000	103000	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	3300000	108000	
2,3,3',4,5,6-Hexachlorobiphenyl	160		120000	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		112000	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	1500000	108000	
2,3,3',4',5,6-Hexachlorobiphenyl	163		134000	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		128000	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		122000	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		131000	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	13800000	85900	
2,3',4,4',5',6-Hexachlorobiphenyl	168		118000	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169	188000	106000	QJ
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	68300000	94200	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	26200000	120000	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	15500000	122000	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		120000	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	86800000	113000	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	3380000	108000	
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	9620000	85800	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	48600000	121000	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	15700000	116000	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	28800000	84700	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	158000000	76700	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181	585000	113000	QJ
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182	476000	109000	QJ
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	59000000	108000	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		79700	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		108000	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		86700	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	97500000	102000	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		82900	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	3710000	76300	
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	18500000	87000	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	3790000	85000	
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		91800	UJ
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		92000	C180 J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	44200000	111000	J
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	21700000	122000	J

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
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Amtrak Former Fueling Facility
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COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	33800000	167000	J
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	10100000	122000	CJ
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	64000000	166000	CJ
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		166000	C197 J
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		122000	J
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	7120000	122000	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	9640000	129000	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	43400000	153000	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		125000	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	2120000	77600	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	6590000	122000	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	1340000	110000	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	1930000	106000	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	1690000	88200	QJ

TOTAL 3,242,026,000

Notes:

B = Analyte is present in the associated method blank at a reportable level.

This table does not include results with a B value

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/kg = Picograms per kilogram.

Analytical data validated by SECOR personnel

P:\Clients\Amtrak-APU\Phase 2 RI Laboratory Data\Attachments\Attachment G\[upland areas PCB cong results validated.xls]15 comp wo B validated

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
16-M
5/25/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2-Chlorobiphenyl	1	52900	19400	QJ
3-Chlorobiphenyl	2		17800	U
4-Chlorobiphenyl	3		15400	U
2,2'-Dichlorobiphenyl	4	951000	246000	QJ
2,3-Dichlorobiphenyl	5		153000	U
2,3'-Dichlorobiphenyl	6		141000	U
2,4-Dichlorobiphenyl	7	145000	147000	QJR
2,4'-Dichlorobiphenyl	8		275500	QJB
2,5-Dichlorobiphenyl	9		148000	U
2,6-Dichlorobiphenyl	10		153000	U
3,3'-Dichlorobiphenyl	11	276000	147000	QJ
3,4-Dichlorobiphenyl	12		142000	U
3,4'-Dichlorobiphenyl	13		142000	U
3,5-Dichlorobiphenyl	14		141000	U
4,4'-Dichlorobiphenyl	15		249500	QBJ
2,2',3-Trichlorobiphenyl	16	254000	120000	QJ
2,2',4-Trichlorobiphenyl	17	618000	97000	J
2,2',5-Trichlorobiphenyl	18	381000	80100	QCJ
2,2',6-Trichlorobiphenyl	19	710000	105000	J
2,3,3'-Trichlorobiphenyl	20		153500	QBC
2,3,4-Trichlorobiphenyl	21		76500	CJB
2,3,4'-Trichlorobiphenyl	22	470000	38500	J
2,3,5-Trichlorobiphenyl	23		39400	U
2,3,6-Trichlorobiphenyl	24		70300	U
2,3',4-Trichlorobiphenyl	25	161000	33400	J
2,3',5-Trichlorobiphenyl	26	298000	36800	CJ
2,3',6-Trichlorobiphenyl	27	145000	68500	QJ
2,4,4'-Trichlorobiphenyl	28		153500	C20
2,4,5-Trichlorobiphenyl	29		36800	C26
2,4,6-Trichlorobiphenyl	30		80100	C18
2,4',5-Trichlorobiphenyl	31		136000	BJ
2,4',6-Trichlorobiphenyl	32	713000	62800	J
2,3',4'-Trichlorobiphenyl	33		76500	C21B
2,3',5'-Trichlorobiphenyl	34		38300	U
3,3',4-Trichlorobiphenyl	35	110000	38000	QJ
3,3',5-Trichlorobiphenyl	36		35500	U
3,4,4'-Trichlorobiphenyl	37	738000	31700	J
3,4,5-Trichlorobiphenyl	38		36400	U
3,4',5-Trichlorobiphenyl	39		33700	U

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4001 Vandever Avenue
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COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	2150000	88200	QC
2,2',3,4-Tetrachlorobiphenyl	41		88200	C40J
2,2',3,4'-Tetrachlorobiphenyl	42	825000	97800	J
2,2',3,5-Tetrachlorobiphenyl	43	265000	80800	QCJ
2,2',3,5'-Tetrachlorobiphenyl	44	8590000	79500	C
2,2',3,6-Tetrachlorobiphenyl	45	3790000	92200	C
2,2',3,6'-Tetrachlorobiphenyl	46		108000	U
2,2',4,4'-Tetrachlorobiphenyl	47		79500	C44
2,2',4,5-Tetrachlorobiphenyl	48	356000	88200	J
2,2',4,5'-Tetrachlorobiphenyl	49	4320000	75400	C
2,2',4,6-Tetrachlorobiphenyl	50	1810000	88800	C
2,2',4,6'-Tetrachlorobiphenyl	51		92200	C45
2,2',5,5'-Tetrachlorobiphenyl	52		192000	JB
2,2',5,6'-Tetrachlorobiphenyl	53		88800	C50
2,2',6,6'-Tetrachlorobiphenyl	54	311000	134000	QJ
2,3,3',4-Tetrachlorobiphenyl	55		66500	U
2,3,3',4'-Tetrachlorobiphenyl	56	3770000	65600	
2,3,3',5-Tetrachlorobiphenyl	57		65400	U
2,3,3',5'-Tetrachlorobiphenyl	58		63900	U
2,3,3',6-Tetrachlorobiphenyl	59	362000	64300	QCJ
2,3,4,4'-Tetrachlorobiphenyl	60	1560000	64500	
2,3,4,5-Tetrachlorobiphenyl	61		61700	BCJ
2,3,4,6-Tetrachlorobiphenyl	62		64300	C59
2,3,4',5-Tetrachlorobiphenyl	63	162000	61200	QJ
2,3,4',6-Tetrachlorobiphenyl	64	1430000	64000	
2,3,5,6-Tetrachlorobiphenyl	65		79500	C44
2,3',4,4'-Tetrachlorobiphenyl	66	7860000	60800	
2,3',4,5-Tetrachlorobiphenyl	67	143000	57000	QJ
2,3',4,5'-Tetrachlorobiphenyl	68	146000	59200	QJ
2,3',4,6-Tetrachlorobiphenyl	69		75400	C49
2,3',4',5-Tetrachlorobiphenyl	70		61700	C61J
2,3',4',6-Tetrachlorobiphenyl	71		88200	C40
2,3',5,5'-Tetrachlorobiphenyl	72	112000	63000	QJR
2,3',5',6-Tetrachlorobiphenyl	73		80800	C43
2,4,4',5-Tetrachlorobiphenyl	74		61700	C61JB
2,4,4',6-Tetrachlorobiphenyl	75		64300	C59
2,3',4',5'-Tetrachlorobiphenyl	76		61700	C61JB
3,3',4,4'-Tetrachlorobiphenyl	77	2760000	56800	
3,3',4,5-Tetrachlorobiphenyl	78		62900	U

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
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COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
3,3',4,5'-Tetrachlorobiphenyl	79	299000	53200	QJ
3,3',5,5'-Tetrachlorobiphenyl	80		56600	U
3,4,4',5-Tetrachlorobiphenyl	81	85500	60000	QJ
2,2',3,3',4-Pentachlorobiphenyl	82	5230000	180000	
2,2',3,3',5-Pentachlorobiphenyl	83	1520000	186000	QJ
2,2',3,3',6-Pentachlorobiphenyl	84	5300000	182000	
2,2',3,4,4'-Pentachlorobiphenyl	85	7400000	129000	C
2,2',3,4,5-Pentachlorobiphenyl	86	21800000	129000	QCJ
2,2',3,4,5'-Pentachlorobiphenyl	87		129000	C86
2,2',3,4,6-Pentachlorobiphenyl	88	3120000	160000	QC
2,2',3,4,6'-Pentachlorobiphenyl	89		173000	U
2,2',3,4',5-Pentachlorobiphenyl	90	37000000	134000	C
2,2',3,4',6-Pentachlorobiphenyl	91		160000	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	5840000	163000	
2,2',3,5,6-Pentachlorobiphenyl	93	2030000	157000	C
2,2',3,5,6'-Pentachlorobiphenyl	94	310000	171000	QJ
2,2',3,5',6-Pentachlorobiphenyl	95	18000000	157000	
2,2',3,6,6'-Pentachlorobiphenyl	96		119000	U
2,2',3,4',5'-Pentachlorobiphenyl	97		129000	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	890000	160000	QCJ
2,2',4,4',5-Pentachlorobiphenyl	99	14400000	128000	C
2,2',4,4',6-Pentachlorobiphenyl	100		157000	C93
2,2',4,5,5'-Pentachlorobiphenyl	101		134000	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		160000	C98
2,2',4,5',6-Pentachlorobiphenyl	103	781000	147000	J
2,2',4,6,6'-Pentachlorobiphenyl	104	241000	116000	QJ
2,3,3',4,4'-Pentachlorobiphenyl	105	27900000	66800	
2,3,3',4,5-Pentachlorobiphenyl	106		78500	U
2,3,3',4',5-Pentachlorobiphenyl	107	4250000	69500	
2,3,3',4,5'-Pentachlorobiphenyl	108	2090000	77300	QC
2,3,3',4,6-Pentachlorobiphenyl	109		129000	C86
2,3,3',4',6-Pentachlorobiphenyl	110	50800000	114000	C
2,3,3',5,5'-Pentachlorobiphenyl	111		109000	U
2,3,3',5,6-Pentachlorobiphenyl	112		128000	C99
2,3,3',5',6-Pentachlorobiphenyl	113		134000	C90
2,3,4,4',5-Pentachlorobiphenyl	114	1210000	60600	J
2,3,4,4',6-Pentachlorobiphenyl	115		114000	C110
2,3,4,5,6-Pentachlorobiphenyl	116		129000	C85
2,3,4',5,6-Pentachlorobiphenyl	117		129000	C85

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
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COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118	48300000	71500	
2,3',4,4',6-Pentachlorobiphenyl	119		129000	C86
2,3',4,5,5'-Pentachlorobiphenyl	120	307000	105000	QJR
2,3',4,5',6-Pentachlorobiphenyl	121		115000	U
2,3,3',4',5'-Pentachlorobiphenyl	122	1090000	81400	J
2,3',4,4',5'-Pentachlorobiphenyl	123	811000	63800	J
2,3',4',5,5'-Pentachlorobiphenyl	124		77300	C108J
2,3',4',5',6-Pentachlorobiphenyl	125		129000	C86
3,3',4,4',5-Pentachlorobiphenyl	126	1130000	82300	QJ
3,3',4,5,5'-Pentachlorobiphenyl	127		71900	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	17400000	138000	C
2,2',3,3',4,5-Hexachlorobiphenyl	129	136000000	141000	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	6710000	179000	
2,2',3,3',4,6-Hexachlorobiphenyl	131	1010000	181000	J
2,2',3,3',4,6'-Hexachlorobiphenyl	132	32400000	176000	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	1300000	166000	QJ
2,2',3,3',5,6-Hexachlorobiphenyl	134	4390000	181000	C
2,2',3,3',5,6'-Hexachlorobiphenyl	135	39500000	254000	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	10500000	188000	
2,2',3,4,4',5-Hexachlorobiphenyl	137	14100000	135000	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138		141000	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	1440000	151000	C
2,2',3,4,4',6'-Hexachlorobiphenyl	140		151000	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	28100000	161000	
2,2',3,4,5,6-Hexachlorobiphenyl	142		178000	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		181000	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	5580000	248000	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		192000	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	18800000	145000	
2,2',3,4',5,6-Hexachlorobiphenyl	147	91200000	146000	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		253000	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		146000	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		184000	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		254000	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		182000	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153		124000	BCJ
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1560000	217000	
2,2',4,4',6,6'-Hexachlorobiphenyl	155		176000	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	13100000	112000	C

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
16-M
5/25/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3,3',4,4',5'-Hexachlorobiphenyl	157		112000	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	13600000	108000	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	2290000	113000	J
2,3,3',4,5,6-Hexachlorobiphenyl	160		126000	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		118000	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	607000	113000	J
2,3,3',4',5,6-Hexachlorobiphenyl	163		141000	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		135000	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		129000	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		138000	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	5860000	91300	
2,3',4,4',5',6-Hexachlorobiphenyl	168		124000	C153JB
3,3',4,4',5,5'-Hexachlorobiphenyl	169		113000	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	51700000	117000	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	17500000	146000	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	11600000	148000	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		146000	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	57200000	137000	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	2670000	131000	
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	6000000	104000	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	34100000	147000	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	10500000	141000	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	17600000	103000	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	123000000	96300	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181	303000	137000	QJ
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182	563000	133000	J
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	38400000	131000	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		96800	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		131000	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		105000	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	62700000	124000	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	107000	101000	QJ
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	2700000	89400	
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	13500000	106000	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	3000000	103000	
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		112000	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		112000	C180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	38200000	124000	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	15800000	136000	

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
16-M
5/25/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	23600000	186000	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	6730000	135000	C
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	43400000	184000	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		184000	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		135000	C197
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	4820000	135000	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	6050000	143000	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	26600000	170000	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		139000	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	1760000	86100	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	5530000	105000	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	992000	94500	J
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	1260000	91000	QJ
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	1120000	44300	J

TOTAL 1,383,331,400

Notes:

Data has been validated by SECOR personnel.

B = The analyte was detected in the method, field and/or trip blank.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Q = Estimated maximum possible concentration.

pg/kg = Picograms per kilogram.

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 16 Composite Sample
5/27/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2-Chlorobiphenyl	1		31400	U
3-Chlorobiphenyl	2		28800	U
4-Chlorobiphenyl	3		25000	U
2,2'-Dichlorobiphenyl	4	676000	261000	QJ
2,3-Dichlorobiphenyl	5		163000	U
2,3'-Dichlorobiphenyl	6	265000	149000	QJR
2,4-Dichlorobiphenyl	7		156000	U
2,4'-Dichlorobiphenyl	8		150000	QJB
2,5-Dichlorobiphenyl	9	165000	157000	QJR
2,6-Dichlorobiphenyl	10		162000	U
3,3'-Dichlorobiphenyl	11		156000	QUJB
3,4-Dichlorobiphenyl	12		151000	QBCJ
3,4'-Dichlorobiphenyl	13		151000	C12QJB
3,5-Dichlorobiphenyl	14		150000	JB
4,4'-Dichlorobiphenyl	15		121000	QJB
2,2',3-Trichlorobiphenyl	16	2210000	174000	
2,2',4-Trichlorobiphenyl	17	1470000	140000	J
2,2',5-Trichlorobiphenyl	18	3440000	116000	C
2,2',6-Trichlorobiphenyl	19	699000	151000	J
2,3,3'-Trichlorobiphenyl	20		51300	JBC
2,3,4-Trichlorobiphenyl	21	1360000	53100	QC
2,3,4'-Trichlorobiphenyl	22	1070000	55700	J
2,3,5-Trichlorobiphenyl	23		57000	U
2,3,6-Trichlorobiphenyl	24		102000	U
2,3',4-Trichlorobiphenyl	25	221000	48300	QJ
2,3',5-Trichlorobiphenyl	26	452000	53300	CJ
2,3',6-Trichlorobiphenyl	27	273000	99000	J
2,4,4'-Trichlorobiphenyl	28		51300	C20JB
2,4,5-Trichlorobiphenyl	29		53300	C26
2,4,6-Trichlorobiphenyl	30		116000	C18
2,4',5-Trichlorobiphenyl	31		52400	JB
2,4',6-Trichlorobiphenyl	32	1090000	90800	QJ
2,3',4'-Trichlorobiphenyl	33		53100	C21J
2,3',5'-Trichlorobiphenyl	34		55400	U
3,3',4-Trichlorobiphenyl	35		54900	U
3,3',5-Trichlorobiphenyl	36		51300	U
3,4,4'-Trichlorobiphenyl	37	1110000	45800	J
3,4,5-Trichlorobiphenyl	38		52600	U
3,4',5-Trichlorobiphenyl	39		48700	U

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 16 Composite Sample
5/27/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	5040000	106000	QC
2,2',3,4-Tetrachlorobiphenyl	41		106000	C40J
2,2',3,4'-Tetrachlorobiphenyl	42	2560000	118000	
2,2',3,5-Tetrachlorobiphenyl	43		97100	U
2,2',3,5'-Tetrachlorobiphenyl	44	10700000	95600	QC
2,2',3,6-Tetrachlorobiphenyl	45	1610000	111000	C
2,2',3,6'-Tetrachlorobiphenyl	46	501000	129000	QJ
2,2',4,4'-Tetrachlorobiphenyl	47		95600	C44
2,2',4,5-Tetrachlorobiphenyl	48	838000	106000	J
2,2',4,5'-Tetrachlorobiphenyl	49	6890000	90700	C
2,2',4,6-Tetrachlorobiphenyl	50	1580000	107000	C
2,2',4,6'-Tetrachlorobiphenyl	51		111000	C45
2,2',5,5'-Tetrachlorobiphenyl	52	12100000	102000	
2,2',5,6'-Tetrachlorobiphenyl	53		107000	C50
2,2',6,6'-Tetrachlorobiphenyl	54		161000	U
2,3,3',4-Tetrachlorobiphenyl	55		80000	U
2,3,3',4'-Tetrachlorobiphenyl	56	4890000	78800	
2,3,3',5-Tetrachlorobiphenyl	57		78700	U
2,3,3',5'-Tetrachlorobiphenyl	58		76800	U
2,3,3',6-Tetrachlorobiphenyl	59	508000	77300	CJ
2,3,4,4'-Tetrachlorobiphenyl	60	1820000	77500	
2,3,4,5-Tetrachlorobiphenyl	61		74200	BC
2,3,4,6-Tetrachlorobiphenyl	62		77300	C59
2,3,4',5-Tetrachlorobiphenyl	63	320000	73600	J
2,3,4',6-Tetrachlorobiphenyl	64	2810000	77000	
2,3,5,6-Tetrachlorobiphenyl	65		95600	C44
2,3',4,4'-Tetrachlorobiphenyl	66	13900000	73100	
2,3',4,5-Tetrachlorobiphenyl	67	137000	68500	QJ
2,3',4,5'-Tetrachlorobiphenyl	68	191000	71200	QJ
2,3',4,6-Tetrachlorobiphenyl	69		90700	C49
2,3',4',5-Tetrachlorobiphenyl	70		74200	C61
2,3',4',6-Tetrachlorobiphenyl	71		106000	C40
2,3',5,5'-Tetrachlorobiphenyl	72	281000	75700	J
2,3',5',6-Tetrachlorobiphenyl	73		97100	U
2,4,4',5-Tetrachlorobiphenyl	74		74200	C61
2,4,4',6-Tetrachlorobiphenyl	75		77300	C59
2,3',4',5'-Tetrachlorobiphenyl	76		74200	J
3,3',4,4'-Tetrachlorobiphenyl	77	2050000	68300	
3,3',4,5-Tetrachlorobiphenyl	78		75700	U

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 16 Composite Sample
5/27/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
3,3',4,5'-Tetrachlorobiphenyl	79	360000	63900	QJ
3,3',5,5'-Tetrachlorobiphenyl	80		68000	U
3,4,4',5-Tetrachlorobiphenyl	81		69000	U
2,2',3,3',4-Pentachlorobiphenyl	82	7230000	208000	
2,2',3,3',5-Pentachlorobiphenyl	83	2230000	215000	QJ
2,2',3,3',6-Pentachlorobiphenyl	84	9370000	210000	
2,2',3,4,4'-Pentachlorobiphenyl	85	10100000	149000	C
2,2',3,4,5-Pentachlorobiphenyl	86	32700000	149000	C
2,2',3,4,5'-Pentachlorobiphenyl	87		149000	C86J
2,2',3,4,6-Pentachlorobiphenyl	88	5660000	185000	C
2,2',3,4,6'-Pentachlorobiphenyl	89		200000	U
2,2',3,4',5-Pentachlorobiphenyl	90	54400000	155000	C
2,2',3,4',6-Pentachlorobiphenyl	91		185000	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	9740000	188000	
2,2',3,5,6-Pentachlorobiphenyl	93	505000	181000	CJ
2,2',3,5,6'-Pentachlorobiphenyl	94	297000	198000	QJ
2,2',3,5',6-Pentachlorobiphenyl	95	30100000	182000	J
2,2',3,6,6'-Pentachlorobiphenyl	96		138000	U
2,2',3,4',5'-Pentachlorobiphenyl	97		149000	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	977000	185000	CJ
2,2',4,4',5-Pentachlorobiphenyl	99	22600000	148000	C
2,2',4,4',6-Pentachlorobiphenyl	100		181000	C93
2,2',4,5,5'-Pentachlorobiphenyl	101		155000	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		185000	C98
2,2',4,5',6-Pentachlorobiphenyl	103	354000	170000	J
2,2',4,6,6'-Pentachlorobiphenyl	104		134000	U
2,3,3',4,4'-Pentachlorobiphenyl	105	30600000	87400	
2,3,3',4,5-Pentachlorobiphenyl	106		90700	U
2,3,3',4',5-Pentachlorobiphenyl	107	5040000	80300	
2,3,3',4,5'-Pentachlorobiphenyl	108	2730000	89300	C
2,3,3',4,6-Pentachlorobiphenyl	109		149000	C86
2,3,3',4',6-Pentachlorobiphenyl	110	75000000	132000	C
2,3,3',5,5'-Pentachlorobiphenyl	111		127000	U
2,3,3',5,6-Pentachlorobiphenyl	112		148000	C99
2,3,3',5',6-Pentachlorobiphenyl	113		155000	C90
2,3,4,4',5-Pentachlorobiphenyl	114	1160000	70100	
2,3,4,4',6-Pentachlorobiphenyl	115		132000	C110
2,3,4,5,6-Pentachlorobiphenyl	116		149000	C85
2,3,4',5,6-Pentachlorobiphenyl	117		149000	C85

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 16 Composite Sample
5/27/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118	63000000	79700	
2,3',4,4',6-Pentachlorobiphenyl	119		149000	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		122000	U
2,3',4,5',6-Pentachlorobiphenyl	121		133000	U
2,3,3',4',5'-Pentachlorobiphenyl	122	1220000	94100	
2,3',4,4',5'-Pentachlorobiphenyl	123	894000	72100	QJR
2,3',4',5,5'-Pentachlorobiphenyl	124		89300	C108
2,3',4',5',6-Pentachlorobiphenyl	125		149000	C86
3,3',4,4',5-Pentachlorobiphenyl	126	715000	88700	J
3,3',4,5,5'-Pentachlorobiphenyl	127	210000	83100	QJR
2,2',3,3',4,4'-Hexachlorobiphenyl	128	19500000	132000	C
2,2',3,3',4,5-Hexachlorobiphenyl	129	156000000	136000	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	7080000	173000	
2,2',3,3',4,6-Hexachlorobiphenyl	131	1070000	174000	J
2,2',3,3',4,6'-Hexachlorobiphenyl	132	37900000	169000	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	1830000	159000	
2,2',3,3',5,6-Hexachlorobiphenyl	134	5460000	174000	C
2,2',3,3',5,6'-Hexachlorobiphenyl	135	48400000	245000	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	13500000	181000	
2,2',3,4,4',5-Hexachlorobiphenyl	137	15900000	130000	QCJ
2,2',3,4,4',5'-Hexachlorobiphenyl	138		136000	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	1280000	146000	QCJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140		146000	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	34100000	154000	
2,2',3,4,5,6-Hexachlorobiphenyl	142		171000	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		174000	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	7150000	239000	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		185000	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	19500000	140000	
2,2',3,4',5,6-Hexachlorobiphenyl	147	93300000	140000	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		243000	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		140000	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		177000	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		245000	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		175000	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	127000000	119000	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1050000	209000	J
2,2',4,4',6,6'-Hexachlorobiphenyl	155		170000	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	14900000	110000	C

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
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5/27/2005
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4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,3,3',4,4',5'-Hexachlorobiphenyl	157		110000	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	15400000	104000	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	2200000	109000	
2,3,3',4,5,6-Hexachlorobiphenyl	160		121000	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		113000	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	414000	109000	QJ
2,3,3',4',5,6-Hexachlorobiphenyl	163		136000	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		130000	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		124000	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		132000	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	6390000	90700	
2,3',4,4',5',6-Hexachlorobiphenyl	168		119000	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169	173000	101000	QJ
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	52100000	115000	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	18400000	148000	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	12000000	150000	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		148000	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	61800000	139000	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	2640000	133000	
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	6300000	106000	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	35800000	149000	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	10500000	143000	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	19400000	105000	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	132000000	100000	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181	318000	139000	QJ
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182	318000	135000	QJ
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	41000000	133000	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		98300	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		133000	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		107000	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	66000000	126000	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		102000	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	2800000	90900	
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	13500000	107000	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	3150000	105000	
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		113000	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		113000	C180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	34800000	107000	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	13800000	117000	

Upland (Subdrainage) Areas Surface Soil Sample PCB Congener Results
Area 16 Composite Sample
5/27/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/kg)	Detection Limit (pg/kg)	Data Qualifier
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	22000000	161000	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	6100000	117000	C
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	41700000	160000	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		160000	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		117000	C197
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	4590000	117000	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	5560000	124000	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	24000000	147000	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		121000	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	1440000	74600	QJ
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	4910000	131000	J
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	905000	118000	J
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	1020000	114000	J
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	493000	77400	QJ
	TOTAL	**1,719,260,000**		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

This table does not include results with a B value

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/kg = Picograms per kilogram.

Analytical data validated by SECOR personnel

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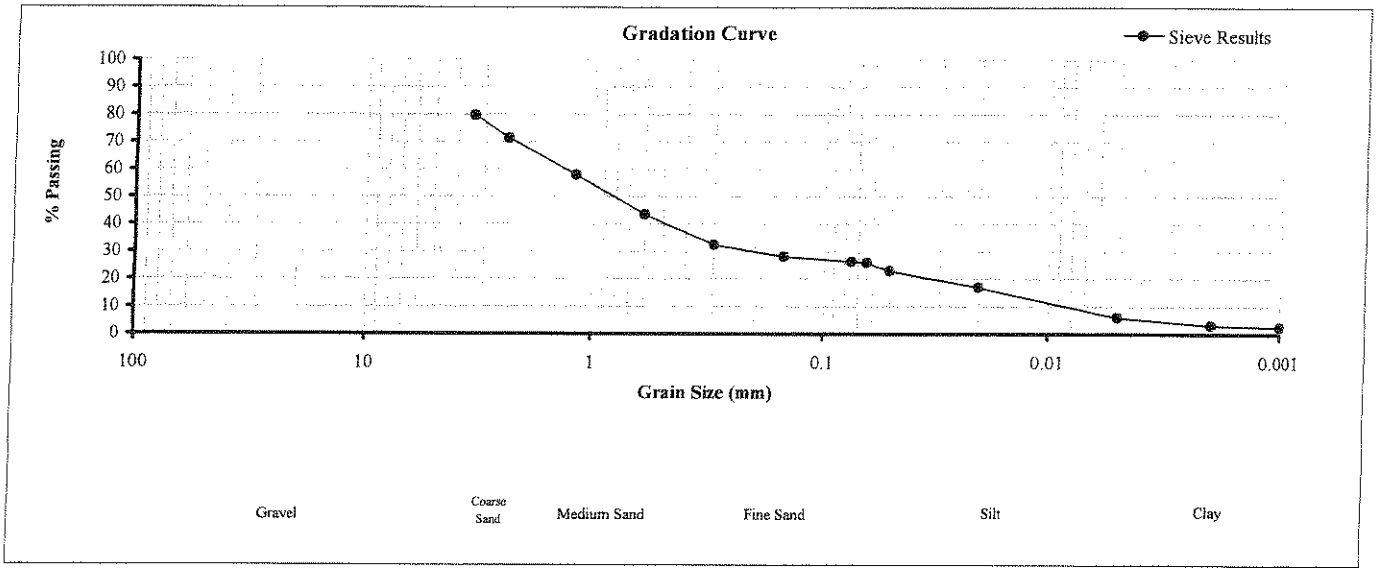
GRAIN SIZE ANALYSIS

Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**DD-1 Grab**
Date:	**7/11/2005**

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	13.2
Coarse to Fine Sand	4.75mm to 0.075mm	60.4
Silt	.075mm to .005mm	20.4
Clay	Material smaller than .005mm	6.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.0085
D_{30} =	0.2100
D_{60} =	1.4500

Shape Parameters

Coefficient Of Uniformity, C_u	170.6
Coefficient Of Curvature, C_c	3.6

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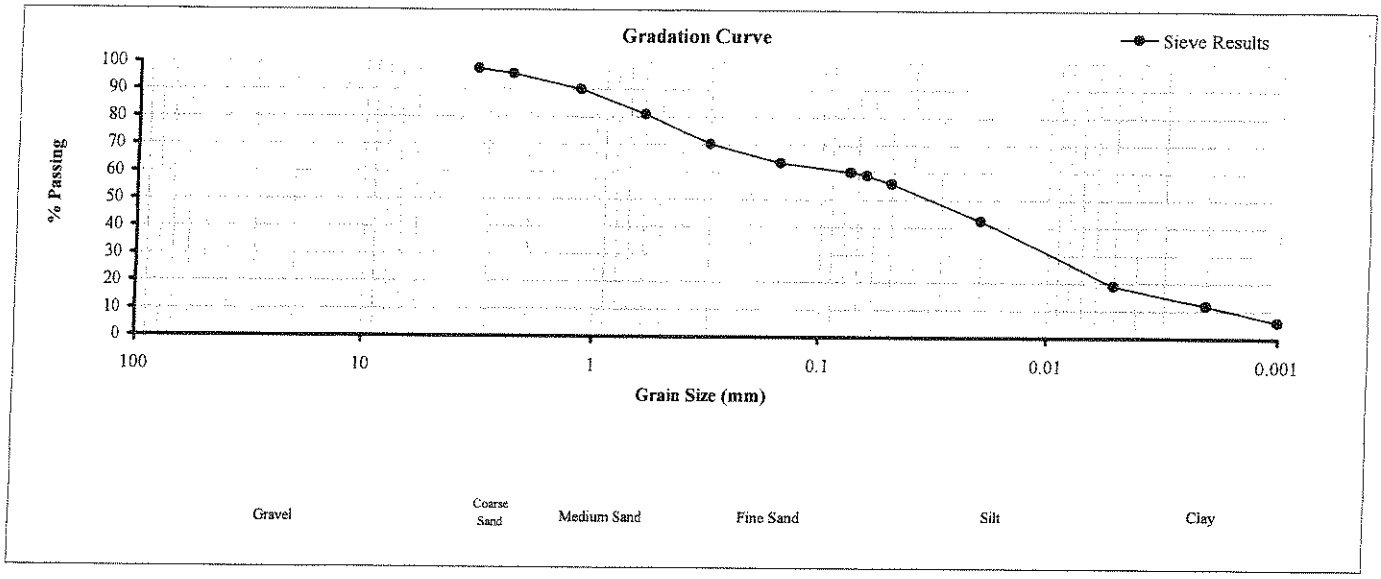
GRAIN SIZE ANALYSIS

Client:	Amtrak-APU
Project:	Former Fueling Facility
Sample ID:	DD-1 (0-2)
Date:	7/11/2005

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	1.3
Coarse to Fine Sand	4.75mm to 0.075mm	38.5
Silt	.075mm to .005mm	41.2
Clay	Material smaller than .005mm	19.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.0017
D_{30} =	0.0100
D_{60} =	0.0700

Shape Parameters

Coefficient Of Uniformity, C_u	41.2
Coefficient Of Curvature, C_c	0.8

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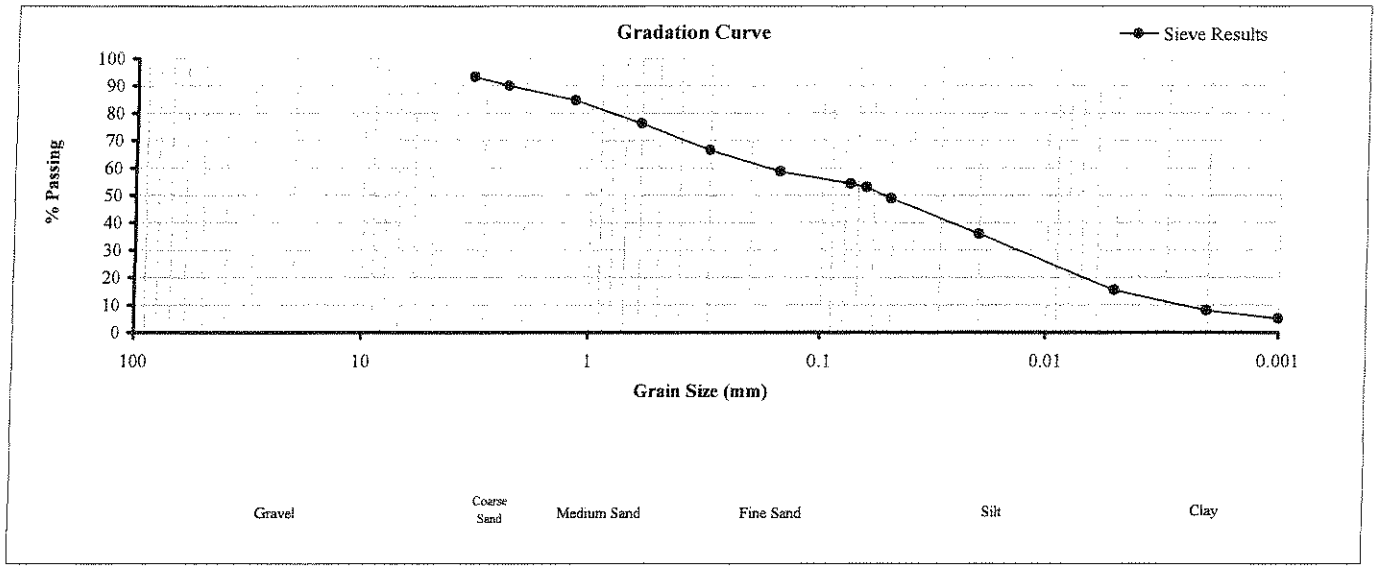
Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**DD-1 (2-4)**
Date:	**7/11/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	4.7
Coarse to Fine Sand	4.75mm to 0.075mm	41.0
Silt	.075mm to .005mm	38.8
Clay	Material smaller than .005mm	15.5

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.0015
D_{30} =	0.0150
D_{60} =	0.1800

Shape Parameters

Coefficient Of Uniformity, C_u	120.0
Coefficient Of Curvature, C_c	0.8

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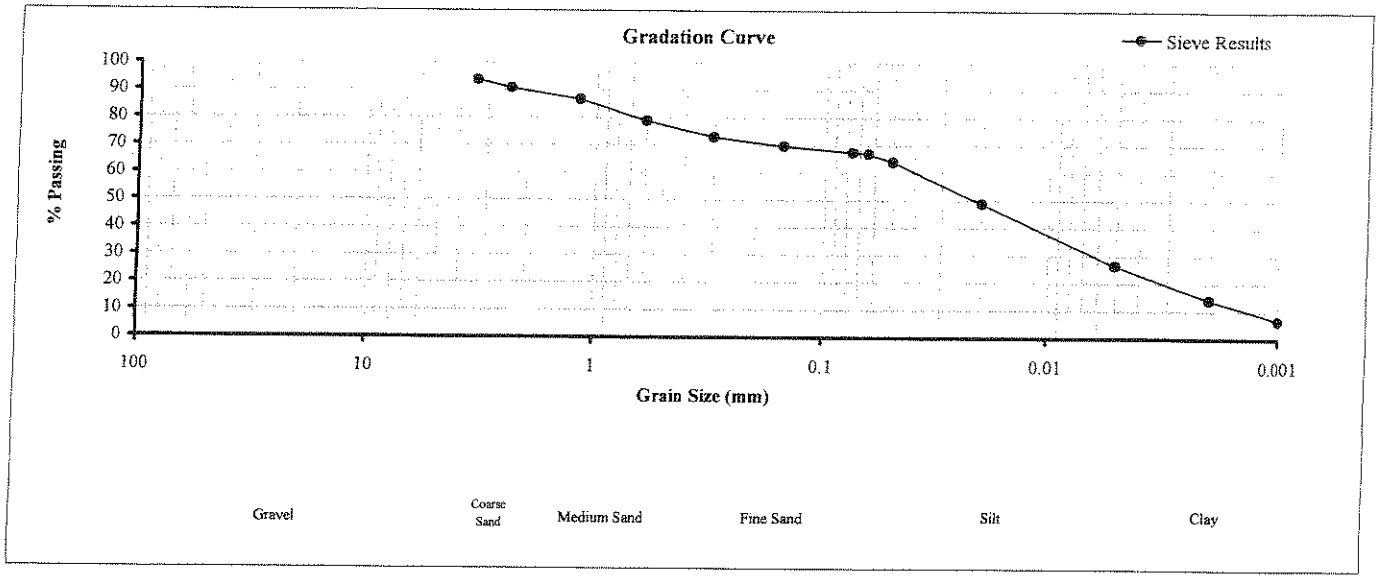
GRAIN SIZE ANALYSIS

Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**DD-1 (4-6)**
Date:	**7/11/2005**

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	5.4
Coarse to Fine Sand	4.75mm to 0.075mm	27.2
Silt	.075mm to .005mm	40.9
Clay	Material smaller than .005mm	26.5

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.0015
D_{30} =	0.0060
D_{60} =	0.0400

Shape Parameters

Coefficient Of Uniformity, C_u	26.7
Coefficient Of Curvature, C_c	0.6

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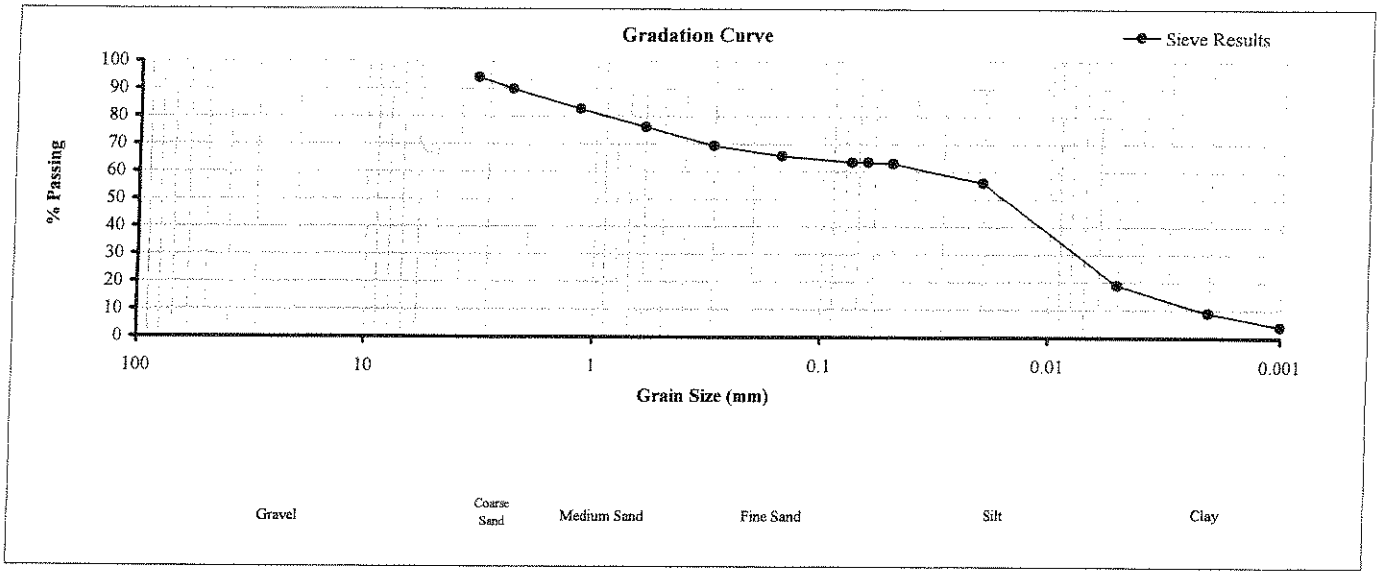
Client:	**Amtrak-APU**
Project:	***Former Fueling Facility***
Sample ID:	**DD-2 Subsurface**
Date:	**4/13/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	1.3
Coarse to Fine Sand	4.75mm to 0.075mm	35.2
Silt	.075mm to .005mm	44.5
Clay	Material smaller than .005mm	19.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.0020
D_{30} =	0.0078
D_{60} =	0.0350

Shape Parameters

Coefficient Of Uniformity, C_u	17.5
Coefficient Of Curvature, C_c	0.9

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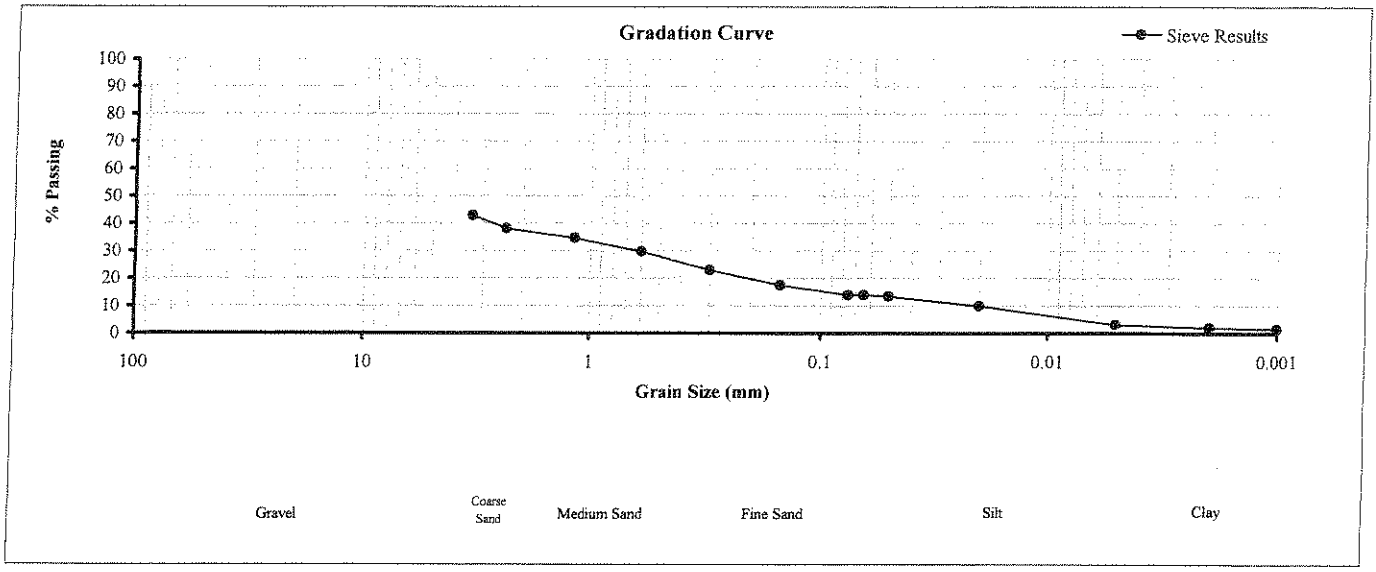
Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**7 Comp**
Date:	**3/30/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	52.7
Coarse to Fine Sand	4.75mm to 0.075mm	33.4
Silt	.075mm to .005mm	10.9
Clay	Material smaller than .005mm	3.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.020
D_{30} =	0.650
D_{60} =	0.00

Shape Parameters

Coefficient Of Uniformity, C_u	0.0
Coefficient Of Curvature, C_c	#DIV/0!

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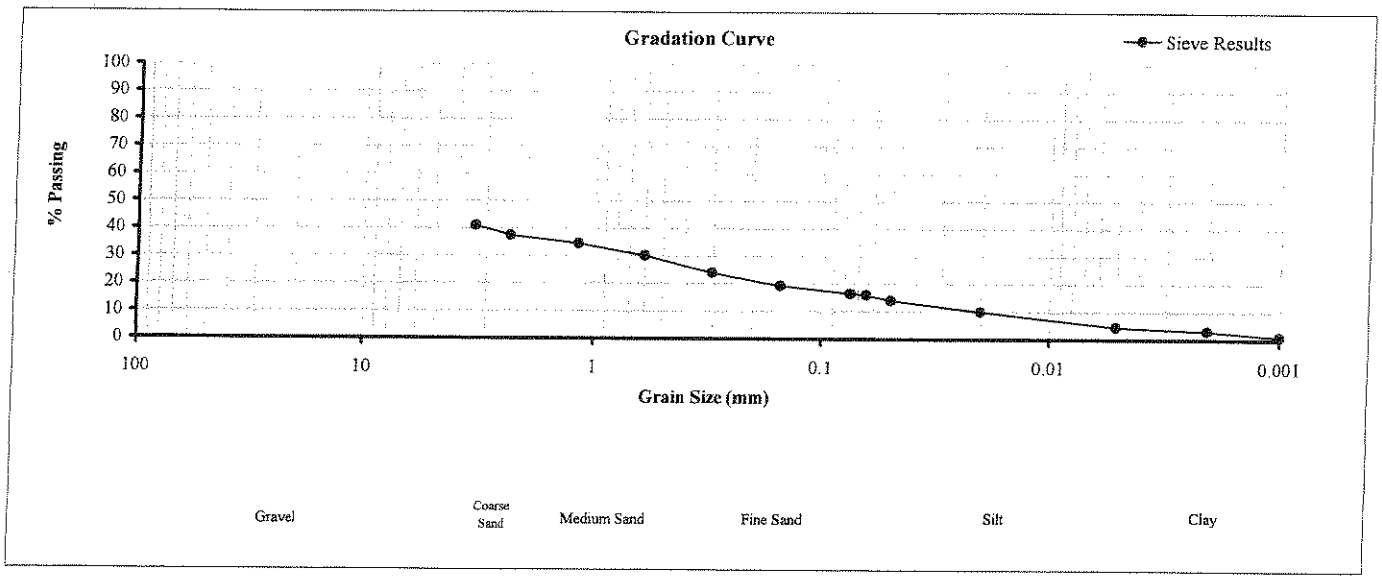
GRAIN SIZE ANALYSIS

Client:	**Amtrak-APU**
Project:	***Former Fueling Facility***
Sample ID:	**7-D**
Date:	**3/30/2005**

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	55.8
Coarse to Fine Sand	4.75mm to 0.075mm	27.7
Silt	.075mm to .005mm	12.0
Clay	Material smaller than .005mm	4.5

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.02
D_{30} =	0.60
D_{60} =	0.00

Shape Parameters

Coefficient Of Uniformity, C_u	0.0
Coefficient Of Curvature, C_c	#DIV/0!

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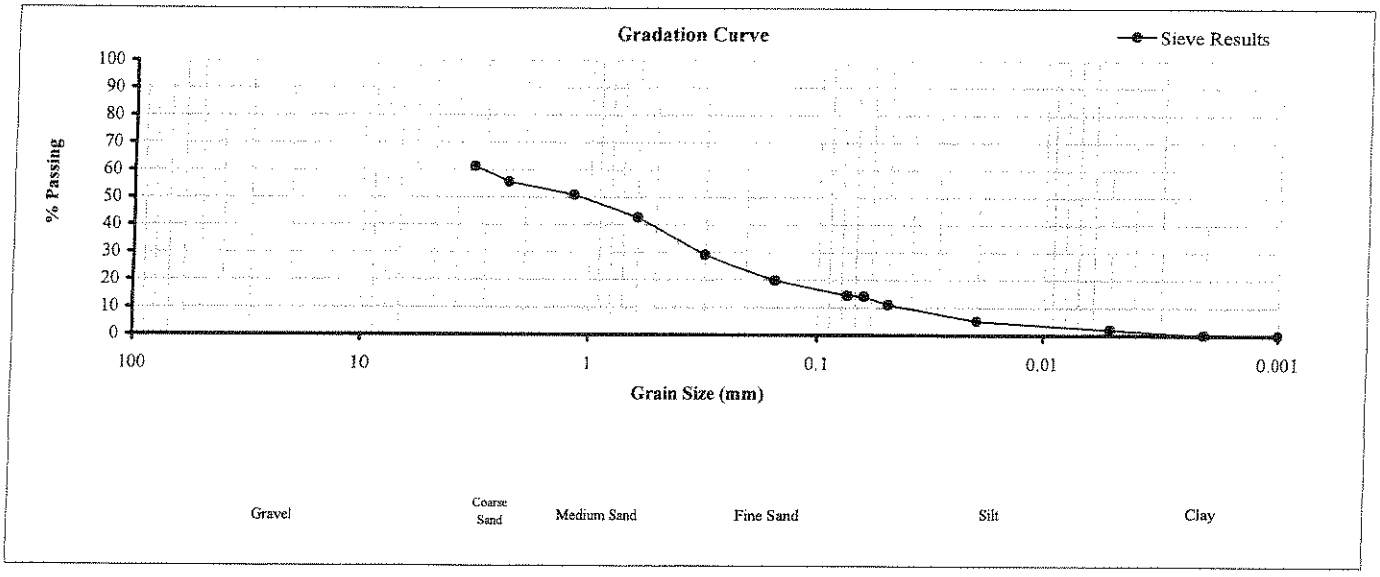
GRAIN SIZE ANALYSIS

Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**8 Comp**
Date:	**3/31/2005**

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	33.6
Coarse to Fine Sand	4.75mm to 0.075mm	52.0
Silt	.075mm to .005mm	12.4
Clay	Material smaller than .005mm	2.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.033
D_{30} =	0.33
D_{60} =	3.10

Shape Parameters

Coefficient Of Uniformity, C_u	93.9
Coefficient Of Curvature, C_c	1.1

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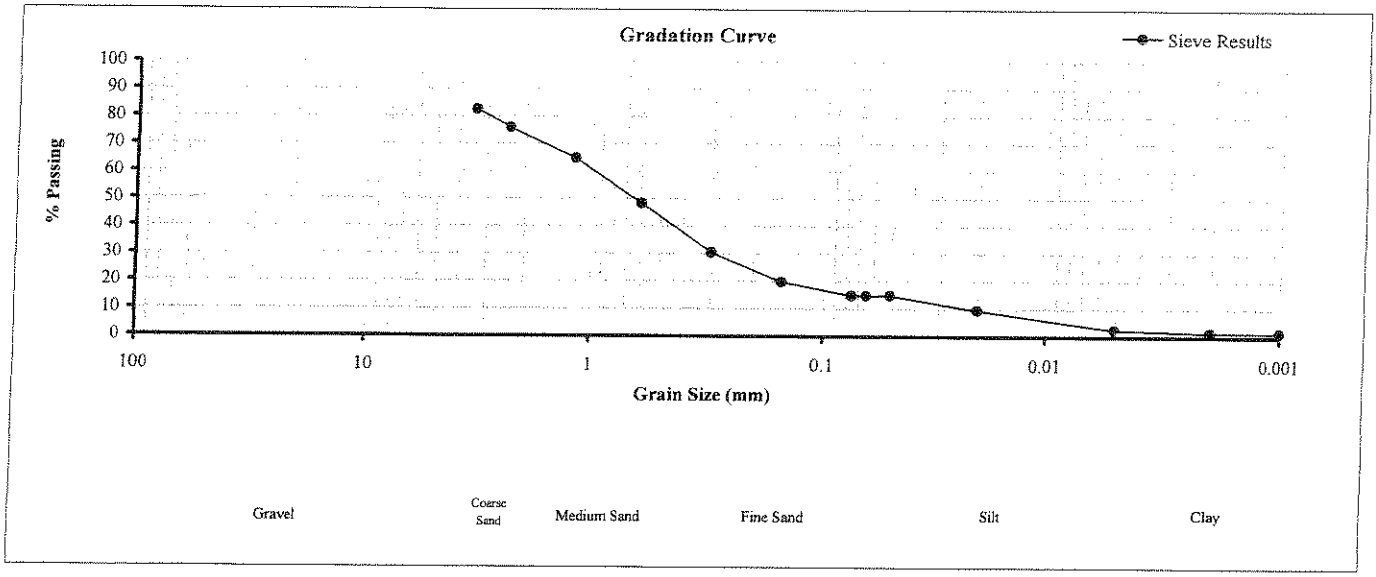
GRAIN SIZE ANALYSIS

Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**8 - J**
Date:	**3/31/2005**

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	12.7
Coarse to Fine Sand	4.75mm to 0.075mm	72.4
Silt	.075mm to .005mm	12.4
Clay	Material smaller than .005mm	2.5

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.020
D_{30} =	0.300
D_{60} =	1.00

Shape Parameters

Coefficient Of Uniformity, C_u	50.0
Coefficient Of Curvature, C_c	4.5

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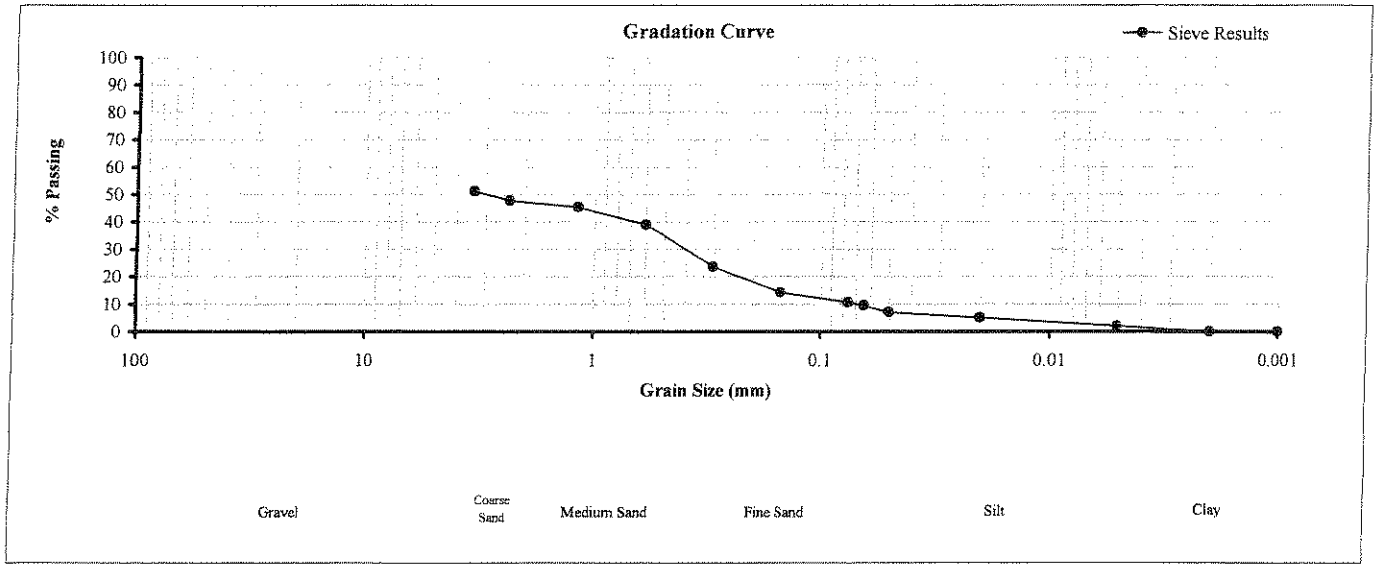
Client:	**Amtrak-APU**
Project:	***Former Fueling Facility***
Sample ID:	**9 Comp**
Date:	**3/30/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	45.5
Coarse to Fine Sand	4.75mm to 0.075mm	43.9
Silt	.075mm to .005mm	8.6
Clay	Material smaller than .005mm	2.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.070
D_{30} =	0.40
D_{60} =	0.00

Shape Parameters

Coefficient Of Uniformity, C_u	0.0
Coefficient Of Curvature, C_c	#DIV/0!

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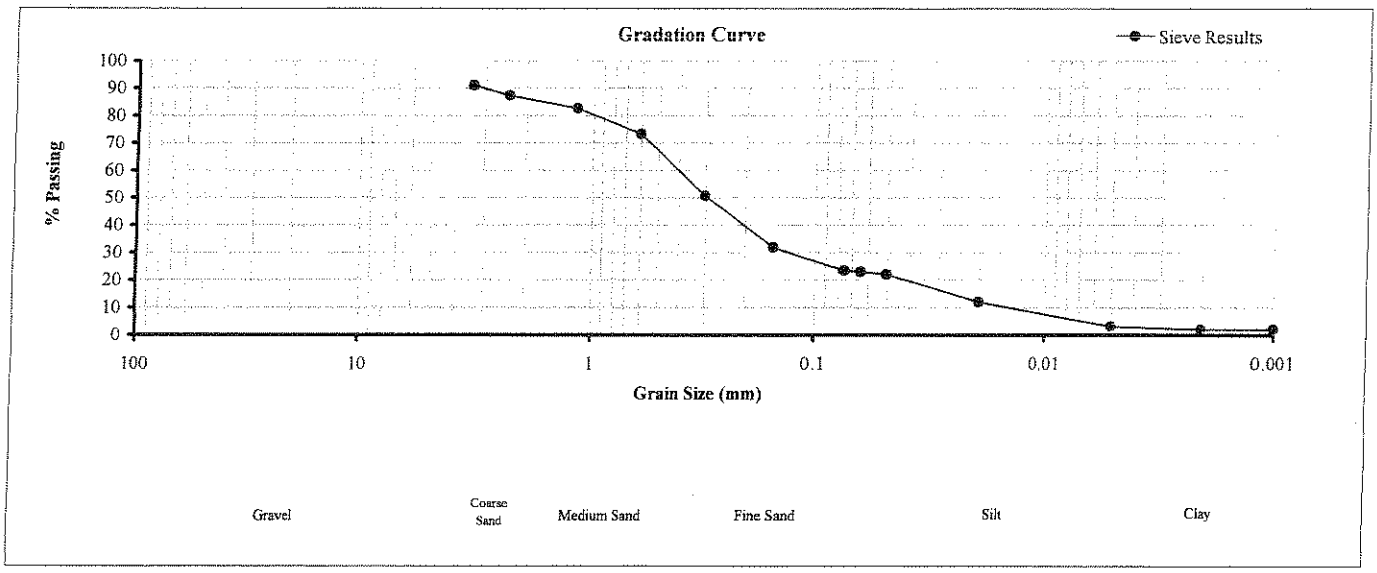
GRAIN SIZE ANALYSIS

Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**9 - D**
Date:	**3/30/2005**

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	5.0
Coarse to Fine Sand	4.75mm to 0.075mm	71.6
Silt	.075mm to .005mm	20.4
Clay	Material smaller than .005mm	3.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.017
D_{30} =	0.14
D_{60} =	0.40

Shape Parameters

Coefficient Of Uniformity, C_u	23.5
Coefficient Of Curvature, C_c	2.9

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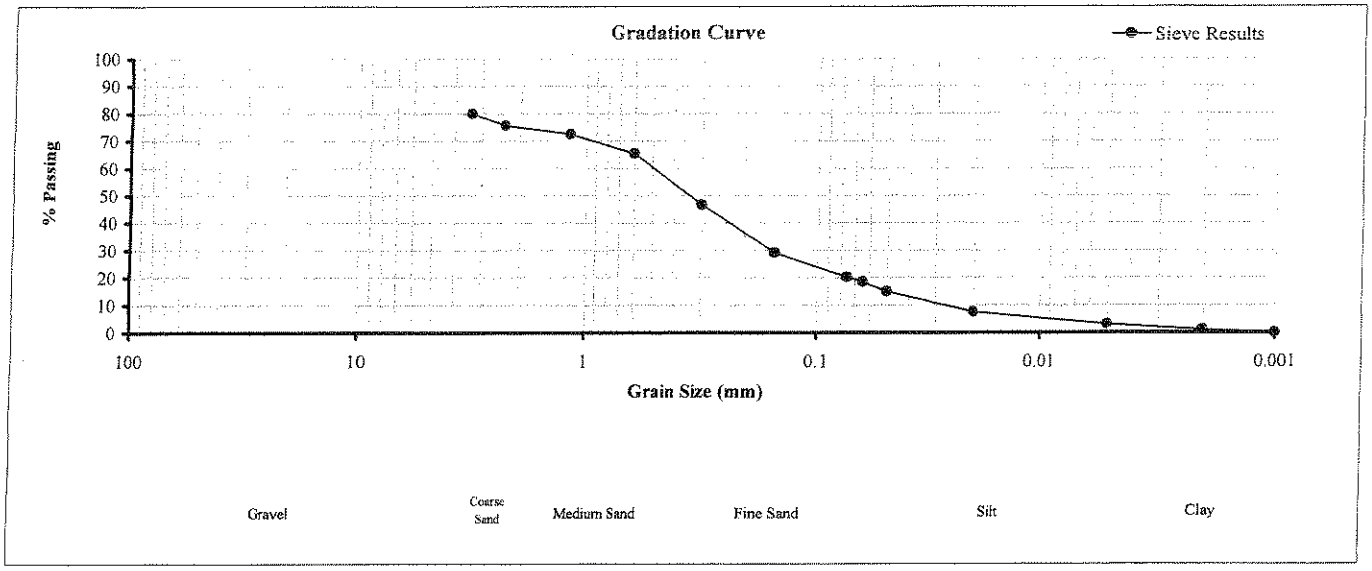
Client:	**Amtrak-APU**
Project:	***Former Fueling Facility***
Sample ID:	**9-L**
Date:	**3/30/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	15.8
Coarse to Fine Sand	4.75mm to 0.075mm	63.9
Silt	.075mm to .005mm	17.3
Clay	Material smaller than .005mm	3.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.03
D_{30} =	0.17
D_{60} =	0.50

Shape Parameters

Coefficient Of Uniformity, C_u	16.7
Coefficient Of Curvature, C_c	1.9

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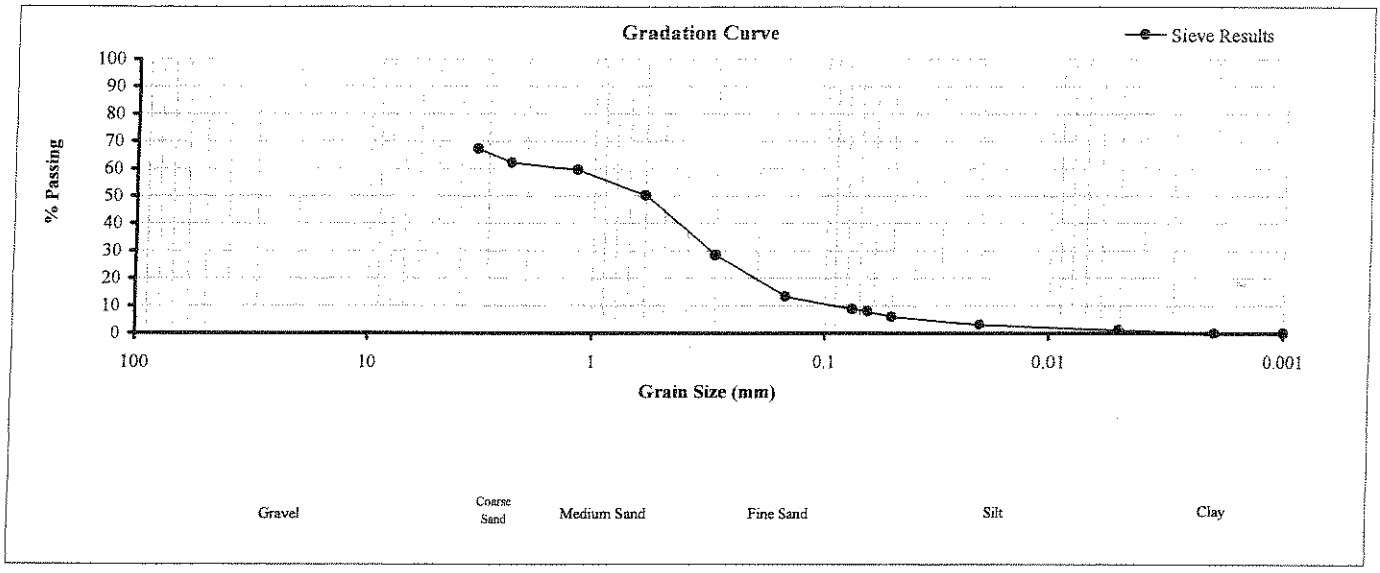
Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**10 Comp**
Date:	**3/31/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	27.6
Coarse to Fine Sand	4.75mm to 0.075mm	63.6
Silt	.075mm to .005mm	7.8
Clay	Material smaller than .005mm	1.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.090
D_{30} =	0.32
D_{60} =	1.30

Shape Parameters

Coefficient Of Uniformity, C_u	14.4
Coefficient Of Curvature, C_c	0.9

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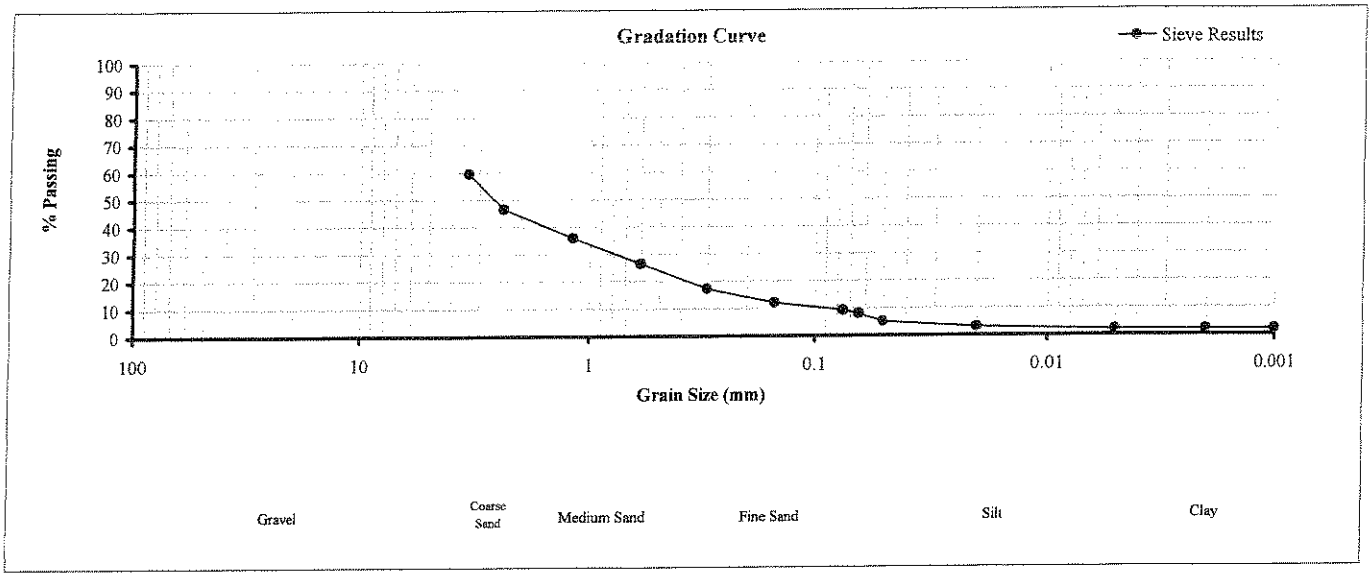
GRAIN SIZE ANALYSIS

Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**10 - M**
Date:	**4/1/2005**

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	30.4
Coarse to Fine Sand	4.75mm to 0.075mm	60.3
Silt	.075mm to .005mm	7.3
Clay	Material smaller than .005mm	2.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.090
D_{30} =	0.80
D_{60} =	3.40

Shape Parameters

Coefficient Of Uniformity, C_u	37.8
Coefficient Of Curvature, C_c	2.1

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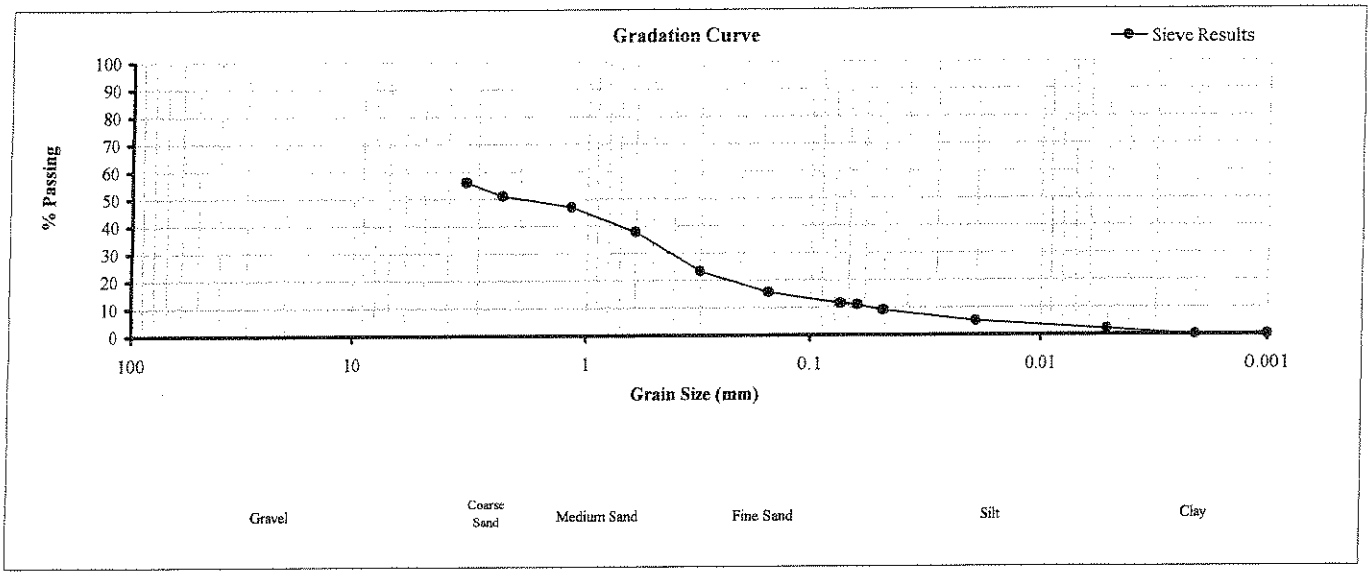
Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**11 Comp**
Date:	**4/1/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	40.3
Coarse to Fine Sand	4.75mm to 0.075mm	48.1
Silt	.075mm to .005mm	9.6
Clay	Material smaller than .005mm	2.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.057
D_{30} =	0.41
D_{60} =	0.00

Shape Parameters

Coefficient Of Uniformity, C_u	0.0
Coefficient Of Curvature, C_c	#DIV/0!

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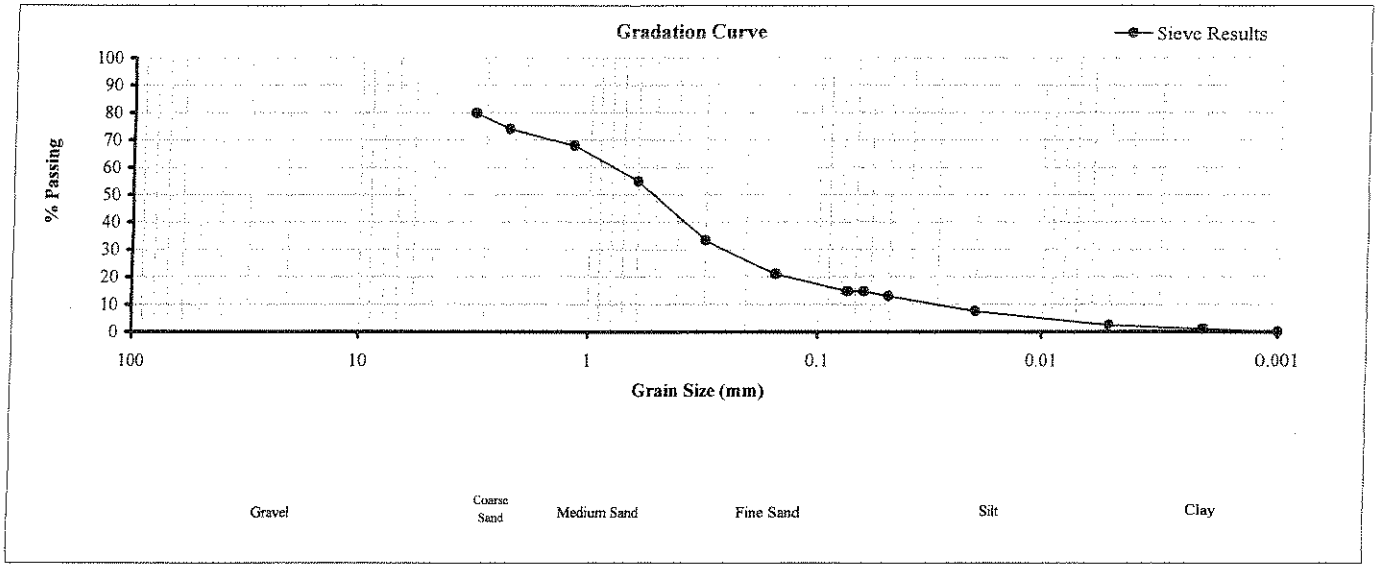
Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**11 -C**
Date:	**4/1/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	14.7
Coarse to Fine Sand	4.75mm to 0.075mm	70.6
Silt	.075mm to .005mm	12.2
Clay	Material smaller than .005mm	2.5

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.030
D_{30} =	0.025
D_{60} =	0.80

Shape Parameters

Coefficient Of Uniformity, C_u	26.7
Coefficient Of Curvature, C_c	0.0

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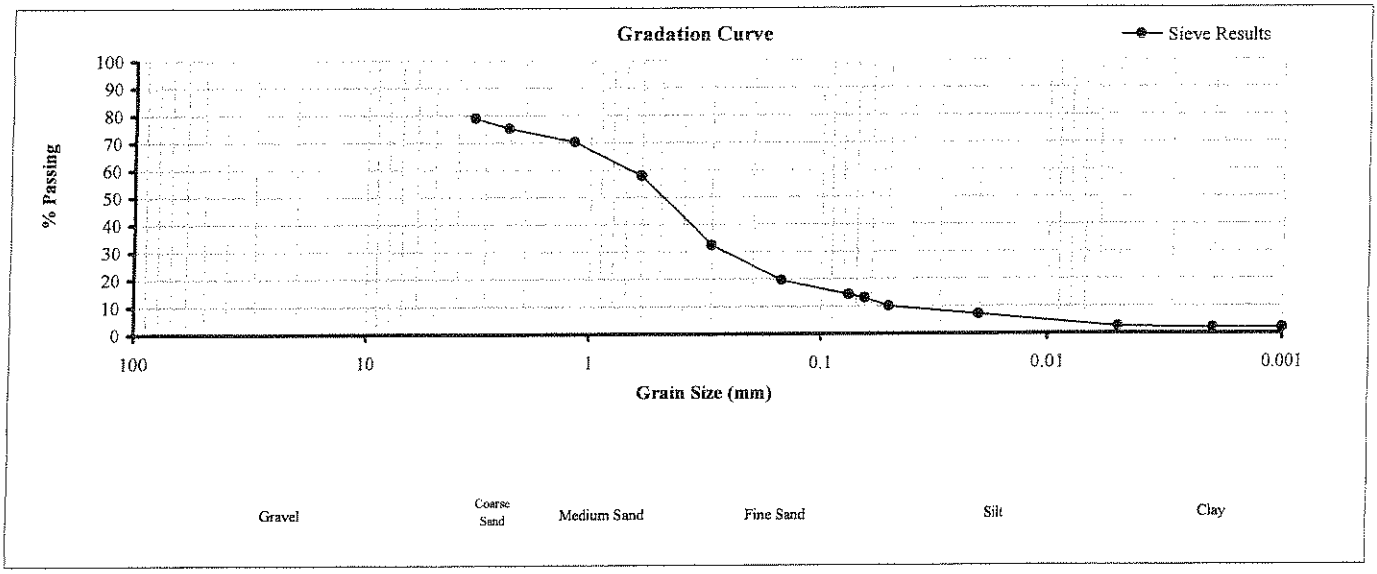
Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**12 Comp**
Date:	**3/31/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	17.5
Coarse to Fine Sand	4.75mm to 0.075mm	68.2
Silt	.075mm to .005mm	11.8
Clay	Material smaller than .005mm	2.5

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.050
D_{30} =	0.27
D_{60} =	0.69

Shape Parameters

Coefficient Of Uniformity, C_u	13.8
Coefficient Of Curvature, C_c	2.1

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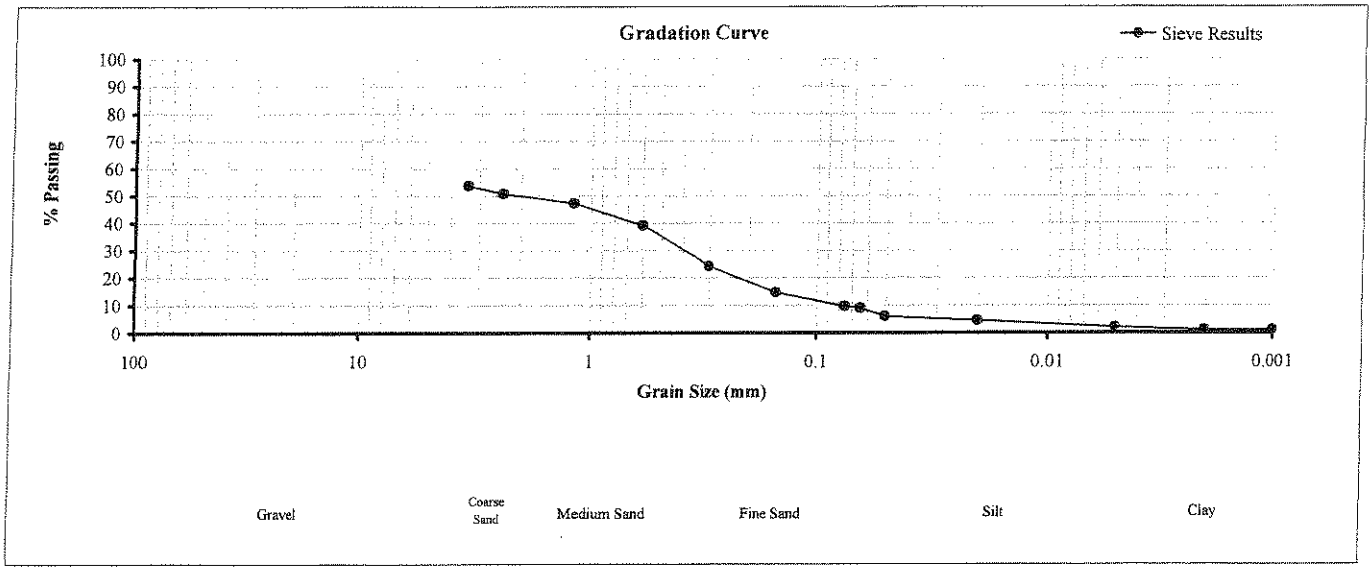
102 Pickering Way, Suite 200
Exton, Pennsylvania
19341

Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**12 - G**
Date:	**3/31/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	43.7
Coarse to Fine Sand	4.75mm to 0.075mm	46.6
Silt	.075mm to .005mm	7.7
Clay	Material smaller than .005mm	2.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.075
D_{30} =	0.39
D_{60} =	0.00

Shape Parameters

Coefficient Of Uniformity, C_u	0.0
Coefficient Of Curvature, C_c	#DIV/0!

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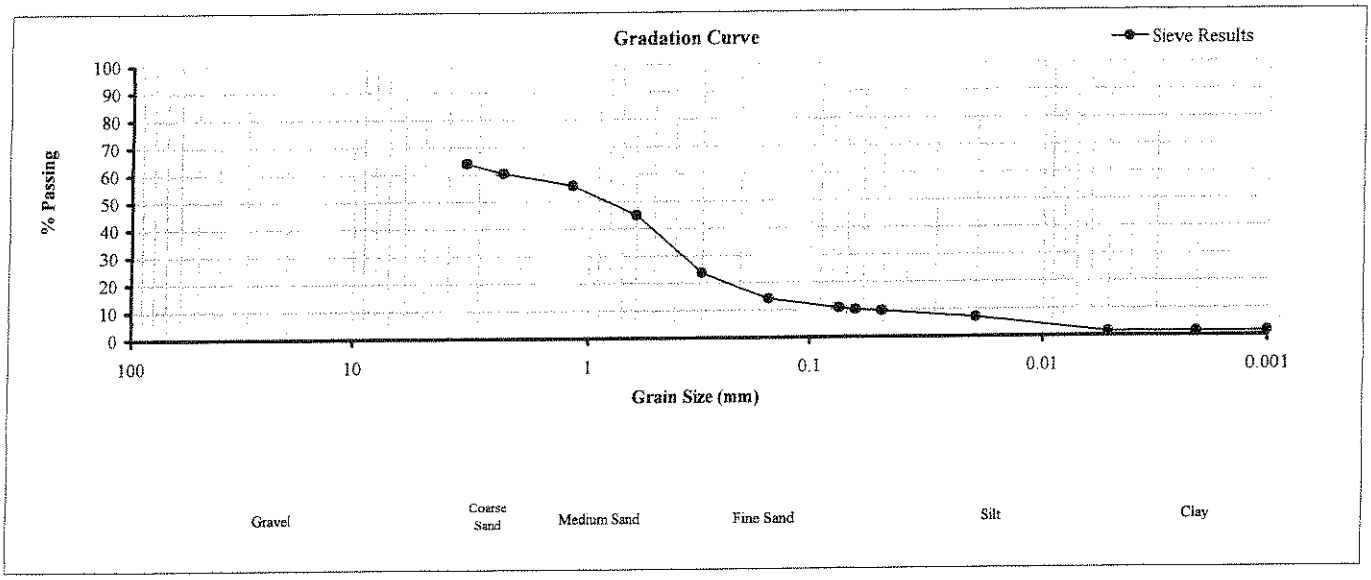
102 Pickering Way, Suite 200
Exton, Pennsylvania
19341

Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**13 Comp**
Date:	**4/1/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	32.2
Coarse to Fine Sand	4.75mm to 0.075mm	57.1
Silt	.075mm to .005mm	9.2
Clay	Material smaller than .005mm	1.5

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.055
D_{30} =	0.375
D_{60} =	2.40

Shape Parameters

Coefficient Of Uniformity, C_u	43.6
Coefficient Of Curvature, C_c	1.1

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Exton, Pennsylvania
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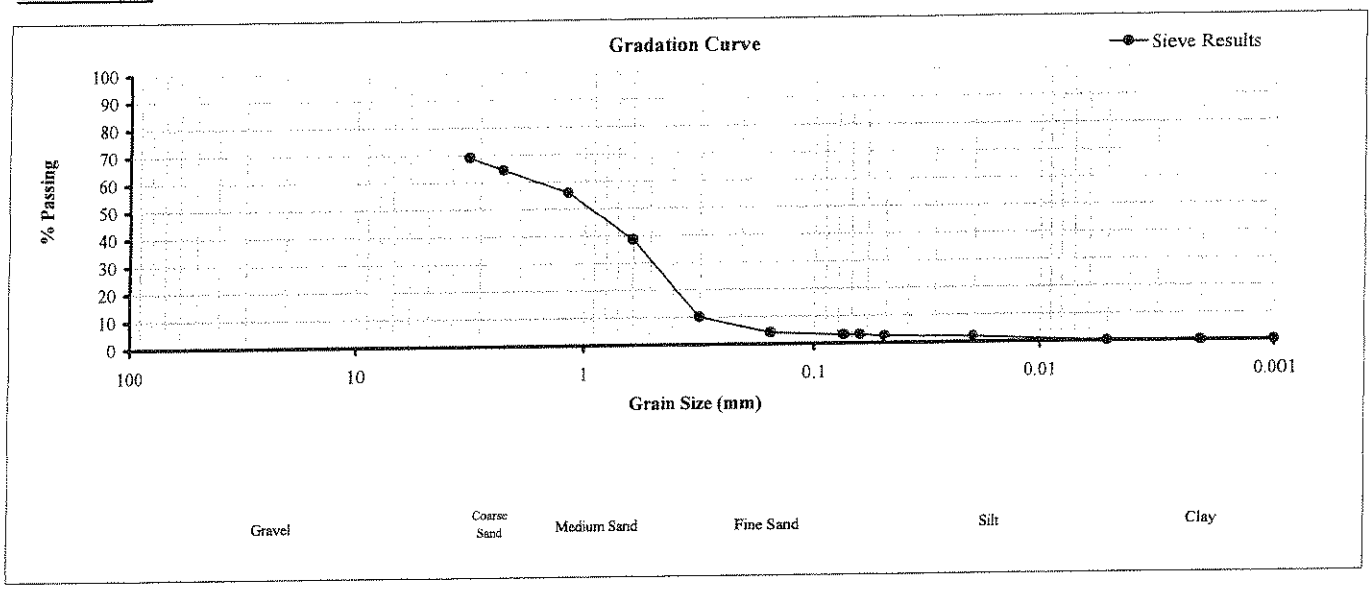
Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**13 - B**
Date:	**4/1/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	25.9
Coarse to Fine Sand	4.75mm to 0.075mm	71.1
Silt	.075mm to .005mm	3.0
Clay	Material smaller than .005mm	0.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.300
D_{30} =	0.49
D_{60} =	1.75

Shape Parameters

Coefficient Of Uniformity, C_u	5.8
Coefficient Of Curvature, C_c	0.5

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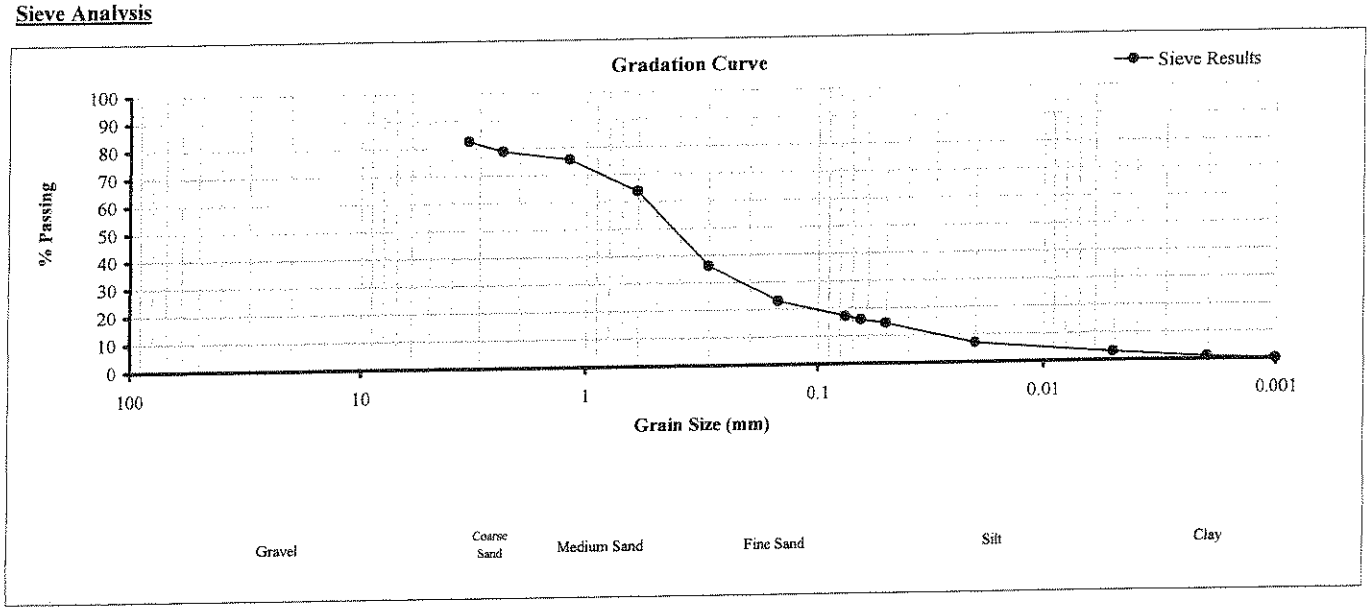
Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**14 Comp**
Date:	**4/1/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	13.9
Coarse to Fine Sand	4.75mm to 0.075mm	68.9
Silt	.075mm to .005mm	14.2
Clay	Material smaller than .005mm	3.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.300
D_{30} =	0.235
D_{60} =	0.55

Shape Parameters

Coefficient Of Uniformity, C_u	1.8
Coefficient Of Curvature, C_c	0.3

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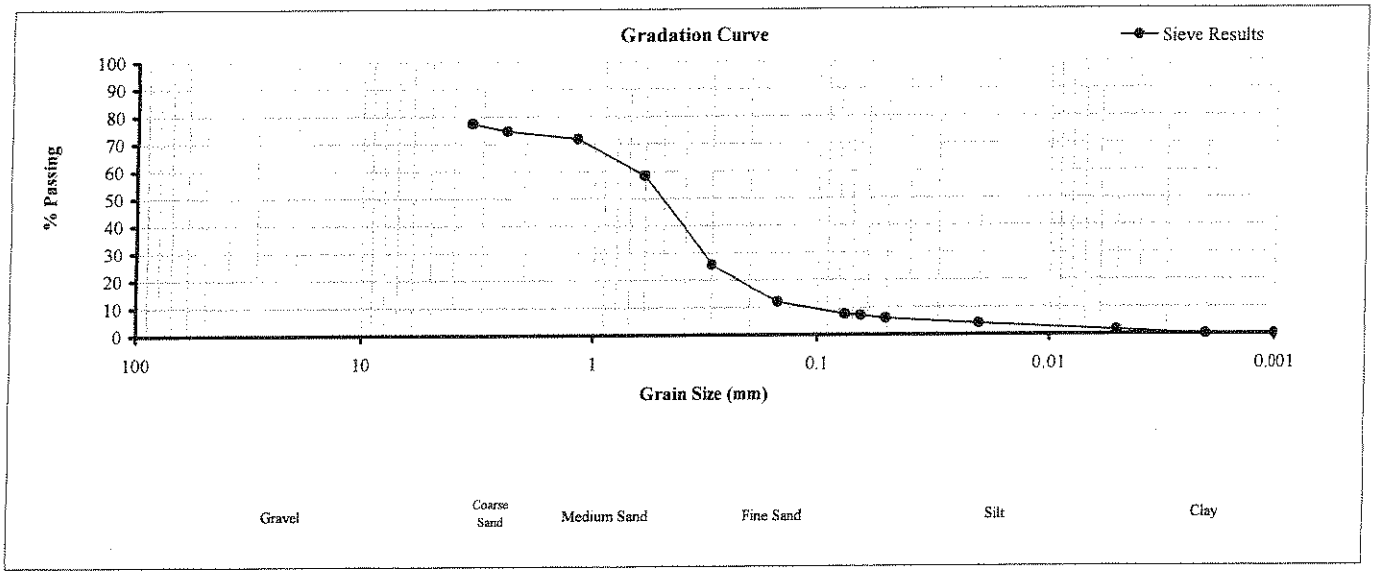
Client:	Amtrak-APU
Project:	Former Fueling Facility
Sample ID:	14 - C
Date:	4/1/2005

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	19.5
Coarse to Fine Sand	4.75mm to 0.075mm	73.0
Silt	.075mm to .005mm	6.0
Clay	Material smaller than .005mm	1.5

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.120
D_{30} =	0.345
D_{60} =	0.65

Shape Parameters

Coefficient Of Uniformity, C_u	5.4
Coefficient Of Curvature, C_c	1.5

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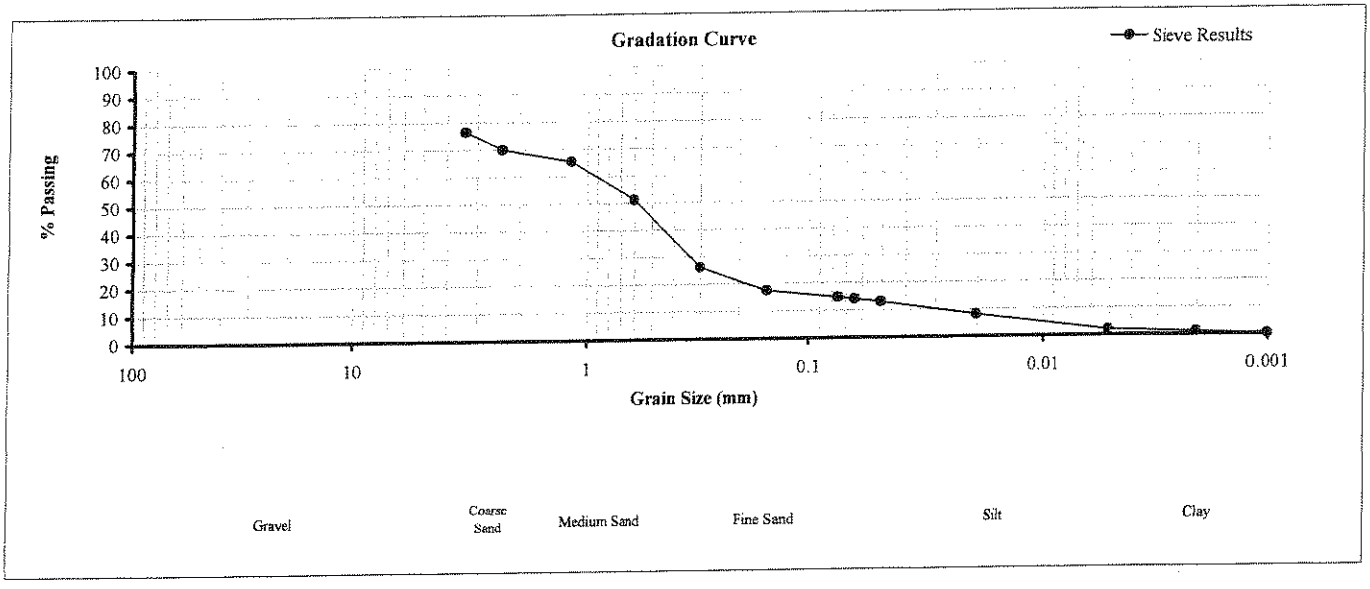
Client:	Amtrak-APU
Project:	Former Fueling Facility
Sample ID:	15 Comp
Date:	4/4/2005

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	16.7
Coarse to Fine Sand	4.75mm to 0.075mm	68.5
Silt	.075mm to .005mm	12.8
Clay	Material smaller than .005mm	2.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.030
D_{30} =	0.350
D_{60} =	0.91

Shape Parameters

Coefficient Of Uniformity, C_u	30.3
Coefficient Of Curvature, C_c	4.5

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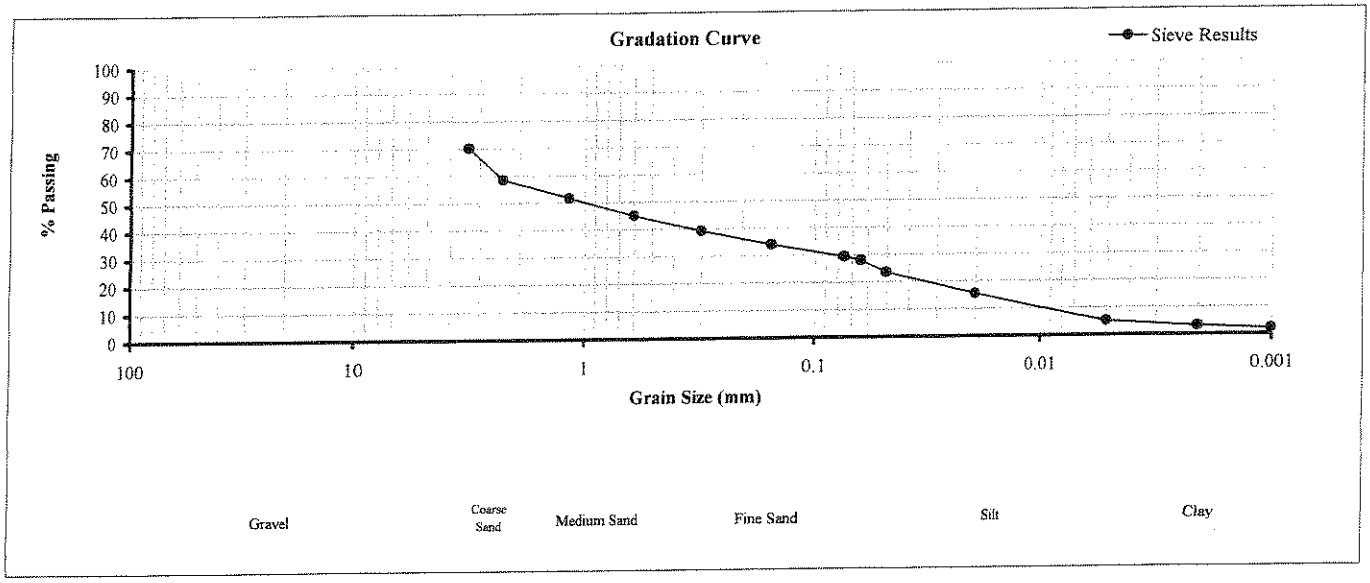
Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**15 - C**
Date:	**4/4/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	19.3
Coarse to Fine Sand	4.75mm to 0.075mm	51.3
Silt	.075mm to .005mm	24.4
Clay	Material smaller than .005mm	5.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.010
D_{30} =	0.080
D_{60} =	2.50

Shape Parameters

Coefficient Of Uniformity, C_u	250.0
Coefficient Of Curvature, C_c	0.3

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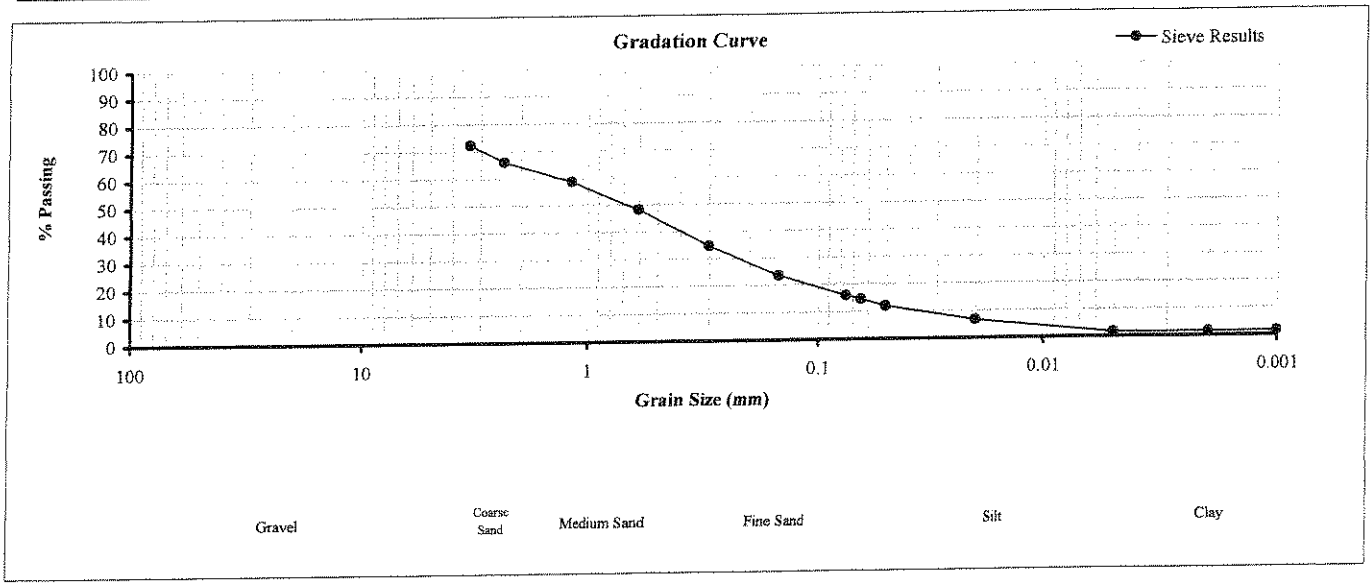
Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**16 Comp**
Date:	**5/25/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	22.4
Coarse to Fine Sand	4.75mm to 0.075mm	61.7
Silt	.075mm to .005mm	14.4
Clay	Material smaller than .005mm	1.5

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.035
D_{30} =	0.240
D_{60} =	1.45

Shape Parameters

Coefficient Of Uniformity, C_u	41.4
Coefficient Of Curvature, C_c	1.1

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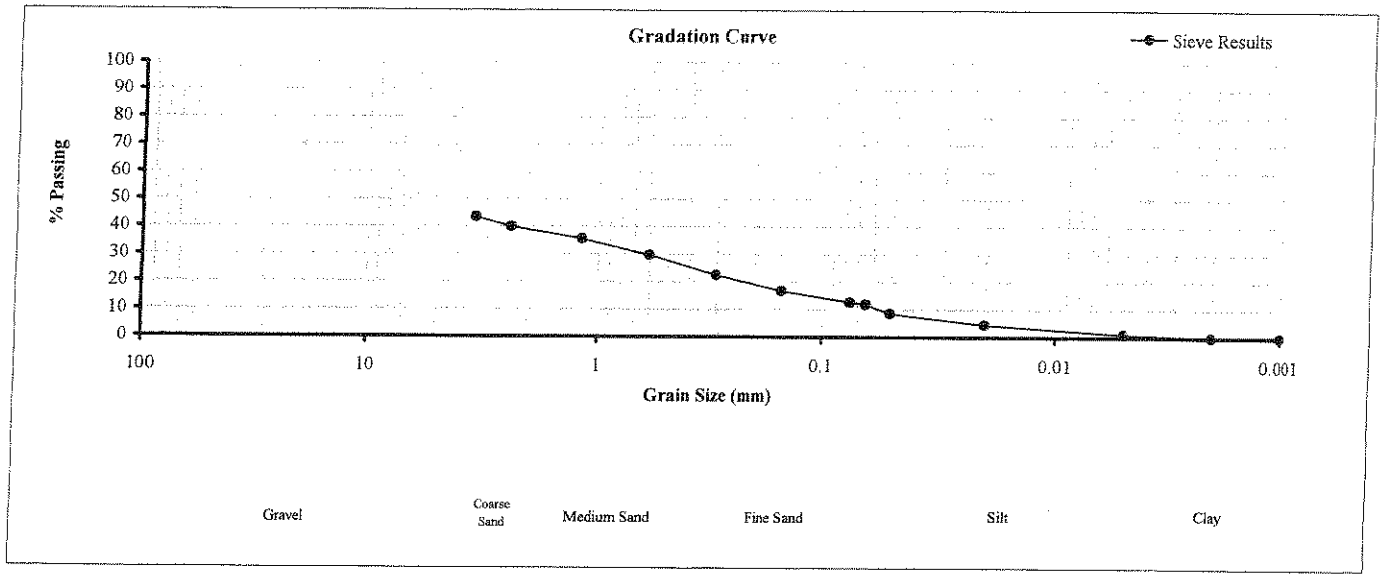
Client:	**Amtrak-APU**
Project:	**Former Fueling Facility**
Sample ID:	**16 - M**
Date:	**5/25/2005**

GRAIN SIZE ANALYSIS

Sieve Analysis



Soil Grain Size Distribution By Sieve Analysis

Soil Fraction	Size Range	% of Total
Gravel	75mm to 4.75mm	52.4
Coarse to Fine Sand	4.75mm to 0.075mm	35.0
Silt	.075mm to .005mm	11.6
Clay	Material smaller than .005mm	1.0

Diameters Corresponding To % Passing (mm)	
D_{10} =	0.056
D_{30} =	0.640
D_{60} =	0.00

Shape Parameters

Coefficient Of Uniformity, C_u	0.0
Coefficient Of Curvature, C_c	#DIV/0!

Appendix O

PCB Congener Results for Surface Water Samples

Storm Water Sample PCB Congener Results
OUTFALL 001 - UNFILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2-Chlorobiphenyl	1	623	7	
3-Chlorobiphenyl	2		6.4	U
4-Chlorobiphenyl	3	85.8	5.5	QJ
2,2'-Dichlorobiphenyl	4	12700	127	
2,3-Dichlorobiphenyl	5	70.6	79	QJ
2,3'-Dichlorobiphenyl	6	164	72.5	QJ
2,4-Dichlorobiphenyl	7	219	75.8	J
2,4'-Dichlorobiphenyl	8	636	72.6	
2,5-Dichlorobiphenyl	9	62.4	76.1	QJ
2,6-Dichlorobiphenyl	10	680	78.7	Q
3,3'-Dichlorobiphenyl	11		75.9	U
3,4-Dichlorobiphenyl	12	258	73.4	QC
3,4'-Dichlorobiphenyl	13		73.4	C12
3,5-Dichlorobiphenyl	14		72.6	U
4,4'-Dichlorobiphenyl	15	860	58.5	Q
2,2',3-Trichlorobiphenyl	16		60	U
2,2',4-Trichlorobiphenyl	17	1260	48.5	
2,2',5-Trichlorobiphenyl	18	363	40.1	C
2,2',6-Trichlorobiphenyl	19	6030	52.3	
2,3,3'-Trichlorobiphenyl	20		17.7	BCJ
2,3,4-Trichlorobiphenyl	21	72	18.4	QCJ
2,3,4'-Trichlorobiphenyl	22	57.8	19.2	QJ
2,3,5-Trichlorobiphenyl	23		19.7	U
2,3,6-Trichlorobiphenyl	24		35.2	U
2,3',4-Trichlorobiphenyl	25	154	16.7	QJ
2,3',5-Trichlorobiphenyl	26	127	18.4	QCJ
2,3',6-Trichlorobiphenyl	27	557	34.2	Q
2,4,4'-Trichlorobiphenyl	28		17.7	BC20J
2,4,5-Trichlorobiphenyl	29		18.4	C26
2,4,6-Trichlorobiphenyl	30		40.1	C18
2,4',5-Trichlorobiphenyl	31		18.1	QJB
2,4',6-Trichlorobiphenyl	32	1150	31.4	
2,3',4'-Trichlorobiphenyl	33		18.4	C21
2,3',5'-Trichlorobiphenyl	34		19.1	U
3,3',4-Trichlorobiphenyl	35		19	U
3,3',5-Trichlorobiphenyl	36		17.7	U
3,4,4'-Trichlorobiphenyl	37	62.3	15.8	QJ
3,4,5-Trichlorobiphenyl	38		18.2	U
3,4',5-Trichlorobiphenyl	39		16.8	U
2,2',3,3'-Tetrachlorobiphenyl	40	457	32.9	C

Storm Water Sample PCB Congener Results
OUTFALL 001 - UNFILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,4-Tetrachlorobiphenyl	41		32.9	C40
2,2',3,4'-Tetrachlorobiphenyl	42	95.8	36.5	QJ
2,2',3,5-Tetrachlorobiphenyl	43		30.2	U
2,2',3,5'-Tetrachlorobiphenyl	44	1280	29.7	C
2,2',3,6-Tetrachlorobiphenyl	45	970	34.4	C
2,2',3,6'-Tetrachlorobiphenyl	46	53	40.2	QJ
2,2',4,4'-Tetrachlorobiphenyl	47		29.7	C44
2,2',4,5-Tetrachlorobiphenyl	48		32.9	U
2,2',4,5'-Tetrachlorobiphenyl	49	834	28.2	C
2,2',4,6-Tetrachlorobiphenyl	50	1200	33.2	C
2,2',4,6'-Tetrachlorobiphenyl	51		34.4	C45
2,2',5,5'-Tetrachlorobiphenyl	52	1000	31.6	
2,2',5,6'-Tetrachlorobiphenyl	53		33.2	C50
2,2',6,6'-Tetrachlorobiphenyl	54	446	49.9	
2,3,3',4-Tetrachlorobiphenyl	55		24.8	U
2,3,3',4'-Tetrachlorobiphenyl	56	98.2	24.5	J
2,3,3',5-Tetrachlorobiphenyl	57		24.4	U
2,3,3',5'-Tetrachlorobiphenyl	58		23.8	U
2,3,3',6-Tetrachlorobiphenyl	59		24	U
2,3,4,4'-Tetrachlorobiphenyl	60	39.4	24.1	QJ
2,3,4,5-Tetrachlorobiphenyl	61	537	23	C
2,3,4,6-Tetrachlorobiphenyl	62		24	U
2,3,4',5-Tetrachlorobiphenyl	63		22.8	U
2,3,4',6-Tetrachlorobiphenyl	64	92.2	23.9	J
2,3,5,6-Tetrachlorobiphenyl	65		29.7	C44
2,3',4,4'-Tetrachlorobiphenyl	66	388	22.7	
2,3',4,5-Tetrachlorobiphenyl	67		21.3	U
2,3',4,5'-Tetrachlorobiphenyl	68		22.1	U
2,3',4,6-Tetrachlorobiphenyl	69		28.2	C49
2,3',4',5-Tetrachlorobiphenyl	70		23	C61
2,3',4',6-Tetrachlorobiphenyl	71		32.9	C40
2,3',5,5'-Tetrachlorobiphenyl	72		23.5	U
2,3',5',6-Tetrachlorobiphenyl	73		30.2	U
2,4,4',5-Tetrachlorobiphenyl	74		23	C61
2,4,4',6-Tetrachlorobiphenyl	75		24	U
2,3',4',5'-Tetrachlorobiphenyl	76		23	C61
3,3',4,4'-Tetrachlorobiphenyl	77		21.2	U
3,3',4,5-Tetrachlorobiphenyl	78		23.5	U
3,3',4,5'-Tetrachlorobiphenyl	79		19.9	U
3,3',5,5'-Tetrachlorobiphenyl	80		21.1	U

Storm Water Sample PCB Congener Results
OUTFALL 001 - UNFILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
3,4,4',5-Tetrachlorobiphenyl	81		21.8	U
2,2',3,3',4-Pentachlorobiphenyl	82		52.9	U
2,2',3,3',5-Pentachlorobiphenyl	83		54.8	U
2,2',3,3',6-Pentachlorobiphenyl	84	196	53.4	QJ
2,2',3,4,4'-Pentachlorobiphenyl	85	111	37.9	QCJ
2,2',3,4,5-Pentachlorobiphenyl	86	579	38	C
2,2',3,4,5'-Pentachlorobiphenyl	87		38	C86
2,2',3,4,6-Pentachlorobiphenyl	88	234	47.1	CJ
2,2',3,4,6'-Pentachlorobiphenyl	89		51	U
2,2',3,4',5-Pentachlorobiphenyl	90	1600	39.6	QC
2,2',3,4',6-Pentachlorobiphenyl	91	0	47.1	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	335	47.9	
2,2',3,5,6-Pentachlorobiphenyl	93	111	46.2	CJ
2,2',3,5,6'-Pentachlorobiphenyl	94		50.5	U
2,2',3,5',6-Pentachlorobiphenyl	95	1610	46.3	
2,2',3,6,6'-Pentachlorobiphenyl	96		35.2	U
2,2',3,4',5'-Pentachlorobiphenyl	97		38	C86
2,2',3,4',6'-Pentachlorobiphenyl	98		47	U
2,2',4,4',5-Pentachlorobiphenyl	99	593	37.6	C
2,2',4,4',6-Pentachlorobiphenyl	100		46.2	C93
2,2',4,5,5'-Pentachlorobiphenyl	101		39.6	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		47	U
2,2',4,5',6-Pentachlorobiphenyl	103	85.5	43.3	QJ
2,2',4,6,6'-Pentachlorobiphenyl	104		34.1	U
2,3,3',4,4'-Pentachlorobiphenyl	105	401	23.4	
2,3,3',4,5-Pentachlorobiphenyl	106		23.1	U
2,3,3',4',5-Pentachlorobiphenyl	107	33.9	22.8	QCJ
2,3,3',4,5'-Pentachlorobiphenyl	108		38	C86
2,3,3',4,6-Pentachlorobiphenyl	109	113	20.5	QJ
2,3,3',4',6-Pentachlorobiphenyl	110	1320	33.5	C
2,3,3',5,5'-Pentachlorobiphenyl	111		32.2	U
2,3,3',5,6-Pentachlorobiphenyl	112		37.6	C99
2,3,3',5',6-Pentachlorobiphenyl	113		39.6	C90
2,3,4,4',5-Pentachlorobiphenyl	114		16.3	U
2,3,4,4',6-Pentachlorobiphenyl	115		33.5	C110
2,3,4,5,6-Pentachlorobiphenyl	116		37.9	C85
2,3,4',5,6-Pentachlorobiphenyl	117		37.9	C85
2,3',4,4',5-Pentachlorobiphenyl	118	837	18.6	
2,3',4,4',6-Pentachlorobiphenyl	119		38	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		31	U

Storm Water Sample PCB Congener Results
OUTFALL 001 - UNFILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3',4,5',6-Pentachlorobiphenyl	121		33.8	U
2,3,3',4',5'-Pentachlorobiphenyl	122		24	U
2,3',4,4',5'-Pentachlorobiphenyl	123		17	U
2,3',4',5,5'-Pentachlorobiphenyl	124		22.8	C108
2,3',4',5',6-Pentachlorobiphenyl	125		38	C86J
3,3',4,4',5-Pentachlorobiphenyl	126		29	UJ
3,3',4,5,5'-Pentachlorobiphenyl	127		21.2	UJ
2,2',3,3',4,4'-Hexachlorobiphenyl	128	312	38	CJ
2,2',3,3',4,5-Hexachlorobiphenyl	129		39	BCJ
2,2',3,3',4,5'-Hexachlorobiphenyl	130	133	49.5	QJ
2,2',3,3',4,6-Hexachlorobiphenyl	131		49.8	UJ
2,2',3,3',4,6'-Hexachlorobiphenyl	132	912	48.6	J
2,2',3,3',5,5'-Hexachlorobiphenyl	133		45.7	UJ
2,2',3,3',5,6-Hexachlorobiphenyl	134	143	49.8	QCJ
2,2',3,3',5,6'-Hexachlorobiphenyl	135	1870	70.1	CJ
2,2',3,3',6,6'-Hexachlorobiphenyl	136	499	52	QJ
2,2',3,4,4',5-Hexachlorobiphenyl	137	265	37.2	QCJ
2,2',3,4,4',5'-Hexachlorobiphenyl	138		39	BC129J
2,2',3,4,4',6-Hexachlorobiphenyl	139		41.8	UJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140		41.8	UJ
2,2',3,4,5,5'-Hexachlorobiphenyl	141	899	44.3	
2,2',3,4,5,6-Hexachlorobiphenyl	142		49	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		49.8	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	218	68.5	QJ
2,2',3,4,6,6'-Hexachlorobiphenyl	145		53.1	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	481	40.1	
2,2',3,4',5,6-Hexachlorobiphenyl	147	3370	40.3	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		69.8	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		40.3	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		50.8	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		70.1	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		50.2	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153		34.2	BCJ
2,2',4,4',5,6'-Hexachlorobiphenyl	154		60	U
2,2',4,4',6,6'-Hexachlorobiphenyl	155		48.7	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	223	28.4	CJ
2,3,3',4,4',5'-Hexachlorobiphenyl	157		28.4	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	302	29.8	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	75.8	31.3	J
2,3,3',4,5,6-Hexachlorobiphenyl	160		34.8	U

Storm Water Sample PCB Congener Results
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Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3,3',4,5',6-Hexachlorobiphenyl	161		32.5	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162		31.2	U
2,3,3',4',5,6-Hexachlorobiphenyl	163		39	BC129J
2,3,3',4',5',6-Hexachlorobiphenyl	164		37.2	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		35.5	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		38	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	126	24.4	QJ
2,3',4,4',5',6-Hexachlorobiphenyl	168		34.2	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		39.9	UJ
2,2',3,3',4,4',5-Heptachlorobiphenyl	170		28.5	JB
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	356	37.1	QC
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	310	37.5	Q
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		37.1	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	1180	34.8	Q
2,2',3,3',4,5',6-Heptachlorobiphenyl	175		33.3	U
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	117	26.4	QJ
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	702	37.2	Q
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	283	35.8	Q
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	614	26.1	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180		25.2	BCJ
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		34.7	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		33.7	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	968	33.3	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		24.5	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		33.3	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		26.7	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1570	31.5	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		25.5	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189		22.6	U
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	307	26.8	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	56.1	26.2	J
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		28.3	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		28.3	BC180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	636	25.9	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	202	28.4	J
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	404	38.9	Q
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	143	28.4	QCJ
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	787	38.6	QC
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		38.6	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		28.4	C197

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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	79.2	28.3	QJ
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	140	29.9	J
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	368	35.6	Q
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		29.2	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205		18.1	U
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	73.4	10.3	J
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207		9.3	U
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208		8.9	U
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209		10	U
TOTAL CONGENER RESULTS =		**60,966.40**		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/L = Picograms per liter.

PCB congeners analyzed by USEPA Method 1668A.

Analytical data validated by SECOR personnel

Storm Water Sample PCB Congener Results
OUTFALL 001 - FILTERED
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4001 Vandever Avenue
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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2-Chlorobiphenyl	1	624	7.4	
3-Chlorobiphenyl	2		6.8	U
4-Chlorobiphenyl	3	98.4	5.9	J
2,2'-Dichlorobiphenyl	4	11500	122	
2,3-Dichlorobiphenyl	5	56.1	76.1	QJ
2,3'-Dichlorobiphenyl	6	119	69.9	QJ
2,4-Dichlorobiphenyl	7	86.4	73	QJ
2,4'-Dichlorobiphenyl	8	457	69.9	Q
2,5-Dichlorobiphenyl	9		73.3	U
2,6-Dichlorobiphenyl	10	674	75.8	Q
3,3'-Dichlorobiphenyl	11	76.3	73.1	QJ
3,4-Dichlorobiphenyl	12	242	70.7	QCJ
3,4'-Dichlorobiphenyl	13		70.7	C12
3,5-Dichlorobiphenyl	14		69.9	U
4,4'-Dichlorobiphenyl	15	859	56.3	Q
2,2',3-Trichlorobiphenyl	16		58.2	U
2,2',4-Trichlorobiphenyl	17	1300	47	
2,2',5-Trichlorobiphenyl	18	259	38.8	QC
2,2',6-Trichlorobiphenyl	19	5580	50.7	
2,3,3'-Trichlorobiphenyl	20	419	17.2	QC
2,3,4-Trichlorobiphenyl	21	82.6	17.8	QCJ
2,3,4'-Trichlorobiphenyl	22	49.2	18.7	QJ
2,3,5-Trichlorobiphenyl	23		19.1	U
2,3,6-Trichlorobiphenyl	24		34.1	U
2,3',4-Trichlorobiphenyl	25	191	16.2	J
2,3',5-Trichlorobiphenyl	26	123	17.8	QCJ
2,3',6-Trichlorobiphenyl	27	696	33.2	
2,4,4'-Trichlorobiphenyl	28		17.2	C20
2,4,5-Trichlorobiphenyl	29		17.8	C26
2,4,6-Trichlorobiphenyl	30		38.8	C18
2,4',5-Trichlorobiphenyl	31	279	17.5	
2,4',6-Trichlorobiphenyl	32	998	30.4	Q
2,3',4'-Trichlorobiphenyl	33		17.8	C21
2,3',5'-Trichlorobiphenyl	34		18.6	U
3,3',4-Trichlorobiphenyl	35		18.4	U
3,3',5-Trichlorobiphenyl	36		17.2	U
3,4,4'-Trichlorobiphenyl	37	48	15.3	QJ
3,4,5-Trichlorobiphenyl	38		17.6	U
3,4',5-Trichlorobiphenyl	39		16.3	U

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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	437	30.6	C
2,2',3,4-Tetrachlorobiphenyl	41		30.6	C40
2,2',3,4'-Tetrachlorobiphenyl	42	90.7	33.9	J
2,2',3,5-Tetrachlorobiphenyl	43	49	28	CJ
2,2',3,5'-Tetrachlorobiphenyl	44	1280	27.5	C
2,2',3,6-Tetrachlorobiphenyl	45	802	32	QC
2,2',3,6'-Tetrachlorobiphenyl	46	138	37.3	J
2,2',4,4'-Tetrachlorobiphenyl	47		27.5	C44
2,2',4,5-Tetrachlorobiphenyl	48		30.6	U
2,2',4,5'-Tetrachlorobiphenyl	49	854	26.1	C
2,2',4,6-Tetrachlorobiphenyl	50	1190	30.8	C
2,2',4,6'-Tetrachlorobiphenyl	51		32	C45
2,2',5,5'-Tetrachlorobiphenyl	52	969	29.3	
2,2',5,6'-Tetrachlorobiphenyl	53		30.8	C50
2,2',6,6'-Tetrachlorobiphenyl	54	405	46.3	
2,3,3',4-Tetrachlorobiphenyl	55		23.1	U
2,3,3',4'-Tetrachlorobiphenyl	56	102	22.7	J
2,3,3',5-Tetrachlorobiphenyl	57		22.7	U
2,3,3',5'-Tetrachlorobiphenyl	58		22.1	U
2,3,3',6-Tetrachlorobiphenyl	59	38	22.3	QCJ
2,3,4,4'-Tetrachlorobiphenyl	60		22.3	U
2,3,4,5-Tetrachlorobiphenyl	61	495	21.4	C
2,3,4,6-Tetrachlorobiphenyl	62		22.3	C59
2,3,4',5-Tetrachlorobiphenyl	63		21.2	U
2,3,4',6-Tetrachlorobiphenyl	64	85.6	22.2	J
2,3,5,6-Tetrachlorobiphenyl	65		27.5	C44
2,3',4,4'-Tetrachlorobiphenyl	66	355	21.1	Q
2,3',4,5-Tetrachlorobiphenyl	67		19.7	U
2,3',4,5'-Tetrachlorobiphenyl	68		20.5	U
2,3',4,6-Tetrachlorobiphenyl	69		26.1	C49
2,3',4',5-Tetrachlorobiphenyl	70		21.4	C61
2,3',4',6-Tetrachlorobiphenyl	71		30.6	C40
2,3',5,5'-Tetrachlorobiphenyl	72		21.8	U
2,3',5',6-Tetrachlorobiphenyl	73		28	C43
2,4,4',5-Tetrachlorobiphenyl	74		21.4	C61
2,4,4',6-Tetrachlorobiphenyl	75		22.3	C59
2,3',4',5'-Tetrachlorobiphenyl	76		21.4	C61
3,3',4,4'-Tetrachlorobiphenyl	77		19.7	U
3,3',4,5-Tetrachlorobiphenyl	78		21.8	U

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3,3',4,5'-Tetrachlorobiphenyl	79		18.4	U
3,3',5,5'-Tetrachlorobiphenyl	80		19.6	U
3,4,4',5-Tetrachlorobiphenyl	81		19.4	U
2,2',3,3',4-Pentachlorobiphenyl	82	80.9	48.6	QJ
2,2',3,3',5-Pentachlorobiphenyl	83	63.7	50.3	J
2,2',3,3',6-Pentachlorobiphenyl	84	237	49.1	QJ
2,2',3,4,4'-Pentachlorobiphenyl	85	119	34.8	QCJ
2,2',3,4,5-Pentachlorobiphenyl	86	579	34.9	C
2,2',3,4,5'-Pentachlorobiphenyl	87		34.9	C86
2,2',3,4,6-Pentachlorobiphenyl	88	210	43.3	QCJ
2,2',3,4,6'-Pentachlorobiphenyl	89		46.9	U
2,2',3,4',5-Pentachlorobiphenyl	90	1630	36.3	C
2,2',3,4',6-Pentachlorobiphenyl	91		43.3	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	312	44	Q
2,2',3,5,6-Pentachlorobiphenyl	93	75.7	42.5	CJ
2,2',3,5,6'-Pentachlorobiphenyl	94		46.4	U
2,2',3,5',6-Pentachlorobiphenyl	95	1460	42.5	
2,2',3,6,6'-Pentachlorobiphenyl	96		32.3	U
2,2',3,4',5'-Pentachlorobiphenyl	97		34.9	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	111	43.2	QCJ
2,2',4,4',5-Pentachlorobiphenyl	99	522	34.6	C
2,2',4,4',6-Pentachlorobiphenyl	100		42.5	C93
2,2',4,5,5'-Pentachlorobiphenyl	101		36.3	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		43.2	C98
2,2',4,5',6-Pentachlorobiphenyl	103		39.8	U
2,2',4,6,6'-Pentachlorobiphenyl	104		31.4	U
2,3,3',4,4'-Pentachlorobiphenyl	105	342	20	Q
2,3,3',4,5-Pentachlorobiphenyl	106		21.2	U
2,3,3',4',5-Pentachlorobiphenyl	107	51.8	20.9	QCJ
2,3,3',4,5'-Pentachlorobiphenyl	108		34.9	C86
2,3,3',4,6-Pentachlorobiphenyl	109	90.6	18.8	J
2,3,3',4',6-Pentachlorobiphenyl	110	1330	30.8	QC
2,3,3',5,5'-Pentachlorobiphenyl	111		29.6	U
2,3,3',5,6-Pentachlorobiphenyl	112		34.6	C99
2,3,3',5',6-Pentachlorobiphenyl	113		36.3	C90
2,3,4,4',5-Pentachlorobiphenyl	114		15.9	U
2,3,4,4',6-Pentachlorobiphenyl	115		30.8	C110
2,3,4,5,6-Pentachlorobiphenyl	116		34.8	C85
2,3,4',5,6-Pentachlorobiphenyl	117		34.8	C85

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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118	811	17	
2,3',4,4',6-Pentachlorobiphenyl	119		34.9	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		28.5	U
2,3',4,5',6-Pentachlorobiphenyl	121		31	U
2,3,3',4',5'-Pentachlorobiphenyl	122		22	U
2,3',4,4',5'-Pentachlorobiphenyl	123		16.4	U
2,3',4',5,5'-Pentachlorobiphenyl	124		20.9	C108
2,3',4',5',6-Pentachlorobiphenyl	125		34.9	C86
3,3',4,4',5-Pentachlorobiphenyl	126		25.3	U
3,3',4,5,5'-Pentachlorobiphenyl	127		19.5	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	196	31.8	QCJ
2,2',3,3',4,5-Hexachlorobiphenyl	129	3600	32.6	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	122	41.4	QJ
2,2',3,3',4,6-Hexachlorobiphenyl	131		41.7	U
2,2',3,3',4,6'-Hexachlorobiphenyl	132	987	40.6	
2,2',3,3',5,5'-Hexachlorobiphenyl	133		38.2	U
2,2',3,3',5,6-Hexachlorobiphenyl	134	127	41.6	QCJ
2,2',3,3',5,6'-Hexachlorobiphenyl	135	1890	58.6	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	501	43.5	
2,2',3,4,4',5-Hexachlorobiphenyl	137	310	31.1	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138		32.6	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139		34.9	U
2,2',3,4,4',6'-Hexachlorobiphenyl	140		34.9	U
2,2',3,4,5,5'-Hexachlorobiphenyl	141	841	37	
2,2',3,4,5,6-Hexachlorobiphenyl	142		41	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		41.6	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	166	57.3	QJ
2,2',3,4,6,6'-Hexachlorobiphenyl	145		44.4	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	540	33.5	
2,2',3,4',5,6-Hexachlorobiphenyl	147	3010	33.7	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		58.4	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		33.7	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		42.5	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		58.6	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		42	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153		28.6	BCJ
2,2',4,4',5,6'-Hexachlorobiphenyl	154		50.2	U
2,2',4,4',6,6'-Hexachlorobiphenyl	155		40.7	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	207	24.3	QCJ

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2,3,3',4,4',5'-Hexachlorobiphenyl	157		24.3	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	323	24.9	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	57.9	26.1	J
2,3,3',4,5,6-Hexachlorobiphenyl	160		29.1	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		27.1	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162		26.1	U
2,3,3',4',5,6-Hexachlorobiphenyl	163		32.6	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		31.1	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		29.7	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		31.8	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	144	19.8	J
2,3',4,4',5',6-Hexachlorobiphenyl	168		28.6	BC153J
3,3',4,4',5,5'-Hexachlorobiphenyl	169		33.1	UJ
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	1190	27.4	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	383	35	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	184	35.4	QJ
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		35	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	1470	32.8	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	81.2	31.4	QJ
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	179	24.9	J
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	810	35.1	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	254	33.7	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	572	24.6	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180		24.6	BCJ
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		32.8	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		31.8	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	910	31.4	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		23.1	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		31.4	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		25.2	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1540	29.7	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		24.1	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189		20.6	U
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	328	25.3	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	48.8	24.7	QJ
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		26.7	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		26.7	BC180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	633	25.9	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	264	28.4	

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2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	387	38.9	Q
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	122	28.4	QCJ
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	676	38.6	QC
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		38.6	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		28.4	C197
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	119	28.3	J
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	104	29.9	J
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	459	35.6	Q
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		29.2	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205		18	U
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	58.6	12.7	QJ
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207		11.5	U
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208		11.1	U
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209		7.6	U
TOTAL CONGENER RESULTS =		**63,927.50**		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/L = Picograms per liter.

PCB congeners analyzed by USEPA Method 1668A.

Analytical data validated by SECOR personnel

P:\Clients\Amtrak-APU\Phase 2 RI Laboratory Data\Attachments\Attachment E\[11-12-04 wet weather congener results validated.xls]001 fil valid wo B

Storm Water Sample PCB Congener Results
OUTFALL 005 - UNFILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2-Chlorobiphenyl	1	3000	12.7	
3-Chlorobiphenyl	2		11.6	U
4-Chlorobiphenyl	3	124	10.1	J
2,2'-Dichlorobiphenyl	4	16900	85.5	
2,3-Dichlorobiphenyl	5		53.4	U
2,3'-Dichlorobiphenyl	6	627	49	Q
2,4-Dichlorobiphenyl	7	95	51.2	QJ
2,4'-Dichlorobiphenyl	8	1590	49.1	Q
2,5-Dichlorobiphenyl	9	148	51.4	QJ
2,6-Dichlorobiphenyl	10	460	53.2	Q
3,3'-Dichlorobiphenyl	11		51.3	U
3,4-Dichlorobiphenyl	12	268	49.6	QC
3,4'-Dichlorobiphenyl	13		49.6	C12
3,5-Dichlorobiphenyl	14		49	U
4,4'-Dichlorobiphenyl	15	853	39.5	Q
2,2',3-Trichlorobiphenyl	16	721	51.7	Q
2,2',4-Trichlorobiphenyl	17	1760	41.8	
2,2',5-Trichlorobiphenyl	18	1590	34.5	C
2,2',6-Trichlorobiphenyl	19	1790	45	
2,3,3'-Trichlorobiphenyl	20		15.3	BCJ
2,3,4-Trichlorobiphenyl	21	289	15.8	C
2,3,4'-Trichlorobiphenyl	22	197	16.6	QJ
2,3,5-Trichlorobiphenyl	23		17	U
2,3,6-Trichlorobiphenyl	24		30.3	U
2,3',4-Trichlorobiphenyl	25	119	14.4	QJ
2,3',5-Trichlorobiphenyl	26	294	15.9	C
2,3',6-Trichlorobiphenyl	27	946	29.5	
2,4,4'-Trichlorobiphenyl	28		15.3	C20
2,4,5-Trichlorobiphenyl	29		15.9	C26
2,4,6-Trichlorobiphenyl	30		34.5	C18
2,4',5-Trichlorobiphenyl	31		15.6	BJ
2,4',6-Trichlorobiphenyl	32	718	27	
2,3',4'-Trichlorobiphenyl	33		15.8	C21
2,3',5'-Trichlorobiphenyl	34		16.5	U
3,3',4-Trichlorobiphenyl	35		16.4	U
3,3',5-Trichlorobiphenyl	36		15.3	U
3,4,4'-Trichlorobiphenyl	37	172	13.6	QJ
3,4,5-Trichlorobiphenyl	38		15.7	U
3,4',5-Trichlorobiphenyl	39		14.5	U

Storm Water Sample PCB Congener Results
OUTFALL 005 - UNFILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	402	23.9	C
2,2',3,4-Tetrachlorobiphenyl	41		23.9	C40
2,2',3,4'-Tetrachlorobiphenyl	42	168	26.5	QJ
2,2',3,5-Tetrachlorobiphenyl	43		21.9	U
2,2',3,5'-Tetrachlorobiphenyl	44	905	21.5	C
2,2',3,6-Tetrachlorobiphenyl	45	291	25	QC
2,2',3,6'-Tetrachlorobiphenyl	46	74.2	29.1	QJ
2,2',4,4'-Tetrachlorobiphenyl	47		21.5	C44
2,2',4,5-Tetrachlorobiphenyl	48	137	23.9	QJ
2,2',4,5'-Tetrachlorobiphenyl	49	539	20.4	C
2,2',4,6-Tetrachlorobiphenyl	50	284	24.1	C
2,2',4,6'-Tetrachlorobiphenyl	51		25	C45
2,2',5,5'-Tetrachlorobiphenyl	52	1260	22.9	
2,2',5,6'-Tetrachlorobiphenyl	53		24.1	C50
2,2',6,6'-Tetrachlorobiphenyl	54	71.8	36.2	QJ
2,3,3',4-Tetrachlorobiphenyl	55		18	U
2,3,3',4'-Tetrachlorobiphenyl	56	429	17.8	
2,3,3',5-Tetrachlorobiphenyl	57		17.7	U
2,3,3',5'-Tetrachlorobiphenyl	58	135	17.3	QJ
2,3,3',6-Tetrachlorobiphenyl	59	102	17.4	CJ
2,3,4,4'-Tetrachlorobiphenyl	60	230	17.5	J
2,3,4,5-Tetrachlorobiphenyl	61	1750	16.7	C
2,3,4,6-Tetrachlorobiphenyl	62		17.4	C59
2,3,4',5-Tetrachlorobiphenyl	63		16.6	U
2,3,4',6-Tetrachlorobiphenyl	64	311	17.3	
2,3,5,6-Tetrachlorobiphenyl	65		21.5	C44
2,3',4,4'-Tetrachlorobiphenyl	66	806	16.5	
2,3',4,5-Tetrachlorobiphenyl	67		15.4	U
2,3',4,5'-Tetrachlorobiphenyl	68		16	U
2,3',4,6-Tetrachlorobiphenyl	69		20.4	C49
2,3',4',5-Tetrachlorobiphenyl	70		16.7	C61
2,3',4',6-Tetrachlorobiphenyl	71		23.9	C40
2,3',5,5'-Tetrachlorobiphenyl	72		17.1	U
2,3',5',6-Tetrachlorobiphenyl	73		21.9	U
2,4,4',5-Tetrachlorobiphenyl	74		16.7	C61
2,4,4',6-Tetrachlorobiphenyl	75		17.4	C59
2,3',4',5'-Tetrachlorobiphenyl	76		16.7	C61
3,3',4,4'-Tetrachlorobiphenyl	77	85.8	15.4	J
3,3',4,5-Tetrachlorobiphenyl	78		17.1	U

Storm Water Sample PCB Congener Results
OUTFALL 005 - UNFILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
3,3',4,5'-Tetrachlorobiphenyl	79		14.4	U
3,3',5,5'-Tetrachlorobiphenyl	80		15.3	U
3,4,4',5-Tetrachlorobiphenyl	81		15.1	U
2,2',3,3',4-Pentachlorobiphenyl	82	285	36.3	
2,2',3,3',5-Pentachlorobiphenyl	83		37.6	U
2,2',3,3',6-Pentachlorobiphenyl	84	414	36.7	Q
2,2',3,4,4'-Pentachlorobiphenyl	85	351	26	C
2,2',3,4,5-Pentachlorobiphenyl	86	1780	26.1	C
2,2',3,4,5'-Pentachlorobiphenyl	87		26.1	C86
2,2',3,4,6-Pentachlorobiphenyl	88	194	32.3	QCJ
2,2',3,4,6'-Pentachlorobiphenyl	89		35	U
2,2',3,4',5-Pentachlorobiphenyl	90	6020	27.2	C
2,2',3,4',6-Pentachlorobiphenyl	91		32.3	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	942	32.9	
2,2',3,5,6-Pentachlorobiphenyl	93		31.7	U
2,2',3,5,6'-Pentachlorobiphenyl	94		34.7	U
2,2',3,5',6-Pentachlorobiphenyl	95	4220	31.8	
2,2',3,6,6'-Pentachlorobiphenyl	96		24.1	U
2,2',3,4',5'-Pentachlorobiphenyl	97		26.1	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	70.2	32.3	QCJ
2,2',4,4',5-Pentachlorobiphenyl	99	1140	25.9	C
2,2',4,4',6-Pentachlorobiphenyl	100		31.7	U
2,2',4,5,5'-Pentachlorobiphenyl	101		27.2	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		32.3	C98
2,2',4,5',6-Pentachlorobiphenyl	103		29.7	U
2,2',4,6,6'-Pentachlorobiphenyl	104		23.4	U
2,3,3',4,4'-Pentachlorobiphenyl	105	1030	15.3	
2,3,3',4,5-Pentachlorobiphenyl	106		15.9	U
2,3,3',4',5-Pentachlorobiphenyl	107	141	15.6	CJ
2,3,3',4,5'-Pentachlorobiphenyl	108		26.1	C86
2,3,3',4,6-Pentachlorobiphenyl	109	230	14	J
2,3,3',4',6-Pentachlorobiphenyl	110	4090	23	C
2,3,3',5,5'-Pentachlorobiphenyl	111		22.1	U
2,3,3',5,6-Pentachlorobiphenyl	112		25.9	C99
2,3,3',5',6-Pentachlorobiphenyl	113		27.2	C90
2,3,4,4',5-Pentachlorobiphenyl	114	60.7	12.1	J
2,3,4,4',6-Pentachlorobiphenyl	115		23	C110
2,3,4,5,6-Pentachlorobiphenyl	116		26	C85
2,3,4',5,6-Pentachlorobiphenyl	117		26	C85

Storm Water Sample PCB Congener Results
OUTFALL 005 - UNFILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118	2380	12.7	
2,3',4,4',6-Pentachlorobiphenyl	119		26.1	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		21.3	U
2,3',4,5',6-Pentachlorobiphenyl	121		23.2	U
2,3,3',4',5'-Pentachlorobiphenyl	122		16.5	U
2,3',4,4',5'-Pentachlorobiphenyl	123	42.9	12.3	QJ
2,3',4',5,5'-Pentachlorobiphenyl	124		15.6	C108
2,3',4',5',6-Pentachlorobiphenyl	125		26.1	C86
3,3',4,4',5-Pentachlorobiphenyl	126		18	U
3,3',4,5,5'-Pentachlorobiphenyl	127		14.5	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1090	32.1	C
2,2',3,3',4,5-Hexachlorobiphenyl	129	15200	33	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	545	41.9	Q
2,2',3,3',4,6-Hexachlorobiphenyl	131	128	42.1	QJ
2,2',3,3',4,6'-Hexachlorobiphenyl	132	4060	41.1	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	162	38.7	J
2,2',3,3',5,6-Hexachlorobiphenyl	134	547	42.1	QC
2,2',3,3',5,6'-Hexachlorobiphenyl	135	7450	59.3	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	2690	44	
2,2',3,4,4',5-Hexachlorobiphenyl	137	1300	31.5	QC
2,2',3,4,4',5'-Hexachlorobiphenyl	138		33	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	75.8	35.4	CJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140		35.4	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	3700	37.5	
2,2',3,4,5,6-Hexachlorobiphenyl	142		41.5	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		42.1	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	1170	58	Q
2,2',3,4,6,6'-Hexachlorobiphenyl	145		44.9	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	2330	33.9	
2,2',3,4',5,6-Hexachlorobiphenyl	147	13200	34.1	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		59.1	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		34.1	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		43	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		59.3	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		42.5	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	16200	29	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154	85.3	50.8	QJ
2,2',4,4',6,6'-Hexachlorobiphenyl	155		41.2	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	862	25.7	C

Storm Water Sample PCB Congener Results
OUTFALL 005 - UNFILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3,3',4,4',5'-Hexachlorobiphenyl	157		25.7	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	1340	25.2	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	245	26.5	
2,3,3',4,5,6-Hexachlorobiphenyl	160		29.5	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		27.4	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162		26.4	U
2,3,3',4',5,6-Hexachlorobiphenyl	163		33	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		31.5	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		30	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		32.1	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	422	20.5	Q
2,3',4,4',5',6-Hexachlorobiphenyl	168		29	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		28.9	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170		28.4	BJ
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	1980	36.9	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	962	37.3	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		36.9	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	6400	34.6	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	243	33.1	
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	889	26.3	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	3570	37	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	980	35.6	Q
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	2520	26	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180		24.9	BCJ
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		34.5	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		33.5	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	4650	33.1	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		24.4	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		33.1	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		26.6	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	6560	31.3	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		25.4	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	209	22.6	QJ
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	1310	26.6	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	252	26	
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		28.1	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		28.2	BC180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	2820	28.8	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1290	31.5	

Storm Water Sample PCB Congener Results
OUTFALL 005 - UNFILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	1740	43.2	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	599	31.5	C
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	3320	42.9	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		42.9	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		31.5	C197
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	375	31.4	Q
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	483	33.2	Q
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	2110	39.5	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		32.4	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	113	20	QJ
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	287	9.8	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207		8.8	U
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208		8.5	U
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	29	10.8	J

TOTAL CONGENER RESULTS = 180,525.70

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/L = Picograms per liter.

PCB congeners analyzed by USEPA Method 1668A.

Analytical data validated by SECOR personnel

Storm Water Sample PCB Congener Results
OUTFALL 005 - FILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2-Chlorobiphenyl	1	1120	13	
3-Chlorobiphenyl	2		11.9	U
4-Chlorobiphenyl	3		10.3	U
2,2'-Dichlorobiphenyl	4	18200	83.7	
2,3-Dichlorobiphenyl	5		52.3	U
2,3'-Dichlorobiphenyl	6		48	QB
2,4-Dichlorobiphenyl	7	78.8	50.1	QJ
2,4'-Dichlorobiphenyl	8	975	48	Q
2,5-Dichlorobiphenyl	9	57.6	50.4	QJ
2,6-Dichlorobiphenyl	10	592	52	
3,3'-Dichlorobiphenyl	11	34.2	50.2	QJ
3,4-Dichlorobiphenyl	12	208	48.5	QCJ
3,4'-Dichlorobiphenyl	13		48.5	C12
3,5-Dichlorobiphenyl	14		48	U
4,4'-Dichlorobiphenyl	15	908	38.7	Q
2,2',3-Trichlorobiphenyl	16	735	50	Q
2,2',4-Trichlorobiphenyl	17	1880	40.3	
2,2',5-Trichlorobiphenyl	18	1610	33.3	C
2,2',6-Trichlorobiphenyl	19	1360	43.5	
2,3,3'-Trichlorobiphenyl	20	921	14.8	C
2,3,4-Trichlorobiphenyl	21	176	15.3	QCJ
2,3,4'-Trichlorobiphenyl	22	147	16	QJ
2,3,5-Trichlorobiphenyl	23		16.4	U
2,3,6-Trichlorobiphenyl	24		29.2	U
2,3',4-Trichlorobiphenyl	25	121	13.9	QJ
2,3',5-Trichlorobiphenyl	26	269	15.3	C
2,3',6-Trichlorobiphenyl	27	986	28.5	
2,4,4'-Trichlorobiphenyl	28		14.8	C20
2,4,5-Trichlorobiphenyl	29		15.3	C26
2,4,6-Trichlorobiphenyl	30		33.3	C18
2,4',5-Trichlorobiphenyl	31	929	15.1	
2,4',6-Trichlorobiphenyl	32	640	26.1	Q
2,3',4'-Trichlorobiphenyl	33		15.3	C21
2,3',5'-Trichlorobiphenyl	34		15.9	U
3,3',4-Trichlorobiphenyl	35		15.8	U
3,3',5-Trichlorobiphenyl	36		14.8	U
3,4,4'-Trichlorobiphenyl	37	178	13.2	QJ
3,4,5-Trichlorobiphenyl	38		15.1	U
3,4',5-Trichlorobiphenyl	39		14	U

Storm Water Sample PCB Congener Results
OUTFALL 005 - FILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	366	20.3	QC
2,2',3,4-Tetrachlorobiphenyl	41		20.3	C40
2,2',3,4'-Tetrachlorobiphenyl	42	216	22.5	J
2,2',3,5-Tetrachlorobiphenyl	43		18.6	U
2,2',3,5'-Tetrachlorobiphenyl	44	1030	18.3	C
2,2',3,6-Tetrachlorobiphenyl	45	376	21.2	C
2,2',3,6'-Tetrachlorobiphenyl	46	81.3	24.8	J
2,2',4,4'-Tetrachlorobiphenyl	47		18.3	C44
2,2',4,5-Tetrachlorobiphenyl	48	146	20.3	QJ
2,2',4,5'-Tetrachlorobiphenyl	49	568	17.4	C
2,2',4,6-Tetrachlorobiphenyl	50	292	20.5	C
2,2',4,6'-Tetrachlorobiphenyl	51		21.2	C45
2,2',5,5'-Tetrachlorobiphenyl	52	1240	19.5	
2,2',5,6'-Tetrachlorobiphenyl	53		20.5	C50
2,2',6,6'-Tetrachlorobiphenyl	54		30.8	U
2,3,3',4-Tetrachlorobiphenyl	55		15.3	U
2,3,3',4'-Tetrachlorobiphenyl	56	456	15.1	
2,3,3',5-Tetrachlorobiphenyl	57		15.1	U
2,3,3',5'-Tetrachlorobiphenyl	58	166	14.7	QJ
2,3,3',6-Tetrachlorobiphenyl	59	75.9	14.8	CJ
2,3,4,4'-Tetrachlorobiphenyl	60	265	14.8	
2,3,4,5-Tetrachlorobiphenyl	61	1880	14.2	C
2,3,4,6-Tetrachlorobiphenyl	62		14.8	C59
2,3,4',5-Tetrachlorobiphenyl	63	37.6	14.1	J
2,3,4',6-Tetrachlorobiphenyl	64	310	14.7	Q
2,3,5,6-Tetrachlorobiphenyl	65		18.3	C44
2,3',4,4'-Tetrachlorobiphenyl	66	895	14	
2,3',4,5-Tetrachlorobiphenyl	67		13.1	U
2,3',4,5'-Tetrachlorobiphenyl	68		13.6	U
2,3',4,6-Tetrachlorobiphenyl	69		17.4	C49
2,3',4',5-Tetrachlorobiphenyl	70		14.2	C61
2,3',4',6-Tetrachlorobiphenyl	71		20.3	C40
2,3',5,5'-Tetrachlorobiphenyl	72		14.5	U
2,3',5',6-Tetrachlorobiphenyl	73		18.6	U
2,4,4',5-Tetrachlorobiphenyl	74		14.2	C61
2,4,4',6-Tetrachlorobiphenyl	75		14.8	C59
2,3',4',5'-Tetrachlorobiphenyl	76		14.2	C61
3,3',4,4'-Tetrachlorobiphenyl	77	115	13.1	QJ
3,3',4,5-Tetrachlorobiphenyl	78		14.5	U

Storm Water Sample PCB Congener Results
OUTFALL 005 - FILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
3,3',4,5'-Tetrachlorobiphenyl	79		12.2	U
3,3',5,5'-Tetrachlorobiphenyl	80		13	U
3,4,4',5-Tetrachlorobiphenyl	81	26.3	13	QJ
2,2',3,3',4-Pentachlorobiphenyl	82	297	35.9	
2,2',3,3',5-Pentachlorobiphenyl	83	150	37.2	QJ
2,2',3,3',6-Pentachlorobiphenyl	84	478	36.3	Q
2,2',3,4,4'-Pentachlorobiphenyl	85	488	25.7	C
2,2',3,4,5-Pentachlorobiphenyl	86	1860	25.8	C
2,2',3,4,5'-Pentachlorobiphenyl	87		25.8	C86
2,2',3,4,6-Pentachlorobiphenyl	88	261	31.9	CJ
2,2',3,4,6'-Pentachlorobiphenyl	89		34.6	U
2,2',3,4',5-Pentachlorobiphenyl	90	6520	26.8	C
2,2',3,4',6-Pentachlorobiphenyl	91		31.9	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	888	32.5	
2,2',3,5,6-Pentachlorobiphenyl	93		31.4	U
2,2',3,5,6'-Pentachlorobiphenyl	94		34.2	U
2,2',3,5',6-Pentachlorobiphenyl	95	4570	31.4	
2,2',3,6,6'-Pentachlorobiphenyl	96		23.9	U
2,2',3,4',5'-Pentachlorobiphenyl	97		25.8	C86
2,2',3,4',6'-Pentachlorobiphenyl	98		31.9	U
2,2',4,4',5-Pentachlorobiphenyl	99	1100	25.5	C
2,2',4,4',6-Pentachlorobiphenyl	100		31.4	U
2,2',4,5,5'-Pentachlorobiphenyl	101		26.8	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		31.9	U
2,2',4,5',6-Pentachlorobiphenyl	103		29.4	U
2,2',4,6,6'-Pentachlorobiphenyl	104		23.2	U
2,3,3',4,4'-Pentachlorobiphenyl	105	1080	14.6	
2,3,3',4,5-Pentachlorobiphenyl	106		15.7	U
2,3,3',4',5-Pentachlorobiphenyl	107	175	15.4	QCJ
2,3,3',4,5'-Pentachlorobiphenyl	108		25.8	C86
2,3,3',4,6-Pentachlorobiphenyl	109	280	13.9	
2,3,3',4',6-Pentachlorobiphenyl	110	4430	22.7	C
2,3,3',5,5'-Pentachlorobiphenyl	111		21.9	U
2,3,3',5,6-Pentachlorobiphenyl	112		25.5	C99
2,3,3',5',6-Pentachlorobiphenyl	113		26.8	C90
2,3,4,4',5-Pentachlorobiphenyl	114	66.3	12.3	J
2,3,4,4',6-Pentachlorobiphenyl	115		22.7	C110
2,3,4,5,6-Pentachlorobiphenyl	116		25.7	C85
2,3,4',5,6-Pentachlorobiphenyl	117		25.7	C85

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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118	2650	12.5	
2,3',4,4',6-Pentachlorobiphenyl	119		25.8	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		21	U
2,3',4,5',6-Pentachlorobiphenyl	121		22.9	U
2,3,3',4',5'-Pentachlorobiphenyl	122	37.9	16.3	QJ
2,3',4,4',5'-Pentachlorobiphenyl	123	26.9	12.1	QJ
2,3',4',5,5'-Pentachlorobiphenyl	124		15.4	C108
2,3',4',5',6-Pentachlorobiphenyl	125		25.8	C86
3,3',4,4',5-Pentachlorobiphenyl	126		18	U
3,3',4,5,5'-Pentachlorobiphenyl	127		14.4	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1360	31.4	C
2,2',3,3',4,5-Hexachlorobiphenyl	129	17000	32.2	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	787	40.9	
2,2',3,3',4,6-Hexachlorobiphenyl	131	140	41.2	J
2,2',3,3',4,6'-Hexachlorobiphenyl	132	5070	40.2	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	148	37.8	QJ
2,2',3,3',5,6-Hexachlorobiphenyl	134	667	41.2	QC
2,2',3,3',5,6'-Hexachlorobiphenyl	135	8390	58	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	3080	43	
2,2',3,4,4',5-Hexachlorobiphenyl	137	1510	30.8	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138		32.2	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	94	34.6	QCJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140		34.6	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	4260	36.6	
2,2',3,4,5,6-Hexachlorobiphenyl	142		40.5	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		41.2	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	1350	56.7	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		43.9	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	2580	33.2	
2,2',3,4',5,6-Hexachlorobiphenyl	147	15200	33.3	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		57.7	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		33.3	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		42	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		58	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		41.5	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	18300	28.3	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154		49.6	U
2,2',4,4',6,6'-Hexachlorobiphenyl	155		40.2	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	1050	24.7	C

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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3,3',4,4',5'-Hexachlorobiphenyl	157		24.7	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	1500	24.7	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	335	25.9	
2,3,3',4,5,6-Hexachlorobiphenyl	160		28.8	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		26.8	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162		25.8	U
2,3,3',4',5,6-Hexachlorobiphenyl	163		32.2	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		30.8	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		29.4	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		31.4	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	560	21.1	
2,3',4,4',5',6-Hexachlorobiphenyl	168		28.3	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		27.3	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	5500	24.7	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	2090	31.2	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	1260	31.6	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		31.2	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	6570	29.3	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	268	28	
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	877	22.2	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	3650	31.3	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	1340	30.1	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	2990	22	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180		20.8	BCJ
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		29.2	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		28.4	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	4760	28	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		20.6	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		28	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		22.5	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	7580	26.5	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		21.5	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	256	19	J
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	1360	22.5	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	322	22	
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		23.8	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		23.8	BC180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	3040	22.6	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1270	24.8	

Storm Water Sample PCB Congener Results
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Amtrak Former Fueling Facility
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Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	2180	33.9	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	579	24.7	C
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	3580	33.6	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		33.6	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		24.7	C197
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	458	24.7	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	560	26	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	2310	31	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		25.4	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	130	15.7	QJ
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	374	11.8	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	28.3	10.6	QJ
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	60	10.2	QJ
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	43.5	9	QJ

TOTAL CONGENER RESULTS = 202,842.60

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/L = Picograms per liter.

PCB congeners analyzed by USEPA Method 1668A.

Analytical data validated by SECOR personnel

P:\Clients\Amtrak-APU\Phase 2 RI Laboratory Data\Attachments\Attachment E\[11-12-04 wet weather congener results validated.xls]005 fil valid wo B

Storm Water Sample PCB Congener Results
OUTFALL 006 - UNFILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2-Chlorobiphenyl	1		9.1	U
3-Chlorobiphenyl	2		8.3	U
4-Chlorobiphenyl	3		7.2	U
2,2'-Dichlorobiphenyl	4	2100	104	Q
2,3-Dichlorobiphenyl	5		65.1	U
2,3'-Dichlorobiphenyl	6		59.7	U
2,4-Dichlorobiphenyl	7		62.4	U
2,4'-Dichlorobiphenyl	8		59.8	U
2,5-Dichlorobiphenyl	9		62.7	U
2,6-Dichlorobiphenyl	10	174	64.8	QJ
3,3'-Dichlorobiphenyl	11		62.5	U
3,4-Dichlorobiphenyl	12		60.4	U
3,4'-Dichlorobiphenyl	13		60.4	U
3,5-Dichlorobiphenyl	14		59.8	U
4,4'-Dichlorobiphenyl	15	170	48.2	QJ
2,2',3-Trichlorobiphenyl	16		45.4	U
2,2',4-Trichlorobiphenyl	17	287	36.6	
2,2',5-Trichlorobiphenyl	18	224	30.3	CJ
2,2',6-Trichlorobiphenyl	19	836	39.5	
2,3,3'-Trichlorobiphenyl	20	262	13.4	C
2,3,4-Trichlorobiphenyl	21	32.7	13.9	QCJ
2,3,4'-Trichlorobiphenyl	22		14.5	U
2,3,5-Trichlorobiphenyl	23		14.9	U
2,3,6-Trichlorobiphenyl	24	104	26.6	J
2,3',4-Trichlorobiphenyl	25	31.6	12.6	QJ
2,3',5-Trichlorobiphenyl	26	69.2	13.9	QCJ
2,3',6-Trichlorobiphenyl	27	137	25.9	J
2,4,4'-Trichlorobiphenyl	28		13.4	C20
2,4,5-Trichlorobiphenyl	29		13.9	C26
2,4,6-Trichlorobiphenyl	30		30.3	C18
2,4',5-Trichlorobiphenyl	31	119	13.7	QJ
2,4',6-Trichlorobiphenyl	32	253	23.7	
2,3',4'-Trichlorobiphenyl	33		13.9	C21
2,3',5'-Trichlorobiphenyl	34		14.5	U
3,3',4-Trichlorobiphenyl	35		14.4	U
3,3',5-Trichlorobiphenyl	36		13.4	U
3,4,4'-Trichlorobiphenyl	37	43.4	12	QJ
3,4,5-Trichlorobiphenyl	38		13.7	U
3,4',5-Trichlorobiphenyl	39		12.7	U

Storm Water Sample PCB Congener Results
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Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	228	23.6	QCJ
2,2',3,4-Tetrachlorobiphenyl	41		23.6	C40
2,2',3,4'-Tetrachlorobiphenyl	42	99.9	26.2	QJ
2,2',3,5-Tetrachlorobiphenyl	43		21.6	U
2,2',3,5'-Tetrachlorobiphenyl	44	871	21.3	C
2,2',3,6-Tetrachlorobiphenyl	45	346	24.7	QC
2,2',3,6'-Tetrachlorobiphenyl	46		28.8	U
2,2',4,4'-Tetrachlorobiphenyl	47		21.3	C44
2,2',4,5-Tetrachlorobiphenyl	48		23.6	U
2,2',4,5'-Tetrachlorobiphenyl	49	622	20.2	C
2,2',4,6-Tetrachlorobiphenyl	50	330	23.8	C
2,2',4,6'-Tetrachlorobiphenyl	51		24.7	C45
2,2',5,5'-Tetrachlorobiphenyl	52	847	22.7	Q
2,2',5,6'-Tetrachlorobiphenyl	53		23.8	C50
2,2',6,6'-Tetrachlorobiphenyl	54	114	35.8	QJ
2,3,3',4-Tetrachlorobiphenyl	55		17.8	U
2,3,3',4'-Tetrachlorobiphenyl	56	112	17.6	QJ
2,3,3',5-Tetrachlorobiphenyl	57		17.5	U
2,3,3',5'-Tetrachlorobiphenyl	58	165	17.1	QJ
2,3,3',6-Tetrachlorobiphenyl	59	45	17.2	QCJ
2,3,4,4'-Tetrachlorobiphenyl	60	31.1	17.3	QJ
2,3,4,5-Tetrachlorobiphenyl	61	681	16.5	C
2,3,4,6-Tetrachlorobiphenyl	62		17.2	C59
2,3,4',5-Tetrachlorobiphenyl	63	24.3	16.4	QJ
2,3,4',6-Tetrachlorobiphenyl	64	140	17.1	J
2,3,5,6-Tetrachlorobiphenyl	65		21.3	C44
2,3',4,4'-Tetrachlorobiphenyl	66	409	16.3	
2,3',4,5-Tetrachlorobiphenyl	67		15.2	U
2,3',4,5'-Tetrachlorobiphenyl	68		15.8	U
2,3',4,6-Tetrachlorobiphenyl	69		20.2	C49
2,3',4',5-Tetrachlorobiphenyl	70		16.5	C61
2,3',4',6-Tetrachlorobiphenyl	71		23.6	C40
2,3',5,5'-Tetrachlorobiphenyl	72		16.9	U
2,3',5',6-Tetrachlorobiphenyl	73		21.6	U
2,4,4',5-Tetrachlorobiphenyl	74		16.5	C61
2,4,4',6-Tetrachlorobiphenyl	75		17.2	C59
2,3',4',5'-Tetrachlorobiphenyl	76		16.5	C61
3,3',4,4'-Tetrachlorobiphenyl	77		15.2	U
3,3',4,5-Tetrachlorobiphenyl	78		16.8	U

Storm Water Sample PCB Congener Results
OUTFALL 006 - UNFILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
3,3',4,5'-Tetrachlorobiphenyl	79		14.2	U
3,3',5,5'-Tetrachlorobiphenyl	80		15.1	U
3,4,4',5-Tetrachlorobiphenyl	81		14.1	U
2,2',3,3',4-Pentachlorobiphenyl	82	168	38.8	J
2,2',3,3',5-Pentachlorobiphenyl	83	78.5	40.2	QJ
2,2',3,3',6-Pentachlorobiphenyl	84	518	39.2	
2,2',3,4,4'-Pentachlorobiphenyl	85	237	27.8	CJ
2,2',3,4,5-Pentachlorobiphenyl	86	1130	27.8	C
2,2',3,4,5'-Pentachlorobiphenyl	87		27.8	C86
2,2',3,4,6-Pentachlorobiphenyl	88	290	34.5	QC
2,2',3,4,6'-Pentachlorobiphenyl	89		37.4	U
2,2',3,4',5-Pentachlorobiphenyl	90	3590	29	C
2,2',3,4',6-Pentachlorobiphenyl	91		34.5	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	679	35.1	Q
2,2',3,5,6-Pentachlorobiphenyl	93	88.8	33.9	QCJ
2,2',3,5,6'-Pentachlorobiphenyl	94		37	U
2,2',3,5',6-Pentachlorobiphenyl	95	3640	33.9	
2,2',3,6,6'-Pentachlorobiphenyl	96		25.8	U
2,2',3,4',5'-Pentachlorobiphenyl	97		27.8	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	133	34.5	CJ
2,2',4,4',5-Pentachlorobiphenyl	99	869	27.6	C
2,2',4,4',6-Pentachlorobiphenyl	100		33.9	C93
2,2',4,5,5'-Pentachlorobiphenyl	101		29	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		34.5	C98
2,2',4,5',6-Pentachlorobiphenyl	103		31.7	U
2,2',4,6,6'-Pentachlorobiphenyl	104		25	U
2,3,3',4,4'-Pentachlorobiphenyl	105	637	16	
2,3,3',4,5-Pentachlorobiphenyl	106		16.9	U
2,3,3',4',5-Pentachlorobiphenyl	107	69.3	16.7	QCJ
2,3,3',4,5'-Pentachlorobiphenyl	108		27.8	C86
2,3,3',4,6-Pentachlorobiphenyl	109	152	15	QJ
2,3,3',4',6-Pentachlorobiphenyl	110	3320	24.6	C
2,3,3',5,5'-Pentachlorobiphenyl	111		23.6	U
2,3,3',5,6-Pentachlorobiphenyl	112		27.6	C99
2,3,3',5',6-Pentachlorobiphenyl	113		29	C90
2,3,4,4',5-Pentachlorobiphenyl	114	51.3	12.8	J
2,3,4,4',6-Pentachlorobiphenyl	115		24.6	C110
2,3,4,5,6-Pentachlorobiphenyl	116		27.8	C85
2,3,4',5,6-Pentachlorobiphenyl	117		27.8	C85

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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118	1610	13.8	
2,3',4,4',6-Pentachlorobiphenyl	119		27.8	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		22.7	U
2,3',4,5',6-Pentachlorobiphenyl	121		24.7	U
2,3,3',4',5'-Pentachlorobiphenyl	122		17.6	U
2,3',4,4',5'-Pentachlorobiphenyl	123	25.8	13.4	QJ
2,3',4',5,5'-Pentachlorobiphenyl	124		16.7	C108
2,3',4',5',6-Pentachlorobiphenyl	125		27.8	C86
3,3',4,4',5-Pentachlorobiphenyl	126		18.9	U
3,3',4,5,5'-Pentachlorobiphenyl	127		15.5	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1050	32	C
2,2',3,3',4,5-Hexachlorobiphenyl	129	10500	32.8	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	495	41.7	Q
2,2',3,3',4,6-Hexachlorobiphenyl	131		42	U
2,2',3,3',4,6'-Hexachlorobiphenyl	132	3100	40.9	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	189	38.5	QJ
2,2',3,3',5,6-Hexachlorobiphenyl	134	478	42	C
2,2',3,3',5,6'-Hexachlorobiphenyl	135	5690	59.1	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	1940	43.8	
2,2',3,4,4',5-Hexachlorobiphenyl	137	1130	31.3	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138	0	32.8	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139		35.2	U
2,2',3,4,4',6'-Hexachlorobiphenyl	140		35.2	U
2,2',3,4,5,5'-Hexachlorobiphenyl	141	2800	37.3	
2,2',3,4,5,6-Hexachlorobiphenyl	142		41.3	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		42	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	769	57.7	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		44.7	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	1850	33.8	
2,2',3,4',5,6-Hexachlorobiphenyl	147	9370	33.9	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		58.8	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		33.9	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		42.8	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		59.1	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		42.3	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	9930	28.8	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154	104	50.5	QJ
2,2',4,4',6,6'-Hexachlorobiphenyl	155		41	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	529	24.6	C

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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3,3',4,4',5'-Hexachlorobiphenyl	157		24.6	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	802	25.1	Q
2,3,3',4,5,5'-Hexachlorobiphenyl	159	212	26.3	QJ
2,3,3',4,5,6-Hexachlorobiphenyl	160		29.3	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		27.3	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162		26.3	U
2,3,3',4',5,6-Hexachlorobiphenyl	163		32.8	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		31.3	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		29.9	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		32	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	356	21.3	
2,3',4,4',5',6-Hexachlorobiphenyl	168		28.8	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		29.4	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	3760	25.7	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	1440	30.6	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	827	30.9	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		30.6	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	4620	28.7	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	146	27.5	J
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	577	21.8	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	2450	30.7	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	789	29.5	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	1790	21.5	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	8510	20.4	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		28.6	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		27.8	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	2730	27.5	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		20.2	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		27.5	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		22	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	4690	25.9	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		21.1	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	161	17.9	J
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	915	22.1	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	235	21.6	J
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		23.3	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		23.4	C180
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	2150	22.3	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	950	24.5	

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2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	1310	33.5	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	418	24.4	QC
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	2220	33.2	QC
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		33.2	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		24.4	C197
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	267	24.4	Q
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	335	25.7	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	1470	30.6	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		25.1	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	83.1	15.5	QJ
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	229	11.3	J
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207		10.2	U
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	27.4	9.8	QJ
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	119	9	QJ
TOTAL CONGENER RESULTS =		**121,707.40**		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/L = Picograms per liter.

PCB congeners analyzed by USEPA Method 1668A.

Analytical data validated by SECOR personnel

Storm Water Sample PCB Congener Results
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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2-Chlorobiphenyl	1		9.4	U
3-Chlorobiphenyl	2		8.6	U
4-Chlorobiphenyl	3		7.5	U
2,2'-Dichlorobiphenyl	4	2420	127	Q
2,3-Dichlorobiphenyl	5		79.2	U
2,3'-Dichlorobiphenyl	6		72.7	U
2,4-Dichlorobiphenyl	7		75.9	U
2,4'-Dichlorobiphenyl	8		72.8	U
2,5-Dichlorobiphenyl	9		76.3	U
2,6-Dichlorobiphenyl	10	211	78.9	QJ
3,3'-Dichlorobiphenyl	11		76.1	U
3,4-Dichlorobiphenyl	12		73.6	U
3,4'-Dichlorobiphenyl	13		73.6	U
3,5-Dichlorobiphenyl	14		72.7	U
4,4'-Dichlorobiphenyl	15	236	58.6	J
2,2',3-Trichlorobiphenyl	16		52.8	U
2,2',4-Trichlorobiphenyl	17	230	42.6	J
2,2',5-Trichlorobiphenyl	18	193	35.2	QCJ
2,2',6-Trichlorobiphenyl	19	803	46	Q
2,3,3'-Trichlorobiphenyl	20	182	15.6	QCJ
2,3,4-Trichlorobiphenyl	21	21.6	16.1	QCJ
2,3,4'-Trichlorobiphenyl	22		16.9	U
2,3,5-Trichlorobiphenyl	23		17.3	U
2,3,6-Trichlorobiphenyl	24		30.9	U
2,3',4-Trichlorobiphenyl	25		14.7	U
2,3',5-Trichlorobiphenyl	26	50.5	16.2	CJ
2,3',6-Trichlorobiphenyl	27	136	30.1	QJ
2,4,4'-Trichlorobiphenyl	28		15.6	C20
2,4,5-Trichlorobiphenyl	29		16.2	C26
2,4,6-Trichlorobiphenyl	30		35.2	C18
2,4',5-Trichlorobiphenyl	31	120	15.9	QJ
2,4',6-Trichlorobiphenyl	32	312	27.6	
2,3',4'-Trichlorobiphenyl	33		16.1	C21
2,3',5'-Trichlorobiphenyl	34		16.8	U
3,3',4-Trichlorobiphenyl	35		16.7	U
3,3',5-Trichlorobiphenyl	36		15.6	U
3,4,4'-Trichlorobiphenyl	37	28.6	13.9	QJ
3,4,5-Trichlorobiphenyl	38		16	U
3,4',5-Trichlorobiphenyl	39		14.8	U
2,2',3,3'-Tetrachlorobiphenyl	40	261	27.1	CJ

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2,2',3,4-Tetrachlorobiphenyl	41		27.1	C40
2,2',3,4'-Tetrachlorobiphenyl	42	92.6	30.1	QJ
2,2',3,5-Tetrachlorobiphenyl	43		24.9	U
2,2',3,5'-Tetrachlorobiphenyl	44	746	24.5	C
2,2',3,6-Tetrachlorobiphenyl	45	363	28.4	C
2,2',3,6'-Tetrachlorobiphenyl	46		33.1	U
2,2',4,4'-Tetrachlorobiphenyl	47		24.5	C44
2,2',4,5-Tetrachlorobiphenyl	48		27.2	U
2,2',4,5'-Tetrachlorobiphenyl	49	404	23.2	C
2,2',4,6-Tetrachlorobiphenyl	50	346	27.3	C
2,2',4,6'-Tetrachlorobiphenyl	51		28.4	C45
2,2',5,5'-Tetrachlorobiphenyl	52	733	26.1	
2,2',5,6'-Tetrachlorobiphenyl	53		27.3	C50
2,2',6,6'-Tetrachlorobiphenyl	54		41.1	U
2,3,3',4-Tetrachlorobiphenyl	55		20.5	U
2,3,3',4'-Tetrachlorobiphenyl	56	87.6	20.2	QJ
2,3,3',5-Tetrachlorobiphenyl	57		20.1	U
2,3,3',5'-Tetrachlorobiphenyl	58		19.7	U
2,3,3',6-Tetrachlorobiphenyl	59		19.8	U
2,3,4,4'-Tetrachlorobiphenyl	60	25.6	19.8	QJ
2,3,4,5-Tetrachlorobiphenyl	61	496	19	C
2,3,4,6-Tetrachlorobiphenyl	62		19.8	U
2,3,4',5-Tetrachlorobiphenyl	63		18.8	U
2,3,4',6-Tetrachlorobiphenyl	64	122	19.7	QJ
2,3,5,6-Tetrachlorobiphenyl	65		24.5	C44
2,3',4,4'-Tetrachlorobiphenyl	66	293	18.7	Q
2,3',4,5-Tetrachlorobiphenyl	67		17.5	U
2,3',4,5'-Tetrachlorobiphenyl	68		18.2	U
2,3',4,6-Tetrachlorobiphenyl	69		23.2	C49
2,3',4',5-Tetrachlorobiphenyl	70		19	C61
2,3',4',6-Tetrachlorobiphenyl	71		27.1	C40
2,3',5,5'-Tetrachlorobiphenyl	72		19.4	U
2,3',5',6-Tetrachlorobiphenyl	73		24.9	U
2,4,4',5-Tetrachlorobiphenyl	74		19	C61
2,4,4',6-Tetrachlorobiphenyl	75		19.8	U
2,3',4',5'-Tetrachlorobiphenyl	76		19	C61
3,3',4,4'-Tetrachlorobiphenyl	77		17.5	U
3,3',4,5-Tetrachlorobiphenyl	78		19.4	U
3,3',4,5'-Tetrachlorobiphenyl	79		16.4	U
3,3',5,5'-Tetrachlorobiphenyl	80		17.4	U

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3,4,4',5-Tetrachlorobiphenyl	81		16.5	U
2,2',3,3',4-Pentachlorobiphenyl	82	102	45.7	QJ
2,2',3,3',5-Pentachlorobiphenyl	83	85.7	47.4	J
2,2',3,3',6-Pentachlorobiphenyl	84	256	46.2	QJ
2,2',3,4,4'-Pentachlorobiphenyl	85	121	32.7	QCJ
2,2',3,4,5-Pentachlorobiphenyl	86	813	32.8	C
2,2',3,4,5'-Pentachlorobiphenyl	87		32.8	C86
2,2',3,4,6-Pentachlorobiphenyl	88	258	40.7	QCJ
2,2',3,4,6'-Pentachlorobiphenyl	89		44.1	U
2,2',3,4',5-Pentachlorobiphenyl	90	2810	34.2	C
2,2',3,4',6-Pentachlorobiphenyl	91		40.7	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	584	41.4	Q
2,2',3,5,6-Pentachlorobiphenyl	93		40	U
2,2',3,5,6'-Pentachlorobiphenyl	94		43.6	U
2,2',3,5',6-Pentachlorobiphenyl	95	2640	40	
2,2',3,6,6'-Pentachlorobiphenyl	96		30.4	U
2,2',3,4',5'-Pentachlorobiphenyl	97		32.8	C86
2,2',3,4',6'-Pentachlorobiphenyl	98		40.7	U
2,2',4,4',5-Pentachlorobiphenyl	99	565	32.5	QC
2,2',4,4',6-Pentachlorobiphenyl	100		40	U
2,2',4,5,5'-Pentachlorobiphenyl	101		34.2	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		40.7	U
2,2',4,5',6-Pentachlorobiphenyl	103		37.4	U
2,2',4,6,6'-Pentachlorobiphenyl	104		29.5	U
2,3,3',4,4'-Pentachlorobiphenyl	105	412	18.3	
2,3,3',4,5-Pentachlorobiphenyl	106		20	U
2,3,3',4',5-Pentachlorobiphenyl	107		19.7	U
2,3,3',4,5'-Pentachlorobiphenyl	108		32.8	C86
2,3,3',4,6-Pentachlorobiphenyl	109	105	17.7	QJ
2,3,3',4',6-Pentachlorobiphenyl	110	2350	29	C
2,3,3',5,5'-Pentachlorobiphenyl	111		27.9	U
2,3,3',5,6-Pentachlorobiphenyl	112		32.5	C99
2,3,3',5',6-Pentachlorobiphenyl	113		34.2	C90
2,3,4,4',5-Pentachlorobiphenyl	114		14.7	U
2,3,4,4',6-Pentachlorobiphenyl	115		29	C110
2,3,4,5,6-Pentachlorobiphenyl	116		32.7	C85
2,3,4',5,6-Pentachlorobiphenyl	117		32.7	C85
2,3',4,4',5-Pentachlorobiphenyl	118	1060	16.4	
2,3',4,4',6-Pentachlorobiphenyl	119		32.8	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		26.8	U

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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3',4,5',6-Pentachlorobiphenyl	121		29.2	U
2,3,3',4',5'-Pentachlorobiphenyl	122		20.7	U
2,3',4,4',5'-Pentachlorobiphenyl	123		15.8	U
2,3',4',5,5'-Pentachlorobiphenyl	124		19.7	U
2,3',4',5',6-Pentachlorobiphenyl	125		32.8	C86
3,3',4,4',5-Pentachlorobiphenyl	126		23.7	U
3,3',4,5,5'-Pentachlorobiphenyl	127		18.3	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	677	31.3	C
2,2',3,3',4,5-Hexachlorobiphenyl	129	7280	32.1	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	331	40.7	
2,2',3,3',4,6-Hexachlorobiphenyl	131	87.3	41	J
2,2',3,3',4,6'-Hexachlorobiphenyl	132	2360	40	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	91.4	37.6	QJ
2,2',3,3',5,6-Hexachlorobiphenyl	134	325	41	QC
2,2',3,3',5,6'-Hexachlorobiphenyl	135	4240	57.7	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	1320	42.8	
2,2',3,4,4',5-Hexachlorobiphenyl	137	762	30.6	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138		32.1	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139		34.4	U
2,2',3,4,4',6'-Hexachlorobiphenyl	140		34.4	U
2,2',3,4,5,5'-Hexachlorobiphenyl	141	1850	36.5	
2,2',3,4,5,6-Hexachlorobiphenyl	142		40.3	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		41	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	449	56.4	Q
2,2',3,4,6,6'-Hexachlorobiphenyl	145		43.7	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	1160	33	Q
2,2',3,4',5,6-Hexachlorobiphenyl	147	6930	33.1	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		57.4	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		33.1	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		41.8	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		57.7	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		41.3	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	7470	28.2	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154	94.8	49.4	J
2,2',4,4',6,6'-Hexachlorobiphenyl	155		40	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	399	24.3	C
2,3,3',4,4',5'-Hexachlorobiphenyl	157		24.3	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	654	24.5	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	129	25.7	QJ
2,3,3',4,5,6-Hexachlorobiphenyl	160		28.6	U

Storm Water Sample PCB Congener Results
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Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3,3',4,5',6-Hexachlorobiphenyl	161		26.7	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	131	25.7	J
2,3,3',4',5,6-Hexachlorobiphenyl	163		32.1	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		30.6	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		29.2	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		31.3	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	251	19.4	J
2,3',4,4',5',6-Hexachlorobiphenyl	168		28.2	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		31.4	UJ
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	2510	29.5	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	888	35.7	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	496	36.2	Q
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		35.7	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	3070	33.5	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	94.1	32.1	QJ
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	360	25.4	Q
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	1660	35.8	Q
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	561	34.5	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	1310	25.1	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	5990	25.2	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		33.5	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		32.5	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	1930	32.1	QC
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		23.6	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		32.1	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		25.7	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	3460	30.3	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		24.6	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	112	20.3	J
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	684	25.8	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	127	25.2	QJ
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		27.2	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		27.3	C180
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	1490	22.1	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	643	24.2	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	1080	33.1	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	180	24.2	CJ
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	1700	32.9	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		32.9	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		24.2	C197

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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	229	24.1	J
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	191	25.5	QJ
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	1010	30.3	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		24.8	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	65.1	15.4	QJ
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	138	9.6	QJ
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207		8.7	U
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208		8.4	U
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209		11.1	U
TOTAL CONGENER RESULTS =		**88,044.90**		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/L = Picograms per liter.

PCB congeners analyzed by USEPA Method 1668A.

Analytical data validated by SECOR personnel

Storm Water Sample PCB Congener Results
RAILCAR AVENUE - UNFILTERED
11/12/2004
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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2-Chlorobiphenyl	1		8.7	U
3-Chlorobiphenyl	2		8	U
4-Chlorobiphenyl	3		6.9	U
2,2'-Dichlorobiphenyl	4	5760	142	Q
2,3-Dichlorobiphenyl	5		88.8	U
2,3'-Dichlorobiphenyl	6		81.5	U
2,4-Dichlorobiphenyl	7		85.1	U
2,4'-Dichlorobiphenyl	8	248	81.6	Q
2,5-Dichlorobiphenyl	9		85.6	U
2,6-Dichlorobiphenyl	10	392	88.4	Q
3,3'-Dichlorobiphenyl	11		85.3	U
3,4-Dichlorobiphenyl	12		82.5	U
3,4'-Dichlorobiphenyl	13		82.5	U
3,5-Dichlorobiphenyl	14		81.6	U
4,4'-Dichlorobiphenyl	15	217	65.7	QJ
2,2',3-Trichlorobiphenyl	16	189	64.8	QJ
2,2',4-Trichlorobiphenyl	17	926	52.3	
2,2',5-Trichlorobiphenyl	18	399	43.2	QC
2,2',6-Trichlorobiphenyl	19	5600	56.4	
2,3,3'-Trichlorobiphenyl	20		19.1	QBCJ
2,3,4-Trichlorobiphenyl	21	186	19.8	CJ
2,3,4'-Trichlorobiphenyl	22	125	20.8	J
2,3,5-Trichlorobiphenyl	23		21.3	U
2,3,6-Trichlorobiphenyl	24		37.9	U
2,3',4-Trichlorobiphenyl	25	88	18	QJ
2,3',5-Trichlorobiphenyl	26	80.6	19.9	QCJ
2,3',6-Trichlorobiphenyl	27	605	36.9	Q
2,4,4'-Trichlorobiphenyl	28		19.1	QBC20J
2,4,5-Trichlorobiphenyl	29		19.9	C26
2,4,6-Trichlorobiphenyl	30		43.2	C18
2,4',5-Trichlorobiphenyl	31		19.5	QJB
2,4',6-Trichlorobiphenyl	32	813	33.9	
2,3',4'-Trichlorobiphenyl	33		19.8	C21
2,3',5'-Trichlorobiphenyl	34		20.7	U
3,3',4-Trichlorobiphenyl	35		20.5	U
3,3',5-Trichlorobiphenyl	36		19.1	U
3,4,4'-Trichlorobiphenyl	37	86.5	17.1	J
3,4,5-Trichlorobiphenyl	38		19.6	U
3,4',5-Trichlorobiphenyl	39		18.2	U

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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	344	29.5	C
2,2',3,4-Tetrachlorobiphenyl	41		29.5	C40
2,2',3,4'-Tetrachlorobiphenyl	42	132	32.7	J
2,2',3,5-Tetrachlorobiphenyl	43	59.9	27	QCJ
2,2',3,5'-Tetrachlorobiphenyl	44	2000	26.6	C
2,2',3,6-Tetrachlorobiphenyl	45	1760	30.8	C
2,2',3,6'-Tetrachlorobiphenyl	46	106	36	J
2,2',4,4'-Tetrachlorobiphenyl	47		26.6	C44
2,2',4,5-Tetrachlorobiphenyl	48	52.3	29.5	QJ
2,2',4,5'-Tetrachlorobiphenyl	49	1100	25.2	C
2,2',4,6-Tetrachlorobiphenyl	50	1350	29.7	C
2,2',4,6'-Tetrachlorobiphenyl	51		30.8	C45
2,2',5,5'-Tetrachlorobiphenyl	52	1280	28.3	
2,2',5,6'-Tetrachlorobiphenyl	53		29.7	C50
2,2',6,6'-Tetrachlorobiphenyl	54	930	44.7	
2,3,3',4-Tetrachlorobiphenyl	55		22.3	U
2,3,3',4'-Tetrachlorobiphenyl	56	566	21.9	
2,3,3',5-Tetrachlorobiphenyl	57	125	21.9	J
2,3,3',5'-Tetrachlorobiphenyl	58		21.4	U
2,3,3',6-Tetrachlorobiphenyl	59	64.4	21.5	CJ
2,3,4,4'-Tetrachlorobiphenyl	60	216	21.6	QJ
2,3,4,5-Tetrachlorobiphenyl	61	2150	20.6	C
2,3,4,6-Tetrachlorobiphenyl	62		21.5	C59
2,3,4',5-Tetrachlorobiphenyl	63	30.3	20.5	QJ
2,3,4',6-Tetrachlorobiphenyl	64	243	21.4	
2,3,5,6-Tetrachlorobiphenyl	65		26.6	C44
2,3',4,4'-Tetrachlorobiphenyl	66	1200	20.3	
2,3',4,5-Tetrachlorobiphenyl	67		19	U
2,3',4,5'-Tetrachlorobiphenyl	68		19.8	U
2,3',4,6-Tetrachlorobiphenyl	69		25.2	C49
2,3',4',5-Tetrachlorobiphenyl	70		20.6	C61
2,3',4',6-Tetrachlorobiphenyl	71		29.5	C40
2,3',5,5'-Tetrachlorobiphenyl	72		21.1	U
2,3',5',6-Tetrachlorobiphenyl	73		27	C43
2,4,4',5-Tetrachlorobiphenyl	74		20.6	C61
2,4,4',6-Tetrachlorobiphenyl	75		21.5	C59
2,3',4',5'-Tetrachlorobiphenyl	76		20.6	C61
3,3',4,4'-Tetrachlorobiphenyl	77	230	19	QJ
3,3',4,5-Tetrachlorobiphenyl	78		21	U

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3,3',4,5'-Tetrachlorobiphenyl	79	47.8	17.8	QJ
3,3',5,5'-Tetrachlorobiphenyl	80		18.9	U
3,4,4',5-Tetrachlorobiphenyl	81		17.8	U
2,2',3,3',4-Pentachlorobiphenyl	82	506	56.8	Q
2,2',3,3',5-Pentachlorobiphenyl	83	198	58.9	J
2,2',3,3',6-Pentachlorobiphenyl	84	615	57.4	Q
2,2',3,4,4'-Pentachlorobiphenyl	85	727	40.7	QC
2,2',3,4,5-Pentachlorobiphenyl	86	2680	40.8	C
2,2',3,4,5'-Pentachlorobiphenyl	87		40.8	C86
2,2',3,4,6-Pentachlorobiphenyl	88	302	50.6	QC
2,2',3,4,6'-Pentachlorobiphenyl	89		54.8	U
2,2',3,4',5-Pentachlorobiphenyl	90	4430	42.5	QC
2,2',3,4',6-Pentachlorobiphenyl	91		50.6	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	628	51.5	
2,2',3,5,6-Pentachlorobiphenyl	93	150	49.7	QCJ
2,2',3,5,6'-Pentachlorobiphenyl	94		54.2	U
2,2',3,5',6-Pentachlorobiphenyl	95	2740	49.7	Q
2,2',3,6,6'-Pentachlorobiphenyl	96		37.8	U
2,2',3,4',5'-Pentachlorobiphenyl	97		40.8	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	67.6	50.5	QCJ
2,2',4,4',5-Pentachlorobiphenyl	99	1690	40.5	C
2,2',4,4',6-Pentachlorobiphenyl	100		49.7	C93
2,2',4,5,5'-Pentachlorobiphenyl	101		42.5	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		50.5	C98
2,2',4,5',6-Pentachlorobiphenyl	103		46.5	U
2,2',4,6,6'-Pentachlorobiphenyl	104		36.7	U
2,3,3',4,4'-Pentachlorobiphenyl	105	3210	24.2	
2,3,3',4,5-Pentachlorobiphenyl	106		24.8	U
2,3,3',4',5-Pentachlorobiphenyl	107	217	24.5	QCJ
2,3,3',4,5'-Pentachlorobiphenyl	108		40.8	C86
2,3,3',4,6-Pentachlorobiphenyl	109	397	22	
2,3,3',4',6-Pentachlorobiphenyl	110	6490	36	C
2,3,3',5,5'-Pentachlorobiphenyl	111		34.6	U
2,3,3',5,6-Pentachlorobiphenyl	112		40.5	C99
2,3,3',5',6-Pentachlorobiphenyl	113		42.5	C90
2,3,4,4',5-Pentachlorobiphenyl	114	159	18.7	J
2,3,4,4',6-Pentachlorobiphenyl	115		36	C110
2,3,4,5,6-Pentachlorobiphenyl	116		40.7	C85
2,3,4',5,6-Pentachlorobiphenyl	117		40.7	C85

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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118	5100	19.3	
2,3',4,4',6-Pentachlorobiphenyl	119		40.8	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		33.3	U
2,3',4,5',6-Pentachlorobiphenyl	121		36.3	U
2,3,3',4',5'-Pentachlorobiphenyl	122	151	25.7	J
2,3',4,4',5'-Pentachlorobiphenyl	123	85.6	20.4	QJ
2,3',4',5,5'-Pentachlorobiphenyl	124		24.5	C108
2,3',4',5',6-Pentachlorobiphenyl	125		40.8	C86
3,3',4,4',5-Pentachlorobiphenyl	126	48.9	27.1	QJ
3,3',4,5,5'-Pentachlorobiphenyl	127		22.8	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1840	38.2	C
2,2',3,3',4,5-Hexachlorobiphenyl	129	14500	39.2	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	626	49.7	
2,2',3,3',4,6-Hexachlorobiphenyl	131	74.7	50.1	QJ
2,2',3,3',4,6'-Hexachlorobiphenyl	132	3590	48.8	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	129	46	QJ
2,2',3,3',5,6-Hexachlorobiphenyl	134	423	50.1	QC
2,2',3,3',5,6'-Hexachlorobiphenyl	135	5140	70.5	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	1480	52.3	
2,2',3,4,4',5-Hexachlorobiphenyl	137	1570	37.4	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138		39.2	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	127	42	CJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140		42	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	3220	44.5	
2,2',3,4,5,6-Hexachlorobiphenyl	142		49.2	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		50.1	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	718	68.9	Q
2,2',3,4,6,6'-Hexachlorobiphenyl	145		53.3	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	1690	40.3	Q
2,2',3,4',5,6-Hexachlorobiphenyl	147	9450	40.4	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		70.1	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		40.4	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		51.1	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		70.5	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		50.5	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	11800	34.4	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154		60.3	U
2,2',4,4',6,6'-Hexachlorobiphenyl	155		48.9	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	1240	30	C

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COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3,3',4,4',5'-Hexachlorobiphenyl	157		30	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	1410	30	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	248	31.4	Q
2,3,3',4,5,6-Hexachlorobiphenyl	160		35	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		32.6	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162		31.4	U
2,3,3',4',5,6-Hexachlorobiphenyl	163		39.2	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		37.4	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		35.7	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		38.2	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	556	25.3	
2,3',4,4',5',6-Hexachlorobiphenyl	168		34.4	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		33.6	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	4690	27.2	BJ
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	1610	34.6	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	1050	35	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		34.6	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	5430	32.5	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	198	31.1	QJ
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	600	24.7	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	3210	34.7	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	991	33.4	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	1770	24.4	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180		24.4	BCJ
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		32.4	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		31.5	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	3530	31.1	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		22.9	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		31.1	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		24.9	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	5810	29.4	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		23.8	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	228	20.3	J
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	1270	25	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	261	24.5	Q
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		26.4	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		26.4	BC180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	2930	24.4	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1020	26.7	Q

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11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	1900	36.6	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	506	26.7	C
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	3380	36.3	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		36.3	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		26.7	C197
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	429	26.6	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	413	28.1	Q
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	2100	33.5	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		27.5	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	111	17	QJ
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	320	9.8	Q
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	43.5	8.8	QJ
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	70.9	8.5	QJ
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	117	9.7	QJ

TOTAL CONGENER RESULTS = 164,114.00

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/L = Picograms per liter.

PCB congeners analyzed by USEPA Method 1668A.

Analytical data validated by SECOR personnel

P:\Clients\Amtrak-APU\Phase 2 RI Laboratory Data\Attachments\Attachment E\[11-12-04 wet weather congener results validated.xls]rail unfil valid wo B

Storm Water Sample PCB Congener Results
RAILCAR AVENUE - FILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2-Chlorobiphenyl	1		6.5	U
3-Chlorobiphenyl	2		5.9	U
4-Chlorobiphenyl	3		5.1	U
2,2'-Dichlorobiphenyl	4	6350	142	Q
2,3-Dichlorobiphenyl	5		88.7	U
2,3'-Dichlorobiphenyl	6	153	81.4	QJ
2,4-Dichlorobiphenyl	7	103	85	QJ
2,4'-Dichlorobiphenyl	8	218	81.5	QJ
2,5-Dichlorobiphenyl	9		85.4	U
2,6-Dichlorobiphenyl	10	404	88.3	Q
3,3'-Dichlorobiphenyl	11		85.2	U
3,4-Dichlorobiphenyl	12		82.3	U
3,4'-Dichlorobiphenyl	13		82.3	U
3,5-Dichlorobiphenyl	14		81.4	U
4,4'-Dichlorobiphenyl	15	312	65.6	Q
2,2',3-Trichlorobiphenyl	16	160	54.1	QJ
2,2',4-Trichlorobiphenyl	17	761	43.7	Q
2,2',5-Trichlorobiphenyl	18	341	36.1	QC
2,2',6-Trichlorobiphenyl	19	5460	47.1	
2,3,3'-Trichlorobiphenyl	20	366	16	QC
2,3,4-Trichlorobiphenyl	21	195	16.5	QCJ
2,3,4'-Trichlorobiphenyl	22	98.4	17.3	QJ
2,3,5-Trichlorobiphenyl	23		17.8	U
2,3,6-Trichlorobiphenyl	24		31.7	U
2,3',4-Trichlorobiphenyl	25	86	15	QJ
2,3',5-Trichlorobiphenyl	26	83.9	16.6	CJ
2,3',6-Trichlorobiphenyl	27	520	30.8	Q
2,4,4'-Trichlorobiphenyl	28		16	C20
2,4,5-Trichlorobiphenyl	29		16.6	C26
2,4,6-Trichlorobiphenyl	30		36.1	C18
2,4',5-Trichlorobiphenyl	31	329	16.3	
2,4',6-Trichlorobiphenyl	32	799	28.3	
2,3',4'-Trichlorobiphenyl	33		16.5	C21
2,3',5'-Trichlorobiphenyl	34		17.3	U
3,3',4-Trichlorobiphenyl	35		17.1	U
3,3',5-Trichlorobiphenyl	36		16	U
3,4,4'-Trichlorobiphenyl	37	113	14.3	QJ
3,4,5-Trichlorobiphenyl	38		16.4	U
3,4',5-Trichlorobiphenyl	39		15.2	U
2,2',3,3'-Tetrachlorobiphenyl	40	314	27.8	QC

Storm Water Sample PCB Congener Results
RAILCAR AVENUE - FILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,4-Tetrachlorobiphenyl	41		27.8	C40
2,2',3,4'-Tetrachlorobiphenyl	42	190	30.8	J
2,2',3,5-Tetrachlorobiphenyl	43	85.3	25.5	QCJ
2,2',3,5'-Tetrachlorobiphenyl	44	2160	25.1	C
2,2',3,6-Tetrachlorobiphenyl	45	1820	29.1	C
2,2',3,6'-Tetrachlorobiphenyl	46	56.5	33.9	QJ
2,2',4,4'-Tetrachlorobiphenyl	47		25.1	C44
2,2',4,5-Tetrachlorobiphenyl	48	47.7	27.8	QJ
2,2',4,5'-Tetrachlorobiphenyl	49	1220	23.8	C
2,2',4,6-Tetrachlorobiphenyl	50	1430	28	C
2,2',4,6'-Tetrachlorobiphenyl	51		29.1	C45
2,2',5,5'-Tetrachlorobiphenyl	52	1310	26.7	
2,2',5,6'-Tetrachlorobiphenyl	53		28	C50
2,2',6,6'-Tetrachlorobiphenyl	54	938	42.1	
2,3,3',4-Tetrachlorobiphenyl	55		21	U
2,3,3',4'-Tetrachlorobiphenyl	56	631	20.7	
2,3,3',5-Tetrachlorobiphenyl	57		20.6	U
2,3,3',5'-Tetrachlorobiphenyl	58		20.1	U
2,3,3',6-Tetrachlorobiphenyl	59	85.2	20.3	CJ
2,3,4,4'-Tetrachlorobiphenyl	60	281	20.3	Q
2,3,4,5-Tetrachlorobiphenyl	61	2560	19.5	C
2,3,4,6-Tetrachlorobiphenyl	62		20.3	C59
2,3,4',5-Tetrachlorobiphenyl	63		19.3	U
2,3,4',6-Tetrachlorobiphenyl	64	243	20.2	J
2,3,5,6-Tetrachlorobiphenyl	65		25.1	C44
2,3',4,4'-Tetrachlorobiphenyl	66	1380	19.2	
2,3',4,5-Tetrachlorobiphenyl	67		18	U
2,3',4,5'-Tetrachlorobiphenyl	68		18.7	U
2,3',4,6-Tetrachlorobiphenyl	69		23.8	C49
2,3',4',5-Tetrachlorobiphenyl	70		19.5	C61
2,3',4',6-Tetrachlorobiphenyl	71		27.8	C40
2,3',5,5'-Tetrachlorobiphenyl	72		19.9	U
2,3',5',6-Tetrachlorobiphenyl	73		25.5	C43
2,4,4',5-Tetrachlorobiphenyl	74		19.5	C61
2,4,4',6-Tetrachlorobiphenyl	75		20.3	C59
2,3',4',5'-Tetrachlorobiphenyl	76		19.5	C61
3,3',4,4'-Tetrachlorobiphenyl	77	203	17.9	QJ
3,3',4,5-Tetrachlorobiphenyl	78		19.9	U
3,3',4,5'-Tetrachlorobiphenyl	79	111	16.8	QJ
3,3',5,5'-Tetrachlorobiphenyl	80		17.8	U

Storm Water Sample PCB Congener Results
RAILCAR AVENUE - FILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
3,4,4',5-Tetrachlorobiphenyl	81	38.1	17.1	J
2,2',3,3',4-Pentachlorobiphenyl	82	796	40.7	
2,2',3,3',5-Pentachlorobiphenyl	83	47.8	42.1	QJ
2,2',3,3',6-Pentachlorobiphenyl	84	727	41.1	
2,2',3,4,4'-Pentachlorobiphenyl	85	900	29.1	C
2,2',3,4,5-Pentachlorobiphenyl	86	2790	29.2	C
2,2',3,4,5'-Pentachlorobiphenyl	87		29.2	C86
2,2',3,4,6-Pentachlorobiphenyl	88	259	36.2	QCJ
2,2',3,4,6'-Pentachlorobiphenyl	89		39.2	U
2,2',3,4',5-Pentachlorobiphenyl	90	5160	30.4	C
2,2',3,4',6-Pentachlorobiphenyl	91		36.2	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	693	36.8	Q
2,2',3,5,6-Pentachlorobiphenyl	93	126	35.5	QCJ
2,2',3,5,6'-Pentachlorobiphenyl	94		38.8	U
2,2',3,5',6-Pentachlorobiphenyl	95	3380	35.6	
2,2',3,6,6'-Pentachlorobiphenyl	96		27	U
2,2',3,4',5'-Pentachlorobiphenyl	97		29.2	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	137	36.2	CJ
2,2',4,4',5-Pentachlorobiphenyl	99	1910	28.9	C
2,2',4,4',6-Pentachlorobiphenyl	100		35.5	C93
2,2',4,5,5'-Pentachlorobiphenyl	101		30.4	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		36.2	C98
2,2',4,5',6-Pentachlorobiphenyl	103		33.3	U
2,2',4,6,6'-Pentachlorobiphenyl	104		26.2	U
2,3,3',4,4'-Pentachlorobiphenyl	105	3600	16.4	
2,3,3',4,5-Pentachlorobiphenyl	106		17.8	U
2,3,3',4',5-Pentachlorobiphenyl	107	307	17.5	C
2,3,3',4,5'-Pentachlorobiphenyl	108		29.2	C86
2,3,3',4,6-Pentachlorobiphenyl	109	437	15.7	
2,3,3',4',6-Pentachlorobiphenyl	110	6600	25.8	C
2,3,3',5,5'-Pentachlorobiphenyl	111		24.8	U
2,3,3',5,6-Pentachlorobiphenyl	112		28.9	C99
2,3,3',5',6-Pentachlorobiphenyl	113		30.4	C90
2,3,4,4',5-Pentachlorobiphenyl	114	146	14	QJ
2,3,4,4',6-Pentachlorobiphenyl	115		25.8	C110
2,3,4,5,6-Pentachlorobiphenyl	116		29.1	C85
2,3,4',5,6-Pentachlorobiphenyl	117		29.1	C85
2,3',4,4',5-Pentachlorobiphenyl	118	6020	14.3	
2,3',4,4',6-Pentachlorobiphenyl	119		29.2	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		23.8	U

Storm Water Sample PCB Congener Results
RAILCAR AVENUE - FILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3',4,5',6-Pentachlorobiphenyl	121		25.9	U
2,3,3',4',5'-Pentachlorobiphenyl	122	172	18.4	J
2,3',4,4',5'-Pentachlorobiphenyl	123	55.4	13.7	QJ
2,3',4',5,5'-Pentachlorobiphenyl	124		17.5	C108
2,3',4',5',6-Pentachlorobiphenyl	125		29.2	C86
3,3',4,4',5-Pentachlorobiphenyl	126	135	20.4	QJ
3,3',4,5,5'-Pentachlorobiphenyl	127		16.3	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1840	30.9	C
2,2',3,3',4,5-Hexachlorobiphenyl	129	15900	31.7	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	750	40.2	
2,2',3,3',4,6-Hexachlorobiphenyl	131	127	40.5	QJ
2,2',3,3',4,6'-Hexachlorobiphenyl	132	3900	39.4	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	148	37.2	QJ
2,2',3,3',5,6-Hexachlorobiphenyl	134	559	40.5	QC
2,2',3,3',5,6'-Hexachlorobiphenyl	135	5830	57	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	1620	42.2	
2,2',3,4,4',5-Hexachlorobiphenyl	137	1770	30.2	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138		31.7	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	108	33.9	QCJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140	0	33.9	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	3660	36	
2,2',3,4,5,6-Hexachlorobiphenyl	142		39.8	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		40.5	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	881	55.7	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		43.1	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	1960	32.6	
2,2',3,4',5,6-Hexachlorobiphenyl	147	10100	32.7	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		56.7	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		32.7	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		41.3	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		57	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		40.8	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	13400	27.8	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154	120	48.7	J
2,2',4,4',6,6'-Hexachlorobiphenyl	155		39.5	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	1520	24.8	C
2,3,3',4,4',5'-Hexachlorobiphenyl	157		24.8	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	1650	24.2	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	233	25.4	QJ
2,3,3',4,5,6-Hexachlorobiphenyl	160		28.3	U

Storm Water Sample PCB Congener Results
RAILCAR AVENUE - FILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,3,3',4,5',6-Hexachlorobiphenyl	161		26.4	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	243	25.4	J
2,3,3',4',5,6-Hexachlorobiphenyl	163		31.7	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		30.2	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		28.8	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		30.9	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	696	20.1	
2,3',4,4',5',6-Hexachlorobiphenyl	168		27.8	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		26.6	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	4930	25.3	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	1850	31.6	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	1100	32	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		31.6	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	6280	29.7	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	261	28.4	J
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	744	22.5	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	3380	31.7	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	1130	30.5	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	1880	22.3	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	13300	22.8	BCJ
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		29.6	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182	48.5	28.8	QJ
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	4000	28.4	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		20.9	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		28.4	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		22.8	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	6440	26.8	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		21.8	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	314	18.1	
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	1230	22.9	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	293	22.3	Q
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		24.1	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		24.2	BC180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	3330	18.5	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1200	20.3	Q
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	1910	27.8	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	680	20.3	C
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	3880	27.6	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		27.6	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		20.3	C197

Storm Water Sample PCB Congener Results
RAILCAR AVENUE - FILTERED
11/12/2004
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/L)	Detection Limit (pg/L)	Data Qualifier
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	452	20.2	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	544	21.3	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	2390	25.4	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		20.8	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	171	12.9	J
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	501	9.4	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	69	8.5	QJ
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	75.2	8.2	QJ
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	122	10.6	J

TOTAL CONGENER RESULTS = 195,874.00

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/L = Picograms per liter.

PCB congeners analyzed by USEPA Method 1668A.

Analytical data validated by SECOR personnel

Dry Weather Surface Water Sample PCB Congener Results
Outfall 001 Unfiltered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2-Chlorobiphenyl	1		1.99	U
3-Chlorobiphenyl	2		1.82	U
4-Chlorobiphenyl	3	5.69	1.58	QJ
2,2'-Dichlorobiphenyl	4		1215	BJ
2,3-Dichlorobiphenyl	5		19.9	U
2,3'-Dichlorobiphenyl	6	17.7	18.2	QJ
2,4-Dichlorobiphenyl	7	15.5	19	QJ
2,4'-Dichlorobiphenyl	8		137	QBJ
2,5-Dichlorobiphenyl	9		19.1	U
2,6-Dichlorobiphenyl	10	262	19.8	
3,3'-Dichlorobiphenyl	11		89.5	QUBJ
3,4-Dichlorobiphenyl	12		101.5	QUBCJ
3,4'-Dichlorobiphenyl	13		101.5	QUC12J
3,5-Dichlorobiphenyl	14		18.2	U
4,4'-Dichlorobiphenyl	15		88	BJ
2,2',3-Trichlorobiphenyl	16		10.8	U
2,2',4-Trichlorobiphenyl	17	100	8.75	J
2,2',5-Trichlorobiphenyl	18	108	7.23	CJ
2,2',6-Trichlorobiphenyl	19	1590	9.44	
2,3,3'-Trichlorobiphenyl	20		42.5	BCJ
2,3,4-Trichlorobiphenyl	21		14.9	BCJ
2,3,4'-Trichlorobiphenyl	22	13.5	3.47	QJ
2,3,5-Trichlorobiphenyl	23		3.56	U
2,3,6-Trichlorobiphenyl	24		6.35	U
2,3',4-Trichlorobiphenyl	25	47.9	3.02	J
2,3',5-Trichlorobiphenyl	26	29.3	3.32	CJ
2,3',6-Trichlorobiphenyl	27	183	6.18	J
2,4,4'-Trichlorobiphenyl	28		42.5	BC20J
2,4,5-Trichlorobiphenyl	29		3.32	C26
2,4,6-Trichlorobiphenyl	30		7.23	C18
2,4',5-Trichlorobiphenyl	31		36.35	BJ
2,4',6-Trichlorobiphenyl	32	444	5.67	
2,3',4'-Trichlorobiphenyl	33		14.9	BC21J
2,3',5'-Trichlorobiphenyl	34		3.46	U
3,3',4-Trichlorobiphenyl	35		3.43	U
3,3',5-Trichlorobiphenyl	36		3.2	U
3,4,4'-Trichlorobiphenyl	37	23.8	2.86	J
3,4,5-Trichlorobiphenyl	38		3.28	U
3,4',5-Trichlorobiphenyl	39		3.04	U
2,2',3,3'-Tetrachlorobiphenyl	40	623	10.4	C

Dry Weather Surface Water Sample PCB Congener Results
Outfall 001 Unfiltered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,4-Tetrachlorobiphenyl	41		10.4	C40
2,2',3,4'-Tetrachlorobiphenyl	42	182	11.5	J
2,2',3,5-Tetrachlorobiphenyl	43	90.5	9.52	QCJ
2,2',3,5'-Tetrachlorobiphenyl	44		42.9	BCJ
2,2',3,6-Tetrachlorobiphenyl	45	1150	10.9	C
2,2',3,6'-Tetrachlorobiphenyl	46	91.3	12.7	J
2,2',4,4'-Tetrachlorobiphenyl	47		42.9	BC44J
2,2',4,5-Tetrachlorobiphenyl	48	22.6	10.4	QJ
2,2',4,5'-Tetrachlorobiphenyl	49	1370	8.89	C
2,2',4,6-Tetrachlorobiphenyl	50	1240	10.5	C
2,2',4,6'-Tetrachlorobiphenyl	51		10.9	C45
2,2',5,5'-Tetrachlorobiphenyl	52		16.2	B
2,2',5,6'-Tetrachlorobiphenyl	53		10.5	C50
2,2',6,6'-Tetrachlorobiphenyl	54	172	15.7	J
2,3,3',4-Tetrachlorobiphenyl	55		7.84	U
2,3,3',4'-Tetrachlorobiphenyl	56	161	7.73	J
2,3,3',5-Tetrachlorobiphenyl	57		7.71	U
2,3,3',5'-Tetrachlorobiphenyl	58		7.53	U
2,3,3',6-Tetrachlorobiphenyl	59	92.5	7.58	QCJ
2,3,4,4'-Tetrachlorobiphenyl	60	48.8	7.6	J
2,3,4,5-Tetrachlorobiphenyl	61		28.6	BCJ
2,3,4,6-Tetrachlorobiphenyl	62		7.58	C59
2,3,4',5-Tetrachlorobiphenyl	63	31.8	7.21	J
2,3,4',6-Tetrachlorobiphenyl	64	219	7.54	J
2,3,5,6-Tetrachlorobiphenyl	65		42.9	BC44J
2,3',4,4'-Tetrachlorobiphenyl	66	495	7.16	
2,3',4,5-Tetrachlorobiphenyl	67	13.1	6.71	QJ
2,3',4,5'-Tetrachlorobiphenyl	68	63.1	6.98	J
2,3',4,6-Tetrachlorobiphenyl	69		8.89	C49
2,3',4',5-Tetrachlorobiphenyl	70		42.9	BC61J
2,3',4',6-Tetrachlorobiphenyl	71		10.4	C40
2,3',5,5'-Tetrachlorobiphenyl	72	48.7	7.42	J
2,3',5',6-Tetrachlorobiphenyl	73		9.52	C43J
2,4,4',5-Tetrachlorobiphenyl	74		42.9	BC61J
2,4,4',6-Tetrachlorobiphenyl	75		7.58	C59
2,3',4',5'-Tetrachlorobiphenyl	76		42.9	BC61J
3,3',4,4'-Tetrachlorobiphenyl	77	107	6.7	J
3,3',4,5-Tetrachlorobiphenyl	78		7.42	U
3,3',4,5'-Tetrachlorobiphenyl	79	25.7	6.27	J
3,3',5,5'-Tetrachlorobiphenyl	80		6.67	U

Dry Weather Surface Water Sample PCB Congener Results
Outfall 001 Unfiltered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
3,4,4',5-Tetrachlorobiphenyl	81		6.4	U
2,2',3,3',4-Pentachlorobiphenyl	82	242	17.8	QJ
2,2',3,3',5-Pentachlorobiphenyl	83		18.5	U
2,2',3,3',6-Pentachlorobiphenyl	84	534	18	
2,2',3,4,4'-Pentachlorobiphenyl	85	584	12.8	C
2,2',3,4,5-Pentachlorobiphenyl	86	1840	12.8	C
2,2',3,4,5'-Pentachlorobiphenyl	87		12.8	C86
2,2',3,4,6-Pentachlorobiphenyl	88	919	15.9	C
2,2',3,4,6'-Pentachlorobiphenyl	89		17.2	U
2,2',3,4',5-Pentachlorobiphenyl	90	6080	13.3	C
2,2',3,4',6-Pentachlorobiphenyl	91		15.9	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	1390	16.2	
2,2',3,5,6-Pentachlorobiphenyl	93	414	15.6	C
2,2',3,5,6'-Pentachlorobiphenyl	94	106	17	QJ
2,2',3,5',6-Pentachlorobiphenyl	95		23.45	B
2,2',3,6,6'-Pentachlorobiphenyl	96	70.1	11.9	J
2,2',3,4',5'-Pentachlorobiphenyl	97		12.8	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	311	15.9	C
2,2',4,4',5-Pentachlorobiphenyl	99	2050	12.7	C
2,2',4,4',6-Pentachlorobiphenyl	100		15.6	C93
2,2',4,5,5'-Pentachlorobiphenyl	101		13.3	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		15.9	C98
2,2',4,5',6-Pentachlorobiphenyl	103	210	14.6	QJ
2,2',4,6,6'-Pentachlorobiphenyl	104	24.6	11.5	J
2,3,3',4,4'-Pentachlorobiphenyl	105	1230	7.47	
2,3,3',4,5-Pentachlorobiphenyl	106		7.79	U
2,3,3',4',5-Pentachlorobiphenyl	107	398	6.89	
2,3,3',4,5'-Pentachlorobiphenyl	108	169	7.67	CJ
2,3,3',4,6-Pentachlorobiphenyl	109		12.8	C86
2,3,3',4',6-Pentachlorobiphenyl	110	4400	11.3	C
2,3,3',5,5'-Pentachlorobiphenyl	111		10.9	U
2,3,3',5,6-Pentachlorobiphenyl	112		12.7	C99
2,3,3',5',6-Pentachlorobiphenyl	113		13.3	C90
2,3,4,4',5-Pentachlorobiphenyl	114	59.1	6.3	J
2,3,4,4',6-Pentachlorobiphenyl	115		11.3	C110
2,3,4,5,6-Pentachlorobiphenyl	116		12.8	C85
2,3,4',5,6-Pentachlorobiphenyl	117		12.8	C85
2,3',4,4',5-Pentachlorobiphenyl	118	2370	6.32	
2,3',4,4',6-Pentachlorobiphenyl	119		12.8	C86
2,3',4,5,5'-Pentachlorobiphenyl	120	36.1	10.5	QRJ

Dry Weather Surface Water Sample PCB Congener Results
Outfall 001 Unfiltered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3',4,5',6-Pentachlorobiphenyl	121		11.4	U
2,3,3',4',5'-Pentachlorobiphenyl	122	28.8	8.08	QJ
2,3',4,4',5'-Pentachlorobiphenyl	123	39.3	6.2	J
2,3',4',5,5'-Pentachlorobiphenyl	124		7.67	C108
2,3',4',5',6-Pentachlorobiphenyl	125		12.8	C86
3,3',4,4',5-Pentachlorobiphenyl	126	47.5	7.94	QJ
3,3',4,5,5'-Pentachlorobiphenyl	127		7.14	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1770	12.9	C
2,2',3,3',4,5-Hexachlorobiphenyl	129		13.2	BC
2,2',3,3',4,5'-Hexachlorobiphenyl	130	895	16.8	
2,2',3,3',4,6-Hexachlorobiphenyl	131	114	16.9	J
2,2',3,3',4,6'-Hexachlorobiphenyl	132	4550	16.4	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	316	15.5	
2,2',3,3',5,6-Hexachlorobiphenyl	134	684	16.9	C
2,2',3,3',5,6'-Hexachlorobiphenyl	135	5750	23.8	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	1600	17.6	
2,2',3,4,4',5-Hexachlorobiphenyl	137	1500	12.6	QCJ
2,2',3,4,4',5'-Hexachlorobiphenyl	138		13.2	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	157	14.2	CJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140		14.2	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	3870	15	
2,2',3,4,5,6-Hexachlorobiphenyl	142		16.6	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		16.9	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	742	23.2	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		18	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	3120	13.6	
2,2',3,4',5,6-Hexachlorobiphenyl	147		13.6	BC
2,2',3,4',5,6'-Hexachlorobiphenyl	148		23.6	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		13.6	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		17.2	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		23.8	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		17	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153		11.6	BC
2,2',4,4',5,6'-Hexachlorobiphenyl	154	222	20.3	J
2,2',4,4',6,6'-Hexachlorobiphenyl	155		16.5	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	989	10.6	C
2,3,3',4,4',5'-Hexachlorobiphenyl	157		10.6	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	1500	10.1	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	335	10.6	J
2,3,3',4,5,6-Hexachlorobiphenyl	160		11.8	U

Dry Weather Surface Water Sample PCB Congener Results
Outfall 001 Unfiltered
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Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3,3',4,5',6-Hexachlorobiphenyl	161		11	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	81.2	10.6	J
2,3,3',4',5,6-Hexachlorobiphenyl	163		13.2	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		12.6	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		12	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		12.9	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	638	8.34	
2,3',4,4',5',6-Hexachlorobiphenyl	168		11.6	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169	25.2	10.5	J
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	6750	11	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	2380	12.7	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	1470	12.9	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		12.7	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	6940	11.9	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	330	11.4	
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	864	9.06	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	4830	12.7	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	1450	12.3	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	2620	8.95	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	17300	9.09	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181	27.2	11.9	J
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182	27.4	11.6	QJ
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	5300	11.4	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		8.41	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		11.4	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		9.16	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	8990	10.8	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		8.75	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	314	7	
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	1610	9.19	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	378	8.98	
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		9.7	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		9.71	C180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	3750	7.15	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1630	7.83	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	1960	10.7	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	630	7.82	C
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	3660	10.6	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		10.6	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		7.82	C197

Dry Weather Surface Water Sample PCB Congener Results
Outfall 001 Unfiltered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	470	7.8	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	609	8.24	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	2170	9.81	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		8.04	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	197	4.98	J
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	472	12.4	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	80.4	11.2	J
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	105	10.8	QJ
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	52	7.27	J
	TOTAL =	138864.39		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

pg/l = Picograms per liter.

Data validated by SECOR personnel

P:\Clients\Amtrak-APU\Phase 2 RI Laboratory Data\Attachments\Attachment F\[dry weather june 2005 PCB cong results validated.xls]001 unfil validated wo B

Dry Weather Surface Water Sample PCB Congener Results
Outfall 001 Filtered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2-Chlorobiphenyl	1		2.17	U
3-Chlorobiphenyl	2		2.7	U
4-Chlorobiphenyl	3		3.04	U
2,2'-Dichlorobiphenyl	4		56	QBJ
2,3-Dichlorobiphenyl	5		11.7	U
2,3'-Dichlorobiphenyl	6		10.3	U
2,4-Dichlorobiphenyl	7		10.7	U
2,4'-Dichlorobiphenyl	8		85	QUBJ
2,5-Dichlorobiphenyl	9	10.8	10.5	QJ
2,6-Dichlorobiphenyl	10	101	11.4	QJ
3,3'-Dichlorobiphenyl	11		55.5	QBJ
3,4-Dichlorobiphenyl	12		11	U
3,4'-Dichlorobiphenyl	13		11	U
3,5-Dichlorobiphenyl	14		9.22	U
4,4'-Dichlorobiphenyl	15	35.1	12.8	QJ
2,2',3-Trichlorobiphenyl	16		7.42	U
2,2',4-Trichlorobiphenyl	17	12.3	6.4	J
2,2',5-Trichlorobiphenyl	18		58	BUCJ
2,2',6-Trichlorobiphenyl	19	692	7.11	
2,3,3'-Trichlorobiphenyl	20		79.5	QUBCJ
2,3,4-Trichlorobiphenyl	21		45.6	QUBCJ
2,3,4'-Trichlorobiphenyl	22		5.59	U
2,3,5-Trichlorobiphenyl	23		5.62	U
2,3,6-Trichlorobiphenyl	24		4.72	U
2,3',4-Trichlorobiphenyl	25	13.6	4.76	QJ
2,3',5-Trichlorobiphenyl	26		5.33	U
2,3',6-Trichlorobiphenyl	27	65	4.43	J
2,4,4'-Trichlorobiphenyl	28		5.25	QBUC20J
2,4,5-Trichlorobiphenyl	29		5.33	U
2,4,6-Trichlorobiphenyl	30		58	BUC18J
2,4',5-Trichlorobiphenyl	31		62	QUBJ
2,4',6-Trichlorobiphenyl	32		35	BUJ
2,3',4'-Trichlorobiphenyl	33		45.6	BUC21J
2,3',5'-Trichlorobiphenyl	34		5.55	U
3,3',4-Trichlorobiphenyl	35		5.8	U
3,3',5-Trichlorobiphenyl	36		5.68	U
3,4,4'-Trichlorobiphenyl	37		5.77	U
3,4,5-Trichlorobiphenyl	38		5.47	U
3,4',5-Trichlorobiphenyl	39		5.18	U
2,2',3,3'-Tetrachlorobiphenyl	40	102	7.64	QCJ

Dry Weather Surface Water Sample PCB Congener Results
Outfall 001 Filtered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,4-Tetrachlorobiphenyl	41		7.64	C40
2,2',3,4'-Tetrachlorobiphenyl	42	22	7.95	J
2,2',3,5-Tetrachlorobiphenyl	43		7.12	U
2,2',3,5'-Tetrachlorobiphenyl	44		80	JBC
2,2',3,6-Tetrachlorobiphenyl	45	220	7.83	C
2,2',3,6'-Tetrachlorobiphenyl	46	21.5	9.67	QJ
2,2',4,4'-Tetrachlorobiphenyl	47		80	C44JB
2,2',4,5-Tetrachlorobiphenyl	48		7.88	U
2,2',4,5'-Tetrachlorobiphenyl	49	170	6.18	CJ
2,2',4,6-Tetrachlorobiphenyl	50	326	7.24	C
2,2',4,6'-Tetrachlorobiphenyl	51		7.83	C45
2,2',5,5'-Tetrachlorobiphenyl	52		88	BJ
2,2',5,6'-Tetrachlorobiphenyl	53		7.24	C50
2,2',6,6'-Tetrachlorobiphenyl	54	80.8	7	J
2,3,3',4-Tetrachlorobiphenyl	55		5.86	U
2,3,3',4'-Tetrachlorobiphenyl	56	11.5	5.54	J
2,3,3',5-Tetrachlorobiphenyl	57		5.54	U
2,3,3',5'-Tetrachlorobiphenyl	58		5.39	U
2,3,3',6-Tetrachlorobiphenyl	59	13.4	5.21	QCJ
2,3,4,4'-Tetrachlorobiphenyl	60		5.91	U
2,3,4,5-Tetrachlorobiphenyl	61	23.9	5.2	CJ
2,3,4,6-Tetrachlorobiphenyl	62		5.21	C59
2,3,4',5-Tetrachlorobiphenyl	63		5	U
2,3,4',6-Tetrachlorobiphenyl	64	34.1	4.97	J
2,3,5,6-Tetrachlorobiphenyl	65		80	BC44J
2,3',4,4'-Tetrachlorobiphenyl	66		25.1	BJ
2,3',4,5-Tetrachlorobiphenyl	67		4.78	U
2,3',4,5'-Tetrachlorobiphenyl	68	11.8	5.15	J
2,3',4,6-Tetrachlorobiphenyl	69		6.18	C49
2,3',4',5-Tetrachlorobiphenyl	70		5.2	C61
2,3',4',6-Tetrachlorobiphenyl	71		7.64	C40
2,3',5,5'-Tetrachlorobiphenyl	72		5.54	U
2,3',5',6-Tetrachlorobiphenyl	73		7.12	U
2,4,4',5-Tetrachlorobiphenyl	74		5.2	C61
2,4,4',6-Tetrachlorobiphenyl	75		5.21	C59
2,3',4',5'-Tetrachlorobiphenyl	76		5.2	C61
3,3',4,4'-Tetrachlorobiphenyl	77	13.3	5.81	J
3,3',4,5-Tetrachlorobiphenyl	78		6.01	U
3,3',4,5'-Tetrachlorobiphenyl	79		4.6	U
3,3',5,5'-Tetrachlorobiphenyl	80		5.12	U

Dry Weather Surface Water Sample PCB Congener Results
Outfall 001 Filtered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
3,4,4',5-Tetrachlorobiphenyl	81		5.18	U
2,2',3,3',4-Pentachlorobiphenyl	82	27.5	9.48	J
2,2',3,3',5-Pentachlorobiphenyl	83	273	8.08	C
2,2',3,3',6-Pentachlorobiphenyl	84	69.2	9.45	J
2,2',3,4,4'-Pentachlorobiphenyl	85	52.4	6.51	CJ
2,2',3,4,5-Pentachlorobiphenyl	86	183	6.49	CJ
2,2',3,4,5'-Pentachlorobiphenyl	87		6.49	C86
2,2',3,4,6-Pentachlorobiphenyl	88	114	8.14	CJ
2,2',3,4,6'-Pentachlorobiphenyl	89		8.96	U
2,2',3,4',5-Pentachlorobiphenyl	90		68	BCJ
2,2',3,4',6-Pentachlorobiphenyl	91		8.14	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	163	7.86	J
2,2',3,5,6-Pentachlorobiphenyl	93	40.7	7.7	QCJ
2,2',3,5,6'-Pentachlorobiphenyl	94	25.3	8.9	J
2,2',3,5',6-Pentachlorobiphenyl	95	658	7.88	
2,2',3,6,6'-Pentachlorobiphenyl	96		6.15	U
2,2',3,4',5'-Pentachlorobiphenyl	97		6.49	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	34.1	7.59	QCJ
2,2',4,4',5-Pentachlorobiphenyl	99		8.08	C83
2,2',4,4',6-Pentachlorobiphenyl	100		7.7	C93J
2,2',4,5,5'-Pentachlorobiphenyl	101		68	BC90J
2,2',4,5,6'-Pentachlorobiphenyl	102		7.59	C98
2,2',4,5',6-Pentachlorobiphenyl	103	36.3	7.49	J
2,2',4,6,6'-Pentachlorobiphenyl	104		5.57	U
2,3,3',4,4'-Pentachlorobiphenyl	105	71.1	4.8	J
2,3,3',4,5-Pentachlorobiphenyl	106		5.61	U
2,3,3',4',5-Pentachlorobiphenyl	107	25	5.33	QJ
2,3,3',4,5'-Pentachlorobiphenyl	108	13.5	5.43	CJ
2,3,3',4,6-Pentachlorobiphenyl	109		6.49	C86
2,3,3',4',6-Pentachlorobiphenyl	110		49.5	BCJ
2,3,3',5,5'-Pentachlorobiphenyl	111		5.39	UJ
2,3,3',5,6-Pentachlorobiphenyl	112		5.8	U
2,3,3',5',6-Pentachlorobiphenyl	113		68	BC90J
2,3,4,4',5-Pentachlorobiphenyl	114		4.49	U
2,3,4,4',6-Pentachlorobiphenyl	115		49.5	BC110J
2,3,4,5,6-Pentachlorobiphenyl	116		6.51	C85
2,3,4',5,6-Pentachlorobiphenyl	117		6.51	C85
2,3',4,4',5-Pentachlorobiphenyl	118		26.6	BJ
2,3',4,4',6-Pentachlorobiphenyl	119		6.49	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		5.46	U

Dry Weather Surface Water Sample PCB Congener Results
Outfall 001 Filtered
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Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3',4,5',6-Pentachlorobiphenyl	121		5.65	U
2,3,3',4',5'-Pentachlorobiphenyl	122		5.65	U
2,3',4,4',5'-Pentachlorobiphenyl	123	4.99	4.7	QJ
2,3',4',5,5'-Pentachlorobiphenyl	124		5.43	C108
2,3',4',5',6-Pentachlorobiphenyl	125		6.49	C86
3,3',4,4',5-Pentachlorobiphenyl	126		5.84	U
3,3',4,5,5'-Pentachlorobiphenyl	127		5.07	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	79.5	7.81	CJ
2,2',3,3',4,5-Hexachlorobiphenyl	129	927	7.98	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	52.4	10.6	QJ
2,2',3,3',4,6-Hexachlorobiphenyl	131		10.7	U
2,2',3,3',4,6'-Hexachlorobiphenyl	132	273	10.4	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	22	9.46	J
2,2',3,3',5,6-Hexachlorobiphenyl	134	45	10.6	CJ
2,2',3,3',5,6'-Hexachlorobiphenyl	135	496	9.3	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	151	6.74	J
2,2',3,4,4',5-Hexachlorobiphenyl	137	75.9	7.78	CJ
2,2',3,4,4',5'-Hexachlorobiphenyl	138		7.98	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139		8.88	U
2,2',3,4,4',6'-Hexachlorobiphenyl	140		8.88	U
2,2',3,4,5,5'-Hexachlorobiphenyl	141	222	9.96	
2,2',3,4,5,6-Hexachlorobiphenyl	142		10.4	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		10.6	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	62.4	8.99	J
2,2',3,4,6,6'-Hexachlorobiphenyl	145		6.67	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	184	8.53	J
2,2',3,4',5,6-Hexachlorobiphenyl	147	997	8.91	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		9.22	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		8.91	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		6.43	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		9.3	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		6.38	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	930	6.87	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154	16.6	7.57	QJ
2,2',4,4',6,6'-Hexachlorobiphenyl	155		6.02	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	31.5	7.2	QCJ
2,3,3',4,4',5'-Hexachlorobiphenyl	157		7.2	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	88.8	6.14	J
2,3,3',4,5,5'-Hexachlorobiphenyl	159	11.6	6.68	J
2,3,3',4,5,6-Hexachlorobiphenyl	160		7.98	C129

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2,3,3',4,5',6-Hexachlorobiphenyl	161		6.52	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162		6.62	U
2,3,3',4',5,6-Hexachlorobiphenyl	163		7.98	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		7.78	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		7.43	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		7.81	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	26.6	4.9	J
2,3',4,4',5',6-Hexachlorobiphenyl	168		6.87	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		6.6	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	242	8.34	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	75.8	8.1	CJ
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	53.4	8.09	J
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		8.1	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	221	7.36	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	15.6	7.18	J
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	30.2	5.31	QJ
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	150	7.74	J
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	66.2	7.73	J
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	102	5.61	J
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	534	6.03	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		6.98	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		6.78	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	191	7.15	CJ
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		5.66	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		7.15	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		5.57	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	323	6.63	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		5.1	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189		4.92	U
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	45.6	5.53	QJ
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	10.6	5.3	QJ
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		6.02	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		6.03	C180
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	78.5	5.51	J
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	31.7	6.03	QJ
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	47.6	6.96	J
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197		4.84	U
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	86.2	7.01	CJ
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		7.01	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		4.84	U

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COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	8.96	4.64	QJ
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	17.2	5.24	J
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	52.8	6.3	J
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		4.92	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205		4.47	U
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	19.2	8.15	J
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207		5.55	U
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208		5.71	U
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209		4.67	U
	TOTAL =	10866.05		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = Not detected.

UJ = The analyte was not detected above the reported sample quanitation limit. However the reported quanitation limit is approximate and may or may not represent the actual iiimit of quanitation necessary to accurately and precisely measure the analyte in the sample.

Q = Estimated maximum possible concentration.

R = The sample results are rejected due to serious deficiences in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

pg/l = Picograms per liter.

Data validated by SECOR personnel

P:\Clients\Amtrak-APU\Phase 2 RI Laboratory Data\Attachments\Attachment F\[dry weather june 2005 PCB cong results validated.xls]001 fil validated wo B

Dry Weather Surface Water Sample PCB Congener Results
Outfall 005 Unfiltered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2-Chlorobiphenyl	1		4.86	U
3-Chlorobiphenyl	2		4.45	U
4-Chlorobiphenyl	3		3.86	U
2,2'-Dichlorobiphenyl	4		12000	BJ
2,3-Dichlorobiphenyl	5		22.1	U
2,3'-Dichlorobiphenyl	6		20.2	UJ
2,4-Dichlorobiphenyl	7		21.1	U
2,4'-Dichlorobiphenyl	8		137	BUJ
2,5-Dichlorobiphenyl	9		21.3	U
2,6-Dichlorobiphenyl	10	287	22	
3,3'-Dichlorobiphenyl	11		89.5	QBUJ
3,4-Dichlorobiphenyl	12		101.5	QBUCJ
3,4'-Dichlorobiphenyl	13		101.5	BUC12J
3,5-Dichlorobiphenyl	14		20.3	U
4,4'-Dichlorobiphenyl	15		88	BJ
2,2',3-Trichlorobiphenyl	16	409	14.3	
2,2',4-Trichlorobiphenyl	17	623	11.6	
2,2',5-Trichlorobiphenyl	18	754	9.56	C
2,2',6-Trichlorobiphenyl	19	770	12.5	
2,3,3'-Trichlorobiphenyl	20		42.5	BCJ
2,3,4-Trichlorobiphenyl	21		14.9	BCJ
2,3,4'-Trichlorobiphenyl	22	25.5	4.59	QJ
2,3,5-Trichlorobiphenyl	23		4.7	U
2,3,6-Trichlorobiphenyl	24		8.39	U
2,3',4-Trichlorobiphenyl	25	12.7	3.99	J
2,3',5-Trichlorobiphenyl	26	59.5	4.39	CJ
2,3',6-Trichlorobiphenyl	27	292	8.17	
2,4,4'-Trichlorobiphenyl	28		42.5	BC20J
2,4,5-Trichlorobiphenyl	29		4.39	C26
2,4,6-Trichlorobiphenyl	30		9.56	C18
2,4',5-Trichlorobiphenyl	31		36.35	BJ
2,4',6-Trichlorobiphenyl	32	315	7.5	
2,3',4'-Trichlorobiphenyl	33		14.9	BC21J
2,3',5'-Trichlorobiphenyl	34		4.57	U
3,3',4-Trichlorobiphenyl	35		4.53	U
3,3',5-Trichlorobiphenyl	36		4.23	U
3,4,4'-Trichlorobiphenyl	37	43.5	3.78	J
3,4,5-Trichlorobiphenyl	38		4.34	U
3,4',5-Trichlorobiphenyl	39		4.02	U
2,2',3,3'-Tetrachlorobiphenyl	40	224	11.3	QCJ

Dry Weather Surface Water Sample PCB Congener Results
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2,2',3,4-Tetrachlorobiphenyl	41		11.3	C40J
2,2',3,4'-Tetrachlorobiphenyl	42	84.7	12.6	QJ
2,2',3,5-Tetrachlorobiphenyl	43		10.4	U
2,2',3,5'-Tetrachlorobiphenyl	44		42.9	BCJ
2,2',3,6-Tetrachlorobiphenyl	45	193	11.8	CJ
2,2',3,6'-Tetrachlorobiphenyl	46	28.3	13.8	QJ
2,2',4,4'-Tetrachlorobiphenyl	47		42.9	BC44J
2,2',4,5-Tetrachlorobiphenyl	48	57	11.3	QJ
2,2',4,5'-Tetrachlorobiphenyl	49	266	9.69	C
2,2',4,6-Tetrachlorobiphenyl	50	173	11.4	CJ
2,2',4,6'-Tetrachlorobiphenyl	51		11.8	C45
2,2',5,5'-Tetrachlorobiphenyl	52		16.2	BJ
2,2',5,6'-Tetrachlorobiphenyl	53		11.4	C50
2,2',6,6'-Tetrachlorobiphenyl	54		17.2	U
2,3,3',4-Tetrachlorobiphenyl	55		8.55	U
2,3,3',4'-Tetrachlorobiphenyl	56	110	8.42	J
2,3,3',5-Tetrachlorobiphenyl	57		8.4	U
2,3,3',5'-Tetrachlorobiphenyl	58		8.2	U
2,3,3',6-Tetrachlorobiphenyl	59	25.1	8.26	CJ
2,3,4,4'-Tetrachlorobiphenyl	60	52.6	8.28	QJ
2,3,4,5-Tetrachlorobiphenyl	61		28.6	BCJ
2,3,4,6-Tetrachlorobiphenyl	62		8.26	C59
2,3,4',5-Tetrachlorobiphenyl	63		7.86	U
2,3,4',6-Tetrachlorobiphenyl	64	145	8.22	QJ
2,3,5,6-Tetrachlorobiphenyl	65		42.9	BC44J
2,3',4,4'-Tetrachlorobiphenyl	66	288	7.8	
2,3',4,5-Tetrachlorobiphenyl	67		7.31	U
2,3',4,5'-Tetrachlorobiphenyl	68		7.6	U
2,3',4,6-Tetrachlorobiphenyl	69		9.69	C49
2,3',4',5-Tetrachlorobiphenyl	70		28.6	BC61J
2,3',4',6-Tetrachlorobiphenyl	71		11.3	C40
2,3',5,5'-Tetrachlorobiphenyl	72		8.09	U
2,3',5',6-Tetrachlorobiphenyl	73		10.4	U
2,4,4',5-Tetrachlorobiphenyl	74		28.6	BC61J
2,4,4',6-Tetrachlorobiphenyl	75		8.26	C59
2,3',4',5'-Tetrachlorobiphenyl	76		28.6	BC61J
3,3',4,4'-Tetrachlorobiphenyl	77	28.9	7.3	J
3,3',4,5-Tetrachlorobiphenyl	78		8.08	U
3,3',4,5'-Tetrachlorobiphenyl	79	7.1	6.83	J
3,3',5,5'-Tetrachlorobiphenyl	80		7.27	U

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3,4,4',5-Tetrachlorobiphenyl	81		6.71	U
2,2',3,3',4-Pentachlorobiphenyl	82	63.1	15.4	J
2,2',3,3',5-Pentachlorobiphenyl	83		15.9	U
2,2',3,3',6-Pentachlorobiphenyl	84	180	15.5	J
2,2',3,4,4'-Pentachlorobiphenyl	85	111	11	CJ
2,2',3,4,5-Pentachlorobiphenyl	86	544	11	C
2,2',3,4,5'-Pentachlorobiphenyl	87		11	C86
2,2',3,4,6-Pentachlorobiphenyl	88	65.4	13.7	CJ
2,2',3,4,6'-Pentachlorobiphenyl	89		14.8	U
2,2',3,4',5-Pentachlorobiphenyl	90	1590	11.5	C
2,2',3,4',6-Pentachlorobiphenyl	91		13.7	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	221	13.9	QJ
2,2',3,5,6-Pentachlorobiphenyl	93		13.4	U
2,2',3,5,6'-Pentachlorobiphenyl	94		14.7	U
2,2',3,5',6-Pentachlorobiphenyl	95		23.45	BJ
2,2',3,6,6'-Pentachlorobiphenyl	96		10.2	U
2,2',3,4',5'-Pentachlorobiphenyl	97		11	C86
2,2',3,4',6'-Pentachlorobiphenyl	98		13.7	U
2,2',4,4',5-Pentachlorobiphenyl	99	319	10.9	C
2,2',4,4',6-Pentachlorobiphenyl	100		13.4	U
2,2',4,5,5'-Pentachlorobiphenyl	101		11.5	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		13.7	U
2,2',4,5',6-Pentachlorobiphenyl	103		12.6	U
2,2',4,6,6'-Pentachlorobiphenyl	104		9.93	U
2,3,3',4,4'-Pentachlorobiphenyl	105	306	6.3	
2,3,3',4,5-Pentachlorobiphenyl	106		6.72	U
2,3,3',4',5-Pentachlorobiphenyl	107	71.8	5.95	QJ
2,3,3',4,5'-Pentachlorobiphenyl	108	33.5	6.62	QCJ
2,3,3',4,6-Pentachlorobiphenyl	109		11	C86
2,3,3',4',6-Pentachlorobiphenyl	110	1190	9.75	C
2,3,3',5,5'-Pentachlorobiphenyl	111		9.37	U
2,3,3',5,6-Pentachlorobiphenyl	112		10.9	C99
2,3,3',5',6-Pentachlorobiphenyl	113		11.5	C90
2,3,4,4',5-Pentachlorobiphenyl	114	12	5.17	J
2,3,4,4',6-Pentachlorobiphenyl	115		9.75	C110
2,3,4,5,6-Pentachlorobiphenyl	116		11	C85
2,3,4',5,6-Pentachlorobiphenyl	117		11	C85
2,3',4,4',5-Pentachlorobiphenyl	118	648	5.49	
2,3',4,4',6-Pentachlorobiphenyl	119		11	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		9.02	U

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2,3',4,5',6-Pentachlorobiphenyl	121		9.82	U
2,3,3',4',5'-Pentachlorobiphenyl	122		6.97	U
2,3',4,4',5'-Pentachlorobiphenyl	123	7.72	5.29	QJ
2,3',4',5,5'-Pentachlorobiphenyl	124		6.62	C108J
2,3',4',5',6-Pentachlorobiphenyl	125		11	C86
3,3',4,4',5-Pentachlorobiphenyl	126	15.6	7.41	J
3,3',4,5,5'-Pentachlorobiphenyl	127		6.16	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	467	13	C
2,2',3,3',4,5-Hexachlorobiphenyl	129		21.45	BC
2,2',3,3',4,5'-Hexachlorobiphenyl	130	239	16.9	J
2,2',3,3',4,6-Hexachlorobiphenyl	131		17	U
2,2',3,3',4,6'-Hexachlorobiphenyl	132	1420	16.6	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	55.2	15.6	J
2,2',3,3',5,6-Hexachlorobiphenyl	134	198	17	CJ
2,2',3,3',5,6'-Hexachlorobiphenyl	135	1820	24	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	654	17.8	
2,2',3,4,4',5-Hexachlorobiphenyl	137	455	12.7	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138		21.45	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139		14.3	U
2,2',3,4,4',6'-Hexachlorobiphenyl	140		14.3	U
2,2',3,4,5,5'-Hexachlorobiphenyl	141	1240	15.2	
2,2',3,4,5,6-Hexachlorobiphenyl	142		16.8	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		17	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	283	23.4	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		18.2	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	763	13.7	
2,2',3,4',5,6-Hexachlorobiphenyl	147		31.3	BC
2,2',3,4',5,6'-Hexachlorobiphenyl	148		23.9	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		31.3	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		17.4	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		24	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		17.2	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153		38.5	BC
2,2',4,4',5,6'-Hexachlorobiphenyl	154		20.5	U
2,2',4,4',6,6'-Hexachlorobiphenyl	155		16.6	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	303	10.4	C
2,3,3',4,4',5'-Hexachlorobiphenyl	157		10.4	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	428	10.2	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	97	10.7	J
2,3,3',4,5,6-Hexachlorobiphenyl	160		11.9	U

Dry Weather Surface Water Sample PCB Congener Results
Outfall 005 Unfiltered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3,3',4,5',6-Hexachlorobiphenyl	161		11.1	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	11.8	10.7	QRJ
2,3,3',4',5,6-Hexachlorobiphenyl	163		21.45	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		12.7	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		12.1	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		13	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	173	8.37	J
2,3',4,4',5',6-Hexachlorobiphenyl	168		38.05	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		11.5	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	1680	11.6	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	628	13.4	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	390	13.6	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		13.4	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	1900	12.6	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	75.1	12.1	J
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	284	9.56	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	1140	13.5	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	392	12.9	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	805	9.44	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	3970	9.6	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		12.6	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		12.2	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	1410	12	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		8.88	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		12	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		9.66	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	2100	11.4	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		9.24	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	73	7.42	J
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	422	9.69	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	84.9	9.48	J
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		10.2	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		10.2	C180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	964	9.76	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	430	10.7	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	588	14.6	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	135	10.7	CJ
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	1030	14.5	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		14.5	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		10.7	C197

Dry Weather Surface Water Sample PCB Congener Results
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Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	108	10.7	J
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	130	11.3	J
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	614	13.4	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		11	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	36.3	6.8	J
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	103	16.6	QRJ
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207		15	U
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208		14.5	U
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209		7.01	U
	TOTAL =	38751.32		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

pg/l = Picograms per liter.

Data validated by SECOR personnel

P:\Clients\Amtrak-APU\Phase 2 RI Laboratory Data\Attachments\Attachment F\[dry weather june 2005 PCB cong results validated.xls]005 unfil validated wo B

Dry Weather Surface Water Sample PCB Congener Results
Outfall 005 Filtered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2-Chlorobiphenyl	1		2.68	U
3-Chlorobiphenyl	2		3.22	U
4-Chlorobiphenyl	3		3.44	U
2,2'-Dichlorobiphenyl	4		56	JB
2,3-Dichlorobiphenyl	5		10.9	U
2,3'-Dichlorobiphenyl	6	7.06	9.59	QJ
2,4-Dichlorobiphenyl	7		9.96	U
2,4'-Dichlorobiphenyl	8		85	QUBJ
2,5-Dichlorobiphenyl	9		9.72	U
2,6-Dichlorobiphenyl	10	173	10.6	J
3,3'-Dichlorobiphenyl	11		55.5	QUBJ
3,4-Dichlorobiphenyl	12		10.2	U
3,4'-Dichlorobiphenyl	13		10.2	U
3,5-Dichlorobiphenyl	14		8.56	U
4,4'-Dichlorobiphenyl	15	113	10.9	J
2,2',3-Trichlorobiphenyl	16	125	8.25	J
2,2',4-Trichlorobiphenyl	17	172	7.12	J
2,2',5-Trichlorobiphenyl	18		58	JBC
2,2',6-Trichlorobiphenyl	19	360	7.92	
2,3,3'-Trichlorobiphenyl	20		79.5	BUCJ
2,3,4-Trichlorobiphenyl	21		45.6	BUCJ
2,3,4'-Trichlorobiphenyl	22		5.55	U
2,3,5-Trichlorobiphenyl	23		5.58	U
2,3,6-Trichlorobiphenyl	24		5.26	U
2,3',4-Trichlorobiphenyl	25		4.72	U
2,3',5-Trichlorobiphenyl	26		5.29	U
2,3',6-Trichlorobiphenyl	27	106	4.93	J
2,4,4'-Trichlorobiphenyl	28		79.5	BUC20J
2,4,5-Trichlorobiphenyl	29		5.29	U
2,4,6-Trichlorobiphenyl	30		58	BC18J
2,4',5-Trichlorobiphenyl	31		62	QUBJ
2,4',6-Trichlorobiphenyl	32		35	BJ
2,3',4'-Trichlorobiphenyl	33		45.6	BUC21
2,3',5'-Trichlorobiphenyl	34		5.5	U
3,3',4-Trichlorobiphenyl	35		5.76	U
3,3',5-Trichlorobiphenyl	36		5.64	U
3,4,4'-Trichlorobiphenyl	37	13.2	5.72	J
3,4,5-Trichlorobiphenyl	38		5.43	U
3,4',5-Trichlorobiphenyl	39		5.14	U
2,2',3,3'-Tetrachlorobiphenyl	40	38.2	7.37	CJ

Dry Weather Surface Water Sample PCB Congener Results
Outfall 005 Filtered
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2,2',3,4-Tetrachlorobiphenyl	41		7.37	C40
2,2',3,4'-Tetrachlorobiphenyl	42	17	7.67	J
2,2',3,5-Tetrachlorobiphenyl	43		6.86	U
2,2',3,5'-Tetrachlorobiphenyl	44		80	BUCJ
2,2',3,6-Tetrachlorobiphenyl	45	38.7	7.55	QCJ
2,2',3,6'-Tetrachlorobiphenyl	46		9.32	U
2,2',4,4'-Tetrachlorobiphenyl	47		80	BUC44J
2,2',4,5-Tetrachlorobiphenyl	48	15.8	7.59	QJ
2,2',4,5'-Tetrachlorobiphenyl	49	39.9	5.96	CJ
2,2',4,6-Tetrachlorobiphenyl	50	37.4	6.98	QCJ
2,2',4,6'-Tetrachlorobiphenyl	51		7.55	C45J
2,2',5,5'-Tetrachlorobiphenyl	52		88	BJ
2,2',5,6'-Tetrachlorobiphenyl	53		6.98	C50J
2,2',6,6'-Tetrachlorobiphenyl	54		7.05	U
2,3,3',4-Tetrachlorobiphenyl	55		5.65	U
2,3,3',4'-Tetrachlorobiphenyl	56		5.34	U
2,3,3',5-Tetrachlorobiphenyl	57		5.34	U
2,3,3',5'-Tetrachlorobiphenyl	58		5.2	U
2,3,3',6-Tetrachlorobiphenyl	59	8.87	5.02	CJ
2,3,4,4'-Tetrachlorobiphenyl	60		5.69	U
2,3,4,5-Tetrachlorobiphenyl	61	59	5.02	QCJ
2,3,4,6-Tetrachlorobiphenyl	62		5.02	C59
2,3,4',5-Tetrachlorobiphenyl	63		4.82	U
2,3,4',6-Tetrachlorobiphenyl	64	20.5	4.79	J
2,3,5,6-Tetrachlorobiphenyl	65		80	BC44J
2,3',4,4'-Tetrachlorobiphenyl	66		25.1	BJ
2,3',4,5-Tetrachlorobiphenyl	67		4.61	U
2,3',4,5'-Tetrachlorobiphenyl	68		4.96	U
2,3',4,6-Tetrachlorobiphenyl	69		5.96	C49
2,3',4',5-Tetrachlorobiphenyl	70		5.02	C61
2,3',4',6-Tetrachlorobiphenyl	71		7.37	C40
2,3',5,5'-Tetrachlorobiphenyl	72		5.34	U
2,3',5',6-Tetrachlorobiphenyl	73		6.86	U
2,4,4',5-Tetrachlorobiphenyl	74		5.02	C61
2,4,4',6-Tetrachlorobiphenyl	75		5.02	C59
2,3',4',5'-Tetrachlorobiphenyl	76		5.02	C61
3,3',4,4'-Tetrachlorobiphenyl	77		5.64	U
3,3',4,5-Tetrachlorobiphenyl	78		5.79	U
3,3',4,5'-Tetrachlorobiphenyl	79		4.43	U
3,3',5,5'-Tetrachlorobiphenyl	80		4.94	U

Dry Weather Surface Water Sample PCB Congener Results
Outfall 005 Filtered
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Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
3,4,4',5-Tetrachlorobiphenyl	81		4.96	U
2,2',3,3',4-Pentachlorobiphenyl	82		9.24	UJ
2,2',3,3',5-Pentachlorobiphenyl	83	25.6	7.88	QCJ
2,2',3,3',6-Pentachlorobiphenyl	84		9.21	U
2,2',3,4,4'-Pentachlorobiphenyl	85		6.35	U
2,2',3,4,5-Pentachlorobiphenyl	86	41.7	6.33	CJ
2,2',3,4,5'-Pentachlorobiphenyl	87		6.33	C86
2,2',3,4,6-Pentachlorobiphenyl	88		7.93	U
2,2',3,4,6'-Pentachlorobiphenyl	89		8.74	U
2,2',3,4',5-Pentachlorobiphenyl	90		68	BCJ
2,2',3,4',6-Pentachlorobiphenyl	91		7.93	U
2,2',3,5,5'-Pentachlorobiphenyl	92	18	7.66	QJ
2,2',3,5,6-Pentachlorobiphenyl	93		7.51	U
2,2',3,5,6'-Pentachlorobiphenyl	94		8.67	U
2,2',3,5',6-Pentachlorobiphenyl	95	121	7.69	J
2,2',3,6,6'-Pentachlorobiphenyl	96		5.99	U
2,2',3,4',5'-Pentachlorobiphenyl	97		6.33	C86
2,2',3,4',6'-Pentachlorobiphenyl	98		7.4	U
2,2',4,4',5-Pentachlorobiphenyl	99		7.88	C83J
2,2',4,4',6-Pentachlorobiphenyl	100		7.51	U
2,2',4,5,5'-Pentachlorobiphenyl	101		68	C90JB
2,2',4,5,6'-Pentachlorobiphenyl	102		7.4	U
2,2',4,5',6-Pentachlorobiphenyl	103		7.3	U
2,2',4,6,6'-Pentachlorobiphenyl	104		5.43	U
2,3,3',4,4'-Pentachlorobiphenyl	105	13.2	4.55	QJ
2,3,3',4,5-Pentachlorobiphenyl	106		5.35	U
2,3,3',4',5-Pentachlorobiphenyl	107		5.08	UJ
2,3,3',4,5'-Pentachlorobiphenyl	108		5.18	U
2,3,3',4,6-Pentachlorobiphenyl	109		6.33	C86
2,3,3',4',6-Pentachlorobiphenyl	110		49.5	BCJ
2,3,3',5,5'-Pentachlorobiphenyl	111		5.25	UJ
2,3,3',5,6-Pentachlorobiphenyl	112		5.66	U
2,3,3',5',6-Pentachlorobiphenyl	113		68	BC90J
2,3,4,4',5-Pentachlorobiphenyl	114		4.32	U
2,3,4,4',6-Pentachlorobiphenyl	115		49.5	BC110J
2,3,4,5,6-Pentachlorobiphenyl	116		6.35	U
2,3,4',5,6-Pentachlorobiphenyl	117		6.35	U
2,3',4,4',5-Pentachlorobiphenyl	118		26.6	BJ
2,3',4,4',6-Pentachlorobiphenyl	119		6.33	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		5.32	U

Dry Weather Surface Water Sample PCB Congener Results
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COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3',4,5',6-Pentachlorobiphenyl	121		5.51	U
2,3,3',4',5'-Pentachlorobiphenyl	122		5.39	U
2,3',4,4',5'-Pentachlorobiphenyl	123		4.6	U
2,3',4',5,5'-Pentachlorobiphenyl	124		5.18	U
2,3',4',5',6-Pentachlorobiphenyl	125		6.33	C86
3,3',4,4',5-Pentachlorobiphenyl	126		5.28	U
3,3',4,5,5'-Pentachlorobiphenyl	127		4.84	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	8.49	6.7	QCJ
2,2',3,3',4,5-Hexachlorobiphenyl	129	106	6.84	CJ
2,2',3,3',4,5'-Hexachlorobiphenyl	130		9.08	U
2,2',3,3',4,6-Hexachlorobiphenyl	131		9.18	U
2,2',3,3',4,6'-Hexachlorobiphenyl	132	34.1	8.9	J
2,2',3,3',5,5'-Hexachlorobiphenyl	133		8.11	U
2,2',3,3',5,6-Hexachlorobiphenyl	134		9.08	U
2,2',3,3',5,6'-Hexachlorobiphenyl	135	56.2	8.42	CJ
2,2',3,3',6,6'-Hexachlorobiphenyl	136	20.8	6.11	QJ
2,2',3,4,4',5-Hexachlorobiphenyl	137	9.76	6.67	QCJ
2,2',3,4,4',5'-Hexachlorobiphenyl	138		6.84	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139		7.61	U
2,2',3,4,4',6'-Hexachlorobiphenyl	140		7.61	U
2,2',3,4,5,5'-Hexachlorobiphenyl	141	34	8.54	J
2,2',3,4,5,6-Hexachlorobiphenyl	142		8.94	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		9.08	U
2,2',3,4,5',6-Hexachlorobiphenyl	144		8.14	U
2,2',3,4,6,6'-Hexachlorobiphenyl	145		6.04	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	17.7	7.31	J
2,2',3,4',5,6-Hexachlorobiphenyl	147	110	7.64	QCJ
2,2',3,4',5,6'-Hexachlorobiphenyl	148		8.35	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		7.64	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		5.82	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		8.42	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		5.78	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	106	5.89	CJ
2,2',4,4',5,6'-Hexachlorobiphenyl	154		6.85	U
2,2',4,4',6,6'-Hexachlorobiphenyl	155		5.45	U
2,3,3',4,4',5-Hexachlorobiphenyl	156		6.32	U
2,3,3',4,4',5'-Hexachlorobiphenyl	157		6.32	U
2,3,3',4,4',6-Hexachlorobiphenyl	158	10	5.27	QRJ
2,3,3',4,5,5'-Hexachlorobiphenyl	159		5.73	U
2,3,3',4,5,6-Hexachlorobiphenyl	160		6.84	C129

Dry Weather Surface Water Sample PCB Congener Results
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COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3,3',4,5',6-Hexachlorobiphenyl	161		5.59	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162		5.68	U
2,3,3',4',5,6-Hexachlorobiphenyl	163		6.84	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		6.67	C137J
2,3,3',5,5',6-Hexachlorobiphenyl	165		6.37	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		6.7	C128J
2,3',4,4',5,5'-Hexachlorobiphenyl	167		4.33	U
2,3',4,4',5',6-Hexachlorobiphenyl	168		5.89	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		5.16	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	25.2	7.84	QJ
2,2',3,3',4,4',6-Heptachlorobiphenyl	171		7.63	U
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172		7.62	U
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		7.63	U
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	30.3	6.93	QJ
2,2',3,3',4,5',6-Heptachlorobiphenyl	175		6.77	U
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176		5	U
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	19.7	7.3	J
2,2',3,3',5,5',6-Heptachlorobiphenyl	178		7.28	U
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	16.3	5.29	J
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	71.3	5.68	CJ
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		6.57	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		6.39	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	25.1	6.73	CJ
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		5.33	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		6.73	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		5.25	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	42.6	6.25	J
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		4.81	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189		4.47	U
2,3,3',4,4',5,6-Heptachlorobiphenyl	190		5.21	U
2,3,3',4,4',5',6-Heptachlorobiphenyl	191		5	U
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		5.67	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		5.68	C180
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	11.5	5.5	QJ
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	4.93	6.02	QJ
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196		6.85	U
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197		4.76	U
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	11.9	6.89	QCJ
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		6.89	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		4.76	U

Dry Weather Surface Water Sample PCB Congener Results
Outfall 005 Filtered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201		4.56	U
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202		5.15	U
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203		6.2	U
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		4.84	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205		4.46	U
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206		8.38	U
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207		5.73	U
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208		5.91	U
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209		5.68	U
	TOTAL =	2336.01		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = Not detected.

UJ = The analyte was not detected above the reported sample quanitation limit. However the reported quanitation limit is approximate and may or may not represent the actual liimit of quanitation necessary to accurately and precisely measure the analyte in the sample.

Q = Estimated maximum possible concentration.

R = The sample results are rejected due to serious deficiences in the ability to analyze the sample and meet quality control criteria.

The presence or absence of the analyte cannot be verified.

pg/l = Picograms per liter.

Data validated by SECOR personnel

Dry Weather Surface Water Sample PCB Congener Results
Outfall 050 Unfiltered (Duplicate of Outfall 005 Unfiltered)
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2-Chlorobiphenyl	1	12.8	3.05	QJ
3-Chlorobiphenyl	2		2.79	U
4-Chlorobiphenyl	3		2.42	U
2,2'-Dichlorobiphenyl	4		1215	JB
2,3-Dichlorobiphenyl	5		16.7	U
2,3'-Dichlorobiphenyl	6	38.9	15.3	QJ
2,4-Dichlorobiphenyl	7		16	U
2,4'-Dichlorobiphenyl	8		137	QBJ
2,5-Dichlorobiphenyl	9		16.1	U
2,6-Dichlorobiphenyl	10	276	16.6	QJ
3,3'-Dichlorobiphenyl	11		89.5	QUJB
3,4-Dichlorobiphenyl	12		101.5	QUBCJ
3,4'-Dichlorobiphenyl	13		101.5	QUC12JB
3,5-Dichlorobiphenyl	14		15.3	U
4,4'-Dichlorobiphenyl	15		88	JB
2,2',3-Trichlorobiphenyl	16	458	7.32	
2,2',4-Trichlorobiphenyl	17	911	5.91	
2,2',5-Trichlorobiphenyl	18	1120	4.88	C
2,2',6-Trichlorobiphenyl	19	600	6.37	
2,3,3'-Trichlorobiphenyl	20		42.5	BCJ
2,3,4-Trichlorobiphenyl	21		14.9	BCJ
2,3,4'-Trichlorobiphenyl	22	79.4	2.35	J
2,3,5-Trichlorobiphenyl	23		2.4	U
2,3,6-Trichlorobiphenyl	24		4.29	U
2,3',4-Trichlorobiphenyl	25	25.6	2.04	J
2,3',5-Trichlorobiphenyl	26	122	2.24	CJ
2,3',6-Trichlorobiphenyl	27	390	4.17	
2,4,4'-Trichlorobiphenyl	28		42.5	C20JB
2,4,5-Trichlorobiphenyl	29		2.24	C26
2,4,6-Trichlorobiphenyl	30		4.88	C18
2,4',5-Trichlorobiphenyl	31		36.35	JB
2,4',6-Trichlorobiphenyl	32	425	3.83	
2,3',4'-Trichlorobiphenyl	33		14.9	C21JB
2,3',5'-Trichlorobiphenyl	34		2.33	U
3,3',4-Trichlorobiphenyl	35		2.32	U
3,3',5-Trichlorobiphenyl	36		2.16	U
3,4,4'-Trichlorobiphenyl	37	92.3	1.93	J
3,4,5-Trichlorobiphenyl	38		2.22	U
3,4',5-Trichlorobiphenyl	39		2.05	U
2,2',3,3'-Tetrachlorobiphenyl	40	293	7.02	QC
2,2',3,4-Tetrachlorobiphenyl	41		7.02	C40J
2,2',3,4'-Tetrachlorobiphenyl	42	85.4	7.78	QJR
2,2',3,5-Tetrachlorobiphenyl	43		6.42	U
2,2',3,5'-Tetrachlorobiphenyl	44		42.9	BCJ
2,2',3,6-Tetrachlorobiphenyl	45	169	7.34	QCJ

Dry Weather Surface Water Sample PCB Congener Results
Outfall 050 Unfiltered (Duplicate of Outfall 005 Unfiltered)
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,6'-Tetrachlorobiphenyl	46		8.56	U
2,2',4,4'-Tetrachlorobiphenyl	47		42.9	C44JB
2,2',4,5-Tetrachlorobiphenyl	48	44.4	7.02	QJ
2,2',4,5'-Tetrachlorobiphenyl	49	414	6	C
2,2',4,6-Tetrachlorobiphenyl	50	201	7.06	CJ
2,2',4,6'-Tetrachlorobiphenyl	51		7.34	C45J
2,2',5,5'-Tetrachlorobiphenyl	52		16.2	JB
2,2',5,6'-Tetrachlorobiphenyl	53		7.06	C50
2,2',6,6'-Tetrachlorobiphenyl	54		10.6	U
2,3,3',4-Tetrachlorobiphenyl	55		5.29	U
2,3,3',4'-Tetrachlorobiphenyl	56	237	5.21	J
2,3,3',5-Tetrachlorobiphenyl	57		5.21	U
2,3,3',5'-Tetrachlorobiphenyl	58		5.08	U
2,3,3',6-Tetrachlorobiphenyl	59	17.1	5.11	QCJ
2,3,4,4'-Tetrachlorobiphenyl	60	85.7	5.13	QJ
2,3,4,5-Tetrachlorobiphenyl	61		28.6	BCJ
2,3,4,6-Tetrachlorobiphenyl	62		5.11	C59
2,3,4',5-Tetrachlorobiphenyl	63		4.87	U
2,3,4',6-Tetrachlorobiphenyl	64	225	5.09	J
2,3,5,6-Tetrachlorobiphenyl	65		42.9	C44JB
2,3',4,4'-Tetrachlorobiphenyl	66	563	4.83	
2,3',4,5-Tetrachlorobiphenyl	67		4.53	U
2,3',4,5'-Tetrachlorobiphenyl	68		4.71	U
2,3',4,6-Tetrachlorobiphenyl	69		6	C49
2,3',4',5-Tetrachlorobiphenyl	70		28.6	C61JB
2,3',4',6-Tetrachlorobiphenyl	71		7.02	C40
2,3',5,5'-Tetrachlorobiphenyl	72		5.01	U
2,3',5',6-Tetrachlorobiphenyl	73		6.42	U
2,4,4',5-Tetrachlorobiphenyl	74		28.6	C61JB
2,4,4',6-Tetrachlorobiphenyl	75		5.11	C59
2,3',4',5'-Tetrachlorobiphenyl	76		4.91	C61JB
3,3',4,4'-Tetrachlorobiphenyl	77	35.9	4.52	JB
3,3',4,5-Tetrachlorobiphenyl	78		5.01	U
3,3',4,5'-Tetrachlorobiphenyl	79		4.23	U
3,3',5,5'-Tetrachlorobiphenyl	80		4.5	U
3,4,4',5-Tetrachlorobiphenyl	81		4.36	U
2,2',3,3',4-Pentachlorobiphenyl	82	62.9	10.3	QJ
2,2',3,3',5-Pentachlorobiphenyl	83		10.7	U
2,2',3,3',6-Pentachlorobiphenyl	84	228	10.4	QJ
2,2',3,4,4'-Pentachlorobiphenyl	85	131	7.39	QCJ
2,2',3,4,5-Pentachlorobiphenyl	86	1140	7.41	C
2,2',3,4,5'-Pentachlorobiphenyl	87		7.41	C86
2,2',3,4,6-Pentachlorobiphenyl	88	63.9	9.19	QCJ
2,2',3,4,6'-Pentachlorobiphenyl	89		9.96	U
2,2',3,4',5-Pentachlorobiphenyl	90	4360	7.72	C

Dry Weather Surface Water Sample PCB Congener Results
Outfall 050 Unfiltered (Duplicate of Outfall 005 Unfiltered)
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,4',6-Pentachlorobiphenyl	91		9.19	C88J
2,2',3,5,5'-Pentachlorobiphenyl	92	528	9.35	
2,2',3,5,6-Pentachlorobiphenyl	93		9.02	U
2,2',3,5,6'-Pentachlorobiphenyl	94		9.85	U
2,2',3,5',6-Pentachlorobiphenyl	95		23.45	B
2,2',3,6,6'-Pentachlorobiphenyl	96		6.86	U
2,2',3,4',5'-Pentachlorobiphenyl	97		7.41	C86
2,2',3,4',6'-Pentachlorobiphenyl	98		9.18	U
2,2',4,4',5-Pentachlorobiphenyl	99	657	7.34	C
2,2',4,4',6-Pentachlorobiphenyl	100		9.02	U
2,2',4,5,5'-Pentachlorobiphenyl	101		7.72	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		9.18	U
2,2',4,5',6-Pentachlorobiphenyl	103		8.45	U
2,2',4,6,6'-Pentachlorobiphenyl	104		6.66	U
2,3,3',4,4'-Pentachlorobiphenyl	105	721	4.31	
2,3,3',4,5-Pentachlorobiphenyl	106		4.51	U
2,3,3',4',5-Pentachlorobiphenyl	107	129	3.99	QJ
2,3,3',4,5'-Pentachlorobiphenyl	108	31.5	4.44	QCJ
2,3,3',4,6-Pentachlorobiphenyl	109		7.41	C86
2,3,3',4',6-Pentachlorobiphenyl	110	3170	6.54	C
2,3,3',5,5'-Pentachlorobiphenyl	111		6.29	U
2,3,3',5,6-Pentachlorobiphenyl	112		7.34	C99
2,3,3',5',6-Pentachlorobiphenyl	113		7.72	C90
2,3,4,4',5-Pentachlorobiphenyl	114	9.44	3.49	QJ
2,3,4,4',6-Pentachlorobiphenyl	115		6.54	C110
2,3,4,5,6-Pentachlorobiphenyl	116		7.39	C85
2,3,4',5,6-Pentachlorobiphenyl	117		7.39	C85
2,3',4,4',5-Pentachlorobiphenyl	118	1730	3.78	
2,3',4,4',6-Pentachlorobiphenyl	119		7.41	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		6.05	U
2,3',4,5',6-Pentachlorobiphenyl	121		6.59	U
2,3,3',4',5'-Pentachlorobiphenyl	122		4.67	U
2,3',4,4',5'-Pentachlorobiphenyl	123	4.25	3.57	QJ
2,3',4',5,5'-Pentachlorobiphenyl	124		4.44	C108J
2,3',4',5',6-Pentachlorobiphenyl	125		7.41	C86
3,3',4,4',5-Pentachlorobiphenyl	126	6.65	4.67	QJ
3,3',4,5,5'-Pentachlorobiphenyl	127		4.13	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1030	8.61	C
2,2',3,3',4,5-Hexachlorobiphenyl	129		8.84	BC
2,2',3,3',4,5'-Hexachlorobiphenyl	130	499	11.2	
2,2',3,3',4,6-Hexachlorobiphenyl	131	26	11.3	J
2,2',3,3',4,6'-Hexachlorobiphenyl	132	3910	11	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	77.7	10.4	J
2,2',3,3',5,6-Hexachlorobiphenyl	134	407	11.3	C
2,2',3,3',5,6'-Hexachlorobiphenyl	135	4340	15.9	C

Dry Weather Surface Water Sample PCB Congener Results
Outfall 050 Unfiltered (Duplicate of Outfall 005 Unfiltered)
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,3',6,6'-Hexachlorobiphenyl	136	1490	11.8	
2,2',3,4,4',5-Hexachlorobiphenyl	137	1130	8.44	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138		8.84	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139		9.48	U
2,2',3,4,4',6'-Hexachlorobiphenyl	140		9.48	U
2,2',3,4,5,5'-Hexachlorobiphenyl	141	3280	10	
2,2',3,4,5,6-Hexachlorobiphenyl	142		11.1	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		11.3	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	494	15.5	
2,2',3,4,6,6'-Hexachlorobiphenyl	145		12	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	1970	9.09	
2,2',3,4',5,6-Hexachlorobiphenyl	147		9.13	BC
2,2',3,4',5,6'-Hexachlorobiphenyl	148		15.8	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		9.13	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		11.5	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		15.9	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		11.4	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153		7.76	BC
2,2',4,4',5,6'-Hexachlorobiphenyl	154		13.6	U
2,2',4,4',6,6'-Hexachlorobiphenyl	155		11	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	704	7.18	C
2,3,3',4,4',5'-Hexachlorobiphenyl	157		7.18	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	1120	6.76	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	186	7.09	J
2,3,3',4,5,6-Hexachlorobiphenyl	160		7.89	U
2,3,3',4,5',6-Hexachlorobiphenyl	161		7.36	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	9.43	7.08	QJ
2,3,3',4',5,6-Hexachlorobiphenyl	163		8.84	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		8.44	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		8.05	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		8.61	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	395	5.61	
2,3',4,4',5',6-Hexachlorobiphenyl	168		7.76	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		6.91	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	5040	7.83	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	1810	8.93	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	989	9.04	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		8.93	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	6340	8.38	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	138	8.03	J
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	724	6.36	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	3470	8.96	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	997	8.62	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	2410	6.29	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	12900	6.19	C

Dry Weather Surface Water Sample PCB Congener Results
Outfall 050 Unfiltered (Duplicate of Outfall 005 Unfiltered)
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		8.37	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		8.12	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	4360	8.02	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		5.91	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		8.02	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		6.43	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	6900	7.58	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		6.15	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	145	5	J
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	1030	6.46	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	151	6.31	J
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		6.81	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		6.82	C180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	2670	5.81	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1110	6.37	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	1380	8.72	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	248	6.36	CJ
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	2600	8.66	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		8.66	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		6.36	C197
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	210	6.34	J
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	303	6.7	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	1460	7.97	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		6.54	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	35.2	4.05	QJ
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	198	9.08	QJ
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	12.5	8.2	QJ
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	23.6	7.9	QJ
2,2',3,3',4,4',5,5',6,6'-Decachlorobipheny	209	8.15	4.21	J
	TOTAL =	**98624.72**		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = *Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.*

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

pg/l = Picograms per liter.

Data validated by SECOR personnel

Dry Weather Surface Water Sample PCB Congener Results
Outfall 050 Filtered (Duplicate of Outfall 005 Filtered)
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2-Chlorobiphenyl	1		1.7	U
3-Chlorobiphenyl	2		2.03	U
4-Chlorobiphenyl	3		2.16	U
2,2'-Dichlorobiphenyl	4		56	JB
2,3-Dichlorobiphenyl	5		6.95	U
2,3'-Dichlorobiphenyl	6	8.77	6.12	QJ
2,4-Dichlorobiphenyl	7		6.36	U
2,4'-Dichlorobiphenyl	8		85	QUJB
2,5-Dichlorobiphenyl	9		6.2	U
2,6-Dichlorobiphenyl	10	137	6.76	J
3,3'-Dichlorobiphenyl	11		55.5	QUJB
3,4-Dichlorobiphenyl	12		6.51	U
3,4'-Dichlorobiphenyl	13		6.51	U
3,5-Dichlorobiphenyl	14		5.46	U
4,4'-Dichlorobiphenyl	15	120	6.78	J
2,2',3-Trichlorobiphenyl	16	121	4.85	J
2,2',4-Trichlorobiphenyl	17	154	4.19	J
2,2',5-Trichlorobiphenyl	18		58	JBC
2,2',6-Trichlorobiphenyl	19	320	4.66	
2,3,3'-Trichlorobiphenyl	20		79.5	UJBC
2,3,4-Trichlorobiphenyl	21		45.6	UJBC
2,3,4'-Trichlorobiphenyl	22	5.74	3.18	QJ
2,3,5-Trichlorobiphenyl	23		3.2	U
2,3,6-Trichlorobiphenyl	24		3.09	U
2,3',4-Trichlorobiphenyl	25		2.71	U
2,3',5-Trichlorobiphenyl	26	11.2	3.03	CJ
2,3',6-Trichlorobiphenyl	27	90.4	2.9	J
2,4,4'-Trichlorobiphenyl	28		79.5	C20BJ
2,4,5-Trichlorobiphenyl	29		3.03	C26
2,4,6-Trichlorobiphenyl	30		58	C18JB
2,4',5-Trichlorobiphenyl	31		62	UJB
2,4',6-Trichlorobiphenyl	32		2.73	BJ
2,3',4'-Trichlorobiphenyl	33		45.6	C21UJB
2,3',5'-Trichlorobiphenyl	34		3.16	U
3,3',4-Trichlorobiphenyl	35		3.3	U
3,3',5-Trichlorobiphenyl	36		3.23	U
3,4,4'-Trichlorobiphenyl	37	13.8	3.28	QJ
3,4,5-Trichlorobiphenyl	38		3.11	U
3,4',5-Trichlorobiphenyl	39		2.95	U

Dry Weather Surface Water Sample PCB Congener Results
Outfall 050 Filtered (Duplicate of Outfall 005 Filtered)
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	36	4.86	CJ
2,2',3,4-Tetrachlorobiphenyl	41		4.86	C40
2,2',3,4'-Tetrachlorobiphenyl	42	16.4	5.06	J
2,2',3,5-Tetrachlorobiphenyl	43		4.52	U
2,2',3,5'-Tetrachlorobiphenyl	44		80	BCJU
2,2',3,6-Tetrachlorobiphenyl	45	36.3	4.98	CJ
2,2',3,6'-Tetrachlorobiphenyl	46	14	6.15	QJ
2,2',4,4'-Tetrachlorobiphenyl	47		4.22	C44JB
2,2',4,5-Tetrachlorobiphenyl	48	12.4	5.01	J
2,2',4,5'-Tetrachlorobiphenyl	49	34.5	3.93	CJ
2,2',4,6-Tetrachlorobiphenyl	50	34.7	4.61	CJ
2,2',4,6'-Tetrachlorobiphenyl	51		4.98	C45
2,2',5,5'-Tetrachlorobiphenyl	52		88	BJ
2,2',5,6'-Tetrachlorobiphenyl	53		4.61	C50
2,2',6,6'-Tetrachlorobiphenyl	54		4.7	U
2,3,3',4-Tetrachlorobiphenyl	55		3.73	U
2,3,3',4'-Tetrachlorobiphenyl	56	7.96	3.52	J
2,3,3',5-Tetrachlorobiphenyl	57		3.52	U
2,3,3',5'-Tetrachlorobiphenyl	58		3.43	U
2,3,3',6-Tetrachlorobiphenyl	59	4.6	3.31	QCJ
2,3,4,4'-Tetrachlorobiphenyl	60	8.69	3.76	QJ
2,3,4,5-Tetrachlorobiphenyl	61	57.5	3.31	CJ
2,3,4,6-Tetrachlorobiphenyl	62		3.31	C59
2,3,4',5-Tetrachlorobiphenyl	63		3.18	U
2,3,4',6-Tetrachlorobiphenyl	64	24.1	3.16	J
2,3,5,6-Tetrachlorobiphenyl	65		80	C44JB
2,3',4,4'-Tetrachlorobiphenyl	66		25.1	BJ
2,3',4,5-Tetrachlorobiphenyl	67		3.04	U
2,3',4,5'-Tetrachlorobiphenyl	68		3.27	U
2,3',4,6-Tetrachlorobiphenyl	69		3.93	C49
2,3',4',5-Tetrachlorobiphenyl	70		3.31	C61
2,3',4',6-Tetrachlorobiphenyl	71		4.86	C40
2,3',5,5'-Tetrachlorobiphenyl	72		3.52	U
2,3',5',6-Tetrachlorobiphenyl	73		4.52	U
2,4,4',5-Tetrachlorobiphenyl	74		3.31	C61
2,4,4',6-Tetrachlorobiphenyl	75		3.31	C59
2,3',4',5'-Tetrachlorobiphenyl	76		3.31	C61
3,3',4,4'-Tetrachlorobiphenyl	77		3.62	U
3,3',4,5-Tetrachlorobiphenyl	78		3.82	U

Dry Weather Surface Water Sample PCB Congener Results
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6/24/2005
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4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
3,3',4,5'-Tetrachlorobiphenyl	79		2.92	U
3,3',5,5'-Tetrachlorobiphenyl	80		3.26	U
3,4,4',5-Tetrachlorobiphenyl	81		3.36	U
2,2',3,3',4-Pentachlorobiphenyl	82		6.05	UJ
2,2',3,3',5-Pentachlorobiphenyl	83	31	5.15	QCJ
2,2',3,3',6-Pentachlorobiphenyl	84	28.2	6.03	QJ
2,2',3,4,4'-Pentachlorobiphenyl	85	9.03	4.15	CJ
2,2',3,4,5-Pentachlorobiphenyl	86	37.3	4.14	CJ
2,2',3,4,5'-Pentachlorobiphenyl	87		4.14	C86
2,2',3,4,6-Pentachlorobiphenyl	88		5.19	U
2,2',3,4,6'-Pentachlorobiphenyl	89		5.72	U
2,2',3,4',5-Pentachlorobiphenyl	90		68	BCJ
2,2',3,4',6-Pentachlorobiphenyl	91		5.19	U
2,2',3,5,5'-Pentachlorobiphenyl	92	18.6	5.01	QJ
2,2',3,5,6-Pentachlorobiphenyl	93		4.91	U
2,2',3,5,6'-Pentachlorobiphenyl	94		5.68	U
2,2',3,5',6-Pentachlorobiphenyl	95	129	5.03	J
2,2',3,6,6'-Pentachlorobiphenyl	96		3.92	U
2,2',3,4',5'-Pentachlorobiphenyl	97		4.14	C86
2,2',3,4',6'-Pentachlorobiphenyl	98		4.84	U
2,2',4,4',5-Pentachlorobiphenyl	99		5.15	C83
2,2',4,4',6-Pentachlorobiphenyl	100		4.91	U
2,2',4,5,5'-Pentachlorobiphenyl	101		68	C90JB
2,2',4,5,6'-Pentachlorobiphenyl	102		4.84	U
2,2',4,5',6-Pentachlorobiphenyl	103		4.78	U
2,2',4,6,6'-Pentachlorobiphenyl	104		3.55	U
2,3,3',4,4'-Pentachlorobiphenyl	105	10.3	3.11	QJ
2,3,3',4,5-Pentachlorobiphenyl	106		3.47	U
2,3,3',4',5-Pentachlorobiphenyl	107		3.35	QJ
2,3,3',4,5'-Pentachlorobiphenyl	108		4.14	C86
2,3,3',4,6-Pentachlorobiphenyl	109	6.39	3.29	QJ
2,3,3',4',6-Pentachlorobiphenyl	110		49.5	BCJ
2,3,3',5,5'-Pentachlorobiphenyl	111		3.44	UJ
2,3,3',5,6-Pentachlorobiphenyl	112		3.7	U
2,3,3',5',6-Pentachlorobiphenyl	113		68	C90JB
2,3,4,4',5-Pentachlorobiphenyl	114		2.76	U
2,3,4,4',6-Pentachlorobiphenyl	115		49.5	C110JB
2,3,4,5,6-Pentachlorobiphenyl	116		4.15	C85
2,3,4',5,6-Pentachlorobiphenyl	117		4.15	C85

Dry Weather Surface Water Sample PCB Congener Results
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6/24/2005
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COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118		26.6	BJ
2,3',4,4',6-Pentachlorobiphenyl	119		4.14	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		3.49	U
2,3',4,5',6-Pentachlorobiphenyl	121		3.6	U
2,3,3',4',5'-Pentachlorobiphenyl	122		3.49	U
2,3',4,4',5'-Pentachlorobiphenyl	123		2.91	U
2,3',4',5,5'-Pentachlorobiphenyl	124		3.35	U
2,3',4',5',6-Pentachlorobiphenyl	125		4.14	C86
3,3',4,4',5-Pentachlorobiphenyl	126		3.47	U
3,3',4,5,5'-Pentachlorobiphenyl	127		3.13	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	8.39	4.63	QCJ
2,2',3,3',4,5-Hexachlorobiphenyl	129	102	4.72	CJ
2,2',3,3',4,5'-Hexachlorobiphenyl	130		6.27	U
2,2',3,3',4,6-Hexachlorobiphenyl	131		6.34	U
2,2',3,3',4,6'-Hexachlorobiphenyl	132	38.7	6.15	J
2,2',3,3',5,5'-Hexachlorobiphenyl	133		5.6	U
2,2',3,3',5,6-Hexachlorobiphenyl	134		6.27	U
2,2',3,3',5,6'-Hexachlorobiphenyl	135	65.9	5.44	CJ
2,2',3,3',6,6'-Hexachlorobiphenyl	136	27.2	3.95	J
2,2',3,4,4',5-Hexachlorobiphenyl	137	8.24	4.61	QCJ
2,2',3,4,4',5'-Hexachlorobiphenyl	138		4.72	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139		5.26	U
2,2',3,4,4',6'-Hexachlorobiphenyl	140		5.26	U
2,2',3,4,5,5'-Hexachlorobiphenyl	141	29.8	5.9	J
2,2',3,4,5,6-Hexachlorobiphenyl	142		6.18	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		6.27	U
2,2',3,4,5',6-Hexachlorobiphenyl	144		5.26	U
2,2',3,4,6,6'-Hexachlorobiphenyl	145		3.9	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	17	5.05	QJ
2,2',3,4',5,6-Hexachlorobiphenyl	147	131	5.28	CJ
2,2',3,4',5,6'-Hexachlorobiphenyl	148		5.39	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		5.28	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		3.76	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		5.44	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		3.73	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	99.4	4.07	CJ
2,2',4,4',5,6'-Hexachlorobiphenyl	154		4.43	U
2,2',4,4',6,6'-Hexachlorobiphenyl	155		3.52	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	6.91	4.22	CJ

Dry Weather Surface Water Sample PCB Congener Results
Outfall 050 Filtered (Duplicate of Outfall 005 Filtered)
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3,3',4,4',5'-Hexachlorobiphenyl	157		4.22	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	10.5	3.64	J
2,3,3',4,5,5'-Hexachlorobiphenyl	159		3.96	U
2,3,3',4,5,6-Hexachlorobiphenyl	160		4.72	C129
2,3,3',4,5',6-Hexachlorobiphenyl	161		3.86	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162		3.92	U
2,3,3',4',5,6-Hexachlorobiphenyl	163		4.72	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		4.61	C137J
2,3,3',5,5',6-Hexachlorobiphenyl	165		4.4	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		4.63	C128J
2,3',4,4',5,5'-Hexachlorobiphenyl	167		2.95	U
2,3',4,4',5',6-Hexachlorobiphenyl	168		4.07	C153J
3,3',4,4',5,5'-Hexachlorobiphenyl	169		3.91	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	24.4	5.02	J
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	10.6	4.78	QCJ
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172		4.77	U
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		4.78	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	25.7	4.34	J
2,2',3,3',4,5',6-Heptachlorobiphenyl	175		4.24	U
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176		3.13	U
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	16.2	4.57	QJ
2,2',3,3',5,5',6-Heptachlorobiphenyl	178		4.56	U
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	13.3	3.31	J
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	48.5	3.56	CJ
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		4.11	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		4	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	17.2	4.21	QCJ
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		3.34	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		4.21	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		3.29	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	31.3	3.91	J
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		2.97	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189		2.83	U
2,3,3',4,4',5,6-Heptachlorobiphenyl	190		3.26	U
2,3,3',4,4',5',6-Heptachlorobiphenyl	191		3.13	U
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		3.55	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		3.56	C180
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	7.01	3.75	QJ
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195		4.11	U

Dry Weather Surface Water Sample PCB Congener Results
Outfall 050 Filtered (Duplicate of Outfall 005 Filtered)
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196		4.62	U
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197		3.21	U
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	14	4.65	QCJ
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		4.65	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		3.21	U
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201		3.08	U
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202		3.47	U
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203		4.18	U
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		3.26	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205		3.04	U
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206		6.12	U
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207		4.03	U
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208		4.06	U
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209		3.63	U
	TOTAL =	2292.13		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = Not detected.

UJ = The analyte was not detected above the reported sample quanitation limit. However the reported quanitation limit is approximate and may or may not represent the actual liimit of quanitation necessary to accurately and precisely measure the analyte in the sample.

Q = Estimated maximum possible concentration.

R = The sample results are rejected due to serious deficiences in the ability to analyze the sample and meet quality control criteria.

The presence or absence of the analyte cannot be verified.

pg/l = Picograms per liter.

Data validated by SECOR personnel

Dry Weather Surface Water Sample PCB Congener Results
Outfall 006 Unfiltered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2-Chlorobiphenyl	1		1.16	U
3-Chlorobiphenyl	2		1.06	U
4-Chlorobiphenyl	3		0.92	U
2,2'-Dichlorobiphenyl	4		1215	QUJB
2,3-Dichlorobiphenyl	5		27.3	U
2,3'-Dichlorobiphenyl	6		25	U
2,4-Dichlorobiphenyl	7		26.1	U
2,4'-Dichlorobiphenyl	8		137	QUJB
2,5-Dichlorobiphenyl	9		26.3	U
2,6-Dichlorobiphenyl	10	42.8	27.2	QJ
3,3'-Dichlorobiphenyl	11		26.2	U
3,4-Dichlorobiphenyl	12		101.5	QUBCJ
3,4'-Dichlorobiphenyl	13		101.5	QUBC12J
3,5-Dichlorobiphenyl	14		25	U
4,4'-Dichlorobiphenyl	15		88	QUJB
2,2',3-Trichlorobiphenyl	16		7.14	U
2,2',4-Trichlorobiphenyl	17		5.77	U
2,2',5-Trichlorobiphenyl	18	19.5	4.76	CJ
2,2',6-Trichlorobiphenyl	19	385	6.22	
2,3,3'-Trichlorobiphenyl	20		42.5	BUCJ
2,3,4-Trichlorobiphenyl	21		14.9	QUBCJ
2,3,4'-Trichlorobiphenyl	22	4.38	2.29	J
2,3,5-Trichlorobiphenyl	23		2.34	U
2,3,6-Trichlorobiphenyl	24		4.18	U
2,3',4-Trichlorobiphenyl	25	7.27	1.99	J
2,3',5-Trichlorobiphenyl	26	4.88	2.19	QCJ
2,3',6-Trichlorobiphenyl	27	32.2	4.07	J
2,4,4'-Trichlorobiphenyl	28		42.5	BUC20J
2,4,5-Trichlorobiphenyl	29		2.19	C26
2,4,6-Trichlorobiphenyl	30		4.76	C18
2,4',5-Trichlorobiphenyl	31		36.35	QUBJ
2,4',6-Trichlorobiphenyl	32	207	3.73	QJ
2,3',4'-Trichlorobiphenyl	33		14.9	QUBC21J
2,3',5'-Trichlorobiphenyl	34		2.28	U
3,3',4-Trichlorobiphenyl	35		2.26	U
3,3',5-Trichlorobiphenyl	36		2.11	U
3,4,4'-Trichlorobiphenyl	37	3.58	1.88	QJ
3,4,5-Trichlorobiphenyl	38		2.16	U
3,4',5-Trichlorobiphenyl	39		2	U
2,2',3,3'-Tetrachlorobiphenyl	40	243	6.69	CJ

Dry Weather Surface Water Sample PCB Congener Results
Outfall 006 Unfiltered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,4-Tetrachlorobiphenyl	41		6.69	C40
2,2',3,4'-Tetrachlorobiphenyl	42	19.7	7.42	QJ
2,2',3,5-Tetrachlorobiphenyl	43		6.13	U
2,2',3,5'-Tetrachlorobiphenyl	44		42.9	BCJ
2,2',3,6-Tetrachlorobiphenyl	45	440	7	C
2,2',3,6'-Tetrachlorobiphenyl	46	21.9	8.16	QJ
2,2',4,4'-Tetrachlorobiphenyl	47		42.9	BC44J
2,2',4,5-Tetrachlorobiphenyl	48		6.69	U
2,2',4,5'-Tetrachlorobiphenyl	49	496	5.72	C
2,2',4,6-Tetrachlorobiphenyl	50	419	6.73	C
2,2',4,6'-Tetrachlorobiphenyl	51		7	C45
2,2',5,5'-Tetrachlorobiphenyl	52		16.2	BJ
2,2',5,6'-Tetrachlorobiphenyl	53		6.73	C50
2,2',6,6'-Tetrachlorobiphenyl	54		10.1	U
2,3,3',4-Tetrachlorobiphenyl	55		5.05	U
2,3,3',4'-Tetrachlorobiphenyl	56	15.9	4.97	QJ
2,3,3',5-Tetrachlorobiphenyl	57		4.96	U
2,3,3',5'-Tetrachlorobiphenyl	58		4.84	U
2,3,3',6-Tetrachlorobiphenyl	59	18.7	4.88	CJ
2,3,4,4'-Tetrachlorobiphenyl	60		4.89	U
2,3,4,5-Tetrachlorobiphenyl	61		28.6	QBCJ
2,3,4,6-Tetrachlorobiphenyl	62		4.88	C59
2,3,4',5-Tetrachlorobiphenyl	63		4.64	U
2,3,4',6-Tetrachlorobiphenyl	64	125	4.85	J
2,3,5,6-Tetrachlorobiphenyl	65		42.9	BC44J
2,3',4,4'-Tetrachlorobiphenyl	66	59.6	4.61	J
2,3',4,5-Tetrachlorobiphenyl	67		4.32	U
2,3',4,5'-Tetrachlorobiphenyl	68		4.49	U
2,3',4,6-Tetrachlorobiphenyl	69		5.72	C49
2,3',4',5-Tetrachlorobiphenyl	70		28.6	QBC61J
2,3',4',6-Tetrachlorobiphenyl	71		6.69	C40
2,3',5,5'-Tetrachlorobiphenyl	72		4.78	U
2,3',5',6-Tetrachlorobiphenyl	73		6.13	U
2,4,4',5-Tetrachlorobiphenyl	74		28.6	QBC61J
2,4,4',6-Tetrachlorobiphenyl	75		4.88	C59
2,3',4',5'-Tetrachlorobiphenyl	76		28.6	QBC61J
3,3',4,4'-Tetrachlorobiphenyl	77	10.1	4.31	QJ
3,3',4,5-Tetrachlorobiphenyl	78		4.77	U
3,3',4,5'-Tetrachlorobiphenyl	79	4.84	4.03	QJ
3,3',5,5'-Tetrachlorobiphenyl	80		4.29	U

Dry Weather Surface Water Sample PCB Congener Results
Outfall 006 Unfiltered
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COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
3,4,4',5-Tetrachlorobiphenyl	81		4.23	U
2,2',3,3',4-Pentachlorobiphenyl	82	61.4	12.3	QJ
2,2',3,3',5-Pentachlorobiphenyl	83		12.8	U
2,2',3,3',6-Pentachlorobiphenyl	84	326	12.5	QJ
2,2',3,4,4'-Pentachlorobiphenyl	85	109	8.84	QCJ
2,2',3,4,5-Pentachlorobiphenyl	86	1210	8.86	QCJ
2,2',3,4,5'-Pentachlorobiphenyl	87		8.86	QC86J
2,2',3,4,6-Pentachlorobiphenyl	88	279	11	QC
2,2',3,4,6'-Pentachlorobiphenyl	89		11.9	U
2,2',3,4',5-Pentachlorobiphenyl	90	4920	9.23	C
2,2',3,4',6-Pentachlorobiphenyl	91		11	QC88J
2,2',3,5,5'-Pentachlorobiphenyl	92	989	11.2	
2,2',3,5,6-Pentachlorobiphenyl	93	45.1	10.8	QCJ
2,2',3,5,6'-Pentachlorobiphenyl	94		11.8	U
2,2',3,5',6-Pentachlorobiphenyl	95		10.8	B
2,2',3,6,6'-Pentachlorobiphenyl	96		8.21	U
2,2',3,4',5'-Pentachlorobiphenyl	97		8.86	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	43.6	11	CJ
2,2',4,4',5-Pentachlorobiphenyl	99	953	8.79	C
2,2',4,4',6-Pentachlorobiphenyl	100		10.8	C93J
2,2',4,5,5'-Pentachlorobiphenyl	101		9.23	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		11	C98
2,2',4,5',6-Pentachlorobiphenyl	103	31.1	10.1	QJ
2,2',4,6,6'-Pentachlorobiphenyl	104		7.97	U
2,3,3',4,4'-Pentachlorobiphenyl	105	536	5.1	
2,3,3',4,5-Pentachlorobiphenyl	106		5.39	U
2,3,3',4',5-Pentachlorobiphenyl	107	147	4.77	QJ
2,3,3',4,5'-Pentachlorobiphenyl	108	32.8	5.31	QCJ
2,3,3',4,6-Pentachlorobiphenyl	109		8.86	C86
2,3,3',4',6-Pentachlorobiphenyl	110	4260	7.82	C
2,3,3',5,5'-Pentachlorobiphenyl	111		7.52	U
2,3,3',5,6-Pentachlorobiphenyl	112		8.79	C99
2,3,3',5',6-Pentachlorobiphenyl	113		9.23	C90
2,3,4,4',5-Pentachlorobiphenyl	114		4.16	U
2,3,4,4',6-Pentachlorobiphenyl	115		7.82	C110
2,3,4,5,6-Pentachlorobiphenyl	116		8.84	C85
2,3,4',5,6-Pentachlorobiphenyl	117		8.84	C85
2,3',4,4',5-Pentachlorobiphenyl	118	1020	4.45	
2,3',4,4',6-Pentachlorobiphenyl	119		8.86	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		7.24	U

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COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3',4,5',6-Pentachlorobiphenyl	121		7.88	U
2,3,3',4',5'-Pentachlorobiphenyl	122		5.59	U
2,3',4,4',5'-Pentachlorobiphenyl	123	6.46	4.22	J
2,3',4',5,5'-Pentachlorobiphenyl	124		5.31	C108J
2,3',4',5',6-Pentachlorobiphenyl	125		8.86	C86
3,3',4,4',5-Pentachlorobiphenyl	126	8.36	5.86	QJ
3,3',4,5,5'-Pentachlorobiphenyl	127		4.94	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1390	11	C
2,2',3,3',4,5-Hexachlorobiphenyl	129		11.3	BC
2,2',3,3',4,5'-Hexachlorobiphenyl	130	688	14.3	
2,2',3,3',4,6-Hexachlorobiphenyl	131	38.6	14.4	J
2,2',3,3',4,6'-Hexachlorobiphenyl	132	4970	14	
2,2',3,3',5,5'-Hexachlorobiphenyl	133	161	13.2	J
2,2',3,3',5,6-Hexachlorobiphenyl	134	578	14.4	C
2,2',3,3',5,6'-Hexachlorobiphenyl	135	5940	20.3	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	1730	15	
2,2',3,4,4',5-Hexachlorobiphenyl	137	1330	10.8	C
2,2',3,4,4',5'-Hexachlorobiphenyl	138		11.3	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139	33.3	12.1	QCJ
2,2',3,4,4',6'-Hexachlorobiphenyl	140		12.1	C139
2,2',3,4,5,5'-Hexachlorobiphenyl	141	3840	12.8	
2,2',3,4,5,6-Hexachlorobiphenyl	142		14.2	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		14.4	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	544	19.8	QJ
2,2',3,4,6,6'-Hexachlorobiphenyl	145		15.3	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	2780	11.6	
2,2',3,4',5,6-Hexachlorobiphenyl	147		11.6	BC
2,2',3,4',5,6'-Hexachlorobiphenyl	148		20.2	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		11.6	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		14.7	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		20.3	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		14.5	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153		9.89	BC
2,2',4,4',5,6'-Hexachlorobiphenyl	154	35.6	17.3	QJ
2,2',4,4',6,6'-Hexachlorobiphenyl	155		14.1	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	629	9.01	C
2,3,3',4,4',5'-Hexachlorobiphenyl	157		9.01	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	1250	8.62	
2,3,3',4,5,5'-Hexachlorobiphenyl	159	211	9.04	QJ
2,3,3',4,5,6-Hexachlorobiphenyl	160		10.1	U

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COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3,3',4,5',6-Hexachlorobiphenyl	161		9.38	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162	15	9.02	QJ
2,3,3',4',5,6-Hexachlorobiphenyl	163		11.3	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		10.8	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		10.3	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		11	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	420	7.12	
2,3',4,4',5',6-Hexachlorobiphenyl	168		9.89	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		9.13	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	5640	8.27	
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	1980	9.77	C
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	1040	9.89	
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		9.77	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	6880	9.16	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	159	8.78	J
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	822	6.96	
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	4110	9.79	
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	1270	9.43	
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	2900	6.88	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	14200	6.74	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		9.15	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		8.88	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	4830	8.77	C
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		6.46	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		8.77	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		7.04	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	8040	8.29	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		6.73	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189	160	5.58	J
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	1230	7.06	
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	187	6.9	J
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		7.45	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		7.46	C180J
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	2920	5.08	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1120	5.56	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	1480	7.61	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	273	5.55	C
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	2810	7.56	C
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		7.56	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		5.55	C197

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COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	213	5.54	QJ
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	338	5.86	
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	1650	6.97	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		5.71	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205	62.7	3.53	J
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	245	8.12	QJ
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207	15	7.34	QJ
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208	24.5	7.07	J
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	77.3	5.63	QJ
	TOTAL =	108818.17		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = Estimated value.

U = Not detected.

Q = Estimated maximum possible concentration.

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

pg/l = Picograms per liter.

Data validated by SECOR personnel

P:\Clients\Amtrak-APU\Phase 2 RI Laboratory Data\Attachments\Attachment F\[dry weather june 2005 PCB cong results validated.xls]006 unfil validated wo B

Dry Weather Surface Water Sample PCB Congener Results
Outfall 006 Filtered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2-Chlorobiphenyl	1	9.39	2.05	J
3-Chlorobiphenyl	2		2.49	U
4-Chlorobiphenyl	3		2.72	U
2,2'-Dichlorobiphenyl	4		56	QUBJ
2,3-Dichlorobiphenyl	5		9.13	U
2,3'-Dichlorobiphenyl	6	9.21	8.04	QJ
2,4-Dichlorobiphenyl	7		8.35	U
2,4'-Dichlorobiphenyl	8		85	QUBJ
2,5-Dichlorobiphenyl	9	8.88	8.15	QJ
2,6-Dichlorobiphenyl	10	28.8	8.88	QJ
3,3'-Dichlorobiphenyl	11		55.5	QUBJ
3,4-Dichlorobiphenyl	12	8.95	8.55	QCJ
3,4'-Dichlorobiphenyl	13		8.55	C12
3,5-Dichlorobiphenyl	14	5.08	7.18	QJ
4,4'-Dichlorobiphenyl	15	13.5	9.29	QJ
2,2',3-Trichlorobiphenyl	16		6.3	U
2,2',4-Trichlorobiphenyl	17		5.44	U
2,2',5-Trichlorobiphenyl	18		580	BUCJ
2,2',6-Trichlorobiphenyl	19	240	6.05	
2,3,3'-Trichlorobiphenyl	20		79.5	BUCJ
2,3,4-Trichlorobiphenyl	21		45.6	QUBCJ
2,3,4'-Trichlorobiphenyl	22	7.47	4.28	QJ
2,3,5-Trichlorobiphenyl	23		4.3	U
2,3,6-Trichlorobiphenyl	24		4.02	U
2,3',4-Trichlorobiphenyl	25	8.76	3.64	J
2,3',5-Trichlorobiphenyl	26	7.67	4.08	CJ
2,3',6-Trichlorobiphenyl	27	45.1	3.77	J
2,4,4'-Trichlorobiphenyl	28		79.5	BUC20J
2,4,5-Trichlorobiphenyl	29		4.08	C26
2,4,6-Trichlorobiphenyl	30		58	BUC18J
2,4',5-Trichlorobiphenyl	31		62	QUBJ
2,4',6-Trichlorobiphenyl	32		35	BJ
2,3',4'-Trichlorobiphenyl	33		45.6	QUBC21J
2,3',5'-Trichlorobiphenyl	34		4.24	U
3,3',4-Trichlorobiphenyl	35		4.44	U
3,3',5-Trichlorobiphenyl	36		4.35	U
3,4,4'-Trichlorobiphenyl	37		4.41	U
3,4,5-Trichlorobiphenyl	38		4.18	U
3,4',5-Trichlorobiphenyl	39		3.96	U

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4001 Vandever Avenue
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COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,3'-Tetrachlorobiphenyl	40	65	6.8	CJ
2,2',3,4-Tetrachlorobiphenyl	41		6.8	C40
2,2',3,4'-Tetrachlorobiphenyl	42	10.9	7.08	QJ
2,2',3,5-Tetrachlorobiphenyl	43	13.9	6.33	QCJ
2,2',3,5'-Tetrachlorobiphenyl	44		80	BUCJ
2,2',3,6-Tetrachlorobiphenyl	45	125	6.97	CJ
2,2',3,6'-Tetrachlorobiphenyl	46	31.2	8.61	J
2,2',4,4'-Tetrachlorobiphenyl	47		80	BUC44J
2,2',4,5-Tetrachlorobiphenyl	48		7.01	U
2,2',4,5'-Tetrachlorobiphenyl	49	59.6	5.5	CJ
2,2',4,6-Tetrachlorobiphenyl	50	146	6.45	CJ
2,2',4,6'-Tetrachlorobiphenyl	51		6.97	C45
2,2',5,5'-Tetrachlorobiphenyl	52		88	JB
2,2',5,6'-Tetrachlorobiphenyl	53		6.45	C50
2,2',6,6'-Tetrachlorobiphenyl	54	32.1	6.1	J
2,3,3',4-Tetrachlorobiphenyl	55		5.22	U
2,3,3',4'-Tetrachlorobiphenyl	56		4.93	U
2,3,3',5-Tetrachlorobiphenyl	57		4.93	U
2,3,3',5'-Tetrachlorobiphenyl	58		4.8	U
2,3,3',6-Tetrachlorobiphenyl	59	16	4.64	CJ
2,3,4,4'-Tetrachlorobiphenyl	60		5.26	U
2,3,4,5-Tetrachlorobiphenyl	61	22.6	4.63	CJ
2,3,4,6-Tetrachlorobiphenyl	62		4.64	C59
2,3,4',5-Tetrachlorobiphenyl	63		4.45	U
2,3,4',6-Tetrachlorobiphenyl	64	27.9	4.42	J
2,3,5,6-Tetrachlorobiphenyl	65		80	BUC44J
2,3',4,4'-Tetrachlorobiphenyl	66		25.1	BUJ
2,3',4,5-Tetrachlorobiphenyl	67		4.25	U
2,3',4,5'-Tetrachlorobiphenyl	68		4.58	U
2,3',4,6-Tetrachlorobiphenyl	69		5.5	C49
2,3',4',5-Tetrachlorobiphenyl	70		4.63	C61
2,3',4',6-Tetrachlorobiphenyl	71		6.8	C40
2,3',5,5'-Tetrachlorobiphenyl	72		4.93	U
2,3',5',6-Tetrachlorobiphenyl	73		6.33	C43J
2,4,4',5-Tetrachlorobiphenyl	74		4.63	C61
2,4,4',6-Tetrachlorobiphenyl	75		4.64	C59
2,3',4',5'-Tetrachlorobiphenyl	76		4.63	C61
3,3',4,4'-Tetrachlorobiphenyl	77		5.15	U
3,3',4,5-Tetrachlorobiphenyl	78		5.35	U

Dry Weather Surface Water Sample PCB Congener Results
Outfall 006 Filtered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
3,3',4,5'-Tetrachlorobiphenyl	79		4.09	U
3,3',5,5'-Tetrachlorobiphenyl	80		4.56	U
3,4,4',5-Tetrachlorobiphenyl	81		4.63	U
2,2',3,3',4-Pentachlorobiphenyl	82	20.1	8.72	QJ
2,2',3,3',5-Pentachlorobiphenyl	83	125	7.43	CJ
2,2',3,3',6-Pentachlorobiphenyl	84	79.2	8.69	J
2,2',3,4,4'-Pentachlorobiphenyl	85	25.2	5.98	CJ
2,2',3,4,5-Pentachlorobiphenyl	86	124	5.97	CJ
2,2',3,4,5'-Pentachlorobiphenyl	87		5.97	C86
2,2',3,4,6-Pentachlorobiphenyl	88	61.9	7.48	CJ
2,2',3,4,6'-Pentachlorobiphenyl	89		8.24	U
2,2',3,4',5-Pentachlorobiphenyl	90		68	BC
2,2',3,4',6-Pentachlorobiphenyl	91		7.48	C88
2,2',3,5,5'-Pentachlorobiphenyl	92	129	7.22	J
2,2',3,5,6-Pentachlorobiphenyl	93	12.9	7.08	QCJ
2,2',3,5,6'-Pentachlorobiphenyl	94		8.18	U
2,2',3,5',6-Pentachlorobiphenyl	95	735	7.25	
2,2',3,6,6'-Pentachlorobiphenyl	96		5.65	U
2,2',3,4',5'-Pentachlorobiphenyl	97		5.97	C86
2,2',3,4',6'-Pentachlorobiphenyl	98	21.7	6.98	CJ
2,2',4,4',5-Pentachlorobiphenyl	99		7.43	C83
2,2',4,4',6-Pentachlorobiphenyl	100		7.08	C93J
2,2',4,5,5'-Pentachlorobiphenyl	101		68	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		6.98	C98
2,2',4,5',6-Pentachlorobiphenyl	103	17.3	6.89	J
2,2',4,6,6'-Pentachlorobiphenyl	104		5.12	U
2,3,3',4,4'-Pentachlorobiphenyl	105	31.5	4.53	J
2,3,3',4,5-Pentachlorobiphenyl	106		5.45	U
2,3,3',4',5-Pentachlorobiphenyl	107	19.5	5.18	J
2,3,3',4,5'-Pentachlorobiphenyl	108		5.28	U
2,3,3',4,6-Pentachlorobiphenyl	109		5.97	C86
2,3,3',4',6-Pentachlorobiphenyl	110		49.5	BC
2,3,3',5,5'-Pentachlorobiphenyl	111		4.95	UJ
2,3,3',5,6-Pentachlorobiphenyl	112		5.33	U
2,3,3',5',6-Pentachlorobiphenyl	113		68	C90
2,3,4,4',5-Pentachlorobiphenyl	114		4.43	U
2,3,4,4',6-Pentachlorobiphenyl	115		49.5	C110
2,3,4,5,6-Pentachlorobiphenyl	116		5.98	C85
2,3,4',5,6-Pentachlorobiphenyl	117		5.98	C85

Dry Weather Surface Water Sample PCB Congener Results
Outfall 006 Filtered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3',4,4',5-Pentachlorobiphenyl	118		26.6	BJ
2,3',4,4',6-Pentachlorobiphenyl	119		5.97	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		5.02	U
2,3',4,5',6-Pentachlorobiphenyl	121		5.19	U
2,3,3',4',5'-Pentachlorobiphenyl	122		5.49	U
2,3',4,4',5'-Pentachlorobiphenyl	123		4.61	U
2,3',4',5,5'-Pentachlorobiphenyl	124		5.28	U
2,3',4',5',6-Pentachlorobiphenyl	125		5.97	C86
3,3',4,4',5-Pentachlorobiphenyl	126		5.56	U
3,3',4,5,5'-Pentachlorobiphenyl	127		4.93	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	61.1	6.75	CJ
2,2',3,3',4,5-Hexachlorobiphenyl	129	715	6.89	C
2,2',3,3',4,5'-Hexachlorobiphenyl	130	40.2	9.14	QJ
2,2',3,3',4,6-Hexachlorobiphenyl	131		9.25	U
2,2',3,3',4,6'-Hexachlorobiphenyl	132	257	8.96	
2,2',3,3',5,5'-Hexachlorobiphenyl	133		8.17	U
2,2',3,3',5,6-Hexachlorobiphenyl	134	33.4	9.14	QCJ
2,2',3,3',5,6'-Hexachlorobiphenyl	135	470	7.82	C
2,2',3,3',6,6'-Hexachlorobiphenyl	136	158	5.67	J
2,2',3,4,4',5-Hexachlorobiphenyl	137	59.2	6.72	CJ
2,2',3,4,4',5'-Hexachlorobiphenyl	138		6.89	C129
2,2',3,4,4',6-Hexachlorobiphenyl	139		7.67	U
2,2',3,4,4',6'-Hexachlorobiphenyl	140		7.67	U
2,2',3,4,5,5'-Hexachlorobiphenyl	141	202	8.6	
2,2',3,4,5,6-Hexachlorobiphenyl	142		9.01	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		9.14	C134
2,2',3,4,5',6-Hexachlorobiphenyl	144	58.2	7.56	J
2,2',3,4,6,6'-Hexachlorobiphenyl	145		5.61	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	155	7.36	J
2,2',3,4',5,6-Hexachlorobiphenyl	147	931	7.69	C
2,2',3,4',5,6'-Hexachlorobiphenyl	148		7.75	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		7.69	C147
2,2',3,4',6,6'-Hexachlorobiphenyl	150		5.4	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		7.82	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		5.37	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153	716	5.93	C
2,2',4,4',5,6'-Hexachlorobiphenyl	154		6.37	U
2,2',4,4',6,6'-Hexachlorobiphenyl	155		5.06	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	28.4	6.16	CJ

Dry Weather Surface Water Sample PCB Congener Results
Outfall 006 Filtered
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Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3,3',4,4',5'-Hexachlorobiphenyl	157		6.16	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	62.1	5.3	J
2,3,3',4,5,5'-Hexachlorobiphenyl	159	10.6	5.77	J
2,3,3',4,5,6-Hexachlorobiphenyl	160		6.89	C129
2,3,3',4,5',6-Hexachlorobiphenyl	161		5.63	U
2,3,3',4',5,5'-Hexachlorobiphenyl	162		5.72	U
2,3,3',4',5,6-Hexachlorobiphenyl	163		6.89	C129
2,3,3',4',5',6-Hexachlorobiphenyl	164		6.72	C137
2,3,3',5,5',6-Hexachlorobiphenyl	165		6.42	U
2,3,4,4',5,6-Hexachlorobiphenyl	166		6.75	C128
2,3',4,4',5,5'-Hexachlorobiphenyl	167	20.3	4.3	J
2,3',4,4',5',6-Hexachlorobiphenyl	168		5.93	C153
3,3',4,4',5,5'-Hexachlorobiphenyl	169		5.67	U
2,2',3,3',4,4',5-Heptachlorobiphenyl	170	176	6.93	J
2,2',3,3',4,4',6-Heptachlorobiphenyl	171	62.6	6.85	CJ
2,2',3,3',4,5,5'-Heptachlorobiphenyl	172	38.1	6.83	J
2,2',3,3',4,5,6-Heptachlorobiphenyl	173		6.85	C171
2,2',3,3',4,5,6'-Heptachlorobiphenyl	174	204	6.22	
2,2',3,3',4,5',6-Heptachlorobiphenyl	175	9.63	6.07	J
2,2',3,3',4,6,6'-Heptachlorobiphenyl	176	27.7	4.48	J
2,2',3,3',4,5',6'-Heptachlorobiphenyl	177	121	6.54	J
2,2',3,3',5,5',6-Heptachlorobiphenyl	178	43.1	6.53	QJ
2,2',3,3',5,6,6'-Heptachlorobiphenyl	179	101	4.74	J
2,2',3,4,4',5,5'-Heptachlorobiphenyl	180	396	5.09	C
2,2',3,4,4',5,6-Heptachlorobiphenyl	181		5.9	U
2,2',3,4,4',5,6'-Heptachlorobiphenyl	182		5.73	U
2,2',3,4,4',5',6-Heptachlorobiphenyl	183	153	6.04	CJ
2,2',3,4,4',6,6'-Heptachlorobiphenyl	184		4.78	U
2,2',3,4,5,5',6-Heptachlorobiphenyl	185		6.04	C183
2,2',3,4,5,6,6'-Heptachlorobiphenyl	186		4.71	U
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	242	5.6	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188		4.36	U
2,3,3',4,4',5,5'-Heptachlorobiphenyl	189		4.11	U
2,3,3',4,4',5,6-Heptachlorobiphenyl	190	33.1	4.67	J
2,3,3',4,4',5',6-Heptachlorobiphenyl	191	10.5	4.48	QJ
2,3,3',4,5,5',6-Heptachlorobiphenyl	192		5.08	U
2,3,3',4',5,5',6-Heptachlorobiphenyl	193		5.09	C180
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	194	56.8	4.78	J
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	26.6	5.23	J

Dry Weather Surface Water Sample PCB Congener Results
Outfall 006 Filtered
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	196	31.1	5.64	QJ
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	197	9.4	3.92	QCJ
2,2',3,3',4,5,5',6-Octachlorobiphenyl	198	64.4	5.67	CJ
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	199		5.67	C198
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	200		3.92	C197J
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	201	8.12	3.75	QJ
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	202	10.7	4.24	J
2,2',3,4,4',5,5',6-Octachlorobiphenyl	203	38.3	5.1	J
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	204		3.98	U
2,3,3',4,4',5,5',6-Octachlorobiphenyl	205		3.88	U
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	206	8.42	6.45	QJ
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	207		4.52	U
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	208		4.73	U
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	4.25	3.36	QJ
	TOTAL =	**8198.63**		

Notes:

B = Analyte is present in the associated method blank at a reportable level.

C = Co-eluting congener. Reported value is the total sum of the co-eluting congener(s).

Cx = Corresponding number (x) represents the co-eluting congener. See (x) for the summed results.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = Not detected.

UJ = The analyte was not detected above the reported sample quanitation limit. However the reported quanitation limit is approximate and may or may not represent the actual liimit of quanitation necessary to accurately and precisely measure the analyte in the sample.

Q = Estimated maximum possible concentration.

R = The sample results are rejected due to serious deficiences in the ability to analyze the sample and meet quality control criteria.

The presence or absence of the analyte cannot be verified.

pg/l = Picograms per liter.

Data validated by SECOR personnel

Dry Weather Surface Water Sample PCB Congener Results
Outfall 006 Unfiltered - Incoming Tide
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2-Chlorobiphenyl	1		0.883	U
3-Chlorobiphenyl	2		0.807	U
4-Chlorobiphenyl	3		0.701	U
2,2'-Dichlorobiphenyl	4		1215	QUJB
2,3-Dichlorobiphenyl	5		19.6	U
2,3'-Dichlorobiphenyl	6		18	U
2,4-Dichlorobiphenyl	7		18.8	U
2,4'-Dichlorobiphenyl	8		137	QUJB
2,5-Dichlorobiphenyl	9		18.9	U
2,6-Dichlorobiphenyl	10	8.52	19.5	QJ
3,3'-Dichlorobiphenyl	11		89.5	QUBJ
3,4-Dichlorobiphenyl	12		101.5	QUBCJ
3,4'-Dichlorobiphenyl	13		101.5	QUBC12J
3,5-Dichlorobiphenyl	14		18	U
4,4'-Dichlorobiphenyl	15		88	QUBJ
2,2',3-Trichlorobiphenyl	16	6.66	4.71	QJ
2,2',4-Trichlorobiphenyl	17	23.1	3.81	QJ
2,2',5-Trichlorobiphenyl	18	43.4	3.14	CJ
2,2',6-Trichlorobiphenyl	19	25.2	4.1	J
2,3,3'-Trichlorobiphenyl	20		42.5	BCJ
2,3,4-Trichlorobiphenyl	21		14.9	BUCJ
2,3,4'-Trichlorobiphenyl	22	3.18	1.51	QJ
2,3,5-Trichlorobiphenyl	23		1.55	U
2,3,6-Trichlorobiphenyl	24		2.76	U
2,3',4-Trichlorobiphenyl	25	2.5	1.31	J
2,3',5-Trichlorobiphenyl	26	8.25	1.45	CJ
2,3',6-Trichlorobiphenyl	27	16.2	2.69	QJ
2,4,4'-Trichlorobiphenyl	28		42.5	C20
2,4,5-Trichlorobiphenyl	29		1.45	C26
2,4,6-Trichlorobiphenyl	30		3.14	C18
2,4',5-Trichlorobiphenyl	31		36.35	BJ
2,4',6-Trichlorobiphenyl	32	22.4	2.46	QJ
2,3',4'-Trichlorobiphenyl	33		14.9	BUC21J
2,3',5'-Trichlorobiphenyl	34		1.5	U
3,3',4-Trichlorobiphenyl	35		1.49	U
3,3',5-Trichlorobiphenyl	36		1.39	U
3,4,4'-Trichlorobiphenyl	37	3.86	1.24	QJ
3,4,5-Trichlorobiphenyl	38		1.43	U
3,4',5-Trichlorobiphenyl	39		1.32	U
2,2',3,3'-Tetrachlorobiphenyl	40	44.3	3.87	QCJ

Dry Weather Surface Water Sample PCB Congener Results
Outfall 006 Unfiltered - Incoming Tide
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,2',3,4-Tetrachlorobiphenyl	41		3.87	C40
2,2',3,4'-Tetrachlorobiphenyl	42	10	4.28	QJ
2,2',3,5-Tetrachlorobiphenyl	43		3.54	U
2,2',3,5'-Tetrachlorobiphenyl	44		42.9	BCJ
2,2',3,6-Tetrachlorobiphenyl	45	32.7	4.04	CJ
2,2',3,6'-Tetrachlorobiphenyl	46		4.71	U
2,2',4,4'-Tetrachlorobiphenyl	47		42.9	BC44J
2,2',4,5-Tetrachlorobiphenyl	48		3.87	U
2,2',4,5'-Tetrachlorobiphenyl	49	144	3.31	CJ
2,2',4,6-Tetrachlorobiphenyl	50	41.5	3.89	CJ
2,2',4,6'-Tetrachlorobiphenyl	51		4.04	C45
2,2',5,5'-Tetrachlorobiphenyl	52		16.2	BJ
2,2',5,6'-Tetrachlorobiphenyl	53		3.89	C50
2,2',6,6'-Tetrachlorobiphenyl	54		5.85	U
2,3,3',4-Tetrachlorobiphenyl	55		2.92	U
2,3,3',4'-Tetrachlorobiphenyl	56		2.87	U
2,3,3',5-Tetrachlorobiphenyl	57		2.87	U
2,3,3',5'-Tetrachlorobiphenyl	58		2.8	U
2,3,3',6-Tetrachlorobiphenyl	59		2.82	U
2,3,4,4'-Tetrachlorobiphenyl	60		2.82	U
2,3,4,5-Tetrachlorobiphenyl	61		28.6	QBCJ
2,3,4,6-Tetrachlorobiphenyl	62		2.82	U
2,3,4',5-Tetrachlorobiphenyl	63		2.68	U
2,3,4',6-Tetrachlorobiphenyl	64	29.2	2.8	J
2,3,5,6-Tetrachlorobiphenyl	65		42.9	BC44J
2,3',4,4'-Tetrachlorobiphenyl	66	40.8	2.66	QJ
2,3',4,5-Tetrachlorobiphenyl	67		2.5	U
2,3',4,5'-Tetrachlorobiphenyl	68		2.59	U
2,3',4,6-Tetrachlorobiphenyl	69		3.31	C49
2,3',4',5-Tetrachlorobiphenyl	70		28.6	QBC6J
2,3',4',6-Tetrachlorobiphenyl	71		3.87	C40
2,3',5,5'-Tetrachlorobiphenyl	72		2.76	U
2,3',5',6-Tetrachlorobiphenyl	73		3.54	U
2,4,4',5-Tetrachlorobiphenyl	74		28.6	QBC61J
2,4,4',6-Tetrachlorobiphenyl	75		2.82	U
2,3',4',5'-Tetrachlorobiphenyl	76		28.6	QBC61J
3,3',4,4'-Tetrachlorobiphenyl	77		2.49	U
3,3',4,5-Tetrachlorobiphenyl	78		2.76	U
3,3',4,5'-Tetrachlorobiphenyl	79		2.33	U
3,3',5,5'-Tetrachlorobiphenyl	80		2.48	U

Dry Weather Surface Water Sample PCB Congener Results
Outfall 006 Unfiltered - Incoming Tide
6/24/2005
Amtrak Former Fueling Facility
4001 Vandever Avenue
Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
3,4,4',5-Tetrachlorobiphenyl	81		2.43	U
2,2',3,3',4-Pentachlorobiphenyl	82		4.9	U
2,2',3,3',5-Pentachlorobiphenyl	83		5.08	U
2,2',3,3',6-Pentachlorobiphenyl	84	18.6	4.96	QJ
2,2',3,4,4'-Pentachlorobiphenyl	85		3.51	U
2,2',3,4,5-Pentachlorobiphenyl	86	31.1	3.52	QCJ
2,2',3,4,5'-Pentachlorobiphenyl	87		3.52	C86J
2,2',3,4,6-Pentachlorobiphenyl	88	7.97	4.37	QCJ
2,2',3,4,6'-Pentachlorobiphenyl	89		4.73	U
2,2',3,4',5-Pentachlorobiphenyl	90	201	3.67	QCJ
2,2',3,4',6-Pentachlorobiphenyl	91		4.37	C88J
2,2',3,5,5'-Pentachlorobiphenyl	92	17.1	4.44	QJ
2,2',3,5,6-Pentachlorobiphenyl	93		4.29	U
2,2',3,5,6'-Pentachlorobiphenyl	94		4.68	U
2,2',3,5',6-Pentachlorobiphenyl	95		23.45	BJ
2,2',3,6,6'-Pentachlorobiphenyl	96		3.26	U
2,2',3,4',5'-Pentachlorobiphenyl	97		3.52	C86
2,2',3,4',6'-Pentachlorobiphenyl	98		4.36	U
2,2',4,4',5-Pentachlorobiphenyl	99	33.4	3.49	QCJ
2,2',4,4',6-Pentachlorobiphenyl	100		4.29	U
2,2',4,5,5'-Pentachlorobiphenyl	101		3.67	C90
2,2',4,5,6'-Pentachlorobiphenyl	102		4.36	U
2,2',4,5',6-Pentachlorobiphenyl	103		4.02	U
2,2',4,6,6'-Pentachlorobiphenyl	104		3.17	U
2,3,3',4,4'-Pentachlorobiphenyl	105	17.7	2.13	QJ
2,3,3',4,5-Pentachlorobiphenyl	106		2.14	U
2,3,3',4',5-Pentachlorobiphenyl	107		1.9	U
2,3,3',4,5'-Pentachlorobiphenyl	108		2.11	U
2,3,3',4,6-Pentachlorobiphenyl	109		3.52	C86
2,3,3',4',6-Pentachlorobiphenyl	110	183	3.11	QCJ
2,3,3',5,5'-Pentachlorobiphenyl	111		2.99	U
2,3,3',5,6-Pentachlorobiphenyl	112		3.49	C99
2,3,3',5',6-Pentachlorobiphenyl	113		3.67	C90
2,3,4,4',5-Pentachlorobiphenyl	114		1.66	U
2,3,4,4',6-Pentachlorobiphenyl	115		3.11	C110
2,3,4,5,6-Pentachlorobiphenyl	116		3.51	U
2,3,4',5,6-Pentachlorobiphenyl	117		3.51	U
2,3',4,4',5-Pentachlorobiphenyl	118	99.6	1.8	J
2,3',4,4',6-Pentachlorobiphenyl	119		3.52	C86
2,3',4,5,5'-Pentachlorobiphenyl	120		2.88	U

Dry Weather Surface Water Sample PCB Congener Results
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Wilmington, Delaware

COMPOUND	IUPAC	Result (pg/l)	Detection Limit (pg/l)	Data Qualifier
2,3',4,5',6-Pentachlorobiphenyl	121		3.13	U
2,3,3',4',5'-Pentachlorobiphenyl	122		2.22	U
2,3',4,4',5'-Pentachlorobiphenyl	123		1.69	U
2,3',4',5,5'-Pentachlorobiphenyl	124		2.11	U
2,3',4',5',6-Pentachlorobiphenyl	125		3.52	C86
3,3',4,4',5-Pentachlorobiphenyl	126		2.14	U
3,3',4,5,5'-Pentachlorobiphenyl	127		1.96	U
2,2',3,3',4,4'-Hexachlorobiphenyl	128	22	3.53	QCJ
2,2',3,3',4,5-Hexachlorobiphenyl	129		21.45	BCJ
2,2',3,3',4,5'-Hexachlorobiphenyl	130	5.33	4.6	QJ
2,2',3,3',4,6-Hexachlorobiphenyl	131		4.63	U
2,2',3,3',4,6'-Hexachlorobiphenyl	132	89.2	4.52	QJ
2,2',3,3',5,5'-Hexachlorobiphenyl	133		4.25	U
2,2',3,3',5,6-Hexachlorobiphenyl	134		4.63	U
2,2',3,3',5,6'-Hexachlorobiphenyl	135	95.6	6.52	CJ
2,2',3,3',6,6'-Hexachlorobiphenyl	136	20.1	4.84	QJ
2,2',3,4,4',5-Hexachlorobiphenyl	137	10.8	3.46	QCJ
2,2',3,4,4',5'-Hexachlorobiphenyl	138		21.45	BC128J
2,2',3,4,4',6-Hexachlorobiphenyl	139		3.89	U
2,2',3,4,4',6'-Hexachlorobiphenyl	140		3.89	U
2,2',3,4,5,5'-Hexachlorobiphenyl	141	57.5	4.12	J
2,2',3,4,5,6-Hexachlorobiphenyl	142		4.56	U
2,2',3,4,5,6'-Hexachlorobiphenyl	143		4.63	U
2,2',3,4,5',6-Hexachlorobiphenyl	144		6.37	U
2,2',3,4,6,6'-Hexachlorobiphenyl	145		4.94	U
2,2',3,4',5,5'-Hexachlorobiphenyl	146	39.1	3.73	J
2,2',3,4',5,6-Hexachlorobiphenyl	147		31.3	BCJ
2,2',3,4',5,6'-Hexachlorobiphenyl	148		6.49	U
2,2',3,4',5',6-Hexachlorobiphenyl	149		31.3	BC147J
2,2',3,4',6,6'-Hexachlorobiphenyl	150		4.73	U
2,2',3,5,5',6-Hexachlorobiphenyl	151		6.52	C135
2,2',3,5,6,6'-Hexachlorobiphenyl	152		4.67	U
2,2',4,4',5,5'-Hexachlorobiphenyl	153		38.05	BCJ
2,2',4,4',5,6'-Hexachlorobiphenyl	154		5.58	U
2,2',4,4',6,6'-Hexachlorobiphenyl	155		4.52	U
2,3,3',4,4',5-Hexachlorobiphenyl	156	7.93	2.89	CJ
2,3,3',4,4',5'-Hexachlorobiphenyl	157		2.89	C156
2,3,3',4,4',6-Hexachlorobiphenyl	158	15.7	2.77	QJ
2,3,3',4,5,5'-Hexachlorobiphenyl	159		2.91	U
2,3,3',4,5,6-Hexachlorobiphenyl	160		3.24	U