SURVEY REPORT

PRE-RENOVATION INVESTIGATIVE SURVEY FOR HAZARDOUS BUILDING MATERIALS

PUTNAM MAINTENANCE FACILITY PUTNAM, CONNECTICUT

Project No. 115-121

Prepared for

State of Connecticut
Department of Transportation
Newington, Connecticut

Prepared by

TRC
Windsor, Connecticut

Issued
June 2019

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Erik R. Plimpton, P.E., CHMM, CMC
Vice President - Program Manager

TRC Project No. 222165-5607-0710
Issued June 2019

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PROJECT OUTLINE

DOT Project No.:	115-121
Assignment No.:	514-5607
DOT Project Manager:	Denise A. Young
Site Address:	Putnam Maintenance Facility 3 Industrial Park Road, Putnam, CT
TRC Project No.:	222165-5607-0710
Asbestos Inspector:	Jonathan Gentile (LIC #000603) Zachary Smith (LIC #000985) Carmen Jacko (LIC #000812) David Heelon (LIC #000635) Thomas Martin (LIC #000014) Erik Plimpton (LIC #000219)
Lead Inspector:	David Heelon (LIC #002188) Jonathan Gentile (LIC #002125) Eric Gitberg
SHPO Review:	TBD
Date(s) of Inspection:	10/12/17-10/17/17, 12/15/17, 2/26/18, 11/30/18, 1/4/19, 2/4/19, 6/7/19
Asbestos Identified:	Yes
Lead Paint Identified:	Yes
Gen. Bldg. Mat. Haz Waste:	No
Concrete Recyclable as CTDEEP "Clean Fill:"	Yes-unpainted concrete; No-painted concrete
Add'l Haz./Reg. Mat./Waste/Items:	Yes (See Table 6)
EPA PCB Caulk:	Yes (Cold Storage Building)
CTDEEP PCB Caulk:	Yes (Main Building)
PCB Impacted Substrate:	Yes (Cold Storage Building)
PCB Impacted Soil/Surface Cover:	No

Additional Notes:

The property consists of a one-story maintenance facility on slab which includes garage bays,

PROJECT OUTLINE

offices, and exterior diesel/gas fuel station and a separate one-story metal cold storage building on slab. Single gasoline and diesel ASTs supply the fuel station. A fuel oil UST services the boiler for the building. An oil-water separator (OWS) is located on the B side of the building. 1 Groundwater monitoring well is located inside Bay 18 as well as 4 on the exterior B-side of the building near the UST and OWS. Prior existing survey data was also used where verifiable and current. Both structures are scheduled for demolition.

TABLES

TABLE 1
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
Enviromed Bulk Sampling Results – August/September 2001			
01	Main building roof	Perimeter flashing cement	3%
02	Main building roof	Perimeter flashing cement	5%
03	Main building roof	Mechanical unit flashing cement	5%
04	Main building roof	Mechanical unit flashing cement	5%
05	Main building roof	Chimney flashing cement	10%
06	Main building roof	Chimney flashing cement	10%
07	Main building roof	Grey patching cement	10%
08	Main building roof	Grey patching cement	10%
09	Main building roof	Pitch box cement	10%
10	Main building roof	Pitch box cement	10%
11	Main building roof	Counter flashing caulk (C12)	NAD
12	Main building roof	Counter flashing caulk (C12)	NAD
13	Main building roof	Gutter seam sealer (SS1)	NAD
14	Main building roof	Gutter seam sealer (SS1)	NAD
15	Main building roof	Built-up roofing – top layer	NAD
16	Main building roof	Built-up roofing – second layer	NAD
17	Main building roof	Built-up roofing – third layer	NAD
18	Main building roof	Built-up roofing – fourth layer	NAD
19	Main building roof	Built-up roofing – fifth layer	NAD
20	Main building roof	Built-up roofing – bottom layer	NAD
21	Main building roof	Built-up roofing – top layer	NAD
22	Main building roof	Built-up roofing – second layer	NAD
23	Main building roof	Built-up roofing – third layer	NAD
24	Main building roof	Built-up roofing – fourth layer	NAD
25	Main building roof	Built-up roofing – fifth layer	NAD
26	Main building roof	Built-up roofing – sixth layer	NAD

NA/PVA Not analyzed/positive via inseparable association with a confirmed positive ACM
NA/PS Not analyzed/positive stop, homogeneous to sample proven to contain asbestos
ND<1% Non-detected, less than 1%
NAD No asbestos detected
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1 Result confirmed by TEM analyses
* Quantified by PLM Point Counting techniques

TABLE 1 (...continued)
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
27	Main building roof	Built-up roofing – bottom layer	NAD
28	Main building roof	Built-up roofing – top layer	NAD
29	Main building roof	Built-up roofing – second layer	NAD
30	Main building roof	Built-up roofing – third layer	NAD
31	Main building roof	Built-up roofing – fourth layer	NAD
32	Main building roof	Built-up roofing – fifth layer	NAD
33	Main building roof	Built-up roofing – bottom layer	NAD
34	Outside stores	Exterior window frame caulk (C1)	7%
35	Exterior Bay 1	Exterior window frame caulk (C1)	7%
36	Outside stores	Exterior door frame caulk (C2)	7%
37	Bay 24	Exterior door frame caulk (C2)	7%
38	Bay 13	Bay door column caulk (C3)	NAD
39	Exterior Paint Bay (Bay 12)	Bay door column caulk (C4)	5%
40	Bay 15	Bay door gasket caulk (C5)	NAD
41	Bay 7	Bay door gasket caulk (C5)	NAD
42	Generator Shack	Exterior louver vent frame caulk (type 1) (C6)	NAD
43	Generator Shack	Exterior louver vent frame caulk (type 1) (C6)	NAD
44	Paint Bay (Bay 12)	Exterior louver vent frame caulk (type 2) (C7)	NAD
45	Paint Bay (Bay 12)	Exterior louver vent frame caulk (type 2) (C7)	NAD
46	Exterior wall between Bays 7 & 8	Exterior wood siding caulk (C8)	NAD
47	Exterior wall between Bays 7 & 8	Exterior wood siding caulk (C8)	NAD
48	Bay 15	Interior window glazing (type 1) (WG1)	NAD+
49	Bay 17	Interior window glazing (type 1) (WG1)	3%
50	Bay 23	Interior window glazing (type 1) (WG1)	3%
51	Bay 24	Interior window glazing (type 2) (WG2)	NAD

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TABLE 1 (...continued)
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PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
52	Stores	Interior window glazing (type 2) (WG2)	NAD
53	Bay 1	Interior window glazing (type 2) (WG2)	NAD
54	Grease Bay (Bay 10)	Interior window glazing (type 3) (WG3)	2%
55	Bay 5	Interior window glazing (type 3) (WG3)	2%
56	Bay 1	Interior window glazing (type 3) (WG3)	2%
57	Bay 7	Interior door frame caulk (C9)	NAD
58	Hall 2	Interior door frame caulk (C9)	NAD
59	Grease Bay (Bay 9)	Floor expansion joint (EJ1)	NAD
60	Bay 22	Floor expansion joint (EJ1)	NAD
61	Maintenance Supervisor's Office	Pressboard/masonite	NAD
62	Maintenance Supervisor's Office	Pressboard/masonite	NAD
63	Generator Shack	Wallboard	NAD
64	Generator Shack	Wallboard	NAD
65	Generator Shack	Wallboard joint compound	NAD
66	Generator Shack	Wallboard joint compound	NAD
67	Generator Shack	Wallboard joint compound	NAD
68	Repair Office	12" cream w/brown streaks vinyl floor tile (FT1)	NAD
69	Repair Office	12" cream w/brown streaks vinyl floor tile (FT1)	NAD
70	Repair Office	Mastic under 12" cream w/brown streaks vinyl floor tile (FT1)	NAD
71	Repair Office	Mastic under 12" cream w/brown streaks vinyl floor tile (FT1)	NAD
72	Clerk Room	12" white w/grey streaks vinyl floor tile (FT2)	NAD
73	Kitchen	12" white w/grey streaks vinyl floor tile (FT2)	NAD
74	Clerk Room	Mastic under 12" white w/grey streaks vinyl floor tile (FT2)	NAD

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PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
75	Kitchen	Mastic under 12" white w/grey streaks vinyl floor tile (FT2)	NAD
76	Repair Office	4" brown cove molding (CB1)	NAD
77	Repair Office	4" brown cove molding (CB1)	NAD
78	Repair Office	Glue under 4" brown cove molding (CB1)	NAD
79	Repair Office	Glue under 4" brown cove molding (CB1)	NAD
80	Clerk Office	2'x4' suspended ceiling tile (CT1)	NAD
81	Repair Office	2'x4' suspended ceiling tile (CT1)	NAD
82	Kitchen	12" fixed ceiling tile (CT2)	NAD
83	Repair Office	12" fixed ceiling tile (CT2)	NAD
84	Blacksmith Shop (Bay 8)	Chimney breeching cement (type 1) *(no longer present – 2017)*	60%
85	Blacksmith Shop (Bay 8)	Chimney breeching cement (type 1) *(no longer present – 2017)*	NAD
86	Blacksmith Shop (Bay 8)	Chimney breeching cement (type 1) *(no longer present – 2017)*	50%
87	Tire Bay (Bay 11)	Chimney breeching cement (type 2)	15%
88	Tire Bay (Bay 11)	Chimney breeching cement (type 2)	15%
89	Tire Bay (Bay 11)	Chimney breeching cement (type 2)	15%
90	Blacksmith Shop (Bay 8)	Exhaust fan frame caulk (C10)	NAD
91	Blacksmith Shop (Bay 8)	Exhaust fan frame caulk (C10)	NAD
92	Boiler Room	18" boiler breeching insulation (round)	NAD
93	Boiler Room	18" boiler breeching insulation (round)	NAD
94	Boiler Room	18" boiler breeching insulation (round)	NAD
95	Boiler Room	36" boiler breeching insulation (round)	NAD
96	Boiler Room	36" boiler breeching insulation (round)	NAD
97	Boiler Room	36" boiler breeching insulation (round)	NAD
98	Boiler Room	30" boiler breeching insulation (square)	NAD

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Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
99	Boiler Room	30" boiler breeching insulation (square)	NAD
100	Boiler Room	30" boiler breeching insulation (square)	NAD
101	Boiler Room	White cloth gasket @ chimney flue *(no longer present – 2017)*	35%
102	Boiler Room	White cloth gasket @ chimney flue *(no longer present – 2017)*	35%
103	Boiler Room	White cloth gasket @ chimney flue *(no longer present – 2017)*	35%
104	Repair Office	Air cell pipe insulation *(no longer present – 2017)*	35%
105	Repair Office	Air cell pipe insulation *(no longer present – 2017)*	35%
106	Repair Office	Air cell pipe insulation *(no longer present – 2017)*	35%
107	Repair Office	Mudded pipe fitting insulation *(no longer present – 2017)*	35%
108	Repair Office	Mudded pipe fitting insulation *(no longer present – 2017)*	35%
109	Repair Office	Mudded pipe fitting insulation *(no longer present – 2017)*	35%
110	Generator Shack roof	Black asphalt shingle (AS1)	NAD
111	Generator Shack roof	Black asphalt shingle (AS1)	NAD
112	Stores roof awning	Black asphalt roll roofing (AR1)	NAD
113	Stores roof awning	Black asphalt roll roofing (AR1)	NAD
114	Generator Shack roof	Flashing caulk (C11)	NAD
115	Generator Shack roof	Flashing caulk (C11)	NAD
116	Break Room	Braided wire insulation	NAD
117	Break Room	Braided wire insulation	NAD
118	Break Room	Insulator panel (horizontal – thin black)	NAD
119	Break Room	Insulator panel (horizontal – thin black)	NAD
120	Break Room	Insulator panel (vertical – thick black w/brown interior)	NAD

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PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
121	Break Room	Insulator panel (vertical – thick black w/brown interior)	NAD
122	Boiler Room Main Switch & Main Panel	Heavy braided wire insulation	40%
123	Boiler Room Main Switch & Main Panel	Heavy braided wire insulation	45%
124	Boiler Room Emergency Panel #7	Braided wire insulation	NAD
125	Boiler Room Emergency Panel #7	Braided wire insulation	NAD
126	Boiler Room Emergency Panel #7	Non-conductive caulk	12%
127	Boiler Room Emergency Panel #7	Non-conductive caulk	12%
128	Hallway 1	Insulator panel (vertical)	NAD
129	Hallway 2	Insulator panel (vertical)	NAD
130	Salt Shed roof	Red asphalt shingle	NAD
131	Salt Shed roof	Red asphalt shingle	NAD
TRC Bulk Sampling Results – October 2017			
01	Stores Room Exterior Door	Exterior Door Frame Caulk (C2) (Tan/Grey Pliable)	5.18% chrysotile[1] 10.37% anthophyllite[1]
02	Bay 13 Exterior Roll-Up Door	Bay Door Column Caulk (C3) (Grey Brittle)	4.10% chrysotile[1] 8.19% anthophyllite[1]
03	Ext Bay 7	Bay Door Gasket Caulk (C5) (White Brittle)	1.50% chrysotile[1] Trace anthophyllite[1]
04	Generator Shack Exterior	Exterior Louver Vent Caulk Type 1 (C6) (Dk Silicone)	ND[1]
05	Bay 12 E Exterior	Exterior Louver Vent Caulk Type 2 (C7) (White Brittle)	Trace anthophyllite[1]
06	Ext b/w Bay 7 & 8	Exterior Wood Siding Caulk (C8) (Clear Silicone)	ND[1]
07	Hall 2 Door to Kitchen	Interior Door Frame Caulk (C9) (White Rubbery)	ND[1]

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TABLE 1 (...continued)
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PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
08	Bay 8 Interior	Exhaust Fan Frame Caulk (C10) (White Rubbery)	ND[1]
09	Generator Shack Roof	Flashing Caulk (C11) (White/Clear Rubbery)	ND[1]
10	Front Bay Upper/Lower Roof Junction	Counter Flashing Caulk (C12) (Dark Brown Brittle)	ND[1]
11	Bay 24 Exterior Door	Dk Brown Rubbery Int/Ext Door Caulk (C13)	ND
12	Bay 24 Exterior Door	Dk Brown Rubbery Int/Ext Door Caulk (C13)	ND[1]
13	Boiler Room Exterior Door	Grey Gummy Door Window Glaze (DWG1)	ND
14	Bay 7 Exterior Door	Grey Gummy Door Window Glaze (DWG1)	ND[1]
15	Bay 22 Floor	Floor Expansion Joint (EJ1) (Black Asphaltic)	ND[1]
16	Gutter above Bay 14	Gutter Seam Sealer (SS1) (Black Flashing Tar-Like)	ND[1]
17	Repair Office	12" Cream w/Brown Streaks Floor Tile (FT1)	ND[1]
		Brown Mastic associated with FT1	ND[1]
18	Kitchen (Top Layer)	12" Cream w/Brown Streaks Floor Tile (FT1)	ND[1]
		Brown Mastic associated with FT1	ND[1]
19	Kitchen (Bottom Layer)	9" Cream w/Grey Streaks Floor Tile (FT3)	5% chrysotile
		Brown mastic associated with FT3	ND
20	Kitchen (Bottom Layer)	9" Cream w/Grey Streaks Floor Tile (FT3)	NA/PS
		Brown mastic associated with FT3	ND[1]
21	Repair Office	4" Brown Cove Molding (CB1)	ND[1]
		Tan glue associated with CB1	ND[1]
22	Generator Shack Roof	Black Asphalt Shingles (AS1)	ND[1]
23	Sm Overhang above Stores Room Door	Black Asphalt Roll Roofing (AR1)	ND[1]

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TABLE 1 (...continued)
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PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
24	Main Roof Above Bay 15	Built-up-Roofing (R1)	ND[1]
25	Main Roof Above Bay 15	Roofing Tar b/w Fiberboard Layers (RT1)	ND
26	Main Roof Above Stores Room	Roofing Tar b/w Fiberboard Layers (RT1)	ND[1]
27	Main Roof Above Bay 15	Roofing Tar on Corrugated Deck (RT2)	ND
28	Main Roof Above Stores Room	Roofing Tar on Corrugated Deck (RT2)	ND[1]
29	Main Roof Above Bay 15	Tar Paper Vapor Barrier under Fiberboard Insul. (VB1)	ND
30	Main Roof Above Stores Room	Tar Paper Vapor Barrier under Fiberboard Insul. (VB1)	ND[1]
31	Window Sill o/s Kitchen	Black Thin Vapor Barrier Material (VB2)	ND
32	Window Sill o/s Kitchen	Black Thin Vapor Barrier Material (VB2)	ND[1]
TRC Bulk Sampling Results – February 2018			
1	Clerk Room/Office	RD1 – asphalt/concrete debris on 2'x4' ceiling tiles	ND
2	Clerk Room/Office	RD1 – asphalt/concrete debris on 2'x4' ceiling tiles	ND[1]
1	Interior – Cold Storage Building	EJ1 – black asphalt floor expansion joint material	ND
2	Interior – Cold Storage Building	EJ1 – black asphalt floor expansion joint material	ND[1]
TRC Bulk Sampling Results – June 2019			
1	Boiler 1 – rear rib	RIB – rope boiler rib packing	ND
2	Boiler 1 – rear rib at breech junction	RIB – rope boiler rib packing	ND
3	Boiler 1 – rear small spy glass	GSKT – spy glass flange gasket	ND
4	Boiler 1 – rear small spy glass	GSKT – spy glass flange gasket	ND

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TABLE 2
IDENTIFIED ASBESTOS CONTAINING MATERIALS (>1%)
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Material	Sampled/ Assumed (mo/yr)	General Location	NESHAP Category	AHERA Category	Estimated Quantity
Perimeter flashing cement	Sampled 8/01	Main building roof	Category I Non-friable	Miscellaneous	850 SF
Mechanical unit flashing cement	Sampled 8/01	Main building roof	Category I Non-friable	Miscellaneous	60 SF
Chimney flashing cement	Sampled 8/01	Main building roof	Category 1 Non-friable	Miscellaneous	60 SF
Grey patching cement	Sampled 8/01	Main building roof	Category 1 Non-friable	Miscellaneous	30 SF
Pitch box cement	Sampled 8/01	Main building roof	Category 1 Non-friable	Miscellaneous	2 SF
Exterior window frame caulk (C1)	Sampled 8/01	All exterior windows	Category II Non-friable	Miscellaneous	58 EA
Exterior tan/grey pliable door frame caulk (C2)	Sampled 8/01 & 10/17	Outside Stores, Bay 18, Bay 24, Bay 14 (exit door)	Category II Non-friable	Miscellaneous	4 doors
Bay door column/frame caulk (C4)	Sampled 8/01	Garage bay door frames throughout	Category II Non-friable	Miscellaneous	12 garage bay doors
Interior window glazing (type 1) (WG1)	Sampled 8/01	Bays 14-24, Kitchen, Lavatory, Clerk Room	Category II Non-friable	Miscellaneous	25 EA
Interior window glazing (type 3) (WG3)	Sampled 8/01	Bays 1-5, Bay 9, Bay 10, Bay 11, Bay 12, Stores, roofline above Repair Office & Stores, Repair Office	Category II Non-friable	Miscellaneous	31 EA

AHERA Categories = thermal system insulation (TSI), surfacing material or miscellaneous
NESHAP Categories = friable, category I non-friable or category II non-friable
Friable = crumbled, pulverized or reduced to powder by hand pressure when dry
Category I Non-friable = packings, gaskets, resilient floor covering and asphalt roofing
Category II Non-friable = all non-friable that is not Category I

TABLE 2 (...continued)
IDENTIFIED ASBESTOS CONTAINING MATERIALS (>1%)
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Material	Sampled/ Assumed (mo/yr)	General Location	NESHAP Category	AHERA Category	Estimated Quantity
Heavy braided wire insulation	Sampled 8/01	Boiler Room Main Switch & Main Panel	Friable	Miscellaneous	Unable to quantify
Non-conductive caulk	Sampled 8/01	Boiler Room Emergency Panel #7	Category II Non-friable	Miscellaneous	<1 SF
Bay Door Column Caulk (C3) (Grey Brittle)	Sampled 10/17	Bay 13 Exterior Roll-Up Door	Category II Non-friable	Miscellaneous	20 LF (1 roll-up door)
9" Cream w/Grey Streaks Floor Tile (FT3)	Sampled 10/17	Kitchen (Bottom Layer), Clerk Room	Category I Non-friable	Miscellaneous	450 SF
Chimney breeching cement (type 2)	Sampled 8/01	Tire Bay 11	Friable	Thermal System Insulation	3 SF
Bay door gasket caulk (C5) (white brittle)	Sampled 10/17	All Bay doors	Category II Non-friable	Miscellaneous	552 LF

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Friable = crumbled, pulverized or reduced to powder by hand pressure when dry
Category I Non-friable = packings, gaskets, resilient floor covering and asphalt roofing
Category II Non-friable = all non-friable that is not Category I

TABLE 3
CONFIRMED NON-ASBESTOS CONTAINING MATERIALS (<1%)
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Material	General Location
Counter flashing caulk (C12)	Main building roof
Gutter seam sealer (SS1) (black flashing tar-like)	Main building roof gutters
Built-up roofing – all layers (R1)	Main building roof
Exterior louver vent frame caulk (type 1) (C6) (dark silicone)	Generator Shack exterior
Exterior louver vent frame caulk (type 2) (C7) (white brittle)	Paint Bay (Bay 12) exterior
Exterior wood siding caulk (C8) (clear silicone)	Exterior wall between Bays 7 & 8
Interior window glazing (type 2) (WG2)	Bay 1, Bay 24, Stores
Interior door frame caulk (C9) (white rubber)	Bay 7, Hall 1, Hall 2, Bay 17, Bay 18
Floor expansion joint (EJ1) (black asphaltic)	Grease Bay (Bay 9), Bay 22 floor
Pressboard/masonite	Maintenance Supervisor's Office
Wallboard	Generator Shack
Wallboard joint compound	Generator Shack
12" cream w/brown streaks vinyl floor tile & associated brown mastic (FT1)	Repair Office
12" white w/grey streaks vinyl floor tile & associated mastic (FT2)*	Clerk Room*, Kitchen*
4" brown cove molding & associated tan glue (CB1)	Repair Office
2'x4' suspended ceiling tile (CT1)	Repair Office, Clerk Office
12" fixed ceiling tile (CT2)	Kitchen, Repair Office
Exhaust fan frame caulk (C10) (white rubbery)	Blacksmith Shop (Bay 8) interior
18" boiler breeching insulation (round)	Boiler Room
36" boiler breeching insulation (round)	Boiler Room
30" boiler breeching insulation (square)	Boiler Room
Black asphalt shingle (AS1)	Generator Shack roof
Black asphalt roll roofing (AR1)	Stores roof awning/overhang
Flashing caulk (C11) (white clear rubbery)	Generator Shack roof
Braided wire insulation	Break Room
Insulator panel (horizontal – thin black)	Break Room
Insulator panel (vertical – thick black w/brown interior)	Break Room
Braided wire insulation	Boiler Room Emergency Panel #7
Insulator panel (vertical)	Hallway 1, Hallway 2
Red asphalt shingle	Salt Shed roof
Counter Flashing Caulk (C12) (Dark Brown Brittle)	Front Bay Upper/Lower Roof Junction
Dark Brown Rubbery Int/Ext Door Caulk (C13)	Bay 24 Exterior Door
Grey Gummy Door Window Glaze (DWG1)	Bay 7 Ext Door, Boiler Room door
Brown mastic associated with 9" Cream w/Grey Streaks Floor Tile (FT3)*	Kitchen (Bottom Layer)*
Black Asphalt Shingles (AS1)	Generator Shack Roof
Roofing Tar b/w Fiberboard Layers (RT1)	Roof

**** However, associated layers are positive.***

TABLE 3 (...continued)
CONFIRMED NON-ASBESTOS CONTAINING MATERIALS (<1%)
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Material	General Location
Roofing Tar on Corrugated Deck (RT2)	Roof
Tar Paper Vapor Barrier under Fiberboard Insulation (VB1)	Roof
Black Thin Vapor Barrier Material (VB2)	Behind window sills within brick wall cavity
RD1 – asphalt/concrete debris on 2'x4' ceiling tiles	Clerk Room/Office
EJ1 – black asphalt floor expansion joint material	Interior – Cold Storage Building
RIB – rope boiler rib packing	Boilers – internal ribs
GSKT – spy glass flange gasket	Boilers – rear small spy glass

** However, associated layers are positive.*

TABLE 4 SUMMARY OF LEAD PAINT XRF MEASUREMENTS PUTNAM MAINTENANCE FACILITY PUTNAM, CONNECTICUT					
Structure	**No. of Measurements**	**Calibrations**	**Void**	**Lead Detected**	**No Lead Detected**
Enviromed 2001 Putnam Maintenance Facility	328	6	10	174	148
TRC 2017 Putnam Maintenance Facility	54	6	1	22	25

See Lead Paint XRF Measurement Table in Appendix H.

TABLE 5
SUMMARY OF COMPOSITE BUILDING MATERIAL WASTE CHARACTERIZATION
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Waste Stream	Metal	mg/L Leachate	Hazardous/Non-Hazardous
Maintenance Facility Bldg. Material Composite (Excluding metal substrates and clean concrete/brick/ CMU)	Arsenic	---	Analyte not tested
	Barium	---	Analyte not tested
	Cadmium	---	Analyte not tested
	Chromium	---	Analyte not tested
	Lead	0.36	Non-Hazardous
	Mercury	---	Analyte not tested
	Selenium	---	Analyte not tested
	Silver	---	Analyte not tested

The sample was analyzed following the Toxicity Characteristic Leaching Procedure (TCLP) for the Resource Conservation Recovery Act (RCRA) Metals most likely to be present in this type of structure. The sample was a composite of wood, wallboard, brick, flooring, roofing and other building materials and was collected per CTDEEP sampling guidelines in approximate percent by weight proportions to represent the building as a whole. The sample did not include any metal components, as metal items should be recycled to promote waste minimization efforts, rather than disposed of, and the recycling operation is exempt from the USEPA RCRA and CTDEEP Hazardous Waste regulations. In most instances, the sample will not include foundation materials (concrete/stone/etc.), as these materials are used as clean fill during the demolition process and are therefore not part of the waste disposal stream.

See Appendix I for results.

BDL - Below Detection Limit
ND - Not Detected

TABLE 6
INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED MATERIALS, WASTES AND ITEMS IDENTIFIED
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Quantity	Size	Material/Item	General Location	Potential Hazard
Fourteen (14)		8' fluorescent bulbs	Bays 1-7	UW – Hg lamps
Seven (7)		Ballasts	Bays 1-7	CRW – PCB ballasts
Sixteen (16)		Mercury vapor bulbs	Bays 1-7	UW – Hg lamps
Sixteen (16)		Ballasts	Bays 1-7	CRW – PCB ballasts
Two (2)		Emergency lights	Bays 1-7	UW – used electronics (printed circuit boards) UW – Hg lamps UW – batteries (Ni-Cd battery or Pb-acid battery)
Four (4)		Floor trenches	Bays 1-7	CRW – oil/sludge
Four (4)		8' fluorescent bulbs	Bay 8	UW – Hg lamps
Two (2)		Ballasts	Bay 8	CRW – PCB ballasts
Eight (8)		4' fluorescent bulbs	Bay 8	UW – Hg lamps
Four (4)		Ballasts	Bay 8	CRW – PCB ballasts
Four (4)		Mercury vapor bulbs	Bay 8	UW – Hg lamps
Four (4)		Ballasts	Bay 8	CRW – PCB ballasts
One (1)		Emergency light	Bay 8	UW – used electronics (printed circuit boards) UW – Hg lamps UW – batteries (Ni-Cd battery or Pb-acid battery)
One (1)		Floor trench for hydraulic lifts	Bay 8	CRW – hydraulic oil
Four (4)		Mercury vapor bulbs	Bays 9-11	UW – Hg lamps
Four (4)		Ballasts	Bays 9-11	CRW – PCB ballasts
One (1)		Emergency light	Bays 9-11	UW – used electronics (printed circuit boards) UW – Hg lamps UW – batteries (Ni-Cd battery or Pb-acid battery)

CRW- Connecticut Regulated Waste – PCBs (CR01), Oils (CR02/CR03), waste chemical liquids - antifreeze, latex & solvent paints, sludges, etc. (CR04), waste chemical solids (CR05)
UW- Universal Waste (batteries, thermostat ampoules, fluorescent lamps, used electronics)
IH- Inhalation hazard (silicas, etc.)
I- Ignitable - may contain ingredients which are ignitable (materials which have a flashpoint <140°F) (D001)
C- Corrosive - may contain ingredients which are alkaline or acidic (materials with a PH<2 or >12.5) (D002)
T- Toxic - may contain ingredients which are harmful if swallowed or which release vapors that can cause irritation
R- Reactive – may contain ingredients which are unstable, react violently with water or are explosive (D003)

TABLE 6 (...continued)
INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED MATERIALS, WASTES AND ITEMS IDENTIFIED
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Quantity	Size	Material/Item	General Location	Potential Hazard
Two (2)		In-floor hydraulic lifts	Bays 9-11	CRW – hydraulic oil
One (1)	330 gal	AST (motor oil)	Bays 9-11	CRW – oil
One (1)	100 gal	AST (hydraulic lift oil)	Bay 9	CRW – hydraulic oil
Two (2)		Mercury vapor bulbs	Bay 11	UW – Hg lamps
Two (2)		Ballasts	Bay 11	CRW – PCB ballasts
One (1)		Emergency light	Bay 11	UW – used electronics (printed circuit boards) UW – Hg lamps UW – batteries (Ni-Cd battery or Pb-acid battery)
One (1)		Floor trench	Bay 11	CRW – oil/sludge
Twelve (12)		Mercury vapor bulbs	Bay 12	UW – Hg lamps
Twelve (12)		Ballasts	Bay 12	CRW – PCB ballasts
Four (4)		8' fluorescent bulbs	Repair Office area hallway	UW – Hg lamps
Two (2)		Ballasts	Repair Office area hallway	CRW – PCB ballasts
One (1)		Emergency light	Repair Office area hallway	UW – used electronics (printed circuit boards) UW – Hg lamps UW – batteries (Ni-Cd battery or Pb-acid battery)
One (1)		Water fountain	Repair Office area hallway	CFCs/Freon
Six (6)		4' fluorescent bulbs	Repair Office area	UW – Hg lamps
Three (3)		Ballasts	Repair Office area	CRW – PCB ballasts

CRW- Connecticut Regulated Waste – PCBs (CR01), Oils (CR02/CR03), waste chemical liquids - antifreeze, latex & solvent paints, sludges, etc. (CR04), waste chemical solids (CR05)
UW- Universal Waste (batteries, thermostat ampoules, fluorescent lamps, used electronics)
IH- Inhalation hazard (silicas, etc.)
I- Ignitable - may contain ingredients which are ignitable (materials which have a flashpoint <140°F) (D001)
C- Corrosive - may contain ingredients which are alkaline or acidic (materials with a PH<2 or >12.5) (D002)
T- Toxic - may contain ingredients which are harmful if swallowed or which release vapors that can cause irritation
R- Reactive – may contain ingredients which are unstable, react violently with water or are explosive (D003)

TABLE 6 (...continued)
INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED MATERIALS, WASTES AND ITEMS IDENTIFIED
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Quantity	Size	Material/Item	General Location	Potential Hazard
One (1)		Red emergency light	Repair Office area	UW – used electronics (printed circuit boards) UW – Hg lamps UW – batteries (Ni-Cd battery or Pb-acid battery)
Three (3)		Mercury vapor bulbs	Boiler Room	UW – Hg lamps
Three (3)		Ballasts	Boiler Room	CRW – PCB ballasts
One (1)		Electrical meter	Boiler Room	UW – used electronics (printed circuit boards)
Two (2)		Boilers	Boiler Room	CRW – oil
One (1)		Lucent Partner control box	Boiler Room	UW – used electronics (printed circuit boards)
One (1)		Well McClain control box	Boiler Room	UW – used electronics (printed circuit boards)
Seven (7)		Mercury vapor bulbs	Bays 14-17	UW – Hg lamps
Seven (7)		Ballasts	Bays 14-17	CRW – PCB ballasts
One (1)		Emergency light	Bays 14-17	UW – used electronics (printed circuit boards) UW – Hg lamps UW – batteries (Ni-Cd battery or Pb-acid battery)
One (1)		Floor trench	Bays 14-17	CRW – oil/sludge
Two (2)		8' fluorescent bulbs	Hall 1 (Maintenance)	UW – Hg lamps
One (1)		Ballast	Hall 1 (Maintenance)	CRW – PCB ballasts
One (1)		Emergency light	Hall 1 (Maintenance)	UW – used electronics (printed circuit boards) UW – Hg lamps UW – batteries (Ni-Cd battery or Pb-acid battery)
One (1)		Water fountain	Hall 1 (Maintenance)	CFCs/Freon
Two (2)		8' fluorescent bulbs	Hall 2 (Maintenance)	UW – Hg lamps
One (1)		Ballast	Hall 2 (Maintenance)	CRW – PCB ballasts
Four (4)		4' fluorescent bulbs	Kitchen	UW – Hg lamps

CRW- Connecticut Regulated Waste – PCBs (CR01), Oils (CR02/CR03), waste chemical liquids - antifreeze, latex & solvent paints, sludges, etc. (CR04), waste chemical solids (CR05)
UW- Universal Waste (batteries, thermostat ampoules, fluorescent lamps, used electronics)
IH- Inhalation hazard (silicas, etc.)
I- Ignitable - may contain ingredients which are ignitable (materials which have a flashpoint <140°F) (D001)
C- Corrosive - may contain ingredients which are alkaline or acidic (materials with a PH<2 or >12.5) (D002)
T- Toxic - may contain ingredients which are harmful if swallowed or which release vapors that can cause irritation
R- Reactive – may contain ingredients which are unstable, react violently with water or are explosive (D003)

TABLE 6 (...continued)
INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED MATERIALS, WASTES AND ITEMS IDENTIFIED
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Quantity	Size	Material/Item	General Location	Potential Hazard
Two (2)		Ballasts	Kitchen	CRW – PCB ballasts
Two (2)		8' fluorescent bulbs	Men's Room (Lavatory)	UW – Hg lamps
One (1)		Ballast	Men's Room (Lavatory)	CRW – PCB ballasts
Fifteen (15)		4' fluorescent bulbs	Maintenance Office area (Clerk Room)	UW – Hg lamps
Five (5)		Ballasts	Maintenance Office area (Clerk Room)	CRW – PCB ballasts
One (1)		Mercury thermostat	Maintenance Office area (Clerk Room)	UW – Hg ampoule
Two (2)		4' fluorescent bulbs	Maintenance Office – Area Supervisor Room	UW – Hg lamps
One (1)		Ballast	Maintenance Office – Area Supervisor Room	CRW – PCB ballasts
Four (4)		Mercury vapor bulbs	Bays 18-20	UW – Hg lamps
Four (4)		Ballasts	Bays 18-20	CRW – PCB ballasts
One (1)		Emergency light	Bays 18-20	UW – used electronics (printed circuit boards) UW – Hg lamps UW – batteries (Ni-Cd battery or Pb-acid battery)
One (1)		Floor trench	Bays 18-20	CRW – oil/sludge
Six (6)		Mercury vapor bulbs	Bays 21-24	UW – Hg lamps
Six (6)		Ballasts	Bays 21-24	CRW – PCB ballasts
One (1)		Emergency light	Bays 21-24	UW – used electronics (printed circuit boards) UW – Hg lamps UW – batteries (Ni-Cd battery or Pb-acid battery)
One (1)		Floor trench	Bays 21-24	CRW – oil/sludge

CRW- Connecticut Regulated Waste – PCBs (CR01), Oils (CR02/CR03), waste chemical liquids - antifreeze, latex & solvent paints, sludges, etc. (CR04), waste chemical solids (CR05)
UW- Universal Waste (batteries, thermostat ampoules, fluorescent lamps, used electronics)
IH- Inhalation hazard (silicas, etc.)
I- Ignitable - may contain ingredients which are ignitable (materials which have a flashpoint <140°F) (D001)
C- Corrosive - may contain ingredients which are alkaline or acidic (materials with a PH<2 or >12.5) (D002)
T- Toxic - may contain ingredients which are harmful if swallowed or which release vapors that can cause irritation
R- Reactive – may contain ingredients which are unstable, react violently with water or are explosive (D003)

TABLE 6 (...continued)
INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED MATERIALS, WASTES AND ITEMS IDENTIFIED
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Quantity	Size	Material/Item	General Location	Potential Hazard
Two (2)		4' fluorescent bulbs	Women's Room (Repair side)	UW – Hg lamps
One (1)		Ballast	Women's Room (Repair side)	CRW – PCB ballasts
One (1)		Small fluorescent bulb above mirror	Women's Room (Repair side)	UW – Hg lamps
One (1)		Ballast	Women's Room (Repair side)	CRW – PCB ballasts
Seventeen (17)		Mercury vapor bulbs	Storage Room (Store)	UW – Hg lamps
Seventeen (17)		Ballasts	Storage Room (Store)	CRW – PCB ballasts
Two (2)		Emergency lights	Storage Room (Store)	UW – used electronics (printed circuit boards) UW – Hg lamps UW – batteries (Ni-Cd battery or Pb-acid battery)
One (1)		Tank Management System control box	Storage Room (Store)	UW – used electronics (printed circuit boards)
Two (2)		Thermometers	Exterior C-side o/s Bay 2, exterior B-side o/s Office	UW – Hg ampoule
One (1)		UST	Exterior o/s Boiler Room	CRW – oil
One (1)		Emergency callbox	Exterior o/s Finance Office bay door	UW – used electronics (printed circuit boards)
Three (3)		Gas/Diesel pumps	Exterior D-side	I – gasoline CRW – oil
One (1)	8,000 gal	Diesel AST	Exterior D-side	I – gasoline CRW – oil
One (1)	8,000 gal	Gasoline AST	Exterior D-side	I – gasoline CRW – oil
One (1)		Oil/water separator	Exterior D-side	CRW – oil

CRW- Connecticut Regulated Waste – PCBs (CR01), Oils (CR02/CR03), waste chemical liquids - antifreeze, latex & solvent paints, sludges, etc. (CR04), waste chemical solids (CR05)
UW- Universal Waste (batteries, thermostat ampoules, fluorescent lamps, used electronics)
IH- Inhalation hazard (silicas, etc.)
I- Ignitable - may contain ingredients which are ignitable (materials which have a flashpoint <140°F) (D001)
C- Corrosive - may contain ingredients which are alkaline or acidic (materials with a PH<2 or >12.5) (D002)
T- Toxic - may contain ingredients which are harmful if swallowed or which release vapors that can cause irritation
R- Reactive – may contain ingredients which are unstable, react violently with water or are explosive (D003)

TABLE 6 (...continued)
INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED MATERIALS, WASTES AND ITEMS IDENTIFIED
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Quantity	Size	Material/Item	General Location	Potential Hazard
One (1)		Fuel Pump Control box	Exterior D-side	UW – used electronics (printed circuit boards)
Two (2)		A/C units	Exterior B-side o/s offices in window	CFCs/Freon
Fifteen (15)		Exterior lights	Exterior fuel station parking lot above bays	UW – Hg lamps
Two (2)		4' fluorescent bulbs	Generator Room	UW – Hg lamps
One (1)		Ballast	Generator Room	CRW – PCB ballasts
One (1)	275 gal	Diesel AST	Generator Room	CRW – oil

CRW- Connecticut Regulated Waste – PCBs (CR01), Oils (CR02/CR03), waste chemical liquids - antifreeze, latex & solvent paints, sludges, etc. (CR04), waste chemical solids (CR05)
UW- Universal Waste (batteries, thermostat ampoules, fluorescent lamps, used electronics)
IH- Inhalation hazard (silicas, etc.)
I- Ignitable - may contain ingredients which are ignitable (materials which have a flashpoint <140°F) (D001)
C- Corrosive - may contain ingredients which are alkaline or acidic (materials with a PH<2 or >12.5) (D002)
T- Toxic - may contain ingredients which are harmful if swallowed or which release vapors that can cause irritation
R- Reactive – may contain ingredients which are unstable, react violently with water or are explosive (D003)

TABLE 7
BULK SAMPLE SUMMARY OF SUSPECT PCB CONTAINING CAULK MATERIALS
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Sample No.	Homogenous Material Type		Sample Location	Total PCB (ppm)	EPA/CTDEEP Regulated
C1-A	C1*	Exterior light grey brittle window frame caulk*	O/s Men's Bath by office	0.7	CTDEEP
C1-B			Bay 19	0.88	
C1-C			Bay 24	1	
C2-A	C2*	Exterior tan/grey pliable door frame caulk*	Store Room exit door	0.93	CTDEEP
C2-B			Bay 18 exit door	0.62	
C2-C			Bay 18 exit door	1.2	
C3-A	C3*	Bay door column caulk (grey brittle)*	Store Room roll-up door	ND<0.82	Not Regulated
C4-A	C4*	Bay door column caulk*	Bay 8 roll-up	ND<0.79	Not Regulated
C4-B			Bay 9 roll-up	ND<0.32	
C4-C			Bay 10 roll-up	ND<0.75	
C5-A	C5*	Bay door gasket caulk (white brittle)*	Bay 22 roll-up	ND<0.33	Not Regulated
C5-B			Bay 14 roll-up	ND<0.33	
C5-C			Bay 17 roll-up	ND<0.32	
C6-A	C6	Exterior louver vent frame caulk (type 1) (dark silicone)	Generator Shack louver	ND<0.46	Not Regulated
C7-A	C7	Exterior white brittle louver vent frame caulk (type 2)	Bay 12 louver vent	ND<0.33	Not Regulated
C8-A	C8	Exterior wood siding caulk (clear silicone)	Between Bays 7 & 8 on wood	ND<0.32	Not Regulated
C9-A	C9	Interior door frame caulk (white rubber)	Bay 18 exit door	ND<0.32	Not Regulated
C9-B			Bay 1 exit door	ND<0.33	
C9-C			Bay 17 roll-up	ND<0.72	
C10-A	C10	Exhaust fan frame caulk (white rubber)	Bay 8 exhaust fan	ND<0.77	Not Regulated
C11-A	C11	Flashing caulk (white/clear rubber)	Generator shack roof	ND<0.8	Not Regulated
C12-A	C12	Counter flashing caulk (dark brown brittle)	Roof junction above Stores	ND<0.83	Not Regulated
C12-B			Roof junction above Stores	ND<0.33	
C12-C			Roof junction above Stores	ND<0.8	
C13-A	C13	Dark brown rubbery interior/exterior door caulk	Hall 2 exit door	ND<0.79	Not Regulated
C13-B			Bay 24 exit door	ND<0.79	
WG1-A	WG1*	Interior window glazing (type 1)*	Bay 18 window	ND<0.74	Not Regulated
WG1-B			Bay 21 window	ND<0.79	

TABLE 7 (...continued)
BULK SAMPLE SUMMARY OF SUSPECT PCB CONTAINING CAULK MATERIALS
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Sample No.	Homogenous Material Type		Sample Location	Total PCB (ppm)	EPA/CTDEEP Regulated
WG1-C	WG1♦	Interior window glazing (type 1)♦	Bay 24 window	ND<0.83	Not Regulated
WG3-A	WG3♦	Interior window glazing (type 3)♦	Bay 2 window	ND<0.82	CTDEEP
WG3-B			Bay 11 window	1	
WG3-C			Bay 12 window	ND<0.81	
DWG1-A	DWG1	Grey gummy door window glaze	Bay 7 exit door	ND<0.72	Not Regulated
01A	EJ1	Black asphalt floor expansion joint material	Interior Cold Storage Building – A-side	50	EPA
01B			Interior Cold Storage Building – C-side	22	
01C			Interior Cold Storage Building – B-side	69	

♦Also positive for ACM
ND – None Detected

TABLE 8
IDENTIFIED PCB CONTAINING CAULK MATERIALS
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Material	Sample Date (mo/yr)	General Location	Adjacent Substrates	Estimated Quantity
CTDEEP REGULATED PCB CONTAINING MATERIALS (> 1 ppm, < 50 ppm)				
Exterior light grey brittle window frame caulk (C1)♦	Sampled 10/17	Main Building – all exterior windows	Metal/Brick/ Concrete	25 EA
Exterior tan grey pliable door frame caulk (C2)♦	Sampled 10/17	Bay 14, Bay 18 exit door, Bay 24 exit door, Store Room exit door	Metal/Brick/ CMU	4 EA
Interior window glazing (type 3) (WG3)♦	Sampled 10/17	Bays 1-5, Bay 9, Bay 10, Bay 11, Bay 12, Stores, roofline above Repair Office & Stores, Repair Office	Metal/Glass	31 EA
EPA REGULATED PCB BULK PRODUCT WASTE (≥50 ppm)				
Black asphalt floor expansion joint material (EJ1)	Sampled 2/18	Interior Cold Storage Building	Concrete	200 LF

♦Also identified as asbestos containing material

TABLE 9
BUILDING SUBSTRATE PCB SAMPLE ANALYTICAL RESULTS
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

ID No. Sample ID	Porous Substrate Description	Associated PCB Caulk/Glaze	Date Collected	Total PCBs (PPM)	Substrate Classification
Porous Substrate Samples Adjacent to CTDEEP Caulks					
01-C1	Main Building 0" – brick o/s Bay 18	C1	12/15/17	ND<0.33	Not Regulated
02-C1	Main Building 0" – brick o/s Stores	C1	12/15/17	ND<0.33	Not Regulated
03-C1	Main Building 0" – brick o/s Bay 12	C1	12/15/17	ND<0.32	Not Regulated
04-C1	Main Building 0" – limestone sill o/s Bay 18	C1	12/15/17	ND<0.33	Not Regulated
05-C1	Main Building 0" – limestone sill o/s Stores	C1	12/15/17	ND<0.33	Not Regulated
06-C1	Main Building 0" – limestone sill o/s Bay 12	C1	12/15/17	ND<0.33	Not Regulated
07-C2	Main Building 0" – brick o/s Bay 18	C2	12/15/17	ND<0.33	Not Regulated
08-C2	Main Building 0" – brick o/s Stores	C2	12/15/17	ND<0.33	Not Regulated
09-C2	Main Building 0" – block inside Bay 18	C2	12/15/17	ND<0.33	Not Regulated
10-C2	Main Building 0" – block inside Stores	C2	12/15/17	ND<0.33	Not Regulated
Porous Substrate Samples Adjacent to EPA Caulks					
1	Cold Storage Building 0" – SE corner concrete slab	EJ1	11/30/18	19	EPA TSCA Remediation Waste
2	Cold Storage Building 0" – East wall 10' from SE concrete slab	EJ1	11/30/18	7.2	EPA TSCA Remediation Waste
3	Cold Storage Building 0" – East wall 20' from SE concrete slab	EJ1	11/30/18	88	EPA TSCA Remediation Waste

TABLE 9 (...continued)
BUILDING SUBSTRATE SAMPLE ANALYTICAL RESULTS
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

ID No. Sample ID	Porous Substrate Description	Associated PCB Caulk/Glaze	Date Collected	Total PCBs (PPM)	Substrate Classification
4	Cold Storage Building 0" – East wall 30' from SE concrete slab	EJ1	11/30/18	47	EPA TSCA Remediation Waste
5	Cold Storage Building 0" – East wall 40' from SE concrete slab	EJ1	11/30/18	9	EPA TSCA Remediation Waste
6	Cold Storage Building 0" – East wall 50' from SE concrete slab	EJ1	11/30/18	22	EPA TSCA Remediation Waste
7	Cold Storage Building 0" – NE corner concrete slab	EJ1	11/30/18	30	EPA TSCA Remediation Waste
8	Cold Storage Building 0" – North wall 10' from NE concrete slab	EJ1	11/30/18	36	EPA TSCA Remediation Waste
9	Cold Storage Building 0" – North wall 10' from NW concrete slab	EJ1	11/30/18	21	EPA TSCA Remediation Waste
10	Cold Storage Building 0" – NW corner concrete slab	EJ1	11/30/18	36	EPA TSCA Remediation Waste
11	Cold Storage Building 0" – West wall 50' from SW concrete slab	EJ1	11/30/18	64	EPA TSCA Remediation Waste
12	Cold Storage Building 0" – West wall 40' from SW concrete slab	EJ1	11/30/18	150	EPA TSCA Remediation Waste
13	Cold Storage Building 0" – West wall 30' from SW concrete slab	EJ1	11/30/18	33	EPA TSCA Remediation Waste
14	Cold Storage Building 0" – West wall 20' from SW concrete slab	EJ1	11/30/18	84	EPA TSCA Remediation Waste

TABLE 9 (...continued)
BUILDING SUBSTRATE SAMPLE ANALYTICAL RESULTS
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

ID No. Sample ID	Porous Substrate Description	Associated PCB Caulk/Glaze	Date Collected	Total PCBs (PPM)	Substrate Classification
15	Cold Storage Building 0" – West wall 10' from SW concrete slab	EJ1	11/30/18	99	EPA TSCA Remediation Waste
16	Cold Storage Building 0" – SW corner concrete slab	EJ1	11/30/18	30	EPA TSCA Remediation Waste
17	Cold Storage Building 0" – South wall 10' from SW concrete slab	EJ1	11/30/18	22	EPA TSCA Remediation Waste
18	Cold Storage Building 0" – South wall 10' from SE concrete slab	EJ1	11/30/18	8	EPA TSCA Remediation Waste
19	Cold Storage Building 3" – A-side center concrete slab	EJ1	1/4/19	62	EPA TSCA Remediation Waste
20	Cold Storage Building 6" – A-side center concrete slab	EJ1	1/4/19	53	EPA TSCA Remediation Waste
21	Cold Storage Building 3" – B-side SE concrete slab	EJ1	1/4/19	64	EPA TSCA Remediation Waste
22	Cold Storage Building 6" – B-side SE concrete slab	EJ1	1/4/19	25	EPA TSCA Remediation Waste
23	Cold Storage Building 3" – C-side center concrete slab	EJ1	1/4/19	71	EPA TSCA Remediation Waste
24	Cold Storage Building 6" – C-side center concrete slab	EJ1	1/4/19	40	EPA TSCA Remediation Waste
25	Cold Storage Building 3" – D-side NW concrete slab	EJ1	1/4/19	22	EPA TSCA Remediation Waste

TABLE 9 (...continued)
BUILDING SUBSTRATE SAMPLE ANALYTICAL RESULTS
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

ID No. Sample ID	Porous Substrate Description	Associated PCB Caulk/Glaze	Date Collected	Total PCBs (PPM)	Substrate Classification
26	Cold Storage Building 6" – D-side NW concrete slab	EJ1	1/4/19	18	EPA TSCA Remediation Waste
27	Cold Storage Building Center of slab – D-side concrete slab	EJ1	2/4/19	17	EPA TSCA Remediation Waste
28	Cold Storage Building Center of slab – B-side concrete slab	EJ1	2/4/19	42	EPA TSCA Remediation Waste
29	Cold Storage Building 12" – B-side concrete slab	EJ1	2/4/19	77	EPA TSCA Remediation Waste
30	Cold Storage Building 12" – A-side concrete slab	EJ1	2/4/19	150	EPA TSCA Remediation Waste
31	Cold Storage Building 12" – D-side concrete slab	EJ1	2/4/19	100	EPA TSCA Remediation Waste
32	Cold Storage Building 12" – C-side concrete slab	EJ1	2/4/19	81	EPA TSCA Remediation Waste
33	Cold Storage Building 24" – B-side concrete slab	EJ1	2/4/19	28	EPA TSCA Remediation Waste
34	Cold Storage Building 24" – A-side concrete slab	EJ1	2/4/19	76	EPA TSCA Remediation Waste
35	Cold Storage Building 24" – D-side concrete slab	EJ1	2/4/19	130	EPA TSCA Remediation Waste

TABLE 9 (...continued)
BUILDING SUBSTRATE SAMPLE ANALYTICAL RESULTS
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

ID No. Sample ID	Porous Substrate Description	Associated PCB Caulk/Glaze	Date Collected	Total PCBs (PPM)	Substrate Classification
36	Cold Storage Building 24" – C-side concrete slab	EJ1	2/4/19	68	EPA TSCA Remediation Waste

ND – None Detected

TABLE 10
SOIL/GROUND COVER PCB SAMPLE ANALYTICAL RESULTS
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Sample ID	Soil/Surface Cover Material	Sample Location	Date Collected	Total PCBs (PPM)	Material Classification
11-C1	Asphalt	1' – outside Bay 12	12/15/17	ND<0.33	Not Regulated
12-C1	Asphalt	1' – outside Bay 18	12/15/17	ND<0.33	Not Regulated
13-C1	Soil	1' – outside Men's Room by Boiler Room	12/15/17	ND<0.33	Not Regulated
14-C1	Soil	1' – outside Bay 1	12/15/17	ND<0.46	Not Regulated
15-C2	Asphalt	1' – outside Bay 18	12/15/17	ND<0.32	Not Regulated

ND – None Detected

TABLE 11
IDENTIFIED PCB IMPACTED SUBSTRATES AND SOIL/GROUND COVER
PUTNAM MAINTENANCE FACILITY
PUTNAM, CONNECTICUT

Material	Associated caulks or glazes / EPA/ CTDEEP	Sample Date (mo/yr)	General Location of Substrate/Soil Impact	Estimated Quantity - Impact	CTDEEP or EPA Regulated
PCB IMPACTED MATERIALS – SOIL/GROUND COVER (>1.0 ppm)					
NO PCB IMPACTED SOIL/GROUND COVER IDENTIFIED IN THE SUBJECT AREA					
PCB IMPACTED MATERIALS – SUBSTRATES (>1.0 ppm)					
Cold Storage Building – entire concrete slab	EJ1 / EPA	2/19	Cold Storage Building interior	2,400 SF	EPA TSCA Remediation Waste

APPENDIX A

SITE PHOTOS WITH DOT ASSIGNMENT AND MAP

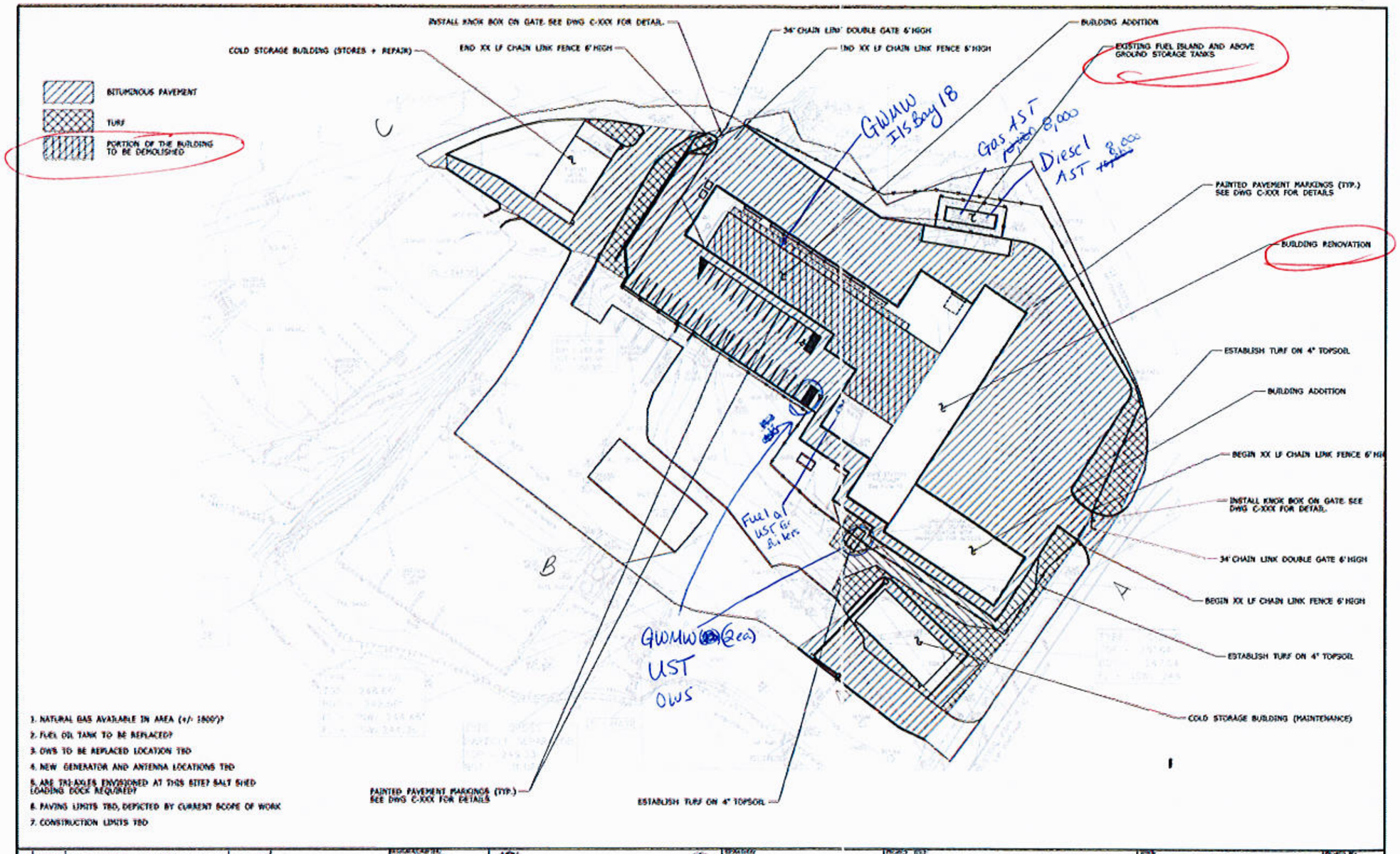

BITUMINOUS PAVEMENT
TURF
PORTION OF THE BUILDING TO BE DEMOLISHED
COLD STORAGE BUILDING (STORES + REPAIR)
INSTALL KNOX BOX ON GATE SEE DWG C-XXX FOR DETAIL.
END XX LF CHAIN LINK FENCE 6' HIGH
34' CHAIN LINK DOUBLE GATE 6' HIGH
END XX LF CHAIN LINK FENCE 6' HIGH
BUILDING ADDITION
EXISTING FUEL ISLAND AND ABOVE GROUND STORAGE TANKS
GWMW HS Bay 18
Gas AST 8,000
Diesel AST 8,000
PAINTED PAVEMENT MARKINGS (TYP.) SEE DWG C-XXX FOR DETAILS
BUILDING RENOVATION
ESTABLISH TURF ON 4" TOPSOIL
BUILDING ADDITION
BEGIN XX LF CHAIN LINK FENCE 6' HIGH
INSTALL KNOX BOX ON GATE SEE DWG C-XXX FOR DETAIL.
34' CHAIN LINK DOUBLE GATE 6' HIGH
BEGIN XX LF CHAIN LINK FENCE 6' HIGH
ESTABLISH TURF ON 4" TOPSOIL
COLD STORAGE BUILDING (MAINTENANCE)
Fuel oil UST for Boilers
GWMW (2ea)
UST
OWS
PAINTED PAVEMENT MARKINGS (TYP.) SEE DWG C-XXX FOR DETAILS
ESTABLISH TURF ON 4" TOPSOIL
A
B
C
D
1. NATURAL GAS AVAILABLE IN AREA (+/- 1800')?
2. FUEL OIL TANK TO BE REPLACED?
3. OWS TO BE REPLACED LOCATION TBD
4. NEW GENERATOR AND ANTENNA LOCATIONS TBD
5. ARE TRI-AXLES ENVISIONED AT THIS SITE? SALT SHED LOADING DOCK REQUIRED?
6. PAVING LIMITS TBD, DEPICTED BY CURRENT SCOPE OF WORK
7. CONSTRUCTION LIMITS TBD
KP
ME
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING
PUTNAM MAINTENANCE FACILITY RENOVATION
PUTNAM
SITE PLAN
115-110
C-003

PHOTO 1.
A-Side

PHOTO 2.
D-Side

PHOTO 3.
First Spot.

PHOTO 4.
First Spot.

TRC
Results you can rely on

PHOTO 5.
Second Spot.

PHOTO 6.
Second Spot.

PHOTO 7.
Third Spot.

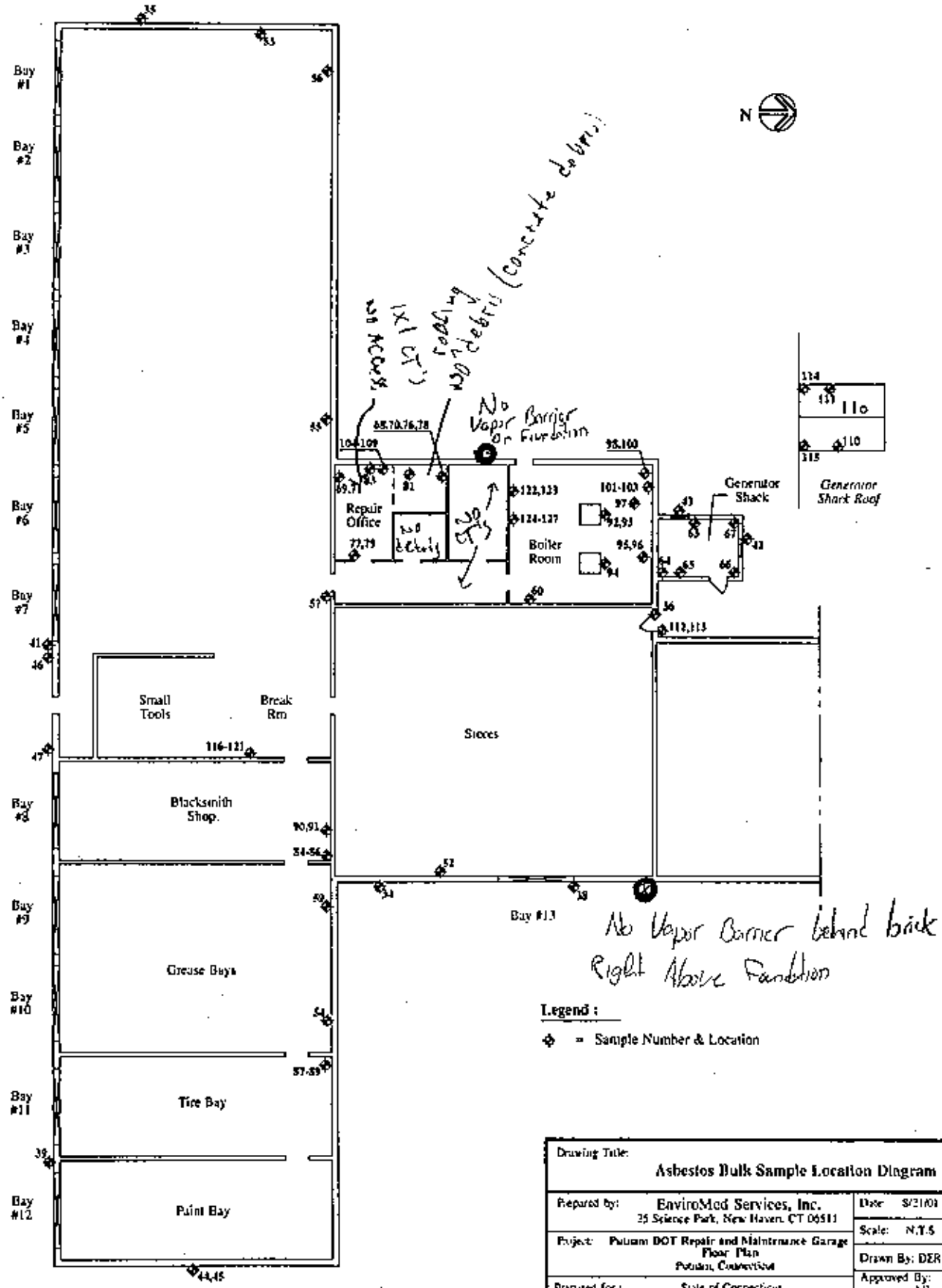
PHOTO 8.
Third Spot.

PHOTO 9.
Fourth Spot.

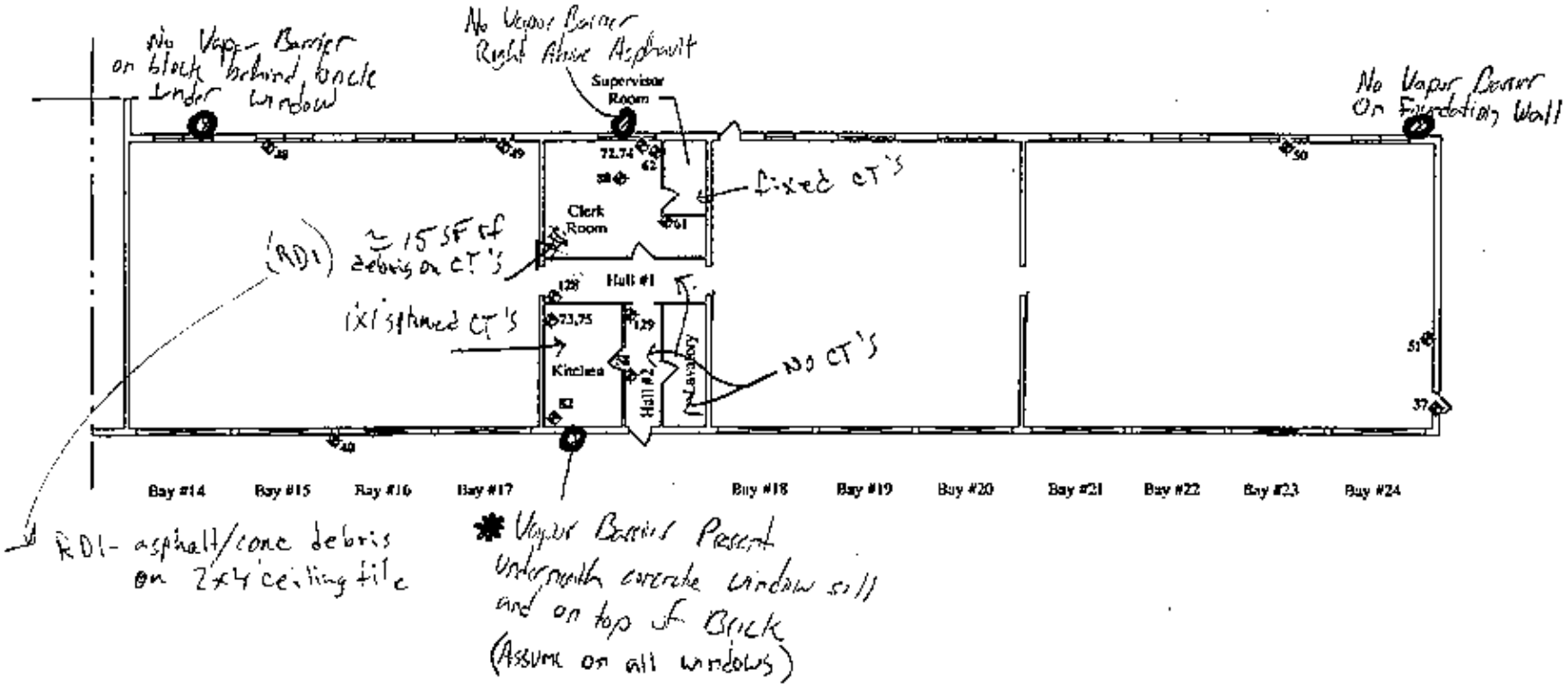
PHOTO 10.
Fourth Spot.

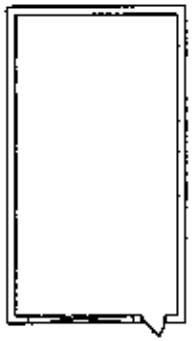
APPENDIX B

SITE SKETCHES

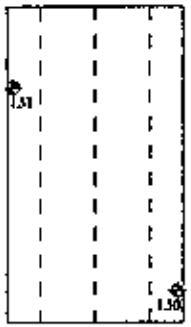


Drawing Title: Asbestos Bulk Sample Location Diagram	
Prepared by: EnviroMed Services, Inc. 35 Science Park, New Haven, CT 06511	Date: 8/21/01
Project: Putnam DOT Repair and Maintenance Garage Floor Plan Putnam, Connecticut	Scale: N.T.S.
	Drawn By: DER
Prepared for: State of Connecticut Department of Transportation Newington, Connecticut	Approved By: J.P.
EMS # IH-01-651	Drawing No. 2 of 3





Salt Shed



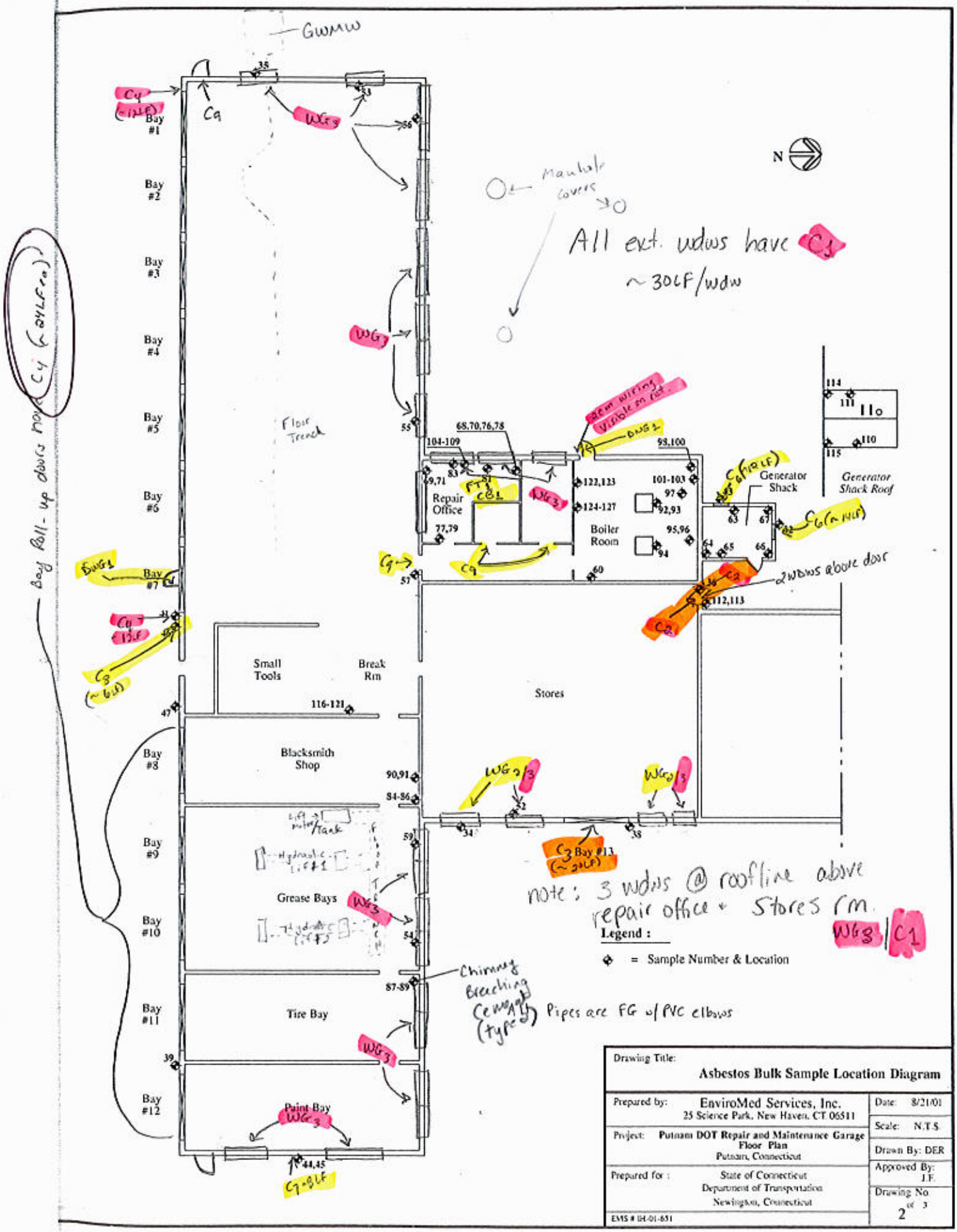
Salt Shed Roof

Legend :

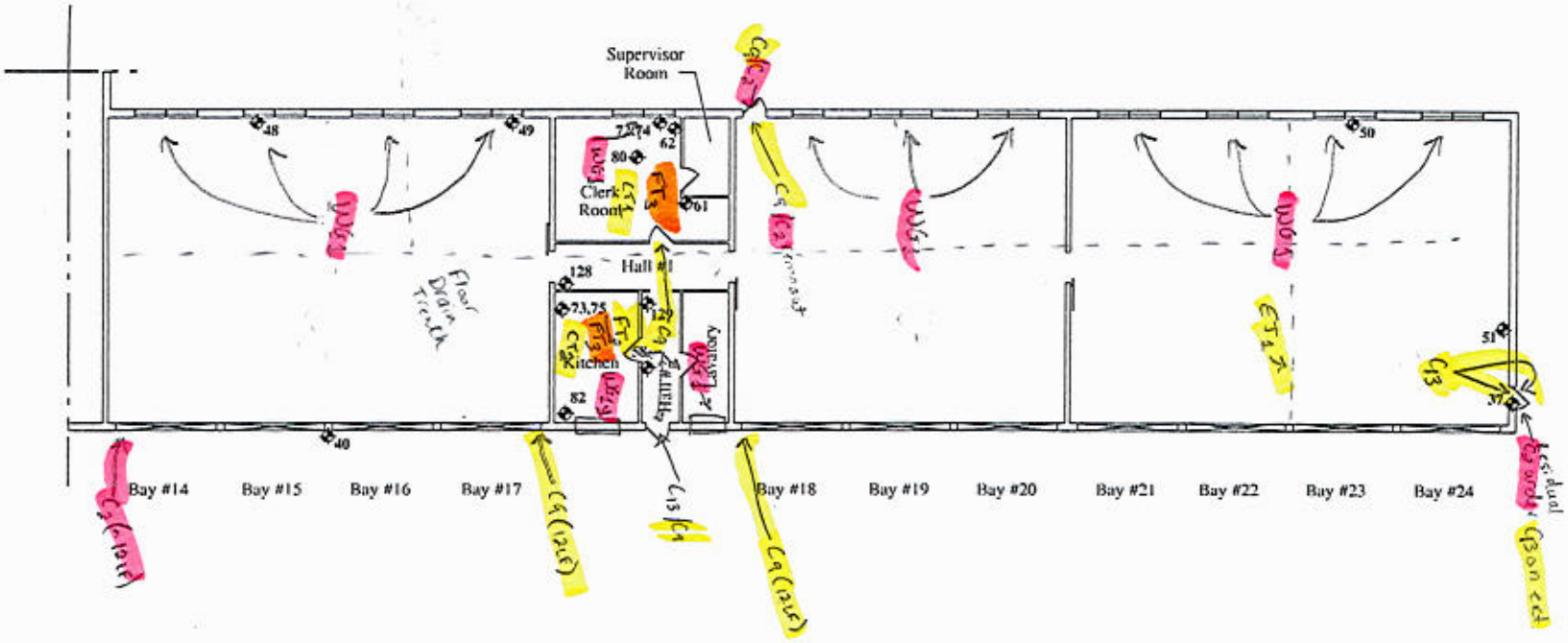
◆ = Sample Number & Location

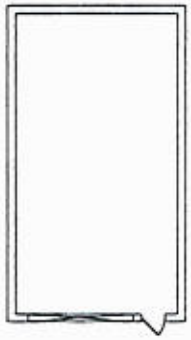
N

Drawing Title: Asbestos Bulk Sample Location Diagram	
Prepared by: EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 3/21/01
Project: Putnam DOT Repair and Maintenance Garage Floor Plan Putnam, Connecticut	Scale: N.T.S.
	Drawn By: DER
Prepared for : State of Connecticut Department of Transportation Newington, Connecticut	Approved By: J.P.
FMS # 11-01-651	Drawing No. 3 of 3

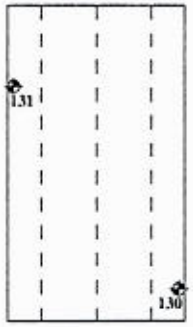


Drawing Title: Asbestos Bulk Sample Location Diagram	
Prepared by: EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 8/21/01
	Scale: N.T.S.
Project: Putnam DOT Repair and Maintenance Garage Floor Plan Putnam, Connecticut	Drawn By: DER
	Approved By: J.F.
Prepared for : State of Connecticut Department of Transportation Newington, Connecticut	Drawing No. 2 of 3
EMS # IH-01-651	





Salt Shed



Salt Shed Roof

All Bay Roll-up doors have C5 (~ 24LF ea)

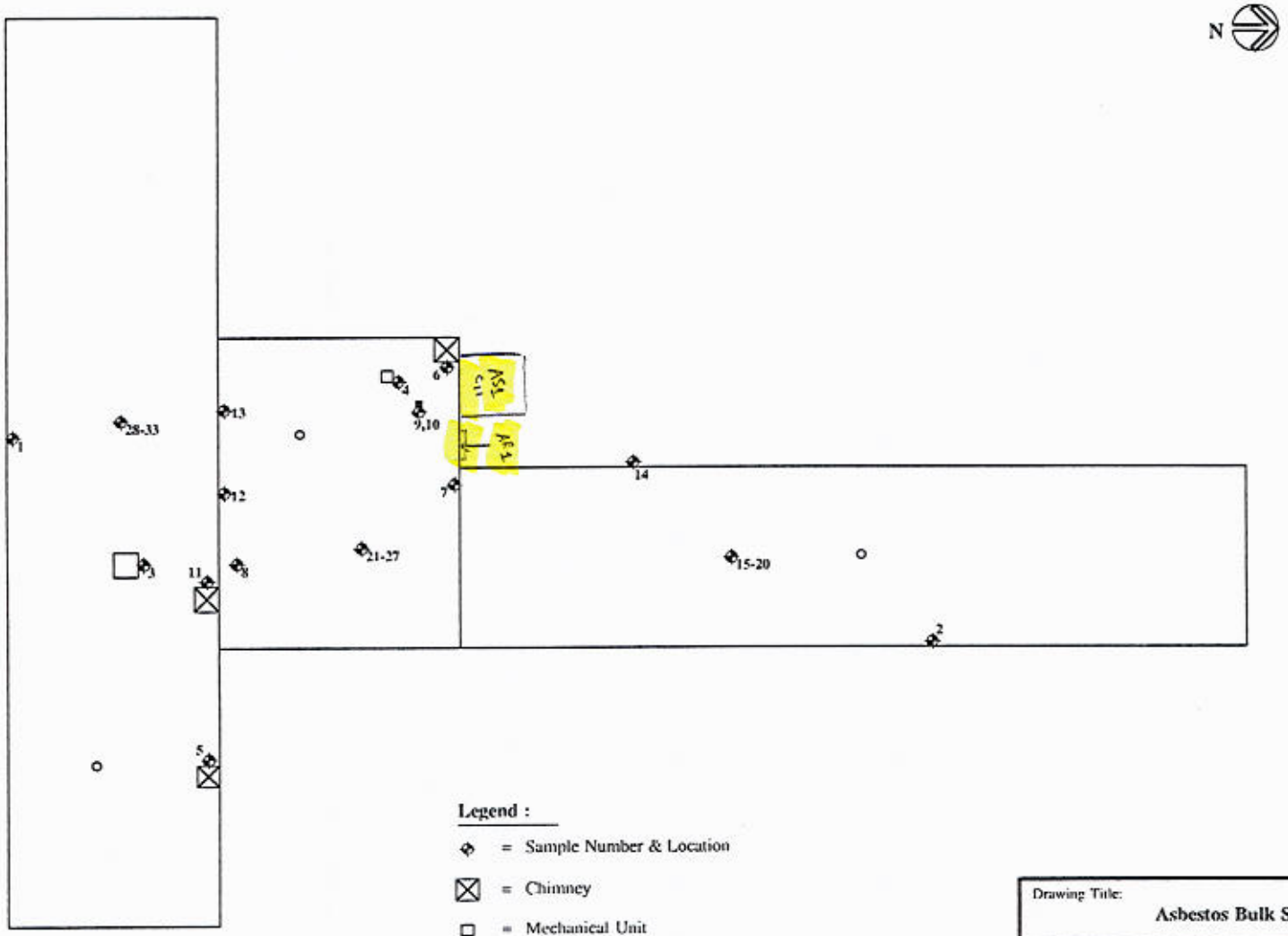
All ext. wdws have C1

N

Legend :

◈ = Sample Number & Location

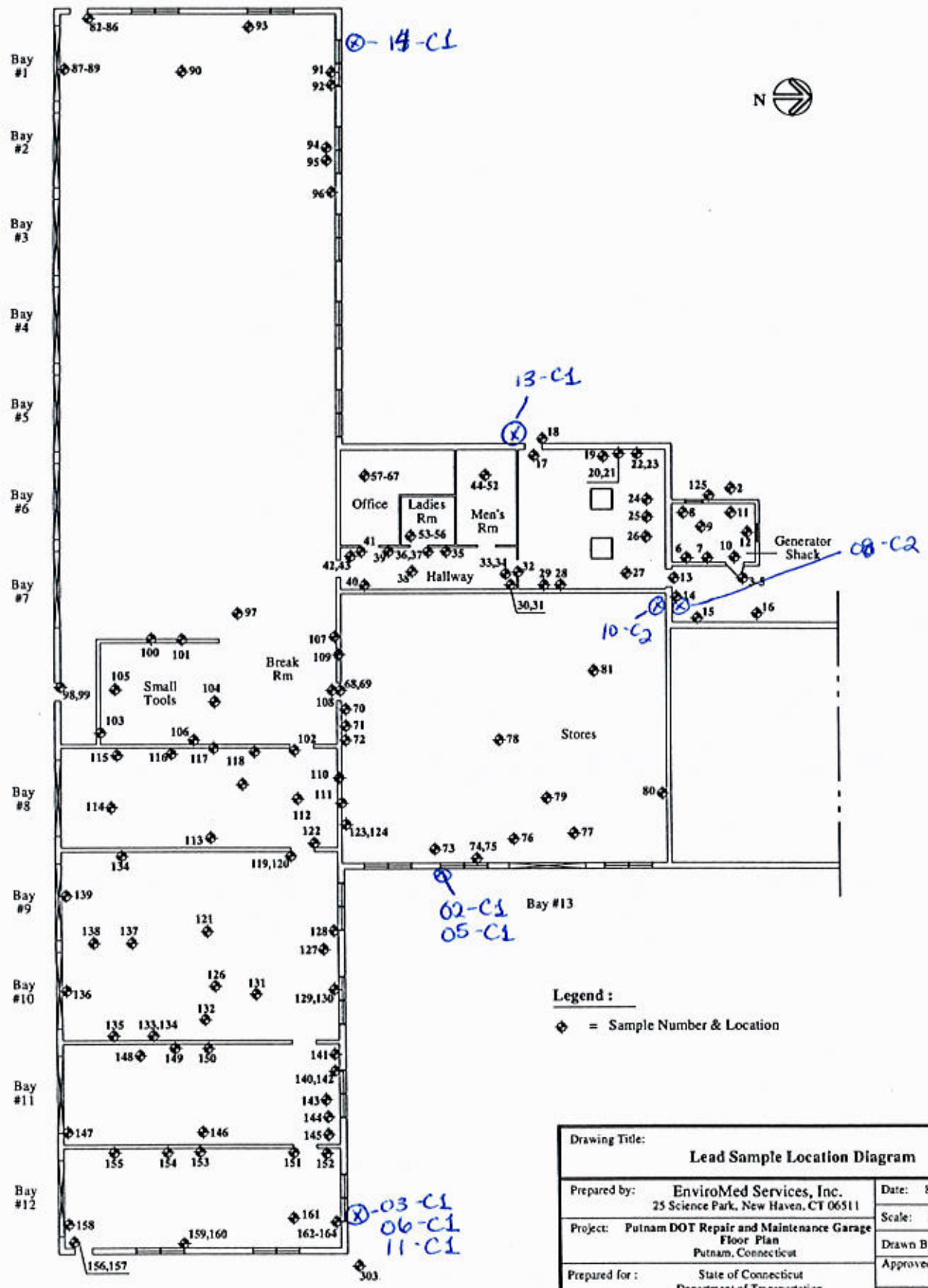
Drawing Title: **Asbestos Bulk Sample Location Diagram**		
Prepared by:	EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 8/21/01
		Scale: N.T.S.
Project:	**Putnam DOT Repair and Maintenance Garage Floor Plan** Putnam, Connecticut	Drawn By: DER
Prepared for :	State of Connecticut Department of Transportation, Newington, Connecticut	Approved By: J.F.
		Drawing No. 3 of 3
EMS # III-01-651		



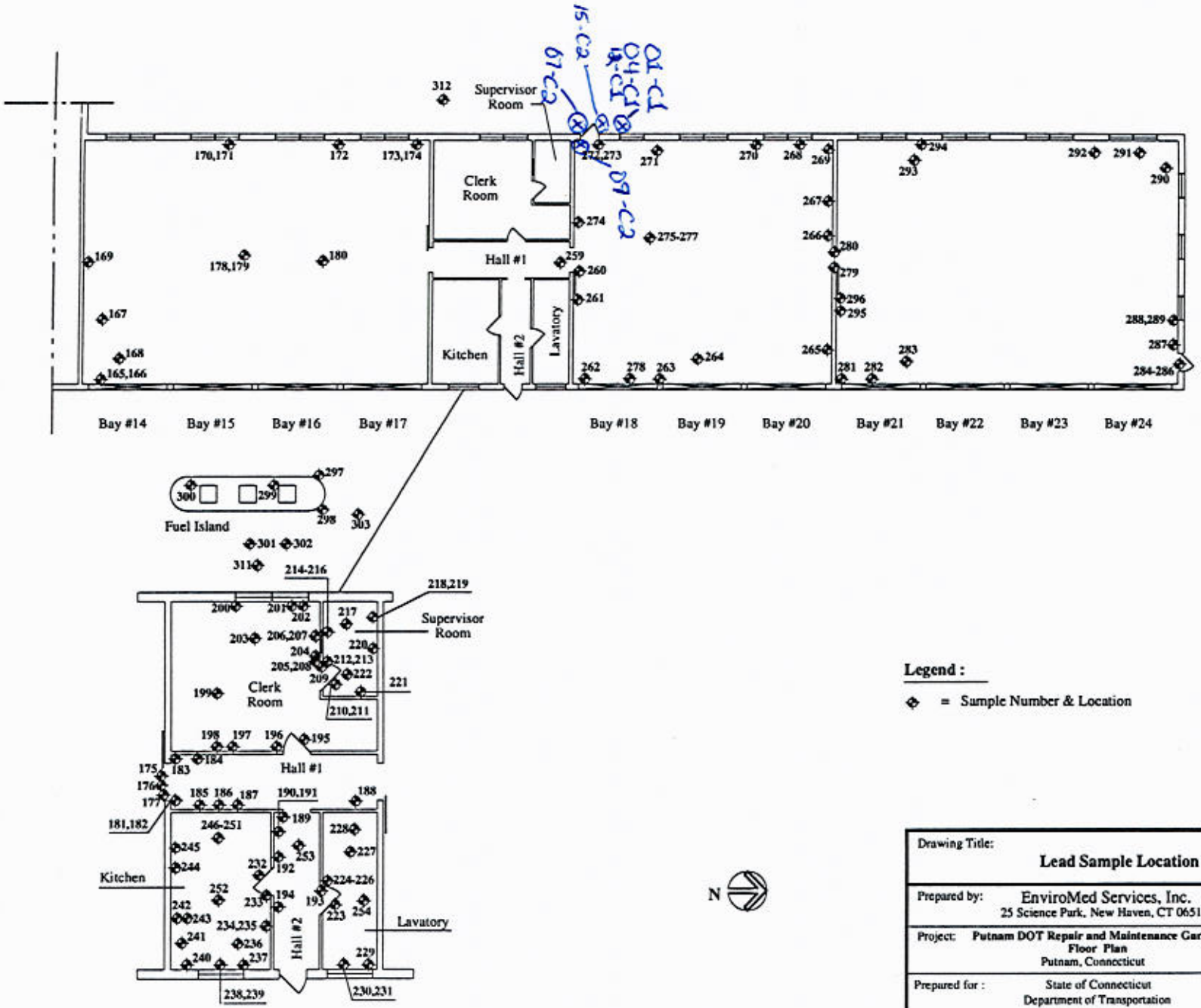
Legend :

- ◆ = Sample Number & Location
- ⊠ = Chimney
- □ = Mechanical Unit
- ○ = Vent Tube
- ■ = Pitch Box

Drawing Title: **Asbestos Bulk Sample Location Diagram**		
Prepared by:	EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 8/21/01
Project:	**Putnam DOT Repair and Maintenance Garage Roof Plan** Putnam, Connecticut	Scale: N.T.S. Drawn By: DER
Prepared for :	State of Connecticut Department of Transportation Newington, Connecticut	Approved By: J.F. Drawing No. 1 of 3
EMS # H-01-651		



Drawing Title:	Lead Sample Location Diagram
Prepared by:	EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511
Project:	Putnam DOT Repair and Maintenance Garage Floor Plan Putnam, Connecticut
Prepared for :	State of Connecticut Department of Transportation Newington, Connecticut
EMS # 1H-01-651	
Date:	8/21/01
Scale:	N.T.S.
Drawn By:	DER
Approved By:	J.F.
Drawing No.	1 of 3



Legend :

◆ = Sample Number & Location

Drawing Title: **Lead Sample Location Diagram**	
Prepared by: EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 8/21/01
Project: **Putnam DOT Repair and Maintenance Garage Floor Plan** Putnam, Connecticut	Scale: N.T.S.
	Drawn By: DER
Prepared for : State of Connecticut Department of Transportation Newington, Connecticut	Approved By: J.F.
	Drawing No. 2 of 3
BMS # IH-01-651	

SHEET NO. _____ OF _____
PROJECT NO. _____
DATE 10/12/17
BY _____
CHK'D _____

TRC Results you can rely on

SUBJECT Putnam DOT MF

ACM

	PCB
(+) C_1 = Ext wdw frame caulk (Lt. Grey brittle)	3 (✓✓✓)
(+) C_2 = Ext. door frame caulk (tan brittle)	3 (✓✓✓)
(✓) C_3 = Ext. Bay Door Column Caulk (Bay 13 Roll-Up Door) off white brittle	1 (✓)
(+) C_4 = Ext. Garage Bay Door Column Caulk	3 (✓✓✓)
(✓) C_5 = Ext Bay Door Gasket Caulk	3 (✓✓✓)
(✓) C_6 = Ext. Louvre Vent Frame Caulk Black Silicone	1 (✓)
(✓) C_7 = Ext. Louvre Vent Frame Caulk	1 (✓)
(✓) C_8 = Ext. Wood siding Caulk (Clear Silicone)	1 (✓)
(+) WG_1 = Int. Wdw Glazing (Type 1)	3 (✓✓✓)
NOT SAMPLED WG_2 = Int. Wdw Glazing (Type 2) (possible patch) unable to distinguish b/w (+) WG	N/A
(+) WG_3 = Int. Wdw Glazing (Type 3)	3 (✓✓✓)
(✓) C_9 = Int/Ext. Door Frame Caulk	3 (✓✓✓)
(✓) EJ_1 = Floor Expansion Jt. (Tar-Like Material)	
(✓) FT_1 = 12" Cream w/ Brown Streaks FT + Tan Mastic	
(✓) FT_2 = 12" White w/ Grey Streaks FT + Tan Mastic	
(✓) CB_1 = 4" Brown Covebase + Assoc. Glue	
(✓) C_{10} = Exhaust Fan Frame Caulk	1 (✓)
(✓) AS_1 = Black Asphalt Shingle	
(✓) AR_1 = Black Asphalt Roll-On Roofing	
(✓) C_{11} = Flashing Caulk on Generator Shack Roof	1 (✓)
(✓✓) FT_3 = 9" White w/ Beige Specks + Brown Mastic (under FT_1 + not previously sampled)	
~~C_{12} Dk Brown Brittle Int. Door Caulk~~	1
(✓✓) C_{13} = Dk Brown Rubbery Int/Ext Door Caulk	2 (✓✓)
(✓✓) DWG_1 = Grey Gummy Door Wdw Glaze	1 (✓)
(✓) R_1 = Built-up Roofing	
(✓✓) RT_1 = Roofing Tar b/w fiberboard Insul. layers	
(✓✓) VB_1 = Tar Paper Vapor Barrier under insul. on corrugated deck	
(✓✓) RT_2 = Tar Coating under VB_1 on deck	
(✓✓) C_{12} = Counter Flashing Caulk	3 (✓✓✓)
(✓) SS_1 = Black Gutter Seam Sealer	
(✓✓) VB_2 = Hard black vapor barrier inbetween window sill and brick	

A

SHEET NO. _____ OF _____

PROJECT NO. _____

DATE _____

BY _____

CHK'D _____

TRC Results you can rely on

SUBJECT Putnam DOT MF

PCB Substrates

C_1 = Metal / Brick / Concrete Sills

C_2 = Metal / Brick / CMU

C_3 = Metal / Brick

C_4 = Metal / Brick

C_5 = Rubber / Metal

C_6 = Metal / Wood

C_7 = Metal / Brick

C_8 = Wood

C_9 = Metal / Brick / CMU

C_{10} = Metal / CMU

C_{11} = Metal / Asphalt Shingles

C_{12} = Metal / Brick

WG_1 / WG_3 / DWG_2 = Metal / Glass

A

SHEET NO. _____ OF _____
PROJECT NO. _____
DATE 10/17/17
BY ZS
CHK'D _____

TRC Results you can rely on

SUBJECT Haz List - Putnam

Bays 1 - 7

14 8ft Fluorescent bulbs
7 Associated ballasts
16 Mercury vapor bulbs
16 Associated ballasts
2 Emergency Lights

4 Floor Trench

Bay 8

4 8 ft Fluorescent bulbs
2 Associated ballasts
8 4 ft Fluorescent bulbs
4 Associated ballasts
4 Mercury Vapor Bulbs
4 Associated ballasts
1 Emergency Lights

1 Floor Trench (oil)

Bays 9-10

4 Mercury Vapor bulbs
4 Associated ballasts
1 Emergency Lights
2 In-Floor Hydraulic lift
1 330 gallon AST

Bay 11

2 Mercury Vapor Bulbs
2 Associated ballasts
1 Emergency Lights
1 Floor Trench

Bay 12

12 Mercury Vapor Bulbs
12 Associated ballasts

Repair Office Area Hallway

4 8 ft Fluorescent bulb
2 Associated ballast
1 Emergency Lights
1 Water fountain

Repair Office Area

6 4 ft Fluorescent bulbs
3 Associated ballasts
1 Red Emergency light

Boiler Room

5 Mercury Vapor Bulbs
3 Associated ballasts
1 Electrical Meter
2 Boiler
1 Lucent Partner Control Box
1 Well McClain Control Box

A

SHEET NO. 2 OF

PROJECT NO.

DATE 10/13/17

BY ZS

CHK'D

TRC Results you can rely on

SUBJECT Haz List

Bays 19-17

7 Mercury Vapor Bulbs
7 Associated ballasts
1 Emergency Lights
1 Floor Trench

Hall #1 (Maintenance)

2 8 ft Fluorescent bulb
1 Associated ballasts
1 Emergency Lights
1 Water fountain

Hall #2 Maintenance

2 2 ft Fluorescent bulbs
1 Associated ballasts

Kitchen

4 4 ft Fluorescent bulbs
2 Associated Ballasts

Mens Room (Lavatory)

2 8 ft Fluorescent bulbs
1 Associated ballasts

Maintenance Office Area (Clerk Room)

15 4 ft Fluorescent Bulbs
5 Associated ballasts

1 Mercury Thermostat

Maintenance Office - Area Supervisor Room

2 4 ft Fluorescent bulbs
1 Associated ballasts

Bays 18-20

4 Mercury Vapor Bulbs
4 Associated ballasts
1 Emergency Lights
1 Floor Trench

Bays 21-24

6 Mercury Vapor Bulbs
6 Associated ballasts
1 Emergency lights
1 Floor Trench

Women Room (Repair Side)

2 4 ft Fluorescent bulb
1 Associated ballast
1 Small Fluorescent bulb above mirror
1 Associated ballast

A

SHEET NO. 3 OF

PROJECT NO.

DATE 10/12/17

BY ZS

CHK'D

TRC Results you can rely on

SUBJECT Haz List

Storage Room (Store)

17 Mercury Vapor Bulbs
17 Associated ballasts
2 Emergency Lights
1 Tank Management System Control Box

Exterior

2 Thermostat
1 UST
1 Emergency Call Box
3 Diesel Pumps
1 Associated Tank
1 Associated Control Box
2 AC Unit
15 Exterior Lights

Generator Room

2 4 ft fluorescent bulb
1 Associated ballast
1 250 gallon AST (Diesel)

A

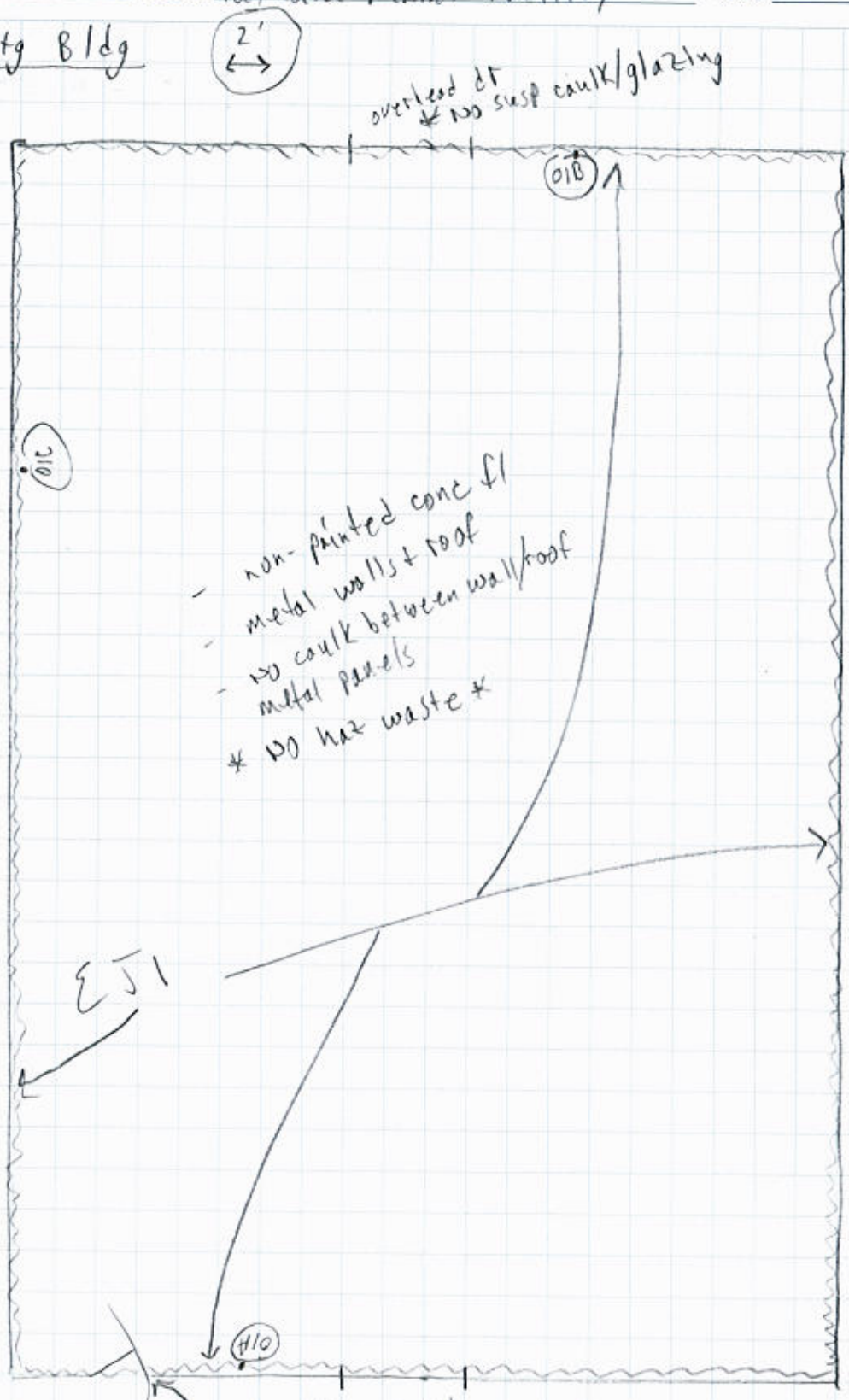
60 X 40

SHEET NO. 1 OF 3
PROJECT NO. 222165-5602-0710
DATE 2/26/18
BY JM, DH
CHK'D

TRC Results you can rely on

CT DOT -
SUBJECT Putnam Maint Facility

Cold Stg Bldg



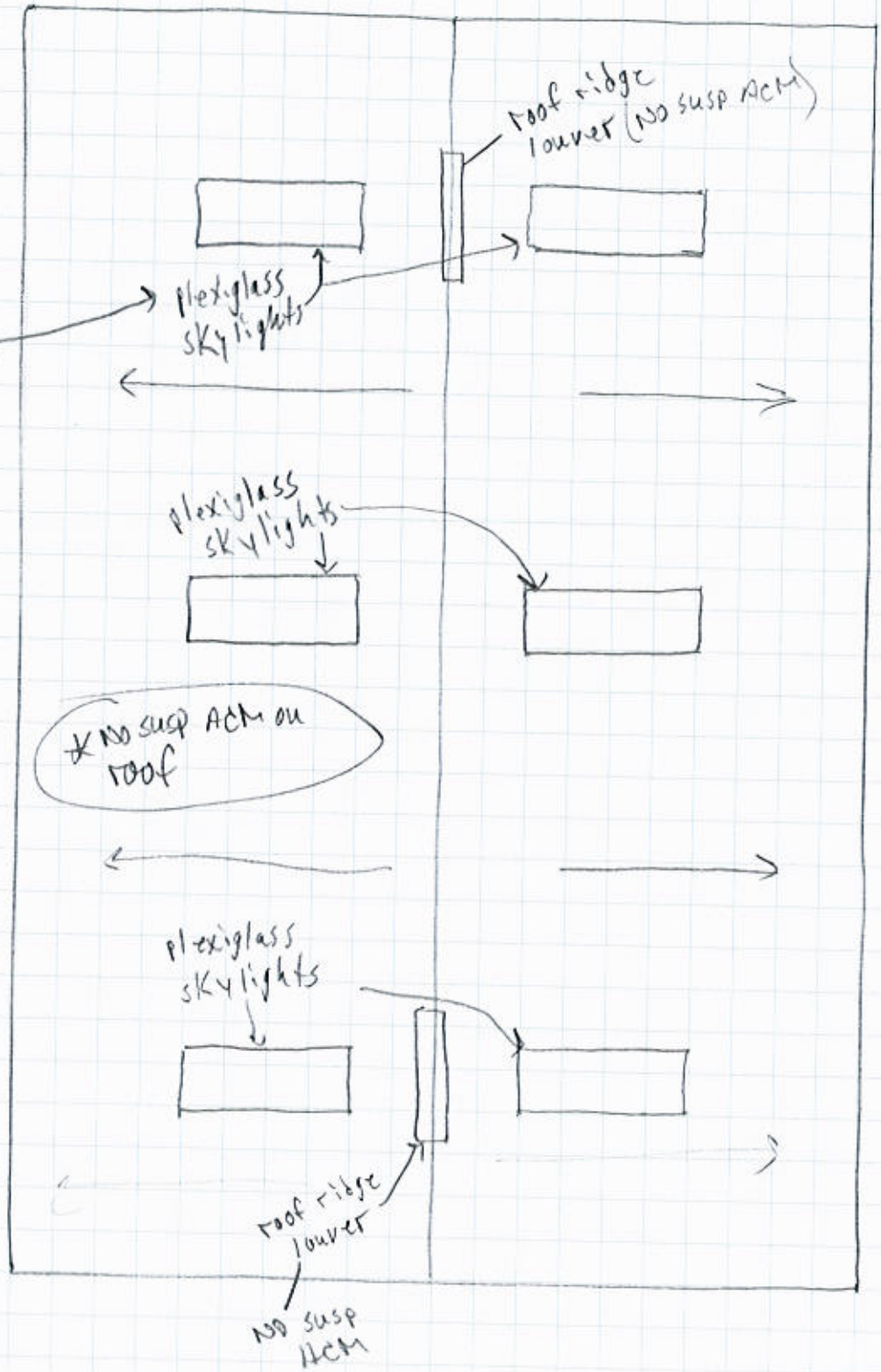
A

SHEET NO. 2 OF 3
PROJECT NO.
DATE 2/26/18
BY SM, DH
CHK'D

TRC Results you can rely on

CT DOT-
SUBJECT Putnam Main Fac - Cold Stg Bldg

Roof



A

SHEET NO. 3 OF 3
PROJECT NO.
DATE 2/26/15
BY JM, DH
CHK'D

TRC Results you can rely on

SUBJECT Putnam Maint Fac - Cold Stg Bldg

PCB sampling

01A - conc/conc (fl/foundation slab)

01B - ↓ ↓

01C - ↓ ↓

A

SHEET NO. 1 OF 1

PROJECT NO. 222165.5603.0410

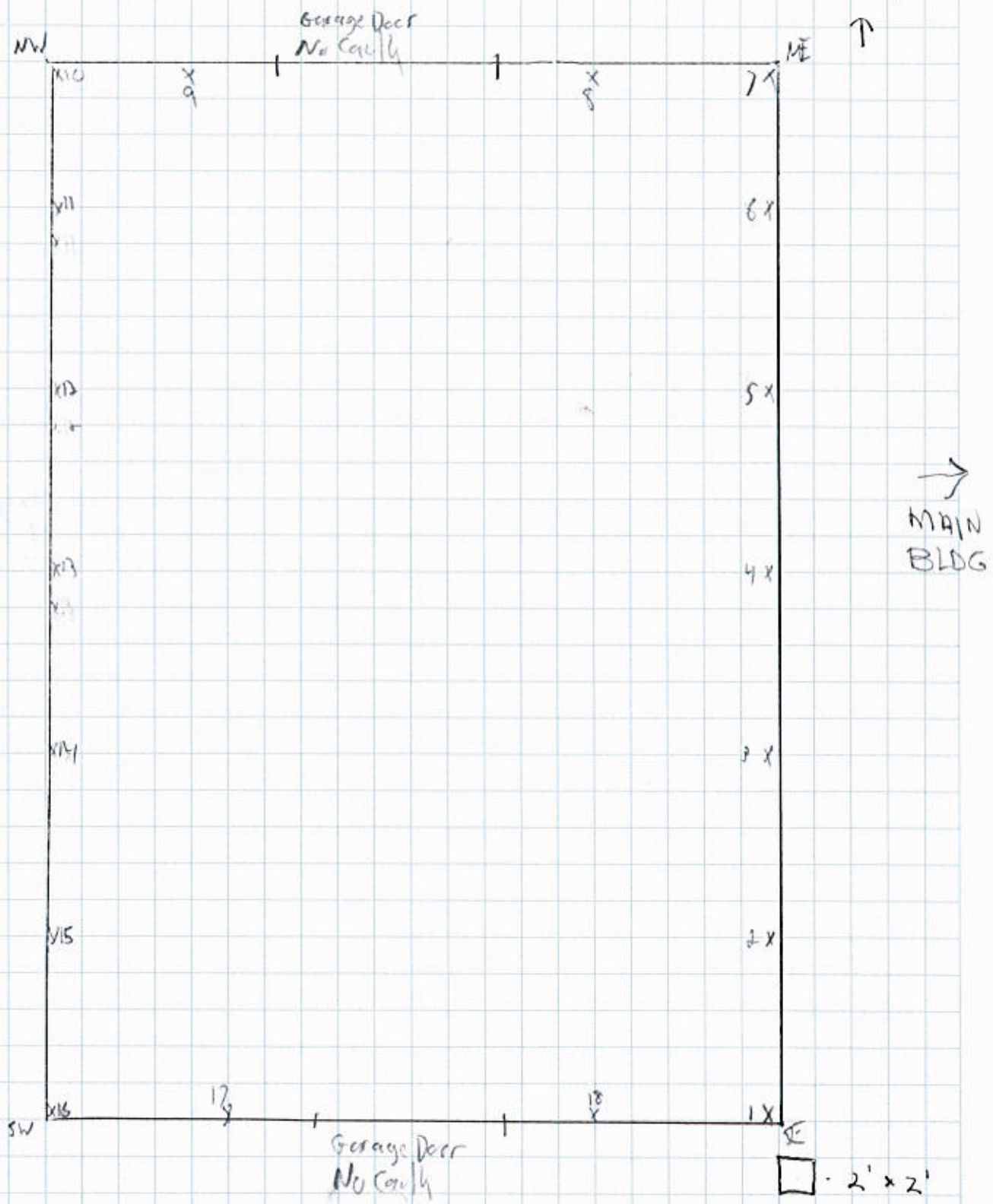
DATE 11/30/18

BY CARMEN JACKO

CHK'D

SUBJECT CONN DOT POMFRET MF

COLD STORAGE BUILDING



A

SHEET NO. 1 OF 1

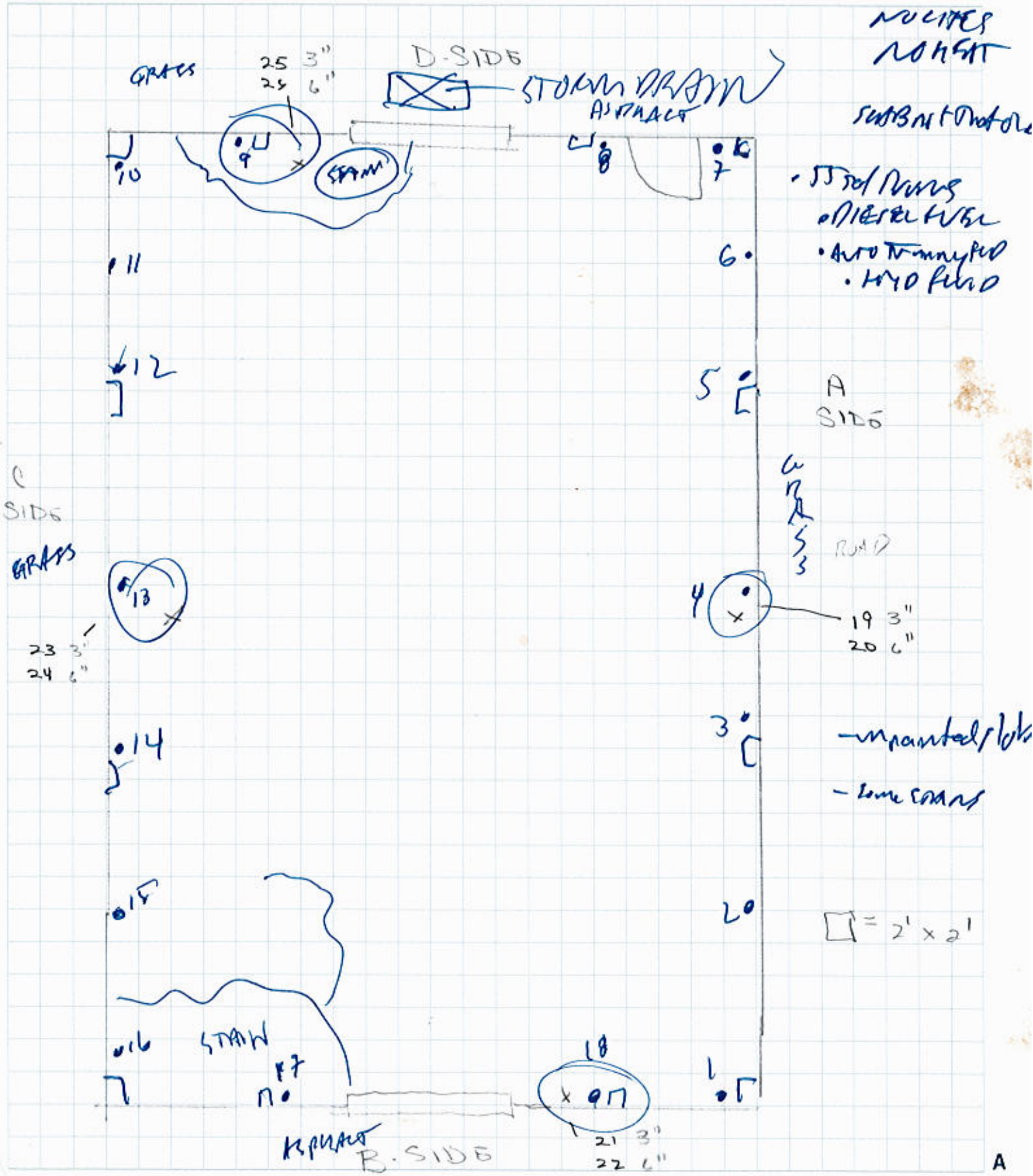
PROJECT NO. 222165.5607.0711

DATE 1/4/19

BY CARMEN JACKO

CHK'D

SUBJECT CONN DOT PUTNUM MF

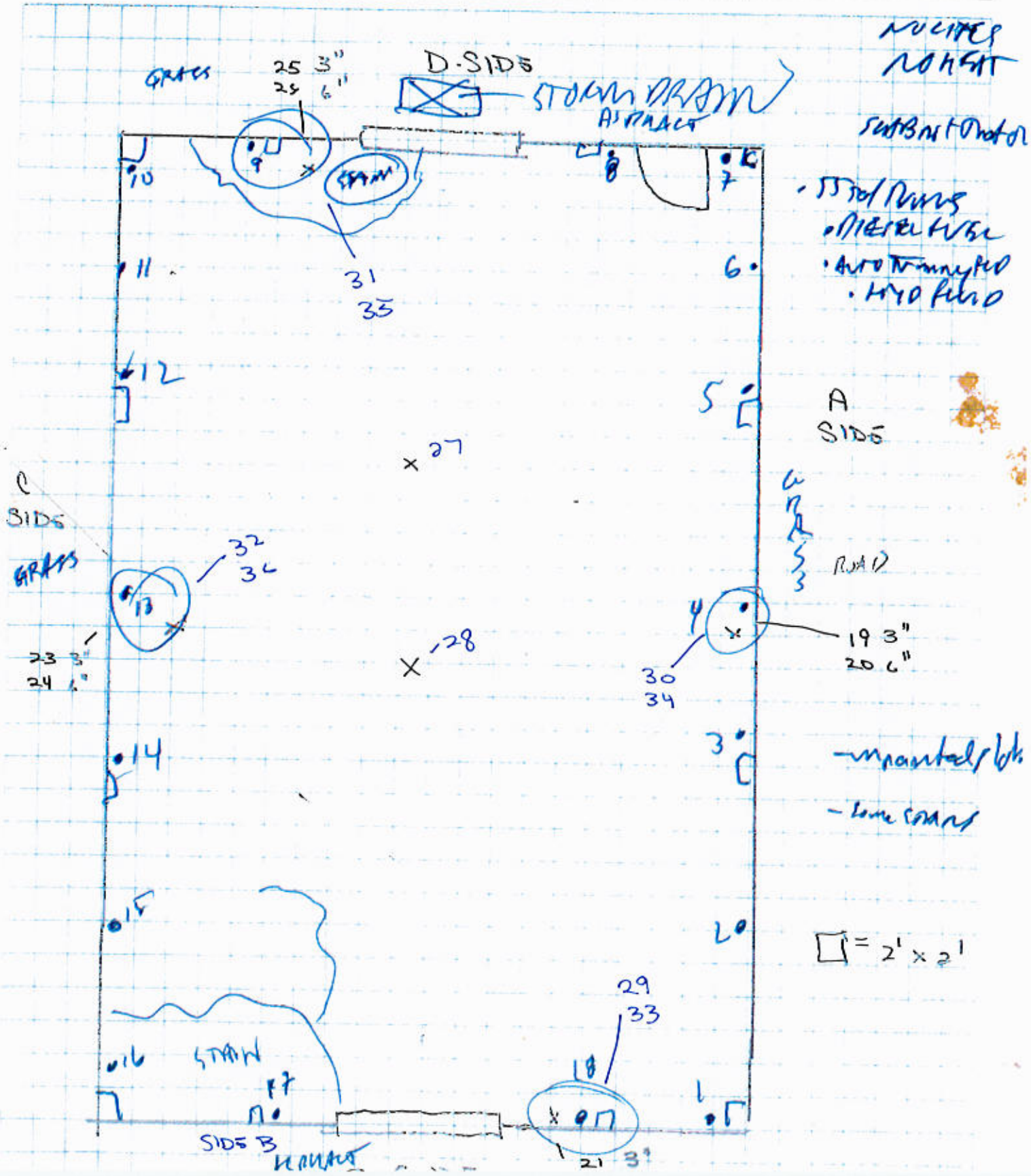


A

TRC
Results you can rely on

SHEET NO. 1 OF 1
PROJECT NO. 222165 5607.0718
DATE 1/4/19
BY CARMEN JACKO
CHK'D

SUBJECT CONN DOT PUTNUM MF



APPENDIX C

TRC INSPECTORS LICENSES/CERTIFICATIONS

1000403 01 AT 0.396 **AUTO T1 0 1564 00035-2911B0 -C01-P00105 1

JONATHAN D. GENTILE
80 HAVEN DR
GRANBY CT 06035-2911

Dear JONATHAN D. GENTILE,

Attached you will find your validated certificate for the coming year. Should you have any questions about your certificate renewal, please do not hesitate to write or call:

Department of Public Health
P.O. Box 340308
M.S.#12MQA
Hartford, CT 06134-0308

(860) 509-7603
opfc.dph@ct.gov
www.ct.gov/dph/license

Sincerely,

RAUL PINO, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

1000403-0000407-0000001 of 0000001-C01-a1d20101-1564-00405

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
JONATHAN D. GENTILE

VALIDATION NO.	CERTIFICATE NO.	CURRENT THROUGH
03-548549	000603	10/31/17

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

INSTRUCTIONS:

1. Detach a [illegible] of the [illegible] form.
2. Display the [illegible] prominent place in your [illegible] place of business.
3. The [illegible] your person. If you do not wish to carry the [illegible] place [illegible].
4. [illegible] employer's copy is [illegible] who must demonstrate current licensure/certification [illegible] The employer's card is to be presented to the [illegible] by [illegible] of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-INSPECTOR

JONATHAN D. GENTILE

CERTIFICATE NO.
000603

CURRENT THROUGH
10/31/17

VALIDATION NO.
03-548549

SIGNATURE COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Jonathan Gentile

has successfully completed the

4 Hour Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

ATC Group Services, LLC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Marc Soutra

Principal Instructor: Marcus Soutra

November 17, 2016
Date of Course

November 17, 2017
Expiration Date

Gregory Morsch

Regional Training Manager: Gregory Morsch

SIAR-5590
Certificate Number

November 17, 2016
Examination Date

1003135 01 AB 0.400 **AUTO T7 0 1464 06704-304039 -C01-P03141-I

CARMEN J JACKO
139 PLATT ST
WATERBURY CT 06704-3040

Dear CARMEN J JACKO,

Attached you will find your validated certificate for the coming year. Should you have any questions about your certificate renewal, please do not hesitate to write or call:

Department of Public Health
P.O. Box 340308
M.S.#12MQA
Hartford, CT 06134-0308

(860) 509-7603
opic.dph@ct.gov
www.ct.gov/dph/license

Sincerely,

RAUL PINO, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

1003135-0003146-0000001 of 0000001-C01-a1d00101-M64-00141

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
CARMEN J JACKO

VALIDATION NO.	CERTIFICATE NO.	CURRENT THROUGH
03-633521	000812	09/30/18

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-INSPECTOR

CARMEN J JACKO

CERTIFICATE NO.
000812

CURRENT THROUGH
09/30/18

VALIDATION NO.
03-633521

SIGNATURE COMMISSIONER

INSTRUCTIONS:

1. Detach and sign each of the certificates below.
2. Display the large certificate in a prominent place in your office or place of business.
3. Hold the wallet card for you to carry on your person. If you do not wish to carry the wallet card, place it in a safe place.
4. Employer's copy is for your employer's use and must be posted in a conspicuous place. Employers are required to retain employee certificates. The employer's card is to be provided to the employee. Employers shall be considered a part of your professional file. Only one copy of this card can be supplied to you.

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
CARMEN J JACKO

VALIDATION NO.	CERTIFICATE NO.	CURRENT THROUGH
03-633521	000812	09/30/18

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Carmen Jacko

has successfully completed the

Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

ATC Group Services LLC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Principal Instructor: Thomas Dion

April 13, 2017
Date of Course

April 13, 2018
Expiration Date

Regional Training Manager: Gregory Morsch

SIAR - 5720
Certificate Number

April 13, 2017
Examination Date

State of Connecticut

Lookup Detail View

Name

Name
ZACHARY W SMITH

License Information

lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Asbestos Consultant-Inspector	985	02/28/2018	09/11/2017	ZACHARY W SMITH	ACTIVE	None

Generated on: 11/15/2017 11:41:15 AM

This is to certify that

Zachary W Smith

has completed the requisite training, and has passed an examination for accreditation as:

Asbestos Inspector

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

Course Location

Institute for Environmental Education, Inc.
16 Upton Drive Wilmington, MA 01887

June 19-21, 2017
Course Dates

17-0302-102-401150
Certificate Number

June 21, 2017
Examination Date

June 21, 2018
Expiration Date

Training Director

16 Upton Drive, Wilmington, MA 01887 Telephone 978 658.5272 www.[illegible]

INSTITUTE FOR ENVIRONMENTAL EDUCATION

State of Connecticut

Lookup Detail View

Name

Name
DAVID M HEELON

License Information
lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Asbestos Consultant-Inspector	635	10/31/2018	10/27/2005	David M. Heelon	ACTIVE	None

Generated on: 11/15/2017 11:39:39 AM

CERTIFICATE OF ACHIEVEMENT

This certifies that

David Heelon

has successfully completed the

4 Hour Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

ATC Group Services, LLC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Principal Instructor: Thomas Dion

January 19, 2017
Date of Issue

January 19, 2018
Expiration Date

Gregory Morsch
Regional Training Manager: Gregory Morsch

SIAR-5622
Certificate Number

January 19, 2017
Examination Date

State of Connecticut

Lookup Detail View

Name

Name
DAVID M HEELON

License Information

lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Lead Inspector Risk Assessor	2188	10/31/2017	02/08/2007	David M. Heelon	ACTIVE	None

Generated on: 4/18/2017 7:55:07 PM

CERTIFICATE OF ACHIEVEMENT

This certifies that

Dave Heelon

18 Hale Street, West Springfield, MA 01089

has successfully completed the

EPA Model Lead Risk Assessor Refresher Training

745.225 (c) (8) (i)

conducted by

ATC Group Services LLC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Principal Instructor: Edward Kolodziej

January 13, 2017

Date of Course

January 13, 2017

Exam Date

State of Connecticut

Lookup Detail View

Name

Name
THOMAS J MARTIN

License Information

lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status		Licensure Actions or Pending Charges
Asbestos Consultant-Inspector	14	02/29/2020	09/16/1994	THOMAS J. MARTIN	ACTIVE	CURRENT	None

Generated on: 6/18/2019 6:47:17 PM

SPECTRUM
Environmental Associates, Inc.
"Exceeding Our Clients Expectations of Excellence"

P.O. Box 1024
Schenectady, NY 12301
(518) 346-6374 (Phone)
(518) 346-4062 (Fax)
www.4spectrum.com

This is to certify that

Thomas J Martin

Social Security #: XXX-XX-3014

Has Successfully Completed The:

Asbestos Inspector Refresher Course
Also satisfies the N.Y.S.D.O.H. *Inspector Refresher* Requirements

This course is EPA and New York State Department Of Health approved pursuant to Article 30, Section 905 of the New York State Labor Law as required under Title 10, Chapter 11, Subchapter H, Part 73 NYSCRR.
The DOH 2832 certificate issued is the official record of this training course.

92	12/6/18	Donald Trischett, Instructor
Exam Score	Course Date(s)	
12/6/2018		
Exam Date		
824698	12/6/2019	William Massmann
DOH 2832 Certificate Number	Expiration Date	Director of Training

ERIK R. PLIMPTON
25 COUNTRY LANE
S GLASTONBURY CT 06073-3701

Dear ERIK R. PLIMPTON,

Attached you will find your validated certificate for the coming year. Should you have any questions about your certificate renewal, please do not hesitate to write or call:

Department of Public Health
P.O. Box 340308
M.S.#12MQA
Hartford, CT 06134-0308

(860) 509-7603
oplc.dph@ct.gov
www.ct.gov/dph/license

Sincerely,

RAUL PINO, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

1000830-0000835-0000001 at 0000001-C01-a1d00101-1484-00832

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
ERIK R. PLIMPTON

VALIDATION NO	CERTIFICATE NO	CURRENT THROUGH
03-707582	000219	11/30/19

PROFESSION
ASBESTOS CONSULTANT-INSP/MGMT PLANNER

SIGNATURE COMMISSIONER

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-INSP/MGMT PLANNER

ERIK R. PLIMPTON

CERTIFICATE NO
000219

CURRENT THROUGH
11/30/19

VALIDATION NO
03-707582

SIGNATURE COMMISSIONER

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
ERIK R. PLIMPTON

VALIDATION NO	CERTIFICATE NO	CURRENT THROUGH
03-707582	000219	11/30/19

PROFESSION
ASBESTOS CONSULTANT-INSP/MGMT PLANNER

SIGNATURE COMMISSIONER

Certificate of Training

Awarded to

ERIK PLIMPTON

For successful completion of an 8 Hour, 1 Day

Asbestos Inspector & Management Planner
Annual Refresher Training
JANUARY 28, 2019

This training was approved and given in accordance with Regulations for Connecticut State Agencies RCSA 20-440 - 1-9 and RCSA 20-441 and meets the requirements of the EPA Revised MAP under TSCA Title II of 4/4/94

Presented by

Mystic Air Quality Consultants, Inc.
1204 North Road, Groton, CT 06340 (800) 247-7746

Certificate Number: IMPR27293 **Exam Grade:** 100 **Expiration Date:** 01/28/2020
Exam Date: 01/28/2019

Christopher J. Eident, CIH, CSP, RS

George Williamson, Training Director
Richard Haffey, Training Director

1000411 01 AB 0.405 **AUTO T1 D 1464 06035 291100 -C01 P00413 1

JONATHAN D. GENTILE
80 HAVEN DR
GRANBY CT 06035-2911

Dear JONATHAN D. GENTILE,

Attached you will find your validated certificate for the coming year. Should you have any questions about your certificate renewal, please do not hesitate to write or call:

Department of Public Health
P.O. Box 340308
M.S.#12MQA
Hartford, CT 06134-0308

(860) 509-7603
oplc.dph@ct.gov
www.ct.gov/dph/license

Sincerely,

RAUL PINO, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

1000411-0000415-0000001 of 0000001-C01-ad00101-1464-00413

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JONATHAN D. GENTILE

VALIDATION NO. 03-708643
CERTIFICATE NO. 002125
CURRENT THROUGH 10/31/19

PROFESSION
LEAD INSPECTOR

SIGNATURE
COMMISSIONER

INSTRUCTIONS:

1. Detach and sign each of the cards on this form
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
LEAD INSPECTOR

JONATHAN D. GENTILE

CERTIFICATE NO.
002125

CURRENT THROUGH
10/31/19

VALIDATION NO.
03-708643

SIGNATURE
COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JONATHAN D. GENTILE

VALIDATION NO. 03-708643
CERTIFICATE NO. 002125
CURRENT THROUGH 10/31/19

PROFESSION
LEAD INSPECTOR

SIGNATURE
COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Jonathan Gentile

80 Haven Drive, Granby, CT 06035

has successfully completed the

EPA Model Lead Inspector Technician Refresher Training

745.225

conducted by

ATC Group Services LLC

73 William Franks Drive

West Springfield, MA 01089

(413) 781-0070

Principal Instructor: Neal Freuden

April 11, 2019

Date of Course

April 11, 2019

Exam Date

Regional Training Director: Gregory Morsch

ELIR-431

Certificate Number

APPENDIX D

LABORATORY ACCREDITATIONS

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095

AND REGISTERED IN THE NAME OF Erik Plimpton

THIS CERTIFICATE IS ISSUED IN THE NAME OF Kathleen Williamson WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

BUILDING MATERIALS

ASBESTOS FIBERS - PCM

BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES DECEMBER 31, 2017 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS DAY OF December 2015

Registration No.

PH-0426

SUZANNE BLANCAFLOR, MS

CHIEF, ENVIRONMENTAL HEALTH SECTION

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101424-0

TRC Environmental Corporation

Windsor, CT

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2017-07-01 through 2018-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TRC Environmental Corporation
21 Griffin Road North
Windsor, CT 06095
Ms. Kathleen Williamson
Phone: 860-298-6392 Fax: 860-298-6214
Email: kwilliamson@trcsolutions.com
http://www.trcsolutions.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101424-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- Appendix E to Subpart E of Part 763 -- Interim Method of the Determination of Asbestos In Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

Effective 2017-07-01 through 2018-06-30

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200090-0

ProScience Analytical Services, Inc.

Woburn, MA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2017-01-01 through 2017-12-31

Effective Dates

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ProScience Analytical Services, Inc.
22 Cummings Park
Woburn, MA 01801-2122
Ms. Aimee Cormier
Phone: 781-935-3212 Fax: 781-932-4857
Email: aimee.cormier@proscience.net
http://www.proscience.net

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 200090-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION

ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM
CERTIFIED ANALYTES REPORT FOR ALL MATRICES

Complete Environmental Testing, Inc.
80 LUPES DRIVE
STRATFORD, CT 06615

CT REGISTRATION NUMBER :	PH-0116
REGISTERED OWNER / AUTHORIZED AGENT :	David Ditta
DIRECTOR :	David Ditta
CO DIRECTOR(S) :	Timothy Fusco
PHONE :	(203) 377-9984
LABORATORY REGISTRATION EFFECTIVE DATE :	10/01/2016
LABORATORY REGISTRATION EXPIRATION DATE :	09/30/2018
LABORATORY STATUS :	APPROVED

APPROVED BY

SUZANNE BLANCAFLOR, MS, MPH
CHIEF, ENVIRONMENTAL HEALTH SECTION

REVIEWED BY 9/13/2016 11:44:26 AM

DERMOT JONES

ANY QUESTIONS CONCERNING THIS DOCUMENT SHOULD BE ADDRESSED TO THE ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM AT (860) 509-7389

SOLID WASTE/SOIL (RCRA)

STATUS REPORTED ON 9/13/2016

ANALYTE NAME

PHYSICALS

pH

MINERALS

SULFIDE

NUTRIENTS

AMMONIA

KJELDAHL NITROGEN

TOTAL PHOSPHOROUS

METALS

ALUMINUM

ANTIMONY

ARSENIC

BARIUM

BERYLLIUM

BORON

CADMIUM

CALCIUM

CHROMIUM

CHROMIUM - Hexavalent

COBALT

COPPER

IRON

LEAD

MAGNESIUM

MANGANESE

MERCURY

MOLYBDENUM

NICKEL

POTASSIUM

SELENIUM

SILVER

SODIUM

STRONTIUM

THALLIUM

TIN

TITANIUM

VANADIUM

ZINC

RESIDUE

TOTAL RESIDUE (SOLIDS)

TOTAL VOLATILE RESIDUE

MISCELLANEOUS

CORROSIVITY

CYANIDE (TOTAL)

IGNITABILITY

REACTIVITY

SPLP LEACH (1312)

TCLP LEACH (1311)

PESTICIDES/ PCB'S

CHLORDANE (TECHNICAL)

ORGANOCHLORINE PESTICIDES (Single Response)

PCB IN OIL

POLYCHLORINATED BIPHENYLS

TOXAPHENE

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

PHOENIX ENVIRONMENTAL LABORATORIES, INC.

LOCATED AT: 587 East Middle Turnpike IN Manchester, Connecticut 06040

AND REGISTERED IN THE NAME OF Allan E. Caffyn

THIS CERTIFICATE IS ISSUED IN THE NAME OF Phyllis Shiller (Chemistry) WHO HAS BEEN DESIGNATED

Kathleen Cressia (Microbiology)

BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

DRINKING WATER, NON-POTABLE/WASTEWATER, SOLID WASTE/SOIL	ENVIRONMENTAL HEALTH & HOUSING
Examination For:	Examination For:
BACTERIA	LEAD In PAINT
INORGANIC CHEMICALS	LEAD In DUST WIPES
ORGANIC CHEMICALS	LEAD (PAINT) In SOIL
RADIOCHEMICALS	

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

EFFECTIVE RENEWAL DATE July 1, 2018

THIS CERTIFICATE EXPIRES June 30, 2020 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 18th DAY OF June, 2018

Registration No. PH-0618

SUZANNE BLANCAFLOR, MS, MPH
CHIEF, ENVIRONMENTAL HEALTH SECTION

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION

ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

CERTIFIED ANALYTES REPORT FOR ALL MATRICES

Phoenix Environmental Laboratories, Inc.

587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

CT REGISTRATION NUMBER :	PH-0618
REGISTERED OWNER / AUTHORIZED AGENT :	Allan Caffyn
DIRECTOR :	Phyllis Shiller
CO DIRECTOR(S) :	Kathleen Cressia
PHONE :	(860) 645-1102
LABORATORY REGISTRATION EFFECTIVE DATE :	07/01/2018
LABORATORY REGISTRATION EXPIRATION DATE :	06/30/2020
LABORATORY STATUS :	APPROVED

APPROVED BY

SUZANNE BLANCAFLOR, MS, MPH
CHIEF, ENVIRONMENTAL HEALTH SECTION

REVIEWED BY 6/18/2018 2:36:23 PM

DERMOT JONES

ANY QUESTIONS CONCERNING THIS DOCUMENT SHOULD BE ADDRESSED TO THE ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM AT (860) 509-7389

PESTICIDES/ PCB'S

CHLORDANE (TECHNICAL)

ORGANOCHLORINE PESTICIDES (Single Response)

PCB IN OIL

POLYCHLORINATED BIPHENYLS

TOXAPHENE

SOLVENTS

CT Extractable Petroleum Hydrocarbons (ETPH)

MA Extractable Petroleum Hydrocarbons (EPH)

MA Volatile Petroleum Hydrocarbons (VPH)

OIL & GREASE

TOTAL ORGANIC HALIDES

TPH (HEM/SGT)

HERBICIDES

2,4,5-T

2,4,5-TP (SILVEX)

2,4-D

DICAMBA

TRIAZINE PESTICIDES

ALACHLOR

ATRAZINE

SIMAZINE

RCRA (SW-846) ORGANICS

ACID EXTRACTABLES (PHENOLS) (SW 8270)

BENZIDINES (SW 8270)

CHLORINATED HYDROCARBONS (SW 8270)

HALOETHERS (SW 8270)

NITROAROMATICS & CYCLIC KETONES (SW 8270)

NITROSOAMINES (SW 8270)

PAH's (SW 8270)

PHTHALATES (SW 8270)

VOLATILE ORGANICS (SW 8260)

RADIOCHEMICALS

URANIUM

ENVIRONMENTAL HEALTH & HOUSING

LEAD (PAINT) IN SOIL

LEAD IN DUST WIPES

LEAD IN PAINT

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

PHOENIX ENVIRONMENTAL LABORATORIES, INC.

LOCATED AT 587 East Middle Turnpike IN Manchester, Connecticut 06040

AND REGISTERED IN THE NAME OF Allan E. Caffyn

THIS CERTIFICATE IS ISSUED IN THE NAME OF Phyllis Shiller (Chemistry) Kathleen Cressia (Microbiology) WHO HAS BEEN DESIGNATED

BY THE REGISTERED OWNER\AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

DRINKING WATER, NON-POTABLE/WASTEWATER, SOLID WASTE/SOIL

Examination For:

BACTERIA

INORGANIC CHEMICALS

ORGANIC CHEMICALS

ENVIRONMENTAL HEALTH & HOUSING

Examination For:

LEAD In PAINT, LEAD In DUST WIPES, LEAD (PAINT) In SOIL

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES June 30, 2018 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 29th DAY OF June 2016

Registration No. PH – 0618

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION

ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM
CERTIFIED ANALYTES REPORT FOR ALL MATRICES

Phoenix Environmental Laboratories, Inc.
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

CT REGISTRATION NUMBER :	PH-0618
REGISTERED OWNER / AUTHORIZED AGENT :	Allan Caffyn
DIRECTOR :	Phyllis Shiller
CO DIRECTOR(S) :	Kathleen Cressia
PHONE :	(860) 645-1102
LABORATORY REGISTRATION EFFECTIVE DATE :	07/01/2016
LABORATORY REGISTRATION EXPIRATION DATE :	06/30/2018
LABORATORY STATUS :	APPROVED

APPROVED BY _____ 6/29/2016 8:32:52 AM
PHILIP SCHLOSSBERG

ANY QUESTIONS CONCERNING THIS DOCUMENT SHOULD BE ADDRESSED TO THE ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM AT (860) 509-7389

ORGANOCHLORINE PESTICIDES (Single Response)	PCB IN OIL
POLYCHLORINATED BIPHENYLS	TOXAPHENE

SOLVENTS

CT Extractable Petroleum Hydrocarbons (ETPH)	MA Extractable Petroleum Hydrocarbons (EPH)
MA Volatile Petroleum Hydrocarbons (VPH)	OIL & GREASE
TOTAL ORGANIC HALIDES	TPH (HEM/SGT)

HERBICIDES

2,4,5-T	
2,4,5-TP (SILVEX)	2,4-D
DICAMBA	

TRIAZINE PESTICIDES

ALACHLOR	ATRAZINE
SIMAZINE	

RCRA (SW-846) ORGANICS

ACID EXTRACTABLES (PHENOLS) (SW 8270)	
BENZIDINES (SW 8270)	CHLORINATED HYDROCARBONS (SW 8270)
HALOETHERS (SW 8270)	NITROAROMATICS & CYCLIC KETONES (SW 8270)
NITROSOAMINES (SW 8270)	PAH's (SW 8270)
PHTHALATES (SW 8270)	VOLATILE ORGANICS (SW 8260)

ENVIRONMENTAL HEALTH & HOUSING

LEAD (PAINT) IN SOIL	LEAD IN DUST WIPES
LEAD IN PAINT	

APPENDIX E

TRC 2017/2019 ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORMS

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 51432

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
222165.5607.0710	CT DOT Putnam Maint. Facility		PLM: 8hr, 24hr, X 48hr, 3day TEM: 24hr, X 48hr, 3day, 5day
SIGNATURE	INSPECTOR		
	J. Gentile/Z. Smith/C. Jacko		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
01	10/12/17	1348		X	Stores Rm Ext Door					X	Exterior Door Frame Caulk (C2) (Tan/Grey Pliable)
02	10/12/17	1345		X	Bay 13 Ext Roll-Up Door					X	Bay Door Column Caulk (C3) (Grey Brittle)
03	10/12/17	1340		X	Ext Bay 7					X	Bay Door Gasket Caulk (C5) (White Brittle)
04	10/12/17	1353		X	Generator Shack Ext					X	Exterior Louver Vent Caulk Type 1 (C6) (Dk Silicone)
05	10/12/17	1401		X	Bay 12 Ext					X	Exterior Louver Vent Caulk Type 2 (C7) (White Brittle)
06	10/12/17	1410		X	Ext b/w Bay 7 & 8					X	Exterior Wood Siding Caulk (C8) (Clear Silicone)
07	10/12/17	1400		X	Hall 2 Door to Kitchen					X	Interior Door Frame Caulk (C9) (White Rubbery)
08	10/12/17	1420		X	Bay 8 Interior					X	Exhaust Fan Frame Caulk (C10) (White Rubbery)
09	10/12/17	1428		X	Generator Shack Roof					X	Flashing Caulk (C11) (White/Clear Rubbery)
10	10/13/17	1450		X	Front Bay Upper/Lower Roof Junction					X	Counter Flashing Caulk (C12) (Dk Brown Brittle)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	10/17/17	10/17/17			
(Printed) Jonathan Gentile	Time:	(Printed) 1610	(Printed)	Time:	(Printed)

Remarks: All samples submitted for TEM analysis only, were already previously sampled as NAD by EnviroMed 2001 survey. Only submitting TEM to confirm NAD status.

Condition of Samples: ✓
Acceptable: Yes ✓ No ____
Comments:

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 57432

PROJECT NUMBER	PROJECT NAME
222165.5607.0710	CT DOT Putnam Maint. Facility

SIGNATURE	INSPECTOR
[signature]	J. Gentile/Z. Smith/C. Jacko

TURNAROUND TIME								
PLM:		8hr		24hr	X	48hr		3day
TEM:		24hr	X	48hr		3day		5day

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
11	10/12/17	1354		X	Bay 24 Ext Door	X					Dk Brown Rubbery Int/Ext Door Caulk (C13)
12	10/12/17	1356		X	Bay 24 Ext Door	X				X	Dk Brown Rubbery Int/Ext Door Caulk (C13)
13	10/12/17	1047		X	Boiler Room Ext Door	X					Grey Gummy Door Wdw Glaze (DWG1)
14	10/12/17	1115		X	Bay 7 Ext Door	X				X	Grey Gummy Door Wdw Glaze (DWG1)
15	10/12/17	1355		X	Bay 22 Floor					X	Floor Expansion Jt (EJ1) (Black Asphaltic)
16	10/13/17	1455		X	Gutter above Bay 14					X	Gutter Seam Sealer (SS1) (Black Flashing Tar-Like)
17	10/12/17	1433		X	Repair Office			X		X	12" Cream w/Brown Streaks Floor Tile & Brown Mastic (FT1)
18	10/12/17	1353		X	Kitchen (Top Layer)			X		X	12" Cream w/Grey Streaks Floor Tile & Brown Mastic (FT1)
19	10/12/17	1350		X	Kitchen (Bottom Layer)	X		X			9" Cream w/Grey Streaks Floor Tile & Brown Mastic (FT3)
20	10/12/17	1352		X	Kitchen (Bottom Layer)	X		X		X	9" Cream w/Grey Streaks Floor Tile & Brown Mastic (FT3)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
[signature]	10/17/17	[signature] 10/17/17			
(Printed) Jonathan Gentile	Time:	(Printed) [signature] 1610	(Printed)	Time:	(Printed)

Remarks: All samples submitted for TEM analysis only, were already previously sampled as NAD by EnviroMed 2001 survey. Only submitting TEM to confirm NAD status.

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 51432

PROJECT NUMBER	PROJECT NAME
222165.5607.0710	CT DOT Putnam Maint. Facility

SIGNATURE	INSPECTOR
	J. Gentile/Z. Smith/C. Jacko

PARAMETERS

TURNAROUND TIME

PLM:		8hr		24hr	X	48hr		3day
TEM:		24hr	X	48hr		3day		5day

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
21	10/12/17	1435		X	Repair Office			X		X	4" Brown Cove Molding & Tan Glue (CB1)
22	10/12/17	1425		X	Generator Shack Roof					X	Black Asphalt Shingles (AS1)
23	10/12/17	1430		X	Sm Overhang above Stores Rm Door					X	Black Asphalt Roll Roofing (AR1)
24	10/13/17	1441		X	Main Roof Above Bay 15					X	Built-up-Roofing (R1)
25	10/13/17	1437		X	Main Roof Above Bay 15	X					Roofing Tar b/w Fiberboard Layers (RT1)
26	10/13/17	1449		X	Main Roof Above Stores Room	X				X	Roofing Tar b/w Fiberboard Layers (RT1)
27	10/13/17	1439		X	Main Roof Above Bay 15	X					Roofing Tar on Corrugated Deck (RT2)
28	10/13/17	1447		X	Main Roof Above Stores Room	X				X	Roofing Tar on Corrugated Deck (RT2)
29	10/13/17	1435		X	Main Roof Above Bay 15	X					Tar Paper Vapor Barrier under Fiberboard Insul. (VB1)
30	10/13/17	1445		X	Main Roof Above Stores Room	X				X	Tar Paper Vapor Barrier under Fiberboard Insul. (VB1)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	10/17/17	10/17/17			
(Printed) Jonathan Gentile	Time:	(Printed) 1610	(Printed)	Time:	(Printed)

Remarks: All samples submitted for TEM analysis only, were already previously sampled as NAD by EnviroMed 2001 survey. Only submitting TEM to confirm NAD status.

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 51432

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME							
222165.5607.0710	CT DOT Putnam Maint. Facility		PLM:		8hr		24hr	X	48hr		3day
			TEM:		24hr	X	48hr		3day		5day
SIGNATURE	INSPECTOR									
	J. Gentile/Z. Smith/C. Jacko									

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
31	10/16/17	1100		X	Wdw Sill o/s Kitchen	X					Black Thin Vapor Barrier Material (VB2)
32	10/16/17	1102		X	Wdw Sill o/s Kitchen	X				X	Black Thin Vapor Barrier Material (VB2)

Relinquished by: (Signature)	Date:	Received by: (Signature) 10/17/17	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) Jonathan Gentile	Time:	(Printed) 1610	(Printed)	Time:	(Printed)

Remarks: All samples submitted for TEM analysis only, were already previously sampled as NAD by EnviroMed 2001 survey. Only submitting TEM to confirm NAD status.

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

NT16832

Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857

TEM Bulk Chain of Custody Record

Date: 10/18/17

PO#: C222165

Client: TRC

Client Job#: 222165.5607.0710

Client Job Ref./Loc.: CT DOT- Putnam Maintenance Facility

Relinquished by: K. Williamson- KWilliamson@trcsolutions.com

Received by: Paula Reuttlede 10/19/17 9:30

Report to: E. Plimpton- EPlimpton@trcsolutions.com & SArienti@trcsolutions.com

Samplers Name: J. Gentile/ Z. Smith/ C. Jacko

Analysis Type: Chatfield **EPA N.O.B** Qualitative

Turn Around Time: <12 Hour <24 Hour **<48 Hour** <3 Day 5 Day Other:

				For Lab Use Only	
Client ID #	**Lab ID#**	**Description**	**Location**	**Acceptable on Receipt**	**Comments**
01	51432	Caulk	See COC		
02	51432	Caulk			
03	51432	Caulk			
04	51432	Caulk			
05	51432	Caulk			
06	51432	Caulk			
07	51432	Caulk			
08	51432	Caulk			
09	51432	Caulk			
10	51432	Caulk			
12	51432	Caulk			
14	51432	Glaze			
15	51432	Expansion Joint			
16	51432	Sealer			
17	51432	Tile & Mastic			
18	51432	Tile & Mastic			

For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

NT16832

Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857

TEM Bulk Chain of Custody Record

Date: 10/18/17

PO#: **C222165**
Client: TRC
Client Job#: 222165.5607.0710
Client Job Ref./Loc.: CT DOT- Putnam Maintenance Facility
Relinquished by: K. Williamson- KWilliamson@trcsolutions.com
Received by:
Report to: E. Plimpton- EPlimpton@trcsolutions.com & SArienti@trcsolutions.com
Samplers Name: J. Gentile/ Z. Smith/ C. Jacko

Analysis Type: Chatfield **EPA N.O.B** Qualitative

Turn Around Time: <12 Hour <24 Hour **<48 Hour** <3 Day 5 Day Other:

				For Lab Use Only	
Client ID #	**Lab ID#**	**Description**	**Location**	**Acceptable on Receipt**	**Comments**
20	51432	Mastic Only	See COC		
21	51432	CB & Glue			
22	51432	Shingle			
23	51432	Roofing			
24	51432	Roofing			
26	51432	Tar			
28	51432	Tar			
30	51432	Vapor Barrier			
32	51432	Vapor Barrier			

For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 51959

PROJECT NUMBER	PROJECT NAME
222165-5607-0710	CTDOT – Putnam Maintenance Facility, Putnam, CT
SIGNATURE	INSPECTOR
	Tom Martin

PARAMETERS

TURNAROUND TIME

PLM:		8hr		24hr		48hr	X	3day
TEM:		24hr		48hr		3day	X	5day

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
1	2/26/18	1104			Clerk room/office	X					RD1 – asphalt/concrete debris on 2'x4' ceiling tiles
2	2/26/18	1105			Clerk room/office	X				X	RD1 – asphalt/concrete debris on 2'x4' ceiling tiles

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	2/26/18	2/26/18			
(Printed) Tom Martin	Time: 1416	(Printed) 1416 Williamson	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

NT17090

Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857

TEM Bulk Chain of Custody Record

Date: 03/01/18

PO#: **C222165**

Analysis Type: Chatfield **EPA N.O.B** Qualitative

Client: TRC

Client Job#: 222165.5607.0710

Client Job Ref./Loc.: CT DOT- Putnam Maintenance Facility, Putnam, CT

Relinquished by: C. Lemire- CLemire@trcsolutions.com

Received by: Paula Kravitt - CoLe 3/2/18 9:15

Report to: E. Plimpton- EPlimpton@trcsolutions.com & SArienti@trcsolutions.com

Samplers Name: T. Martin

Turnaround Time: <12 Hour <24 Hour <48 Hour <3 Day **5 Day** Other:

				For Lab Use Only	
Client ID #	**Lab ID#**	**Description**	**Location**	**Acceptable on Receipt**	**Comments**
2	51959	Asphalt/Concrete Debris	See COC		

For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 51960

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME							
222165-5607-0710	CTDOT – Putnam Maintenance Facility, Cold Storage Bldg Putnam, CT		PLM:		8hr		24hr		48hr	X	3day
			TEM:		24hr		48hr		3day	X	5day

SIGNATURE: Tom Martin

INSPECTOR: Tom Martin

FIELD SAMPLE NUMBER	DATE	TIME	TYPE: COMP	TYPE: GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
1	2/26/18	0907			Interior – Cold Stg bldg.	X					EJ1 – black, asphalt floor expansion joint material
2	2/26/18	0908			Interior – Cold Stg bldg.	X				X	EJ1 – black, asphalt floor expansion joint material

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
Tom Martin	2/26/18	2/26/18			
(Printed) Tom Martin	Time: 1401	(Printed) 1410 V. Williamson	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

Proscience Analytical Services, Inc.

NT/7089

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857
TEM Bulk Chain of Custody Record

Date: 03/01/18

PO#: **C222165**
Client: TRC
Client Job#: 222165.5607.0710
Client Job Ref./Loc.: CT DOT- Putnam Maintenance Facility, Cold Storage Building, Putnam, CT
Relinquished by: C. Lemire- CLemire@trcsolutions.com
Received by: Paula Leavitt-Cole 3/2/18 9:15
Report to: E. Plimpton- EPlimpton@trcsolutions.com & SArienti@trcsolutions.com
Samplers Name: T. Martin

Analysis Type: Chatfield **EPA N.O.B** Qualitative

Turnaround Time: <12 Hour <24 Hour <48 Hour <3 Day **5 Day** Other:

				For Lab Use Only	
Client ID #	**Lab ID#**	**Description**	**Location**	**Acceptable on Receipt**	**Comments**
2	51960	Expansion Joint	See COC		

For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

TRC

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009
Supersede Previous Edition

LAB ID #. 53851

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME								
222165.5607.710	ConnDOT — ConnDOT Putnam Maintenance facility main bldg, 3 Industrial Park Rd, Putnam, CT		PLM:		8hr		24hr	X	48hr		3day
			TEM:		24hr	X	48hr		3day		5day

SIGNATURE: [signature]

INSPECTOR: Erik Plimpton

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
01	6/7/2019	09:43		X	B1 rear riv	X			✓		RIB - Rope boiler rib packing
02	6/7/2019	09:43		X	B1 rear rib at breech jnctn	X			✓		RIB - Rope boiler rib packing
03	6/7/2019	09:47		X	B1 rear small spy glass	X			✓		GSKT - Spy glass flange gasket
04	6/7/2019	09:47		X	B1 rear small spy gkass	X			✓		GSKT - Spy glass flange gasket

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
[signature]	6/7/19	[signature] 6/10/19			
(Printed) Erik Plimpton	Time: 1400	(Printed) C. Lemire 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: _____
Acceptable: Yes X No _____
Comments:

APPENDIX F

TRC 2017/2019 PLM LABORATORY ANALYSIS DATA

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
Results you can rely on

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0051432
Project #: 222165.5607.0710
Date Received: 10/17/2017
Date Analyzed: 10/18/2017

Site: Putnam Maintenance Facility

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
01	--	--	--	--	--	SNA	--
02	--	--	--	--	--	SNA	--
03	--	--	--	--	--	SNA	--
04	--	--	--	--	--	SNA	--
05	--	--	--	--	--	SNA	--
06	--	--	--	--	--	SNA	--
07	--	--	--	--	--	SNA	--
08	--	--	--	--	--	SNA	--
09	--	--	--	--	--	SNA	--
10	--	--	--	--	--	SNA	--
11	Dark Brown (caulk)	Yes	No	--	---	ND	None
12	Dark Brown (caulk)	Yes	No	--	---	ND	None
13	Grey (glaze)	Yes	No	--	---	ND	None
14	Grey (glaze)	Yes	No	--	---	ND	None
15	--	--	--	--	--	SNA	--
16	--	--	--	--	--	SNA	--
17	--	--	--	--	--	SNA	--

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
Results you can rely on

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
18	--	--	--	--	--	SNA	--
19	Brown (mastic)	No	Yes	1	---	ND	None
19	Cream/Grey (tile)	No	Yes	2	---	5%	Chrysotile
20	Brown (mastic)	No	Yes	1	---	ND	None
20	--	--	--	--	--	NA/PS	--
21	--	--	--	--	--	SNA	--
22	--	--	--	--	--	SNA	--
23	--	--	--	--	--	SNA	--
24	--	--	--	--	--	SNA	--
25	Black/Brown (tar/fiberboard)	Yes	No	--	60% cellulose	ND	None
26	Black/Brown (tar/fiberboard)	Yes	No	--	60% cellulose	ND	None
27	Black (tar)	Yes	No	--	---	ND	None
28	Black (tar)	Yes	No	--	---	ND	None
29	Black (tar vapor barrier)	Yes	No	--	60% cellulose	ND	None
30	Black (tar vapor barrier)	Yes	No	--	60% cellulose	ND	None
31	Black (vapor barrier)	Yes	No	--	---	ND	None
32	Black (vapor barrier)	Yes	No	--	---	ND	None

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
Results you can rely on

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type

Reporting limit- asbestos present at 1%
ND - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop
SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2018. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2018. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by: K. Williamson
Kathleen Williamson, Laboratory Manager

Reviewed by: Cathryn Lemire
Cathryn Lemire, Approved Signatory

Date Issued
10/18/2017

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
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BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0051959
Project #: 222165.5607.0710
Date Received: 02/26/2018
Date Analyzed: 03/01/2018

Site: Putnam Maintenance Facility, Putnam, CT

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
1	Grey/Black (asphalt/concrete debris)	Yes	No	--	---	ND	None
2	Grey/Black (asphalt/concrete debris)	Yes	No	--	---	ND	None

Reporting limit- asbestos present at 1%
ND - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop
SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2018. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2018. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

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Analyzed by: Cathryn Lemire, Laboratory Analyst

Reviewed by: Kathleen Williamson, Laboratory Manager

Date Issued 03/01/2018

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
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TRC
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BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0051960
Project #: 222165.5607.0710
Date Received: 02/26/2018
Date Analyzed: 03/01/2018

Site: Putnam Maintenance Facility, Cold Storage Building, Putnam, CT

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
1	Black (expansion joint)	Yes	No	--	---	ND	None
2	Black (expansion joint)	Yes	No	--	---	ND	None

Reporting limit- asbestos present at 1%
ND - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop
SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2018. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2018. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

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Analyzed by: Cathryn Lemire, Laboratory Analyst

Reviewed by: Kathleen Williamson, Laboratory Manager

Date Issued 03/01/2018

Industrial Hygiene Laboratory
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Windsor, CT 06095
(860) 298-6308

TRC
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BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0053851
Project #: 222165.5607.0710
Date Received: 06/10/2019
Date Analyzed: 06/11/2019

Site: Putnam Maintenance Facility, Main Building, Putnam, CT

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
01	Tan (boiler rib packing)	Yes	No	- -	99%	fibrous glass	ND	None
02	Tan (boiler rib packing)	Yes	No	- -	99%	fibrous glass	ND	None
03	Tan (flange gasket)	Yes	No	- -	99%	fibrous glass	ND	None
04	Tan (flange gasket)	Yes	No	- -	99%	fibrous glass	ND	None

Reporting limit- asbestos present at 1%
ND - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop
SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2019. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2019. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

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Analyzed by: K. Williamson
Kathleen Williamson, Laboratory Manager

Reviewed by: Cathryn Lemire
Cathryn Lemire, Approved Signatory

Date Issued
06/12/2019

APPENDIX G

TRC 2017/2019 TEM LABORATORY ANALYSIS DATA

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 – Fax 781-932-4857 – E-Mail general@proscience.net

Laboratory Report

Client Project #: Z22165.5607.0710
Client Reference: CT DOT - Putnam Maintenance Facility
PO #: C222165
Client #: 297
Client Name: TRC Environmental Corp. (CT)

Batch: NT 16832
Method: NOB
Date Received: 10/19/2017
Date Analyzed: 10/24/2017
Date of Report: 10/24/2017

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT127624	01	Exterior Door Frame Caulk		.3314	5.18	.00	.00	.00	10.37	.00	36.29	43.03	5.13	15.55	Yes	No
NT127625	02	Bay Door Column Caulk		.1699	4.10	.00	.00	.00	8.19	.00	28.67	27.37	31.67	12.29	Yes	No
NT127626	03	Bay Door Gasket Caulk		.2949	1.50	.00	.00	.00	.60	.00	27.91	24.86	45.13	2.10	Yes	No
NT127627	04	Exterior Louver Vent Caulk		.1424	.00	.00	.00	.00	.00	.00	34.34	54.00	11.66	ND	Yes	No
NT127628	05	Exterior Louver Vent Caulk		.1875	.00	.00	.00	.00	.92	.00	30.83	12.85	56.32	TR	Yes	No
NT127629	06	Exterior Wood Siding Caulk		.8660	.00	.00	.00	.00	.00	.00	.48	77.55	21.97	ND	Yes	No
NT127630	07	Interior Door Frame Caulk		.0895	.00	.00	.00	.00	.00	.00	12.74	31.06	56.20	ND	Yes	No
NT127631	08	Exhaust Fan Frame Caulk		.3074	.00	.00	.00	.00	.00	.00	43.95	46.39	9.66	ND	Yes	No
NT127632	09	Flashing Caulk		.9622	.00	.00	.00	.00	.00	.00	34.06	52.35	13.59	ND	Yes	No
NT127633	10	Counter Flashing Caulk		.2226	.00	.00	.00	.00	.00	.00	6.87	87.69	5.44	ND	Yes	No
NT127634	12	Dk Brown Rubbery Int/Ext Door Caulk		.2729	.00	.00	.00	.00	.00	.00	2.87	39.12	58.01	ND	Yes	No
NT127635	14	Gray Gummy Door Wdw Glaze		.1454	.00	.00	.00	.00	.00	.00	56.13	32.32	11.55	ND	Yes	No
NT127636	15	Floor Expansion Jt (Black Asphaltic)		.1590	.00	.00	.00	.00	.00	.00	14.21	58.24	27.55	ND	Yes	No
NT127637	16	Gutter Seam Sealant		.2676	.00	.00	.00	.00	.00	.00	18.36	71.14	10.50	ND	Yes	No
NT127638	17M	Brown Mastic		.0622	.00	.00	.00	.00	.00	.00	17.85	63.50	18.65	ND	Yes	No

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: 222165.5607.0710
Client Reference: CT DOT - Putnam Maintenance Facility
PO #: C222165
Client #: 297
Client Name: TRC Environmental Corp. (CT)

Batch: NT 16832
Method: NOB
Date Received: 10/19/2017
Date Analyzed: 10/24/2017
Date of Report: 10/24/2017

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT127639	17	12" Cream w/ Brown Streaks Floor Tile		.5334	.00	.00	.00	.00	.00	.00	2.26	8.29	89.45	ND	Yes	No
NT127640	18M	Brown Mastic		.0200	.00	.00	.00	.00	.00	.00	12.50	12.00	75.50	ND	Yes	No
NT127641	18	12" Cream w/Grey Streaks Floor Tile		.3294	.00	.00	.00	.00	.00	.00	8.08	11.20	80.72	ND	Yes	No
NT127642	20	Brown Mastic		.0116	.00	.00	.00	.00	.00	.00	8.62	65.52	25.86	ND	Yes	No
NT127643	21G	Tan Glue		.2040	.00	.00	.00	.00	.00	.00	15.54	40.05	44.41	ND	Yes	No
NT127644	21	4" Brown Cove Molding		.4789	.00	.00	.00	.00	.00	.00	.96	39.42	59.62	ND	Yes	No
NT127645	22	Black Asphalt Shingle		.2232	.00	.00	.00	.00	.00	.00	4.08	89.83	6.09	ND	Yes	No
NT127646	23	Black Asphalt Roll Roofing		.2685	.00	.00	.00	.00	.00	.00	22.20	56.76	21.04	ND	Yes	No
NT127647	24	Built-up Roofing		.3778	.00	.00	.00	.00	.00	.00	6.99	90.63	2.38	ND	Yes	No
NT127648	26	Roofing Tar		.1039	.00	.00	.00	.00	.00	.00	13.58	80.65	5.77	ND	Yes	No
NT127649	28	Roofing Tar		.1468	.00	.00	.00	.00	.00	.00	3.48	93.66	2.86	ND	Yes	No
NT127650	30	Tar Vapor Barrier		.2128	.00	.00	.00	.00	.00	.00	2.06	96.62	1.32	ND	Yes	No
NT127651	32	Black Thin Vapor Barrier Material		.2216	.00	.00	.00	.00	.00	.00	61.60	31.36	7.04	ND	Yes	No

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 – Fax 781-932-4857 – E-Mail general@proscience.net

Laboratory Report

Client Project #:	222165.5607.0710	**Batch:**	**NT 16832**
Client Reference:	CT DOT - Putnam Maintenance Facility	Method:	NOB
PO #:	C222165	Date Received:	10/19/2017
Client #:	297	Date Analyzed:	10/24/2017
Client Name:	TRC Environmental Corp. (CT)	Date of Report:	10/24/2017

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						

Comments:

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected

Aimee L. Connier

Aimee Connier, Analyst

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: 222165.5607.0710
Client Reference: CT DOT - Putnam Maintenance Facility, Putnam, CT
PO #: C222165
Client #: 297
Client Name: TRC Environmental Corp. (CT)

Batch: NT 17090
Method: NOB
Date Received: 3/2/2018
Date Analyzed: 3/9/2018
Date of Report: 3/9/2018

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT128916	2	Asphalt/ Concrete Debris		.6791	.00	.00	.00	.00	.00	.00	89.89	3.78	6.33	ND	Yes	No

Comments:

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected

Mark Derosier, Analyst

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
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Laboratory Report

Client Project #: 222165.5607.0710
Client Reference: CT DOT - Putnam Maintenance Facility, Cold Storage Building, Putnam, CT
PO #: C222165
Client #: 297
Client Name: TRC Environmental Corp. (CT)

Batch: **NT 17089**
Method: NOB
Date Received: 3/2/2018
Date Analyzed: 3/9/2018
Date of Report: 3/9/2018

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT128915	2	Black Asphalt Floor Expansion Joint Material		.1259	.00	.00	.00	.00	.00	.00	16.75	78.40	4.85	ND	Yes	No

Comments:

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected

Mark Derosier, Analyst

APPENDIX H

TRC LEAD PAINT XRF MEASUREMENT TABLE

Lead Based Paint Measurement Summary Table

Device(s):	Niton XLP301-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer
Site:	Putnam Maintenance Facility, 3 Industrial Park Road, Putnam, Connecticut
Project # :	222165-5607-0710
Date(s):	10/17/2017
Inspector:	David Heelon (CT License No. 002188)

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
1	0.0 calibration							0.0	0.0	1	2.31	10/17/2017 12:53
2	0.3 calibration							0.3	0.1	1	2.31	10/17/2017 12:53
3	3.5 calibration							3.6	0.3	1.28	5.28	10/17/2017 12:53
4	Bay 17	B	I-beam	Vertical	Metal	Grey	Intact	0.3	0.1	1.16	3.99	10/17/2017 12:57
5	Bay 17	B	Wood phone case	–	Wood	Grey	Intact	0.0	0.0	1	2.3	10/17/2017 12:59
6	Bay 17	D	Garage door	–	Metal	White	Intact	0.0	0.0	1.56	2.64	10/17/2017 13:03
7	Bay 14	–	Floor	Yellow stripe	Concrete	Yellow	Intact	0.0	0.0	3.96	5.96	10/17/2017 13:04
8	Bay 18	–	Sliding door guard	--	Metal	White	Intact	1.7	0.3	3.32	4.94	10/17/2017 13:08
9	Bay 18	–	Sliding door	–	Metal	White	Intact	5.8	1.0	2.1	5.62	10/17/2017 13:08
10	Bay 18	B	Door to exterior	--	Metal	Brown	Intact	0.0	0.0	1	1.98	10/17/2017 13:11
11	*VOID*			*VOID*			*VOID*			*VOID*		
12	Bay 20	B	Window	Casing	Metal	Grey	Intact	0.0	0.0	1.2	1.97	10/17/2017 13:13
13	Bay 20	D	Garage door	–	Metal	White	Intact	0.0	0.0	1.15	3.96	10/17/2017 13:14
14	Bay 20	D	Vertical column between garage	–	Concrete	Grey	Intact	0.3	0.2	1.29	1.99	10/17/2017 13:17
15	Bay 20	B	Lockers	–	Metal	Grey	Intact	0.0	0.0	1	3.97	10/17/2017 13:18
16	Bay 21	D	Garage door	–	Metal	White	Intact	0.0	0.0	1	1.96	10/17/2017 13:21
17	Bay 21	D	Vertical column between garage	–	Concrete	Grey	Intact	0.3	0.2	1.42	1.99	10/17/2017 13:22
18	Bay 24	C	Door to exterior	–	Metal	Brown	Intact	0.0	0.0	1	3.98	10/17/2017 13:24
19	Bay 24	C	Door to exterior	Casing	Metal	Brown	Intact	0.0	0.0	1	2.31	10/17/2017 13:24
20	Bay 24	B	Workbench	--	Wood	Grey	Defective	2.4	0.7	1.65	1.65	10/17/2017 13:26
21	Bay 23	B	Workbench	–	Wood	Grey	Defective	3.3	1.2	1.55	1.33	10/17/2017 13:27
22	Bay 21	A	Sliding door	–	Metal	Grey	Intact	8.7	2.7	1.89	2.97	10/17/2017 13:28
23	BAY 21	B	Sliding door	Guard	Metal	Grey	Intact	3.5	1.0	1.66	1.33	10/17/2017 13:29
24	BAY 21	C	Sliding door	Box for weight	Wood	Grey	Intact	1.3	0.3	1.34	2.66	10/17/2017 13:31
25	BAY 21	C	Sliding door	Box for weight	Wood	Grey	Intact	1.4	0.4	1.4	2.31	10/17/2017 13:31
26	Bay 20	B	Lockers	Door	Metal	Tan/Beige	Intact	0.0	0.0	1	3.62	10/17/2017 13:33
27	Bay 16	B	Window	Casing	Metal	Grey	Intact	0.0	0.0	1	3.95	10/17/2017 13:37
28	Boiler Room	B	Door to exterior	Casing	Metal	Brown	Intact	0.0	0.0	1	1.98	10/17/2017 13:41
29	Boiler Room	B	Wall	--	Block	Blue	Intact	8.9	1.8	2.43	3.3	10/17/2017 13:42
30	Boiler Room	B	Wall	--	Block	White	Intact	0.0	0.0	2.04	2.31	10/17/2017 13:42
31	Boiler Room	B	Wall	–	Block	White	Intact	0.0	0.0	3.88	5.91	10/17/2017 13:43
32	Boiler Room	C	Wall	Bottom of wall	Block	dark grey	Intact	8.6	1.8	2.53	3.32	10/17/2017 13:45

Lead paint includes paint found to contain **any detectable** amount of lead by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).

Side A = Street side; Sides B,C,D follow clockwise

Lead Based Paint Measurement Summary Table

Device(s):	Niton XLP301-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer
Site:	Putnam Maintenance Facility, 3 Industrial Park Road, Putnam, Connecticut
Project # :	222165-5607-0710
Date(s):	10/17/2017
Inspector:	David Heelon (CT License No. 002188)

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
33	Boiler Room	–	Floor	--	Concrete	Grey	Defective	0.0	0.0	1.43	4.95	10/17/2017 13:46
34	Boiler Room	–	Floor	Yellow stripe	Concrete	Yellow	Defective	2.4	0.7	3.7	3.29	10/17/2017 13:47
35	Boiler Room	--	Compressor	–	Metal	Grey	Intact	0.0	0.0	1	3.95	10/17/2017 13:48
36	Boiler Room	D	Wall panel	–	Wood	Grey	Intact	3.3	1.0	1.36	3.31	10/17/2017 13:50
37	Boiler Room	D	Wall panel	–	Wood	Black	Intact	0.0	0.0	1	1.98	10/17/2017 13:51
38	Boiler Room	C	Fire door	–	Metal	Brown	Intact	9.3	2.7	1.94	2.97	10/17/2017 13:53
39	Boiler Room	C	Fire door	Casing	Metal	Brown	Intact	0.4	0.2	1.64	1.96	10/17/2017 13:53
40	Boiler Room	B	Office door	–	Metal	Brown	Intact	0.0	0.0	1	3.63	10/17/2017 13:55
41	Boiler Room	B	Office door	Casing	Metal	Brown	Intact	0.1	0.0	1.72	3.96	10/17/2017 13:56
42	Bay 7	A	Wall	--	Sheetrock	Blue	Intact	0.0	0.0	1	4.29	10/17/2017 13:58
43	Bay 7	A	Wall	–	Sheetrock	White	Intact	0.0	0.5	8.33	3.97	10/17/2017 13:58
44	Bay 7 Break area	–	Floor	–	Concrete	Grey	Defective	0.0	0.0	1.14	4.27	10/17/2017 14:00
45	Bay 7 Break area	C	Message board	--	Panel	Green	Intact	1.6	0.2	1.14	3.96	10/17/2017 14:01
46	Bay 7 Break area	C	Fire blanket box	--	Metal	Red	Intact	0.3	0.1	1	3.96	10/17/2017 14:03
47	Bay 8	C	Wall	–	Block	Blue	Intact	0.0	0.0	1.72	5.95	10/17/2017 14:05
48	Bay 8	C	Wall	–	Block	White	Intact	0.0	0.0	4.65	5.95	10/17/2017 14:05
49	Bay 8	B	Sliding door	--	Metal	Grey	Intact	9.4	2.8	1.87	2.99	10/17/2017 14:07
50	Bay 8	A	Steel beams	--	Metal	Grey	Intact	0.0	0.0	1	3.95	10/17/2017 14:09
51	Bay 8	C	Sliding door	Frame	Metal	Grey	Intact	0.4	0.1	4.06	3.97	10/17/2017 14:11
52	0.0 calibration							0.0	0.0	1.35	3.96	10/17/2017 14:13
53	0.7 calibration							0.6	0.1	1	4.31	10/17/2017 14:14
54	3.5 calibration							3.7	0.2	1.31	7.6	10/17/2017 14:14

Lead paint includes paint found to contain **any detectable** amount of lead by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).

Side A = Street side; Sides B,C,D follow clockwise

APPENDIX I

COMPOSITE BUILDING MATERIAL WASTE CHARACTERIZATION DATA

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Mr. Erik Plimpton
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report
CET# 7120516

Report Date:December 21, 2017
Project: DOT
Project Number: Putnam MF
PO Number: 222165.5607.0710

Connecticut Laboratory Certificate: PH 0116
Massachusetts laboratory Certificate: M-CT903

New York NELAP Accreditation: 11982
Rhode Island Certification: 199

SAMPLE SUMMARY

The sample(s) were received at 24.5°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
01	7120516-01	Solid	12/15/2017 16:00	12/18/2017

Analyte: TCLP Lead [EPA 6020A] **Analyst: CED**

Prep: EPA 3005A-1311 **Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
7120516-01	01	0.36	0.013	mg/L	1	B7L2023	12/20/2017	12/20/2017 17:00	

CET # : 7120516
Project: DOT
Project Number: Putnam MF

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Timothy Fusco

Project Manager

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
RL is the Reporting Limit.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

CET # : 7120516
Project: DOT
Project Number: Putnam MF

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020A in Water	
Lead	NY,CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2018
NY	New York Certification (NELAC)	11982	04/01/2018

7120516

TRC
21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

Edition: November 2013
Supersede Previous Edition

TCLP CHAIN OF CUSTODY

LAB ID #.

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
222165.5607.0710	Putnam MF - DOT		TCLP ☐ 24hr ☐ 48hr ☒ 3day ☐ 5day ☐ 24hr ☐ 48hr ☐ 3day ☐ 5day

INSPECTOR: (SIGNATURE) Eric Gitberg (PRINTED) Eric Gitberg + Jon Gedik

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb		MATERIAL
01	12/15/17	1600	X		Putnam DOT MF Lifting				X			CMU, Brick, Sheetrock, Wood

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
Eric Gitberg	12/15/17	1225 12-18-17		12-18-17	
(Printed) Eric Gitberg	Time: 1700	(Printed) Roberto Peralmont	(Printed) Roberto Peralmont	Time: 1610	(Printed)
Results to eplimpton@trcsolutions.com TCLP N 24-50					Page 1 of 1

APPENDIX J

PCB CAULK LABORATORY ANALYSIS DATA

PHOENIX
Environmental Laboratories, Inc.

Thursday, October 26, 2017

Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: CT DOT PUTNAM MF
Sample ID#s: BZ23291 - BZ23323

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	10:45
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23291

Project ID: CT DOT PUTNAM MF
Client ID: C1-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	BXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1254	0.7	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	63		%	2	10/20/17	AW	30 - 150 %
% TCMX	55		%	2	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C1-A

Phoenix I.D.: BZ23291

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	10:50
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23292

Project ID: CT DOT PUTNAM MF
Client ID: C1-B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	BX/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.71	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1221	ND	0.71	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1232	ND	0.71	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1242	ND	0.71	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1248	ND	0.71	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1254	0.88	0.71	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1260	ND	0.71	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1262	ND	0.71	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1268	ND	0.71	mg/Kg	5	10/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	96		%	5	10/19/17	AW	30 - 150 %
% TCMX	88		%	5	10/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C1-B

Phoenix I.D.: BZ23292

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 646-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	10:55
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23293

Project ID: CT DOT PUTNAM MF
Client ID: C1-C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	BXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.78	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1221	ND	0.78	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1232	ND	0.78	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1242	ND	0.78	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1248	ND	0.78	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1254	1	0.78	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1260	ND	0.78	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1262	ND	0.78	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1268	ND	0.78	mg/Kg	5	10/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	90		%	5	10/19/17	AW	30 - 150 %
% TCMX	82		%	5	10/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C1-C

Phoenix I.D.: BZ23293

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	11:00
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23294

Project ID: CT DOT PUTNAM MF
Client ID: C2-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	BX/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1254	0.93	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	85		%	2	10/20/17	AW	30 - 150 %
% TCMX	69		%	2	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C2-A

Phoenix I.D.: BZ23294

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
687 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	11:00
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23295

Project ID: CT DOT PUTNAM MF
Client ID: C2-B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	BXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1221	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1232	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1242	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1248	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1254	0.62	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1260	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1262	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1268	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	76		%	2	10/20/17	AW	30 - 150 %
% TCMX	70		%	2	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C2-B

Phoenix I.D.: BZ23295

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	11:07
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23296

Project ID: CT DOT PUTNAM MF
Client ID: C2-C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	BXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1254	1.2	0.33	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	2	10/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	79		%	2	10/19/17	AW	30 - 150 %
% TCMX	74		%	2	10/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C2-C

Phoenix I.D.: BZ23296

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	11:30
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23297

Project ID: CT DOT PUTNAM MF
Client ID: C3-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/20/17	X/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.82	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1221	ND	0.82	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1232	ND	0.82	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1242	ND	0.82	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1248	ND	0.82	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1254	ND	0.82	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1260	ND	0.82	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1262	ND	0.82	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1268	ND	0.82	mg/Kg	5	10/23/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	86		%	5	10/23/17	AW	30 - 150 %
% TCMX	62		%	5	10/23/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C3-A

Phoenix I.D.: BZ23297

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
October 28, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	11:48
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23298

Project ID: CT DOT PUTNAM MF
Client ID: C4-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CX/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1221	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1232	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1242	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1248	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1254	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1260	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1262	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1268	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	63		%	5	10/20/17	AW	30 - 150 %
% TCMX	50		%	5	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C4-A

Phoenix I.D.: BZ23298

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	11:54
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23299

Project ID: CT DOT PUTNAM MF
Client ID: C4-B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.32	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1221	ND	0.32	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1232	ND	0.32	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1242	ND	0.32	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1248	ND	0.32	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1254	ND	0.32	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1260	ND	0.32	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1262	ND	0.32	mg/Kg	2	10/19/17	AW	SW8082A
PCB-1268	ND	0.32	mg/Kg	2	10/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	69		%	2	10/19/17	AW	30 - 150 %
% TCMX	54		%	2	10/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF

Client ID: C4-B

Phoenix I.D.: BZ23299

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lea, Project Manager

PHOENIX

Environmental Laboratories, Inc.
687 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	11:59
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23300

Project ID: CT DOT PUTNAM MF
Client ID: C4-C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.75	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1221	ND	0.75	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1232	ND	0.75	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1242	ND	0.75	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1248	ND	0.75	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1254	ND	0.75	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1260	ND	0.75	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1262	ND	0.75	mg/Kg	5	10/19/17	AW	SW8082A
PCB-1268	ND	0.75	mg/Kg	5	10/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	67		%	5	10/19/17	AW	30 - 150 %
% TCMX	57		%	5	10/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C4-C

Phoenix I.D.: BZ23300

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	12:10
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23301

Project ID: CT DOT PUTNAM MF
Client ID: C5-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CX/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	83		%	2	10/20/17	AW	30 - 150 %
% TCMX	85		%	2	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C5-A

Phoenix I.D.: BZ23301

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	11:50
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23302

Project ID: CT DOT PUTNAM MF
Client ID: C5-B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CX/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	68		%	2	10/20/17	AW	30 - 150 %
% TCMX	47		%	2	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C5-B

Phoenix I.D.: BZ23302

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller

Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	12:00
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23303

Project ID: CT DOT PUTNAM MF
Client ID: C5-C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1221	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1232	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1242	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1248	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1254	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1260	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1262	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1268	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	44		%	2	10/20/17	AW	30 - 150 %
% TCMX	42		%	2	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C5-C

Phoenix I.D.: BZ23303

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	12:15
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23304

Project ID: CT DOT PUTNAM MF
Client ID: C6-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.46	mg/Kg	1	10/20/17	AW	SW8082A
PCB-1221	ND	0.46	mg/Kg	1	10/20/17	AW	SW8082A
PCB-1232	ND	0.46	mg/Kg	1	10/20/17	AW	SW8082A
PCB-1242	ND	0.46	mg/Kg	1	10/20/17	AW	SW8082A
PCB-1248	ND	0.46	mg/Kg	1	10/20/17	AW	SW8082A
PCB-1254	ND	0.46	mg/Kg	1	10/20/17	AW	SW8082A
PCB-1260	ND	0.46	mg/Kg	1	10/20/17	AW	SW8082A
PCB-1262	ND	0.46	mg/Kg	1	10/20/17	AW	SW8082A
PCB-1268	ND	0.46	mg/Kg	1	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	68		%	1	10/20/17	AW	30 - 150 %
% TCMX	63		%	1	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C6-A

Phoenix I.D.: BZ23304

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	14:05
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23305

Project ID: CT DOT PUTNAM MF
Client ID: C7-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CXM	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	2	10/21/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	2	10/21/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	2	10/21/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	2	10/21/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	2	10/21/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	2	10/21/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	2	10/21/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	2	10/21/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	2	10/21/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	45		%	2	10/21/17	AW	30 - 150 %
% TCMX	34		%	2	10/21/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C7-A

Phoenix I.D.: BZ23305

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an "as received" basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	13:52
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23306

Project ID: CT DOT PUTNAM MF
Client ID: C8-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1221	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1232	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1242	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1248	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1254	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1260	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1262	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1268	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	85		%	2	10/20/17	AW	30 - 150 %
% TCMX	68		%	2	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C8-A

Phoenix I.D.: BZ23306

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 28, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	13:18
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23307

Project ID: CT DOT PUTNAM MF
Client ID: C9-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1221	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1232	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1242	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1248	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1254	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1260	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1262	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1268	ND	0.32	mg/Kg	2	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	40		%	2	10/20/17	AW	30 - 150 %
% TCMX	37		%	2	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C9-A

Phoenix I.D.: BZ23307

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	13:26
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23308

Project ID: CT DOT PUTNAM MF
Client ID: C9-B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	85		%	2	10/20/17	AW	30 - 150 %
% TCMX	81		%	2	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C9-B

Phoenix I.D.: BZ23308

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	13:35
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23309

Project ID: CT DOT PUTNAM MF
Client ID: C9-C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CX/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1221	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1232	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1242	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1248	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1254	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1260	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1262	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1268	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	59		%	5	10/21/17	AW	30 - 150 %
% TCMX	47		%	5	10/21/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C9-C

Phoenix I.D.: BZ23309

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	13:37
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23310

Project ID: CT DOT PUTNAM MF
Client ID: C10-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.77	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1221	ND	0.77	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1232	ND	0.77	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1242	ND	0.77	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1248	ND	0.77	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1254	ND	0.77	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1260	ND	0.77	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1262	ND	0.77	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1268	ND	0.77	mg/Kg	5	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	93		%	5	10/20/17	AW	30 - 150 %
% TCMX	81		%	5	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C10-A

Phoenix I.D.: BZ23310

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	14:18
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23311

Project ID: CT DOT PUTNAM MF
Client ID: C11-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.8	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1221	ND	0.8	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1232	ND	0.8	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1242	ND	0.8	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1248	ND	0.8	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1254	ND	0.8	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1260	ND	0.8	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1262	ND	0.8	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1268	ND	0.8	mg/Kg	5	10/21/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	110		%	5	10/21/17	AW	30 - 150 %
% TCMX	88		%	5	10/21/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF

Client ID: C11-A

Phoenix I.D.: BZ23311

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	14:55
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23312

Project ID: CT DOT PUTNAM MF
Client ID: C-12-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/23/17	X/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.83	mg/Kg	5	10/24/17	AW	SW8082A
PCB-1221	ND	0.83	mg/Kg	5	10/24/17	AW	SW8082A
PCB-1232	ND	0.83	mg/Kg	5	10/24/17	AW	SW8082A
PCB-1242	ND	0.83	mg/Kg	5	10/24/17	AW	SW8082A
PCB-1248	ND	0.83	mg/Kg	5	10/24/17	AW	SW8082A
PCB-1254	ND	0.83	mg/Kg	5	10/24/17	AW	SW8082A
PCB-1260	ND	0.83	mg/Kg	5	10/24/17	AW	SW8082A
PCB-1262	ND	0.83	mg/Kg	5	10/24/17	AW	SW8082A
PCB-1268	ND	0.83	mg/Kg	5	10/24/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	98		%	5	10/24/17	AW	30 - 150 %
% TCMX	79		%	5	10/24/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C-12-A

Phoenix I.D.: BZ23312

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	14:50
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23313

Project ID: CT DOT PUTNAM MF
Client ID: C12-B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	2	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	51		%	2	10/20/17	AW	30 - 150 %
% TCMX	38		%	2	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C12-B

Phoenix I.D.: BZ23313

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	14:55
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23314

Project ID: CT DOT PUTNAM MF
Client ID: C12-C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CX/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.8	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1221	ND	0.8	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1232	ND	0.8	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1242	ND	0.8	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1248	ND	0.8	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1254	ND	0.8	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1260	ND	0.8	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1262	ND	0.8	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1268	ND	0.8	mg/Kg	5	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	30		%	5	10/20/17	AW	30 - 150 %
% TCMX	34		%	5	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C12-C

Phoenix I.D.: BZ23314

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 646-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	11:50
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23315

Project ID: CT DOT PUTNAM MF
Client ID: C13-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CXI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1221	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1232	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1242	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1248	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1254	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1260	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1262	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1268	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	68		%	5	10/20/17	AW	30 - 150 %
% TCMX	57		%	5	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C13-A

Phoenix I.D.: BZ23315

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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October 26, 2017
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Tel. (860) 646-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	11:39
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23316

Project ID: CT DOT PUTNAM MF
Client ID: C13-B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/18/17	CX/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.79	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1221	ND	0.79	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1232	ND	0.79	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1242	ND	0.79	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1248	ND	0.79	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1254	ND	0.79	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1260	ND	0.79	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1262	ND	0.79	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1268	ND	0.79	mg/Kg	5	10/21/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	70		%	5	10/21/17	AW	30 - 150 %
% TCMX	68		%	5	10/21/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: C13-B

Phoenix I.D.: BZ23316

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	13:09
Location Code:	TRC-PCB	Received by:	LB	10/16/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23317

Project ID: CT DOT PUTNAM MF
Client ID: WG1-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/19/17	X/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.74	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1221	ND	0.74	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1232	ND	0.74	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1242	ND	0.74	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1248	ND	0.74	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1254	ND	0.74	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1260	ND	0.74	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1262	ND	0.74	mg/Kg	5	10/23/17	AW	SW8082A
PCB-1268	ND	0.74	mg/Kg	5	10/23/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	82		%	5	10/23/17	AW	30 - 150 %
% TCMX	70		%	5	10/23/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: WG1-A

Phoenix I.D.: BZ23317

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

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Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	13:12
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23318

Project ID: CT DOT PUTNAM MF
Client ID: WG1-B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/19/17	XI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1221	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1232	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1242	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1248	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1254	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1260	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1262	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1268	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	80		%	5	10/20/17	AW	30 - 150 %
% TCMX	81		%	5	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: WG1-B

Phoenix I.D.: BZ23318

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
887 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	13:15
Location Code:	TRC-PCB	Received by:	LB	10/16/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23319

Project ID: CT DOT PUTNAM MF
Client ID: WG1-C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/19/17	X/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.83	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1221	ND	0.83	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1232	ND	0.83	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1242	ND	0.83	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1248	ND	0.83	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1254	ND	0.83	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1260	ND	0.83	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1262	ND	0.83	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1268	ND	0.83	mg/Kg	5	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	88		%	5	10/20/17	AW	30 - 150 %
% TCMX	91		%	5	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: WG1-C

Phoenix I.D.: BZ23319

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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October 26, 2017
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	13:05
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23320

Project ID: CT DOT PUTNAM MF
Client ID: WG3-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/19/17	X/I	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.82	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1221	ND	0.82	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1232	ND	0.82	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1242	ND	0.82	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1248	ND	0.82	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1254	ND	0.82	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1260	ND	0.82	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1262	ND	0.82	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1268	ND	0.82	mg/Kg	5	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	75		%	5	10/20/17	AW	30 - 150 %
% TCMX	71		%	5	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: WG3-A

Phoenix I.D.: BZ23320

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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October 26, 2017
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Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	13:10
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23321

Project ID: CT DOT PUTNAM MF
Client ID: WG3-B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/19/17	XI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1221	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1232	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1242	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1248	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1254	1	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1260	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1262	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
PCB-1268	ND	0.79	mg/Kg	5	10/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	85		%	5	10/20/17	AW	30 - 150 %
% TCMX	85		%	5	10/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: WG3-B

Phoenix I.D.: BZ23321

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
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Tel. (860) 646-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	13:15
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23322

Project ID: CT DOT PUTNAM MF
Client ID: WG3-C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/19/17	XI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.81	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1221	ND	0.81	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1232	ND	0.81	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1242	ND	0.81	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1248	ND	0.81	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1254	ND	0.81	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1260	ND	0.81	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1262	ND	0.81	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1268	ND	0.81	mg/Kg	5	10/21/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	93		%	5	10/21/17	AW	30 - 150 %
% TCMX	91		%	5	10/21/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: WG3-C

Phoenix I.D.: BZ23322

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 28, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
687 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 26, 2017

FOR: Attn: Mr. Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		10/13/17	13:55
Location Code:	TRC-PCB	Received by:	LB	10/18/17	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ23291
Phoenix ID: BZ23323

Project ID: CT DOT PUTNAM MF
Client ID: DWG1-A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Caulk Extraction for PCB	Completed				10/19/17	XI	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1221	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1232	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1242	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1248	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1254	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1260	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1262	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
PCB-1268	ND	0.72	mg/Kg	5	10/21/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	53		%	5	10/21/17	AW	30 - 150 %
% TCMX	37		%	5	10/21/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: DWG1-A

Phoenix I.D.: BZ23323

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

PCB Comment:
For PCBs, in order to reach the desired RL, multiple cleanup steps were performed. The extract was cleaned up with a combination of sulfuric acid, potassium permanganate, copper powder and additional florisil.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 26, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

October 26, 2017

QA/QC Data

SDG I.D.: GBZ23291

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 406308 (mg/Kg), QC Sample No: BZ21816 10X (BZ23317, BZ23318, BZ23319, BZ23320, BZ23321, BZ23322, BZ23323)										
Polychlorinated Biphenyls - Bulk										
PCB-1016	ND	0.17	85	91	6.8				40 - 140	30
PCB-1221	ND	0.17							40 - 140	30
PCB-1232	ND	0.17							40 - 140	30
PCB-1242	ND	0.17							40 - 140	30
PCB-1248	ND	0.17							40 - 140	30
PCB-1254	ND	0.17							40 - 140	30
PCB-1260	ND	0.17	102	109	6.6				40 - 140	30
PCB-1262	ND	0.17							40 - 140	30
PCB-1268	ND	0.17							40 - 140	30
% DCBP (Surrogate Rec)	116	%	119	126	5.7				30 - 150	30
% TCMX (Surrogate Rec)	81	%	79	91	14.1				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 406158 (mg/Kg), QC Sample No: BZ23278 10X (BZ23291, BZ23292, BZ23293, BZ23294, BZ23295, BZ23296)										
Polychlorinated Biphenyls - Bulk										
PCB-1016	ND	0.17	89	96	7.6				40 - 140	30
PCB-1221	ND	0.17							40 - 140	30
PCB-1232	ND	0.17							40 - 140	30
PCB-1242	ND	0.17							40 - 140	30
PCB-1248	ND	0.17							40 - 140	30
PCB-1254	ND	0.17							40 - 140	30
PCB-1260	ND	0.17	97	92	5.3				40 - 140	30
PCB-1262	ND	0.17							40 - 140	30
PCB-1268	ND	0.17							40 - 140	30
% DCBP (Surrogate Rec)	92	%	100	96	4.1				30 - 150	30
% TCMX (Surrogate Rec)	91	%	104	100	3.9				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 406175 (mg/Kg), QC Sample No: BZ23297 10X (BZ23298, BZ23299, BZ23300, BZ23301, BZ23302, BZ23303, BZ23304, BZ23305, BZ23306, BZ23307, BZ23308, BZ23309, BZ23310, BZ23311, BZ23313, BZ23314, BZ23315, BZ23316)										
Polychlorinated Biphenyls - Bulk										
PCB-1016	ND	0.17	89	91	2.2				40 - 140	30
PCB-1221	ND	0.17							40 - 140	30
PCB-1232	ND	0.17							40 - 140	30
PCB-1242	ND	0.17							40 - 140	30
PCB-1248	ND	0.17							40 - 140	30
PCB-1254	ND	0.17							40 - 140	30
PCB-1260	ND	0.17	87	87	0.0				40 - 140	30
PCB-1262	ND	0.17							40 - 140	30

QA/QC Data

SDG I.D.: GBZ23291

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
PCB-1268	ND	0.17							40 - 140	30
% DCBP (Surrogate Rec)	97	%	97	100	3.0				30 - 150	30
% TCMX (Surrogate Rec)	83	%	80	89	10.7				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 406648 (mg/Kg), QC Sample No: BZ23312 10X (BZ23312)

Polychlorinated Biphenyls - Bulk

PCB-1016	ND	0.17	83	85	2.4				40 - 140	30
PCB-1221	ND	0.17							40 - 140	30
PCB-1232	ND	0.17							40 - 140	30
PCB-1242	ND	0.17							40 - 140	30
PCB-1248	ND	0.17							40 - 140	30
PCB-1254	ND	0.17							40 - 140	30
PCB-1260	ND	0.17	87	89	2.3				40 - 140	30
PCB-1262	ND	0.17							40 - 140	30
PCB-1268	ND	0.17							40 - 140	30
% DCBP (Surrogate Rec)	104	%	98	100	2.0				30 - 150	30
% TCMX (Surrogate Rec)	75	%	82	87	5.9				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 406502 (mg/Kg), QC Sample No: BZ24497 10X (BZ23297)

Polychlorinated Biphenyls - Bulk

PCB-1016	ND	0.17	91	92	1.1				40 - 140	30
PCB-1221	ND	0.17							40 - 140	30
PCB-1232	ND	0.17							40 - 140	30
PCB-1242	ND	0.17							40 - 140	30
PCB-1248	ND	0.17							40 - 140	30
PCB-1254	ND	0.17							40 - 140	30
PCB-1260	ND	0.17	105	109	3.7				40 - 140	30
PCB-1262	ND	0.17							40 - 140	30
PCB-1268	ND	0.17							40 - 140	30
% DCBP (Surrogate Rec)	115	%	117	120	2.5				30 - 150	30
% TCMX (Surrogate Rec)	93	%	97	96	1.0				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
October 26, 2017

Thursday, October 26, 2017

Criteria: None

State: CT

Sample Criteria Exceedances Report

GBZ23291 - TRC-PCB

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BZ23296	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	1200	330	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** TRC Environmental Corp.

Project Location: CT DOT PUTNAM MF ***Project Number:***

Laboratory Sample ID(s): BZ23291-BZ23323 ***Sampling Date(s):*** 10/13/2017

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8082

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☐ Yes ☑ No ☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Thursday, October 26, 2017

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 646-1102 Fax (860) 646-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

October 26, 2017

SDG I.D.: GBZ23291

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD24 10/24/17-1 Adam Werner, Chemist 10/24/17

BZ23312

The initial calibration (PC1023AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1023BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD29 10/19/17-1 Adam Werner, Chemist 10/19/17

BZ23302, BZ23303, BZ23304, BZ23306, BZ23310, BZ23314, BZ23315

The initial calibration (PC1018AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1018BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD3 10/23/17-1 Adam Werner, Chemist 10/23/17

BZ23297

The initial calibration (PC1017AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1017BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD48 10/19/17-1 Adam Werner, Chemist 10/19/17

BZ23292, BZ23293, BZ23294, BZ23295, BZ23296, BZ23298, BZ23299, BZ23300, BZ23301

The initial calibration (PC1017AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1017BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD5 10/20/17-1 Adam Werner, Chemist 10/20/17

BZ23318, BZ23319, BZ23320, BZ23321, BZ23322, BZ23323

The initial calibration (PC922AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC922BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD6 10/19/17-1 Adam Werner, Chemist 10/19/17

BZ23291

The initial calibration (PC906AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC906BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD6 10/20/17-1 Adam Werner, Chemist 10/20/17

BZ23305, BZ23307, BZ23308, BZ23309, BZ23311, BZ23313, BZ23316

The initial calibration (PC906AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC906BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD6 10/23/17-1 Adam Werner, Chemist 10/23/17

BZ23317

The initial calibration (PC906AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC906BI) RSD for the compound list was less than 20% except for the following compounds: None.

PHOENIX

Environmental Laboratories, Inc.
667 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

October 26, 2017

SDG I.D.: GBZ23291

PCB Narration

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 406168 (BZ23278)

BZ23291, BZ23292, BZ23293, BZ23294, BZ23295, BZ23296

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Batch 406175 (BZ23297)

BZ23298, BZ23299, BZ23300, BZ23301, BZ23302, BZ23303, BZ23304, BZ23305, BZ23306, BZ23307, BZ23308, BZ23309, BZ23310, BZ23311, BZ23313, BZ23314, BZ23315, BZ23316

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Batch 406308 (BZ21816)

BZ23317, BZ23318, BZ23319, BZ23320, BZ23321, BZ23322, BZ23323

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Batch 406502 (BZ24497)

BZ23297

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Batch 406648 (BZ23312)

BZ23312

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Temperature Narration

The samples were received at 4.1C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Coolant: IPK | | ICE | | No | |

Temp 41 °C Pg of

CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:
☐ Fax #: WOID
☒ Email: eplimpton@trcsolutions.com

Customer: TRC
Address: 21 Griffin Rd N
Windsor, CT 06095

Project: CT DOT Putnam MF
Report to: Erik Plimpton
Invoice to: Same
Phone #: 860-298-9692
Fax #:

Project P.O: 222165.5607

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 10/13/17

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request: 8082/8540

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8082/8540	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (4) oz [ ] oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria (as is)	Bacteria (within)	
23291	C1-A	SD	10/13/17	1045	X		X									ols men's bath by office
23292	C1-B			1050												Bay 19
23293	C1-C			1055												Bay 24
23294	C2-A			1100												Store Rm Exit Door
23295	C2-B			1100												Bay 18 Exit Door
23296	C2-C			1107												" " " "
23297	C3-A			1130												Store Rm Roll-Up Door
23298	C4-A			1148												Bay 8 Roll-Up
23299	C4-B			1154												Bay 9 Roll-Up
23300	C4-C			1159												Bay 10 Roll-Up
23301	C5-A			1210												Bay 22 Roll-Up
23302	C5-B			1150												Bay 14 Roll-Up

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	10/14/17	1025
[signature]	TFDAM	10/13/17	1030

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA oSMART
☐ Other

State where samples were collected: CT

Data Format
☐ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

Coolant: IPK | | ICE | | No | |

CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 4.1°C Pg of

Data Delivery:
☐ Fax #: WOID
☒ Email: See page 1

Customer: TRC
Address: 21 Griffin Rd N.
Windsor, CT 06095

Project: CT DOT Putnam MF
Report to: E. Plimpton
Invoice to: Same
Phone #:
Fax #:

Project P.O: 222165.5607

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 10/13/17

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request: 8082 | 3540

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8082	3540	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (4) oz ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria (as is)	Bacteria (w/thio)	
23303	C5-C	SD	10/13/17	1200	X			X									Bay 17 Roll-Up
23304	C6-A			1215													Generator Shack Lower
23305	C7-A			1405													Bay 12 Lower Vent
23306	C8-A			1352													Pho Bays 7+8 m Wd
23307	C9-A			1318													Bay 18 Exit Door
23308	C9-B			1326													Bay 1 Exit Door
23309	C9-C			1335													Bay 17 Roll-Up
23310	C10-A			1337													Bay 8 Exhaust Fan
23311	C11-A			1418													Generator Shack Roof
23312	C12-A			1455													Roof Junction Above Sms
23313	C12-B			1450													" " " "
23314	C12-C			1455													" " " "

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	10/18/17	1025
[signature]	TIDM	10-18-17	10:30

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

Data Format
☐ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

State where samples were collected: CT

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax: (860) 645-0823
Client Services (860) 645-8726

Coolant: Ice [ ] Blue Ice [ ] None [ ]
Temp 1.1 °C Pg of

Data Delivery:
[ ] Fax #: WOIP
[x] Email: see page 1

Customer: TRC
Address: 21 Griffin Rd N.
Windsor, CT 06095

Project: CT DOT Putnam MF
Report to: E. Plimpton
Invoice to: same
Phone #:
Fax #:

Project P.O: 220165.5607

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 10/13/17

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8082/3540	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (4) oz ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria (as is)	Bacteria (w/thio)	
23315	C13-A	SD	10/13/17	1150	X							X				Hall 2 Exit Door
23316	C13-B			1139												Bay 24 Exit Door
23317	WG1-A			1309												Bay 18 wdw
23318	WG1-B			1312												Bay 21 wdw
23319	WG1-C			1315												Bay 24 wdw
23320	WG3-A			1305												Bay 2 wdw
23321	WG3-B			1310												Bay 11 wdw
23322	WG3-C			1315												Bay 12 wdw
23323	DWG1-A			1355												Bay 1 Exit Door

Relinquished by:	Accepted by:	Date:	Time:
[signature]		10/14/17	1025
[signature]	TTROWN	10-13-17	1030

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[x] Standard
[ ] Other
* SURCHARGE APPLIES

RI:
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT:
[x] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA:
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

Data Format:
[ ] Excel
[x] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package:
[ ] Tier II Checklist
[ ] Full Data Package*
[x] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

State where samples were collected: CT

PHOENIX
Environmental Laboratories, Inc.

Monday, March 19, 2018

Attn:
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: CTDOT-PUTNAM MAINTENANCE
Sample ID#s: CA01939 - CA01941

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

SDG Comments

March 19, 2018

SDG I.D.: GCA01939

Sample CA01939 was received past hold time for Extraction for PCB (SW3540C).
Sample CA01940 was received past hold time for Extraction for PCB (SW3540C).
Sample CA01941 was received past hold time for Extraction for PCB (SW3540C).

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 19, 2018

FOR: Attn:
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		02/26/18	9:44
Location Code:	TRC-PCB	Received by:	SW	03/14/18	13:47
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165-5607-0710				

Laboratory Data

SDG ID: GCA01939
Phoenix ID: CA01939

Project ID: CTDOT-PUTNAM MAINTENANCE
Client ID: 01A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				03/16/18	X/Q	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	6.4	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1221	ND	6.4	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1232	ND	6.4	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1242	ND	6.4	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1248	ND	6.4	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1254	50	6.4	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1260	ND	6.4	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1262	ND	6.4	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1268	ND	6.4	mg/Kg	20	03/19/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	47		%	20	03/19/18	AW	30 - 150 %
% TCMX	42		%	20	03/19/18	AW	30 - 150 %

Project ID: CTDOT-PUTNAM MAINTENANCE
Client ID: 01A

Phoenix I.D.: CA01939

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received'' basis, and are not corrected for dry weight.

PCB Comment:
For PCBs, in order to reach the desired RL, multiple cleanup steps were performed. The extract was cleaned up with a combination of sulfuric acid, potassium permanganate, copper powder and additional florisil.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
March 19, 2018
Reviewed and Released by: Bobbi Alcisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 19, 2018

FOR: Attn:
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		02/26/18	9:42
Location Code:	TRC-PCB	Received by:	SW	03/14/18	13:47
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165-5607-0710				

Laboratory Data

SDG ID: GCA01939
Phoenix ID: CA01940

Project ID: CTDOT-PUTNAM MAINTENANCE
Client ID: 01B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				03/16/18	X/Q	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3.3	mg/Kg	10	03/19/18	AW	SW8082A
PCB-1221	ND	3.3	mg/Kg	10	03/19/18	AW	SW8082A
PCB-1232	ND	3.3	mg/Kg	10	03/19/18	AW	SW8082A
PCB-1242	ND	3.3	mg/Kg	10	03/19/18	AW	SW8082A
PCB-1248	ND	3.3	mg/Kg	10	03/19/18	AW	SW8082A
PCB-1254	22	3.3	mg/Kg	10	03/19/18	AW	SW8082A
PCB-1260	ND	3.3	mg/Kg	10	03/19/18	AW	SW8082A
PCB-1262	ND	3.3	mg/Kg	10	03/19/18	AW	SW8082A
PCB-1268	ND	3.3	mg/Kg	10	03/19/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	83		%	10	03/19/18	AW	30 - 150 %
% TCMX	77		%	10	03/19/18	AW	30 - 150 %

Project ID: CTDOT-PUTNAM MAINTENANCE
Client ID: 01B

Phoenix I.D.: CA01940

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ''as received'' basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
March 19, 2018
Reviewed and Released by: Bobbi Atolsa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 19, 2018

FOR: Attn:
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		02/26/18	9:41
Location Code:	TRC-PCB	Received by:	SW	03/14/18	13:47
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165-5607-0710				

Laboratory Data

SDG ID: GCA01939
Phoenix ID: CA01941

Project ID: CTDOT-PUTNAM MAINTENANCE
Client ID: 01C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				03/16/18	X/Q	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	6.6	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1221	ND	6.6	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1232	ND	6.6	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1242	ND	6.6	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1248	ND	6.6	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1254	69	6.6	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1260	ND	6.6	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1262	ND	6.6	mg/Kg	20	03/19/18	AW	SW8082A
PCB-1268	ND	6.6	mg/Kg	20	03/19/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	86		%	20	03/19/18	AW	30 - 150 %
% TCMX	60		%	20	03/19/18	AW	30 - 150 %

Project ID: CTDOT-PUTNAM MAINTENANCE
Client ID: 01C

Phoenix I.D.: CA01941

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

PCB Comment:
For PCBs, in order to reach the desired RL, multiple cleanup steps were performed. The extract was cleaned up with a combination of sulfuric acid, potassium permanganate, copper powder and additional florisil.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
March 19, 2018
Reviewed and Released by: Bobbi Alcisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

March 19, 2018

QA/QC Data

SDG I.D.: GCA01939

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 423064 (mg/Kg), QC Sample No: CA01939 10X (CA01939, CA01940, CA01941)										
Polychlorinated Biphenyls - Bulk										
PCB-1016	ND	0.17	93	99	6.3				40 - 140	30
PCB-1221	ND	0.17							40 - 140	30
PCB-1232	ND	0.17							40 - 140	30
PCB-1242	ND	0.17							40 - 140	30
PCB-1248	ND	0.17							40 - 140	30
PCB-1254	ND	0.17							40 - 140	30
PCB-1260	ND	0.17	88	95	7.7				40 - 140	30
PCB-1262	ND	0.17							40 - 140	30
PCB-1268	ND	0.17							40 - 140	30
% DCBP (Surrogate Rec)	123	%	100	106	5.8				30 - 150	30
% TCMX (Surrogate Rec)	96	%	92	97	5.3				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
March 19, 2018

Monday, March 19, 2018

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCA01939 - TRC-PCB

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CA01939	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	6400	1000	1000	ug/Kg
CA01939	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	6400	1000	1000	ug/Kg
CA01939	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	6400	1000	1000	ug/Kg
CA01939	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	6400	1000	1000	ug/Kg
CA01939	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	50000	6400	1000	1000	ug/Kg
CA01939	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	6400	1000	1000	ug/Kg
CA01939	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	6400	1000	1000	ug/Kg
CA01939	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	6400	1000	1000	ug/Kg
CA01939	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	6400	1000	1000	ug/Kg
CA01940	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	22000	3300	1000	1000	ug/Kg
CA01940	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CA01940	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CA01940	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CA01940	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CA01940	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CA01940	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CA01940	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CA01940	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CA01941	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	6600	1000	1000	ug/Kg
CA01941	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	6600	1000	1000	ug/Kg
CA01941	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	6600	1000	1000	ug/Kg
CA01941	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	6600	1000	1000	ug/Kg
CA01941	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	6600	1000	1000	ug/Kg
CA01941	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	6600	1000	1000	ug/Kg
CA01941	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	69000	6600	1000	1000	ug/Kg
CA01941	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	6600	1000	1000	ug/Kg
CA01941	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	6600	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Comments

March 19, 2018

SDG I.D.: GCA01939

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

1,5 OWC 16

TRC

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

Edition: September 2007
Supersede Previous Edition

CHAIN OF CUSTODY

LAB ID #.

PROJECT NUMBER	PROJECT NAME	PARAMETERS	CONTAINERS	TURNAROUND TIME
222165-5607-0710	CTDOT – Putnam Maintenance Facility, Cold Storage Bldg Putnam, CT			X Standard TAT 7-10 Days; Rush TAT; Date Needed:
SIGNATURE: Tom Martin	INSPECTOR: Tom Martin			

Lab ID:	SAMPLE ID:	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	EPA 8082 (3540)	# of Amber Glass	# of Clear Glass	Matrix (X1= X2=)	Preservative	NOTES
	01A	2/26/18	0944			Interior Storage Bldg – A side	X		1	EJ1	Cold	EJ1 – black, asphalt floor expansion joint material 01939
	01B	2/26/18	0942			Interior Storage Bldg – C side	X		1	EJ1	Cold	EJ1 – black, asphalt floor expansion joint material 01940
	01C	2/26/18	0941			Interior Storage Bldg – B side	X		1	EJ1	Cold	EJ1 – black, asphalt floor expansion joint material 01941

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
Tom Martin	2/26/18	David Webster	David Webster	3-14-18	[signature]
(Printed) Tom Martin	Time: 1440	(Printed) David Webster	(Printed) David Webster	Time: 13:47	(Printed) Monica J. Pelle 3/14/18

Remarks:
Report to:
Include CT DPH RCP Report

Condition upon Receipt:

Page 1 of 1

Lisa Arnold

From: Martin, Tom <TMartin@trcsolutions.com>
Sent: Thursday, March 15, 2018 12:18 PM
To: Lisa Arnold
Subject: Re: PCB's GCA 01939

Lisa, please analyze these samples. Thx

Sent from my iPhone

> On Mar 15, 2018, at 12:02 PM, Lisa Arnold <lisa@phoenixlabs.com> wrote:
>
> Good afternoon,
>
> The attached chain of custody shows that the PCB samples were received past hold.
>
> Please confirm that we should proceed with analyzing and reporting as our lab received.
>
> Thank you,
>
> Lisa Arnold
> Client Services
>
> <GCA01939-ChainofCustody-1.pdf>

APPENDIX K

PCB SUBSTRATE AND SOIL/GROUND COVER LABORATORY ANALYSIS DATA

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Pilmpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	12:47
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61486

Project ID: CT DOT PUTNAM MF
Client ID: 01-C1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	12/19/17	AW	30 - 150 %
% TCMX	96		%	10	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 01-C1

Phoenix I.D.: BZ61486

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
December 20, 2017
Official Report Release To Follow

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	13:40
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61487

Project ID: CT DOT PUTNAM MF
Client ID: 02-C1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	103		%	10	12/19/17	AW	30 - 150 %
% TCMX	96		%	10	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 02-C1

Phoenix I.D.: BZ61487

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an "as received" basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
December 20, 2017
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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	13:50
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61488

Project ID: CT DOT PUTNAM MF
Client ID: 03-C1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.32	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1221	ND	0.32	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1232	ND	0.32	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1242	ND	0.32	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1248	ND	0.32	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1254	ND	0.32	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1260	ND	0.32	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1262	ND	0.32	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1268	ND	0.32	mg/Kg	10	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	104		%	10	12/19/17	AW	30 - 150 %
% TCMX	98		%	10	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 03-C1

Phoenix I.D.: BZ61488

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 20, 2017
Official Report Release To Follow

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	13:00
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61489

Project ID: CT DOT PUTNAM MF
Client ID: 04-C1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	86		%	10	12/19/17	AW	30 - 150 %
% TCMX	78		%	10	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 04-C1

Phoenix I.D.: BZ61489

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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December 20, 2017
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687 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	13:45
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61490

Project ID: CT DOT PUTNAM MF
Client ID: 05-C1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	122		%	10	12/19/17	AW	30 - 150 %
% TCMX	115		%	10	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 05-C1

Phoenix I.D.: BZ61490

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	13:53
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61491

Project ID: CT DOT PUTNAM MF
Client ID: 06-C1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	111		%	10	12/19/17	AW	30 - 150 %
% TCMX	99		%	10	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 06-C1

Phoenix I.D.: BZ61491

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received'' basis, and are not corrected for dry weight.

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	12:35
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61492

Project ID: CT DOT PUTNAM MF
Client ID: 07-C2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	109		%	10	12/19/17	AW	30 - 150 %
% TCMX	108		%	10	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF

Client ID: 07-C2

Phoenix I.D.: BZ61492

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller

Phyllis Shiller, Laboratory Director
December 20, 2017
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Pilmpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	13:28
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61493

Project ID: CT DOT PUTNAM MF
Client ID: 08-C2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	98		%	10	12/19/17	AW	30 - 150 %
% TCMX	102		%	10	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 08-C2

Phoenix I.D.: BZ61493

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	12:30
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61494

Project ID: CT DOT PUTNAM MF
Client ID: 09-C2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	104		%	10	12/19/17	AW	30 - 150 %
% TCMX	99		%	10	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 09-C2

Phoenix I.D.: BZ61494

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	13:15
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61495

Project ID: CT DOT PUTNAM MF
Client ID: 10-C2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	99		%	10	12/19/17	AW	30 - 150 %
% TCMX	95		%	10	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF

Client ID: 10-C2

Phoenix I.D.: BZ61495

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	13:56
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61496

Project ID: CT DOT PUTNAM MF
Client ID: 11-C1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	86		%	5	12/19/17	AW	30 - 150 %
% TCMX	80		%	5	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 11-C1

Phoenix I.D.: BZ61496

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	14:04
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5807				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61497

Project ID: CT DOT PUTNAM MF
Client ID: 12-C1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	5	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	71		%	5	12/19/17	AW	30 - 150 %
% TCMX	68		%	5	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 12-C1

Phoenix I.D.: BZ61497

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
December 20, 2017
Official Report Release To Follow

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/15/17	14:10
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61498

Project ID: CT DOT PUTNAM MF
Client ID: 13-C1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	X/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1221	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1232	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1242	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1248	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1254	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1260	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1262	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
PCB-1268	ND	0.33	mg/Kg	10	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	90		%	10	12/19/17	AW	30 - 150 %
% TCMX	88		%	10	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 13-C1

Phoenix I.D.: BZ61498

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 20, 2017
Official Report Release To Follow

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/15/17	14:13
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61499

Project ID: CT DOT PUTNAM MF
Client ID: 14-C1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	71		%		12/18/17	Q	SW846-%Solid
Extraction for PCB	Completed				12/18/17	X/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.46	mg/Kg	10	12/20/17	AW	SW8082A
PCB-1221	ND	0.46	mg/Kg	10	12/20/17	AW	SW8082A
PCB-1232	ND	0.46	mg/Kg	10	12/20/17	AW	SW8082A
PCB-1242	ND	0.46	mg/Kg	10	12/20/17	AW	SW8082A
PCB-1248	ND	0.46	mg/Kg	10	12/20/17	AW	SW8082A
PCB-1254	ND	0.46	mg/Kg	10	12/20/17	AW	SW8082A
PCB-1260	ND	0.46	mg/Kg	10	12/20/17	AW	SW8082A
PCB-1262	ND	0.46	mg/Kg	10	12/20/17	AW	SW8082A
PCB-1268	ND	0.46	mg/Kg	10	12/20/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	103		%	10	12/20/17	AW	30 - 150 %
% TCMX	112		%	10	12/20/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 14-C1

Phoenix I.D.: BZ61499

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 20, 2017
Official Report Release To Follow

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 20, 2017

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		12/15/17	14:00
Location Code:	TRC-PCB	Received by:	SW	12/18/17	13:07
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5607				

Laboratory Data

SDG ID: GBZ61486
Phoenix ID: BZ61500

Project ID: CT DOT PUTNAM MF
Client ID: 15-C2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				12/18/17	MX/R	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.32	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1221	ND	0.32	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1232	ND	0.32	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1242	ND	0.32	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1248	ND	0.32	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1254	ND	0.32	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1260	ND	0.32	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1262	ND	0.32	mg/Kg	5	12/19/17	AW	SW8082A
PCB-1268	ND	0.32	mg/Kg	5	12/19/17	AW	SW8082A
QA/QC Surrogates							
% DCBP	72		%	5	12/19/17	AW	30 - 150 %
% TCMX	74		%	5	12/19/17	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 15-C2

Phoenix I.D.: BZ61500

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received'' basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
December 20, 2017
Official Report Release To Follow

Wednesday, December 20, 2017

Criteria: None

State: CT

Sample Criteria Exceedances Report

GBZ61486 - TRC-PCB

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

CHAIN OF CUSTODY RECORD

Temp 1.2C Pg of

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:
[ ] Fax #:
[X] Email: eplimpton@trcsolutions.com

Customer: TRC
Address: 21 Griffin Rd N.
Windsor, CT 06095

Project: CT DOT Putnam MF
Report to: Erik Plimpton
Invoice to: Same
Phone #: (860) 298-9692
Fax #:

Project P.O: 222165.5607

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 12/15/17

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request: 8082/3540

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8082/3540	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (4) oz ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [250ml] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria (as is)	Bacteria (white)	
61486	01-C1	SD	12/15/17	1247	X		X									Brick o/s Bay 18
61487	02-C1			1340												" o/s Stores
61488	03-C1			1360												" o/s Bay 12
61489	04-C1			1300												Limestone sill o/s Bay 18
61490	05-C1			1345												" " o/s Stores
61491	06-C1			1353												" " o/s Bay 12
61492	07-C2			1235												Brick o/s Bay 18
61493	08-C2			1328												" o/s Stores
61494	09-C2			1230												Block o/s Bay 18
61495	10-C2			1315												" o/s Stores
61496	11-C1			1356												Asphalt o/s Bay 12
61497	12-C1			1404												" o/s Bay 18

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	12/15/17	1000
[signature]	CDuradive	12/15/17	1807

Comments, Special Requirements or Regulations:
Samples 01-C1 - 10-C2 are Substrate 0" Samples
Samples 11-C1 - 15-C2 are ground cover Samples @ 1'

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[X] 3 Days*
[ ] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

Data Format
[ ] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

State where samples were collected: CT

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐
Temp 4.2C Pg of

CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

567 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:
☐ Fax #:
☒ Email: eplimpton@trcsolutions.com

Customer: TRC
Address: 21 Griffin Rd N.
Windsor, CT

Project: CT DOT Putnam MF
Report to: E. Plimpton
Invoice to: Same
Phone #:
Fax #:

Project P.O: 222165.5607

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 12/15/17

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request: 8082/3540

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8082/3540	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (4) oz ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria (as is)	Bacteria (w/thio)	
61498	13-C1	SD*	12/15/17	1410	X		✓									Soil o/s Mex's Rm by Boiler Rm
61499	14-C1	SD*	↓	1413	X		X									" o/s Bay 1
61500	15-C2	SD	↓	1400	X		X									Asphalt o/s Bay 18

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	12/18/17	1000
[signature]	Paradise	12/18/17	1307

Comments, Special Requirements or Regulations:

Samples 01-C1 - 10-C2 are Substrate 0" Samples

Samples 11-C1 - 15-C2 are ground cover samples @ 1'

Turnaround:
☐ 1 Day*
☐ 2 Days*
☒ 3 Days*
☐ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

Data Format
☐ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

State where samples were collected: CT

PHOENIX
Environmental Laboratories, Inc.

Thursday, December 06, 2018

Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: CT DOT PUTNAM MF
Sample ID#s: CC06067 - CC06084

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	10:19
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06067

Project ID: CT DOT PUTNAM MF
Client ID: 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	99		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	X/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3.6	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1221	ND	3.6	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1232	ND	3.6	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1242	ND	3.6	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1248	ND	3.6	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1254	19	3.6	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1260	ND	3.6	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1262	ND	3.6	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1268	ND	3.6	mg/Kg	25	12/04/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	110		%	25	12/04/18	AW	30 - 150 %
% TCMX	95		%	25	12/04/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 1

Phoenix I.D.: CC06067

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	10:32
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06068

Project ID: CT DOT PUTNAM MF
Client ID: 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	99		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	X/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.72	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1221	ND	0.72	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1232	ND	0.72	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1242	ND	0.72	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1248	ND	0.72	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1254	7.2	0.72	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1260	ND	0.72	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1262	ND	0.72	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1268	ND	0.72	mg/Kg	5	12/04/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	89		%	5	12/04/18	AW	30 - 150 %
% TCMX	81		%	5	12/04/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 2

Phoenix I.D.: CC06068

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	10:36
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06069

Project ID: CT DOT PUTNAM MF
Client ID: 3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	97		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	X/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	17	mg/Kg	100	12/05/18	AW	SW8082A
PCB-1221	ND	17	mg/Kg	100	12/05/18	AW	SW8082A
PCB-1232	ND	17	mg/Kg	100	12/05/18	AW	SW8082A
PCB-1242	ND	17	mg/Kg	100	12/05/18	AW	SW8082A
PCB-1248	ND	17	mg/Kg	100	12/05/18	AW	SW8082A
PCB-1254	88	17	mg/Kg	100	12/05/18	AW	SW8082A
PCB-1260	ND	17	mg/Kg	100	12/05/18	AW	SW8082A
PCB-1262	ND	17	mg/Kg	100	12/05/18	AW	SW8082A
PCB-1268	ND	17	mg/Kg	100	12/05/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	100	12/05/18	AW	30 - 150 %
% TCMX	Diluted Out		%	100	12/05/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 3

Phoenix I.D.: CC06069

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	10:42
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06070

Project ID: CT DOT PUTNAM MF
Client ID: 4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	99		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	KKL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	7.8	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1221	ND	7.8	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1232	ND	7.8	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1242	ND	7.8	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1248	ND	7.8	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1254	47	7.8	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1260	ND	7.8	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1262	ND	7.8	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1268	ND	7.8	mg/Kg	50	12/05/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	50	12/05/18	AW	30 - 150 %
% TCMX	Diluted Out		%	50	12/05/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 4

Phoenix I.D.: CC06070

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	10:46
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06071

Project ID: CT DOT PUTNAM MF
Client ID: 5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	K/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.79	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1221	ND	0.79	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1232	ND	0.79	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1242	ND	0.79	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1248	ND	0.79	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1254	9	0.79	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1260	ND	0.79	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1262	ND	0.79	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1268	ND	0.79	mg/Kg	5	12/04/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	95		%	5	12/04/18	AW	30 - 150 %
% TCMX	78		%	5	12/04/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 5

Phoenix I.D.: CC06071

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	10:34
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06072

Project ID: CT DOT PUTNAM MF
Client ID: 6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	X/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	7.6	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1221	ND	7.6	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1232	ND	7.6	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1242	ND	7.6	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1248	ND	7.6	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1254	22	7.6	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1260	ND	7.6	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1262	ND	7.6	mg/Kg	50	12/05/18	AW	SW8082A
PCB-1268	ND	7.6	mg/Kg	50	12/05/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	50	12/05/18	AW	30 - 150 %
% TCMX	Diluted Out		%	50	12/05/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 6

Phoenix I.D.: CC06072

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	11:01
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06073

Project ID: CT DOT PUTNAM MF
Client ID: 7

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	97		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	X/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3.4	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1221	ND	3.4	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1232	ND	3.4	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1242	ND	3.4	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1248	ND	3.4	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1254	30	3.4	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1260	ND	3.4	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1262	ND	3.4	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1268	ND	3.4	mg/Kg	20	12/05/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	120		%	20	12/05/18	AW	30 - 150 %
% TCMX	100		%	20	12/05/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 7

Phoenix I.D.: CC06073

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	11:07
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06074

Project ID: CT DOT PUTNAM MF
Client ID: 8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		12/04/18	AK	SW846-%Solid
Extraction for PCB	Completed				12/03/18	XKL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3.9	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1221	ND	3.9	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1232	ND	3.9	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1242	ND	3.9	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1248	ND	3.9	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1254	36	3.9	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1260	ND	3.9	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1262	ND	3.9	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1268	ND	3.9	mg/Kg	25	12/04/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	127		%	25	12/04/18	AW	30 - 150 %
% TCMX	87		%	25	12/04/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 8

Phoenix I.D.: CC06074

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	11:12
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06075

Project ID: CT DOT PUTNAM MF
Client ID: 9

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	KKL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3.3	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1221	ND	3.3	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1232	ND	3.3	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1242	ND	3.3	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1248	ND	3.3	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1254	21	3.3	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1260	ND	3.3	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1262	ND	3.3	mg/Kg	20	12/05/18	AW	SW8082A
PCB-1268	ND	3.3	mg/Kg	20	12/05/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	100		%	20	12/05/18	AW	30 - 150 %
% TCMX	94		%	20	12/05/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 9

Phoenix I.D.: CC06075

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	11:16
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06087
Phoenix ID: CC06076

Project ID: CT DOT PUTNAM MF
Client ID: 10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	97		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	X/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	7.8	mg/Kg	50	12/04/18	AW	SW8082A
PCB-1221	ND	7.8	mg/Kg	50	12/04/18	AW	SW8082A
PCB-1232	ND	7.8	mg/Kg	50	12/04/18	AW	SW8082A
PCB-1242	ND	7.8	mg/Kg	50	12/04/18	AW	SW8082A
PCB-1248	ND	7.8	mg/Kg	50	12/04/18	AW	SW8082A
PCB-1254	36	7.8	mg/Kg	50	12/04/18	AW	SW8082A
PCB-1260	ND	7.8	mg/Kg	50	12/04/18	AW	SW8082A
PCB-1262	ND	7.8	mg/Kg	50	12/04/18	AW	SW8082A
PCB-1268	ND	7.8	mg/Kg	50	12/04/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	50	12/04/18	AW	30 - 150 %
% TCMX	Diluted Out		%	50	12/04/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 10

Phoenix I.D.: CC06076

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	11:20
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06077

Project ID: CT DOT PUTNAM MF
Client ID: 11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	99		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	x/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	33	mg/Kg	200	12/05/18	AW	SW8082A
PCB-1221	ND	33	mg/Kg	200	12/05/18	AW	SW8082A
PCB-1232	ND	33	mg/Kg	200	12/05/18	AW	SW8082A
PCB-1242	ND	33	mg/Kg	200	12/05/18	AW	SW8082A
PCB-1248	ND	33	mg/Kg	200	12/05/18	AW	SW8082A
PCB-1254	64	33	mg/Kg	200	12/05/18	AW	SW8082A
PCB-1260	ND	33	mg/Kg	200	12/05/18	AW	SW8082A
PCB-1262	ND	33	mg/Kg	200	12/05/18	AW	SW8082A
PCB-1268	ND	33	mg/Kg	200	12/05/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	200	12/05/18	AW	30 - 150 %
% TCMX	Diluted Out		%	200	12/05/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 11

Phoenix I.D.: CC06077

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	11:25
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06078

Project ID: CT DOT PUTNAM MF
Client ID: 12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	99		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	X/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	73	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1221	ND	73	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1232	ND	73	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1242	ND	73	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1248	ND	73	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1254	150	73	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1260	ND	73	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1262	ND	73	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1268	ND	73	mg/Kg	500	12/05/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	500	12/05/18	AW	30 - 150 %
% TCMX	Diluted Out		%	500	12/05/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 12

Phoenix I.D.: CC06078

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
December 06, 2016
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	11:32
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06079

Project ID: CT DOT PUTNAM MF
Client ID: 13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	K/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3.8	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1221	ND	3.8	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1232	ND	3.8	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1242	ND	3.8	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1248	ND	3.8	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1254	33	3.8	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1260	ND	3.8	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1262	ND	3.8	mg/Kg	25	12/04/18	AW	SW8082A
PCB-1268	ND	3.8	mg/Kg	25	12/04/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	Interferance		%	25	12/04/18	AW	30 - 150 %
% TCMX	84		%	25	12/04/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 13

Phoenix I.D.: CC06079

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

PCB Comment:
Due to matrix interference from non target compounds in the sample, surrogate could not be reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	11:46
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06080

Project ID: CT DOT PUTNAM MF
Client ID: 14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	X/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	37	mg/Kg	250	12/05/18	AW	SW8082A
PCB-1221	ND	37	mg/Kg	250	12/05/18	AW	SW8082A
PCB-1232	ND	37	mg/Kg	250	12/05/18	AW	SW8082A
PCB-1242	ND	37	mg/Kg	250	12/05/18	AW	SW8082A
PCB-1248	ND	37	mg/Kg	250	12/05/18	AW	SW8082A
PCB-1254	84	37	mg/Kg	250	12/05/18	AW	SW8082A
PCB-1260	ND	37	mg/Kg	250	12/05/18	AW	SW8082A
PCB-1262	ND	37	mg/Kg	250	12/05/18	AW	SW8082A
PCB-1268	ND	37	mg/Kg	250	12/05/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	250	12/05/18	AW	30 - 150 %
% TCMX	Diluted Out		%	250	12/05/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 14

Phoenix I.D.: CC06080

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	11:46
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06081

Project ID: CT DOT PUTNAM MF
Client ID: 15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	X/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	74	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1221	ND	74	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1232	ND	74	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1242	ND	74	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1248	ND	74	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1254	99	74	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1260	ND	74	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1262	ND	74	mg/Kg	500	12/05/18	AW	SW8082A
PCB-1268	ND	74	mg/Kg	500	12/05/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	500	12/05/18	AW	30 - 150 %
% TCMX	Diluted Out		%	500	12/05/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF

Client ID: 15

Phoenix I.D.: CC06081

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

December 06, 2018

Reviewed and Released by: Rashmi Makol, Project Manager

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	11:52
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06082

Project ID: CT DOT PUTNAM MF
Client ID: 16

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	99		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	X/KL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3.8	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1221	ND	3.8	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1232	ND	3.8	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1242	ND	3.8	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1248	ND	3.8	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1254	30	3.8	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1260	ND	3.8	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1262	ND	3.8	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1268	ND	3.8	mg/Kg	25	12/05/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	128		%	25	12/05/18	AW	30 - 150 %
% TCMX	87		%	25	12/05/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 16

Phoenix I.D.: CC06082

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	11:39
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06083

Project ID: CT DOT PUTNAM MF
Client ID: 17

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	KKL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	4	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1221	ND	4	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1232	ND	4	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1242	ND	4	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1248	ND	4	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1254	22	4	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1260	ND	4	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1262	ND	4	mg/Kg	25	12/05/18	AW	SW8082A
PCB-1268	ND	4	mg/Kg	25	12/05/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	96		%	25	12/05/18	AW	30 - 150 %
% TCMX	101		%	25	12/05/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 17

Phoenix I.D.: CC06083

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2018

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		11/30/18	12:05
Location Code:	TRC-PCBDAS	Received by:	SW	12/03/18	14:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC06067
Phoenix ID: CC06084

Project ID: CT DOT PUTNAM MF
Client ID: 18

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		12/03/18	IG	SW846-%Solid
Extraction for PCB	Completed				12/03/18	KKL/SB/A	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.81	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1221	ND	0.81	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1232	ND	0.81	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1242	ND	0.81	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1248	ND	0.81	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1254	8	0.81	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1260	ND	0.81	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1262	ND	0.81	mg/Kg	5	12/04/18	AW	SW8082A
PCB-1268	ND	0.81	mg/Kg	5	12/04/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	102		%	5	12/04/18	AW	30 - 150 %
% TCMX	61		%	5	12/04/18	AW	30 - 150 %

Project ID: CT DOT PUTNAM MF
Client ID: 18

Phoenix I.D.: CC06084

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
December 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

December 06, 2018

QA/QC Data

SDG I.D.: GCC06067

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 458223 (mg/Kg), QC Sample No: CC06067 10X (CC06067, CC06068, CC06069, CC06070, CC06071, CC06072, CC06073, CC06074, CC06075, CC06076, CC06077, CC06078, CC06079, CC06080, CC06081, CC06082, CC06083, CC06084)										
Polychlorinated Biphenyls										
PCB-1016	ND	0.17	97	91	6.4				40 - 140	30
PCB-1221	ND	0.17							40 - 140	30
PCB-1232	ND	0.17							40 - 140	30
PCB-1242	ND	0.17							40 - 140	30
PCB-1248	ND	0.17							40 - 140	30
PCB-1254	ND	0.17							40 - 140	30
PCB-1260	ND	0.17	92	94	2.2				40 - 140	30
PCB-1262	ND	0.17							40 - 140	30
PCB-1268	ND	0.17							40 - 140	30
% DCBP (Surrogate Rec)	102	%	103	101	2.0				30 - 150	30
% TCMX (Surrogate Rec)	91	%	92	90	2.2				30 - 150	30

Comment:

Due to PCB in the unspiked sample, MS/MSD could not be reported.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
December 06, 2018

Thursday, December 06, 2018

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCC06067 - TRC-PCBDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC06067	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3600	1000	1000	ug/Kg
CC06067	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3600	1000	1000	ug/Kg
CC06067	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3600	1000	1000	ug/Kg
CC06067	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3600	1000	1000	ug/Kg
CC06067	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	19000	3600	1000	1000	ug/Kg
CC06067	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	3600	1000	1000	ug/Kg
CC06067	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3600	1000	1000	ug/Kg
CC06067	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3600	1000	1000	ug/Kg
CC06067	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3600	1000	1000	ug/Kg
CC06068	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	7200	720	1000	1000	ug/Kg
CC06069	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	88000	17000	1000	1000	ug/Kg
CC06069	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	17000	1000	1000	ug/Kg
CC06069	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	17000	1000	1000	ug/Kg
CC06069	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	17000	1000	1000	ug/Kg
CC06069	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	17000	1000	1000	ug/Kg
CC06069	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	17000	1000	1000	ug/Kg
CC06069	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	17000	1000	1000	ug/Kg
CC06069	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	17000	1000	1000	ug/Kg
CC06069	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	17000	1000	1000	ug/Kg
CC06070	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06070	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06070	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06070	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06070	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06070	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06070	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06070	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06070	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	47000	7800	1000	1000	ug/Kg
CC06071	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	9000	790	1000	1000	ug/Kg
CC06072	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	22000	7600	1000	1000	ug/Kg
CC06072	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	7600	1000	1000	ug/Kg
CC06072	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	7600	1000	1000	ug/Kg
CC06072	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	7600	1000	1000	ug/Kg
CC06072	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	7600	1000	1000	ug/Kg
CC06072	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	7600	1000	1000	ug/Kg
CC06072	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	7600	1000	1000	ug/Kg
CC06072	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	7600	1000	1000	ug/Kg
CC06072	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	7600	1000	1000	ug/Kg

Thursday, December 06, 2018
Criteria: None
State: CT

Sample Criteria Exceedances Report

GCC06067 - TRC-PCBDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC06073	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3400	1000	1000	ug/Kg
CC06073	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3400	1000	1000	ug/Kg
CC06073	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3400	1000	1000	ug/Kg
CC06073	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	3400	1000	1000	ug/Kg
CC06073	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3400	1000	1000	ug/Kg
CC06073	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3400	1000	1000	ug/Kg
CC06073	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3400	1000	1000	ug/Kg
CC06073	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3400	1000	1000	ug/Kg
CC06073	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	30000	3400	1000	1000	ug/Kg
CC06074	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CC06074	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CC06074	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CC06074	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CC06074	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CC06074	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CC06074	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CC06074	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	36000	3900	1000	1000	ug/Kg
CC06074	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3900	1000	1000	ug/Kg
CC06075	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC06075	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC06075	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC06075	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC06075	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC06075	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC06075	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC06075	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC06075	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	21000	3300	1000	1000	ug/Kg
CC06076	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06076	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06076	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06076	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06076	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	36000	7800	1000	1000	ug/Kg
CC06076	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06076	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06076	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06076	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	7800	1000	1000	ug/Kg
CC06077	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC06077	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg

Thursday, December 06, 2018

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCC06067 - TRC-PCBDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC06077	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC06077	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC06077	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC06077	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC06077	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC06077	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC06077	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	64000	33000	1000	1000	ug/Kg
CC06078	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	73000	1000	1000	ug/Kg
CC06078	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	73000	1000	1000	ug/Kg
CC06078	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	73000	1000	1000	ug/Kg
CC06078	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	73000	1000	1000	ug/Kg
CC06078	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	73000	1000	1000	ug/Kg
CC06078	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	73000	1000	1000	ug/Kg
CC06078	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	73000	1000	1000	ug/Kg
CC06078	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	150000	73000	1000	1000	ug/Kg
CC06078	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	73000	1000	1000	ug/Kg
CC06079	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06079	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06079	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06079	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06079	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06079	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06079	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06079	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06079	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	33000	3800	1000	1000	ug/Kg
CC06080	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	37000	1000	1000	ug/Kg
CC06080	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	37000	1000	1000	ug/Kg
CC06080	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	37000	1000	1000	ug/Kg
CC06080	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	37000	1000	1000	ug/Kg
CC06080	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	84000	37000	1000	1000	ug/Kg
CC06080	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	37000	1000	1000	ug/Kg
CC06080	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	37000	1000	1000	ug/Kg
CC06080	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	37000	1000	1000	ug/Kg
CC06080	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	37000	1000	1000	ug/Kg
CC06081	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	74000	1000	1000	ug/Kg
CC06081	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	74000	1000	1000	ug/Kg
CC06081	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	74000	1000	1000	ug/Kg
CC06081	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	99000	74000	1000	1000	ug/Kg
CC06081	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	74000	1000	1000	ug/Kg

Thursday, December 06, 2018

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCC06067 - TRC-PCBDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC06081	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	74000	1000	1000	ug/Kg
CC06081	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	74000	1000	1000	ug/Kg
CC06081	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	74000	1000	1000	ug/Kg
CC06081	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	74000	1000	1000	ug/Kg
CC06082	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06082	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06082	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06082	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06082	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	30000	3800	1000	1000	ug/Kg
CC06082	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06082	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06082	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06082	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3800	1000	1000	ug/Kg
CC06083	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	4000	1000	1000	ug/Kg
CC06083	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	4000	1000	1000	ug/Kg
CC06083	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	4000	1000	1000	ug/Kg
CC06083	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	4000	1000	1000	ug/Kg
CC06083	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	4000	1000	1000	ug/Kg
CC06083	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	22000	4000	1000	1000	ug/Kg
CC06083	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	4000	1000	1000	ug/Kg
CC06083	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	4000	1000	1000	ug/Kg
CC06083	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	4000	1000	1000	ug/Kg
CC06084	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	8000	810	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** TRC Environmental Corp.

Project Location: CT DOT PUTNAM MF ***Project Number:***

Laboratory Sample ID(s): CC06067-CC06084 ***Sampling Date(s):*** 11/30/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8082

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☐ Yes ☑ No ☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Thursday, December 06, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

December 06, 2018

SDG I.D.: GCC06067

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD1 12/04/18-1 Adam Werner, Chemist 12/04/18

CC06067, CC06068, CC06071, CC06072, CC06074, CC06077, CC06078, CC06079, CC06081, CC06084

The initial calibration (PC1203AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1203BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD24 12/04/18-1 Adam Werner, Chemist 12/04/18

CC06076

The initial calibration (PC1024AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1024BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD24 12/05/18-1 Adam Werner, Chemist 12/05/18

CC06069

The initial calibration (PC1024AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1024BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD6 12/05/18-1 Adam Werner, Chemist 12/05/18

CC06075, CC06082, CC06083

The initial calibration (PC1204AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1204BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD8 12/05/18-1 Adam Werner, Chemist 12/05/18

CC06070, CC06073, CC06080

The initial calibration (PC1203AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1203BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 458223 (CC06067)

CC06067, CC06068, CC06069, CC06070, CC06071, CC06072, CC06073, CC06074, CC06075, CC06076, CC06077, CC06078, CC06079, CC06080, CC06081, CC06082, CC06083, CC06084

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Due to PCB in the unspiked sample, MS/MSD could not be reported.

Temperature Narration

The samples were received at 2.6C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

2.6° WS
TDK

TRC

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

Edition: September 2007
Supersede Previous Edition

CHAIN OF CUSTODY

LAB ID #.

PROJECT NUMBER	PROJECT NAME	PARAMETERS	CONTAINERS	TURNAROUND TIME
222165.5603.0710	CT DOT Putnam MF			✓ Standard TAT 7-10 Days; Rush TAT; Date Needed:

SIGNATURE: [signature]

INSPECTOR: CARMEN JACKO

	Lab ID:	SAMPLE ID:	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	EPA 8082 (3540)	# of Amber Glass	# of Clear Glass	Matrix (N1= N2=)	Preservative	NOTES
06	067	1	11/30/18	10:17		✓	SE Corner	✓		1			0 INCH CONCRETE ASSOCIATED WITH EJ1
06	068	2		10:32		✓	East Wall 10' from SE	✓		1			
06	069	3		10:36		✓	20'	✓		1			
06	070	4		10:42		✓	30'	✓		1			
06	071	5		10:46		✓	40'	✓		1			
06	072	6		10:54		✓	50'	✓		1			
06	073	7		11:01		✓	NE Corner	✓		1			
06	074	8		11:07		✓	North Wall - 10' from NE	✓		1			
06	075	9		11:12		✓	10' from NW	✓		1			
06	076	10		11:16		✓	NW Corner	✓		1			
06	~~076~~	11		11:20		✓	West Wall 5' from SW	✓		1			
(MW)	06077												

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
[signature]	11/30/18	[signature]	[signature]	12/3/18	[signature]
(Printed) CARMEN JACKO	Time: 12/3/18 12:11	(Printed) Ryan Corcoran	(Printed)	Time: 2:27	(Printed) 12/3/18 14:14

Remarks: D/S rates apply
Report to: SEND TO EPLIMPTON@TRCSOLUTIONS.COM
Include CT DPH RCP Report

Condition upon Receipt:

Page 1 of 1

2.6° WC DM

TRC

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

Edition: September 2007
Supersede Previous Edition

CHAIN OF CUSTODY

LAB ID #.

PROJECT NUMBER	PROJECT NAME	PARAMETERS	CONTAINERS	TURNAROUND TIME
222165.5603.0710	CT DOT Putnam MS			✓ Standard TAT 7-10 Days; Rush TAT; Date Needed:
SIGNATURE	INSPECTOR			
	CARMEN JACKO			

	Lab ID:	SAMPLE ID:	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	EPA 8083 (3540)	# of Amber Glass	# of Clear Glass	Matrix (S1=)	Preservative	NOTES
06	078	12	11/30/18	11:25		✓	W Wall - 40' from SW	✓		1			0 INCH CONCRETE ASSOCIATED WITH EA1
06	079	13		11:32		✓	20'	✓		1			
06	080	14		11:38		✓	20'	✓		1			
06	081	15		11:46		✓	10' ⊥	✓		1			
06	082	16		11:52		✓	SW/ Corner	✓		1			
06	083	17		11:59		✓	South Wall - 10' from SW	✓		1			
06	084	18		12:05		✓	⊥ 40' from SE	✓		1			

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	11/30/18			12/3/18	
(Printed) CARMEN JACKO	Time: 12/3/18 12:11	(Printed) Ryan Corcoran	(Printed)	Time: 2:23	(Printed) 12/3/18 14:14

Remarks:
Report to: DAS rates apply
Include CT DPH RCP Report

Condition upon Receipt:

Page 1 of 1

PHOENIX
Environmental Laboratories, Inc.

Thursday, January 10, 2019

Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: PUTNAM MAINTENANCE FAC
Sample ID#s: CC24075 - CC24082

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

Environmental Laboratories, Inc.
597 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 10, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/04/19	10:05
Location Code:	TRC-PCBDAS	Received by:	SW	01/07/19	11:16
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC24075
Phoenix ID: CC24075

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 19

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				01/07/19	XX/KL/VS	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1221	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1232	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1242	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1248	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1254	82	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1260	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1262	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1268	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	01/08/19	F	30 - 150 %
% TCMX	Diluted Out		%	1000	01/08/19	F	30 - 150 %

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 19

Phoenix I.D.: CC24075

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
January 10, 2019
Reviewed and Released by: Bobbi Afolsa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 10, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/04/19	10:15
Location Code:	TRC-PCBDAS	Received by:	SW	01/07/19	11:16
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC24075
Phoenix ID: CC24076

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 20

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				01/07/19	XX/KL/VS	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1221	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1232	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1242	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1248	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1254	53	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1260	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1262	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1268	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	01/08/19	F	30 - 150 %
% TCMX	Diluted Out		%	1000	01/08/19	F	30 - 150 %

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 20

Phoenix I.D.: CC24076

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
January 10, 2019
Reviewed and Released by: Bobbi Aloisa, Vice President

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 10, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/04/19	10:25
Location Code:	TRC-PCBDAS	Received by:	SW	01/07/19	11:16
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC24075
Phoenix ID: CC24077

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				01/07/19	XX/KL/VS	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1221	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1232	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1242	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1248	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1254	64	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1260	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1262	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1268	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	01/08/19	F	30 - 150 %
% TCMX	Diluted Out		%	1000	01/08/19	F	30 - 150 %

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 21

Phoenix I.D.: CC24077

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
January 10, 2019
Reviewed and Released by: Bobbi Alcisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 646-0823

Analysis Report

January 10, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/04/19	10:32
Location Code:	TRC-PCBDAS	Received by:	SW	01/07/19	11:16
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC24075
Phoenix ID: CC24078

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 22

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				01/07/19	XX/KL/VS	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1221	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1232	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1242	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1248	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1254	25	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1260	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1262	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1268	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	100	01/08/19	F	30 - 150 %
% TCMX	Diluted Out		%	100	01/08/19	F	30 - 150 %

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 22

Phoenix I.D.: CC24078

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
January 10, 2019
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
687 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 10, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/04/19	10:44
Location Code:	TRC-PCBDAS	Received by:	SW	01/07/19	11:16
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC24075
Phoenix ID: CC24079

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 23

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				01/07/19	XX/KL/VS	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1221	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1232	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1242	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1248	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1254	71	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1260	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1262	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
PCB-1268	ND	33	mg/Kg	1000	01/08/19	F	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	01/08/19	F	30 - 150 %
% TCMX	Diluted Out		%	1000	01/08/19	F	30 - 150 %

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 23

Phoenix I.D.: CC24079

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
January 10, 2019
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 10, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/04/19	10:52
Location Code:	TRC-PCBDAS	Received by:	SW	01/07/19	11:16
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5803.0710				

Laboratory Data

SDG ID: GCC24075
Phoenix ID: CC24080

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 24

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				01/07/19	XX/KL/VS	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1221	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1232	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1242	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1248	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1254	40	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1260	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1262	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1268	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	100	01/08/19	F	30 - 150 %
% TCMX	Diluted Out		%	100	01/08/19	F	30 - 150 %

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 24

Phoenix I.D.: CC24080

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
January 10, 2019
Reviewed and Released by: Bobbi Aloisa, Vice President

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Tel. (860) 646-1102 Fax (860) 646-0823

Analysis Report

January 10, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/04/19	11:08
Location Code:	TRC-PCBDAS	Received by:	SW	01/07/19	11:16
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC24075
Phoenix ID: CC24081

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				01/07/19	XX/KL/VS	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1221	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1232	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1242	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1248	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1254	22	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1260	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1262	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
PCB-1268	ND	3.3	mg/Kg	100	01/08/19	F	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	100	01/08/19	F	30 - 150 %
% TCMX	Diluted Out		%	100	01/08/19	F	30 - 150 %

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 25

Phoenix I.D.: CC24081

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director
January 10, 2019
Reviewed and Released by: Bobbi Afolsa, Vice President

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 10, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:		01/04/19	11:15
Location Code:	TRC-PCBDAS	Received by:	SW	01/07/19	11:16
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222165.5603.0710				

Laboratory Data

SDG ID: GCC24075
Phoenix ID: CC24082

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 26

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				01/07/19	XX/KL/VS	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	1.7	mg/Kg	50	01/08/19	F	SW8082A
PCB-1221	ND	1.7	mg/Kg	50	01/08/19	F	SW8082A
PCB-1232	ND	1.7	mg/Kg	50	01/08/19	F	SW8082A
PCB-1242	ND	1.7	mg/Kg	50	01/08/19	F	SW8082A
PCB-1248	ND	1.7	mg/Kg	50	01/08/19	F	SW8082A
PCB-1254	18	1.7	mg/Kg	50	01/08/19	F	SW8082A
PCB-1260	ND	1.7	mg/Kg	50	01/08/19	F	SW8082A
PCB-1262	ND	1.7	mg/Kg	50	01/08/19	F	SW8082A
PCB-1268	ND	1.7	mg/Kg	50	01/08/19	F	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	50	01/08/19	F	30 - 150 %
% TCMX	Diluted Out		%	50	01/08/19	F	30 - 150 %

Project ID: PUTNAM MAINTENANCE FAC
Client ID: 26

Phoenix I.D.: CC24082

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
January 10, 2019
Reviewed and Released by: Bobbi Atoisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 10, 2019

QA/QC Data

SDG I.D.: GCC24075

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 462357 (mg/Kg), QC Sample No: CC24075 10X (CC24075, CC24076, CC24077, CC24078, CC24079, CC24080, CC24081, CC24082)										
Polychlorinated Biphenyls - Bulk										
PCB-1016	ND	0.17	89	94	5.5				40 - 140	30
PCB-1221	ND	0.17							40 - 140	30
PCB-1232	ND	0.17							40 - 140	30
PCB-1242	ND	0.17							40 - 140	30
PCB-1248	ND	0.17							40 - 140	30
PCB-1254	ND	0.17							40 - 140	30
PCB-1260	ND	0.17	90	96	6.5				40 - 140	30
PCB-1262	ND	0.17							40 - 140	30
PCB-1268	ND	0.17							40 - 140	30
% DCBP (Surrogate Rec)	85	%	88	100	12.8				30 - 150	30
% TCMX (Surrogate Rec)	106	%	100	92	8.3				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
January 10, 2019

Thursday, January 10, 2019
Criteria: None
State: CT

Sample Criteria Exceedances Report

GCC24075 - TRC-PCBDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC24075	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24075	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24075	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24075	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24075	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	62000	33000	1000	1000	ug/Kg
CC24075	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24075	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24075	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24075	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24076	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24076	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24076	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24076	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	53000	33000	1000	1000	ug/Kg
CC24076	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24076	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24076	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24076	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24076	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24077	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	64000	33000	1000	1000	ug/Kg
CC24077	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24077	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24077	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24077	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24077	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24077	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24077	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24077	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24078	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24078	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24078	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24078	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24078	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24078	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24078	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	25000	3300	1000	1000	ug/Kg
CC24078	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24078	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24079	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24079	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24079	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg

Thursday, January 10, 2019
Criteria: None
State: CT

Sample Criteria Exceedances Report

GCC24075 - TRC-PCBDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC24079	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24079	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	71000	33000	1000	1000	ug/Kg
CC24079	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24079	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24079	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24079	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC24080	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24080	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24080	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24080	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	40000	3300	1000	1000	ug/Kg
CC24080	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24080	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24080	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24080	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24080	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24081	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	22000	3300	1000	1000	ug/Kg
CC24081	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24081	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24081	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24081	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24081	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24081	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24081	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24081	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC24082	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	1700	1000	1000	ug/Kg
CC24082	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	1700	1000	1000	ug/Kg
CC24082	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	1700	1000	1000	ug/Kg
CC24082	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	1700	1000	1000	ug/Kg
CC24082	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	1700	1000	1000	ug/Kg
CC24082	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	1700	1000	1000	ug/Kg
CC24082	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	18000	1700	1000	1000	ug/Kg
CC24082	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	1700	1000	1000	ug/Kg
CC24082	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	1700	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

PHOENIX

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

Analysis Comments

January 10, 2019

SDG I.D.: GCC24075

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

WCIP 3.6

Edition: September 2007
Supersede Previous Edition

TRC
21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

CHAIN OF CUSTODY

LAB ID #.

PROJECT NUMBER	PROJECT NAME	PARAMETERS	CONTAINERS	TURNAROUND TIME
222165.5603.0710	CONN DOT PUTNAM MAINTENANCE FAC.			✓ Standard TAT 7-10 Days; Rush TAT; Date Needed:
SIGNATURE	INSPECTOR			
	CARMEN JACKA			

Lab ID:	SAMPLE ID:	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	EPA 8082 (3540)	# of Amber Glass	# of Clear Glass	Matrix	Preservative	NOTES
24075	19	1/4/19	1005		x	A SIDE CENTER	✓		1			3 INCH ASSOCIATED WITH EJ1
24076	20		1015		x	⊥	✓		1			6 INCH
24077	21		1025		x	B SIDE SE	✓		1			3 INCH
24078	22		1032		x	⊥	✓		1			6 INCH
24079	23		1044		x	C SIDE CENTER	✓		1			3 INCH
24080	24		1052		x	⊥	✓		1			6 INCH
24081	25		1102		x	D SIDE NW	✓		1			3 INCH
24082	26	⊥	1115		x	⊥	✓		1			6 INCH

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	1/4/19			1/7/19	
(Printed) CARMEN JACKA	Time:	(Printed)	(Printed)	Time: 10:30	(Printed)

Remarks: DAS RATES APPLY
Report to: SEND TO EPLIMPTON@TRCSOLUTIONS.COM
Include CT DPH RCP Report

Condition upon Receipt:

Page 1 of 1

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		02/04/19	11:10
Location Code:	TRC-PCBDAS	Received by:	CP	02/05/19	12:15
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222149.5603.0710				

Laboratory Data

SDG ID: GCC40692
Phoenix ID: CC40692

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 27

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				02/05/19	X/KL/AK/S	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3.3	mg/Kg	100	02/07/19	SC	SW8082A
PCB-1221	ND	3.3	mg/Kg	100	02/07/19	SC	SW8082A
PCB-1232	ND	3.3	mg/Kg	100	02/07/19	SC	SW8082A
PCB-1242	ND	3.3	mg/Kg	100	02/07/19	SC	SW8082A
PCB-1248	ND	3.3	mg/Kg	100	02/07/19	SC	SW8082A
PCB-1254	17	3.3	mg/Kg	100	02/07/19	SC	SW8082A
PCB-1260	ND	3.3	mg/Kg	100	02/07/19	SC	SW8082A
PCB-1262	ND	3.3	mg/Kg	100	02/07/19	SC	SW8082A
PCB-1268	ND	3.3	mg/Kg	100	02/07/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	100	02/07/19	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	100	02/07/19	SC	30 - 150 %
% TCMX	Diluted Out		%	100	02/07/19	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	100	02/07/19	SC	30 - 150 %

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 27

Phoenix I.D.: CC40692

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
February 07, 2019
Official Report Release To Follow

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		02/04/19	11:50
Location Code:	TRC-PCBDAS	Received by:	CP	02/05/19	12:15
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222149.5603.0710				

Laboratory Data

SDG ID: GCC40692
Phoenix ID: CC40693

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 28

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				02/05/19	XKLAK/S	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1221	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1232	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1242	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1248	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1254	42	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1260	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1262	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1268	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% TCMX	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	1000	02/07/19	SC	30 - 150 %

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 28

Phoenix I.D.: CC40693

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
February 07, 2019
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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		02/04/19	10:20
Location Code:	TRC-PCBDAS	Received by:	CP	02/05/19	12:15
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222149.5603.0710				

Laboratory Data

SDG ID: GCC40692
Phoenix ID: CC40694

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 29

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				02/05/19	XKL/AK/S	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1221	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1232	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1242	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1248	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1254	77	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1260	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1262	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1268	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% TCMX	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	1000	02/07/19	SC	30 - 150 %

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 29

Phoenix I.D.: CC40694

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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February 07, 2019
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		02/04/19	11:00
Location Code:	TRC-PCBDAS	Received by:	CP	02/05/19	12:15
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222149.5603.0710				

Laboratory Data

SDG ID: GCC40692
Phoenix ID: CC40695

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 30

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				02/05/19	X/KL/AK/S	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1221	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1232	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1242	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1248	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1254	150	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1260	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1262	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1268	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	02/06/19	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	1000	02/06/19	SC	30 - 150 %
% TCMX	Diluted Out		%	1000	02/06/19	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	1000	02/06/19	SC	30 - 150 %

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 30

Phoenix I.D.: CC40695

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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February 07, 2019
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		02/04/19	11:25
Location Code:	TRC-PCBDAS	Received by:	CP	02/05/19	12:15
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222149.5603.0710				

Laboratory Data

SDG ID: GCC40692
Phoenix ID: CC40696

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 31

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				02/05/19	KKL/AK/S	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1221	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1232	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1242	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1248	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1254	100	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1260	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1262	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1268	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% TCMX	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	1000	02/07/19	SC	30 - 150 %

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 31

Phoenix I.D.: CC40696

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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Phyllis Shiller, Laboratory Director
February 07, 2019
Official Report Release To Follow

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		02/04/19	12:00
Location Code:	TRC-PCBDAS	Received by:	CP	02/05/19	12:15
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222149.5603.0710				

Laboratory Data

SDG ID: GCC40692
Phoenix ID: CC40697

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 32

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				02/05/19	X/KL/AK/S	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1221	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1232	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1242	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1248	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1254	81	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1260	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1262	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1268	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	02/06/19	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	1000	02/06/19	SC	30 - 150 %
% TCMX	Diluted Out		%	1000	02/06/19	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	1000	02/06/19	SC	30 - 150 %

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 32

Phoenix I.D.: CC40697

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
February 07, 2019
Official Report Release To Follow

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		02/04/19	10:30
Location Code:	TRC-PCBDAS	Received by:	CP	02/05/19	12:15
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222149.5603.0710				

Laboratory Data

SDG ID: GCC40692
Phoenix ID: CC40698

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 33

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				02/05/19	X/KL/AK/S	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	3.3	mg/Kg	100	02/06/19	SC	SW8082A
PCB-1221	ND	3.3	mg/Kg	100	02/06/19	SC	SW8082A
PCB-1232	ND	3.3	mg/Kg	100	02/06/19	SC	SW8082A
PCB-1242	ND	3.3	mg/Kg	100	02/06/19	SC	SW8082A
PCB-1248	ND	3.3	mg/Kg	100	02/06/19	SC	SW8082A
PCB-1254	28	3.3	mg/Kg	100	02/06/19	SC	SW8082A
PCB-1260	ND	3.3	mg/Kg	100	02/06/19	SC	SW8082A
PCB-1262	ND	3.3	mg/Kg	100	02/06/19	SC	SW8082A
PCB-1268	ND	3.3	mg/Kg	100	02/06/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	100	02/06/19	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	100	02/06/19	SC	30 - 150 %
% TCMX	Diluted Out		%	100	02/06/19	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	100	02/06/19	SC	30 - 150 %

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 33

Phoenix I.D.: CC40698

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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Phyllis Shiller, Laboratory Director
February 07, 2019
Official Report Release To Follow

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		02/04/19	11:12
Location Code:	TRC-PCBDAS	Received by:	CP	02/05/19	12:15
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222149.5603.0710				

Laboratory Data

SDG ID: GCC40692
Phoenix ID: CC40699

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 34

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				02/05/19	XKLAK/S	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	32	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1221	ND	32	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1232	ND	32	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1242	ND	32	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1248	ND	32	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1254	76	32	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1260	ND	32	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1262	ND	32	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1268	ND	32	mg/Kg	1000	02/07/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% TCMX	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	1000	02/07/19	SC	30 - 150 %

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 34

Phoenix I.D.: CC40699

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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February 07, 2019
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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		02/04/19	11:35
Location Code:	TRC-PCBDAS	Received by:	CP	02/05/19	12:15
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222149.5603.0710				

Laboratory Data

SDG ID: GCC40692
Phoenix ID: CC40700

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 35

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				02/05/19	X/KL/AK/S	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1221	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1232	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1242	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1248	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1254	130	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1260	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1262	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
PCB-1268	ND	32	mg/Kg	1000	02/06/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	02/06/19	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	1000	02/06/19	SC	30 - 150 %
% TCMX	Diluted Out		%	1000	02/06/19	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	1000	02/06/19	SC	30 - 150 %

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 35

Phoenix I.D.: CC40700

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
February 07, 2019
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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2019

FOR: Attn: Erik Plimpton
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		02/04/19	12:15
Location Code:	TRC-PCBDAS	Received by:	CP	02/05/19	12:15
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	222149.5603.0710				

Laboratory Data

SDG ID: GCC40692
Phoenix ID: CC40701

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 36

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction for PCB	Completed				02/05/19	X/KL/AK/S	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1221	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1232	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1242	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1248	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1254	68	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1260	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1262	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
PCB-1268	ND	33	mg/Kg	1000	02/07/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% TCMX	Diluted Out		%	1000	02/07/19	SC	30 - 150 %
% TCMX (Confirmation)	Diluted Out		%	1000	02/07/19	SC	30 - 150 %

Project ID: CONN DOT PUTNAM MAINTENANCE FACILITY
Client ID: 36

Phoenix I.D.: CC40701

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
February 07, 2019
Official Report Release To Follow

Thursday, February 07, 2019

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCC40692 - TRC-PCBDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC40692	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40692	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40692	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40692	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40692	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	17000	3300	1000	1000	ug/Kg
CC40692	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40692	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40692	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40692	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40693	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40693	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40693	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40693	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40693	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	42000	33000	1000	1000	ug/Kg
CC40693	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40693	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40693	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40693	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40694	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40694	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40694	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40694	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40694	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40694	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40694	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40694	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	77000	33000	1000	1000	ug/Kg
CC40694	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40695	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	150000	32000	1000	1000	ug/Kg
CC40695	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40695	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40695	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40695	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40695	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40695	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40695	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40695	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40696	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40696	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40696	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg

Sample Criteria Exceedances Report

GCC40692 - TRC-PCBDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC40696	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40696	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40696	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40696	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	100000	33000	1000	1000	ug/Kg
CC40696	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40696	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40697	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40697	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40697	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40697	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40697	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	81000	32000	1000	1000	ug/Kg
CC40697	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40697	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40697	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40697	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40698	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40698	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40698	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40698	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40698	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	28000	3300	1000	1000	ug/Kg
CC40698	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40698	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40698	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40698	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	3300	1000	1000	ug/Kg
CC40699	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40699	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40699	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40699	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40699	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40699	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40699	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40699	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	76000	32000	1000	1000	ug/Kg
CC40699	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40700	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	130000	32000	1000	1000	ug/Kg
CC40700	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40700	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40700	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40700	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40700	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg

Thursday, February 07, 2019

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCC40692 - TRC-PCBDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC40700	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40700	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40700	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	32000	1000	1000	ug/Kg
CC40701	$PCB_SOXR	PCB-1268	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40701	$PCB_SOXR	PCB-1016	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40701	$PCB_SOXR	PCB-1221	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40701	$PCB_SOXR	PCB-1232	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40701	$PCB_SOXR	PCB-1242	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40701	$PCB_SOXR	PCB-1248	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40701	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	68000	33000	1000	1000	ug/Kg
CC40701	$PCB_SOXR	PCB-1260	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg
CC40701	$PCB_SOXR	PCB-1262	CT / Requested PCB RL /	ND	33000	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

3.1 0101 [illegible]

TRC

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

Edition: September 2007
Supersede Previous Edition

CHAIN OF CUSTODY

LAB ID #

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
222125.5603.0710	CONN DOT PUTNAM MAINTENANCE FACILITY		24hr / 48hr / X 3day / 5day
SIGNATURE: [signature]	INSPECTOR: CARMEN JACKO		24hr / 48hr / 3day / 5day

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	EPA 8082 (3540)					NOTES
27	2-4-19	1110		x	CENTER @ D SIDE	x		406	92		
28		1150		x	CENTER @ B SIDE	x		406	93		
29		1020		x	B SIDE	x		406	94		12 INCH ASSOCIATED WITH EJ1
30		1100		x	A SIDE	x		406	95		
31		1125		x	D SIDE	x		406	96		
32		1200		x	C SIDE	x		406	97		
33		1030		x	B SIDE	x		406	98		24 INCH
34		1112		x	A SIDE	x		406	99		
35		1135		x	D SIDE	x		407	00		
36		1215		x	C SIDE	x		407	01		
											SB-1
											rcvd 1-4oz jar per sample

sample matrix concrete

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
[signature]	2-4-19	[signature]		2-5-19	[signature]
(Printed) CARMEN JACKO	Time:	(Printed) G. Howen	(Printed)	Time: 11:40	(Printed) 2/5/19 12:15

Remarks: SEND TO EPLIMPTON@TRCSOLUTIONS.COM

Page 1 of 1

DAS RATES APPLY

SAMPLES 33-36 - HOLD UNTIL RESULTS RECEIVED FROM SAMPLES 27-29 THEN CONTACT E PLIMPTON FOR FURTHER INSTRUCTION

APPENDIX L

2001 PRIOR INSPECTION REPORTS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

subject: Asbestos Removal

memorandum

date: June 5, 2002

to: Property & Facilities Services Asbestos Book
Regional Office Asbestos Site Book
Regional Office Asbestos Book
Safety Asbestos Book
Safety Building Copy of Asbestos Book

from: David A. Hartley
Plant Facilities Engineer II
Property and Facilities Services
Bureau of Finance and Administration

The following asbestos material was abated at the **Putnam Maintenance and Repair Garage** on or about **May 2002**. This abatement was performed by Petco under the supervision of the State of Connecticut's Department of Public Works.

- Reference samples # 101, 102, and 103

Please file this in the appropriate asbestos book as noted above.

DAH/dmm

cc: Daniel J. Smachetti – David A. Hartley

2 R2
2 Sabel

ENVIROMED SERVICES, INC.

Asbestos Inspection Report
for
Department of Transportation
Putnam Maintenance and Repair Garage
Buildings #81-174 / 81-294 / 94-462
Putnam, Connecticut

prepared for:

State of Connecticut
Department of Transportation
Newington, Connecticut 06111

August 21 & 22, 2001

EnviroMed Project # IH-01-651

25 Science Park • New Haven, CT 06511
(203) 786-5580 • facsimile (203) 786-5579

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	Summary of Results	1
II.	SAMPLE LOCATION DIAGRAMS	5
III.	SAMPLE LOG AND RESULTS TABLE	9
IV.	LABORATORY ANALYSIS SHEETS	15

I. PROJECT NARRATIVE

Overview

On August 21 & 22, 2001, state-licensed inspectors from EnviroMed Services, Inc. (EnviroMed) performed an inspection at the DOT - Putnam Maintenance and Repair Garage, located in Putnam, Connecticut. The purpose of this inspection was to identify the presence of asbestos in suspect building materials in Buildings #81-174, #81-294, and #94-462 so that any asbestos containing materials could be removed prior to renovations.

Samples were collected from building #81-174, and #94-462 according to 40 CFR Part 763.86 and 29 CFR Part 1926.1101, and analyzed using Polarized Light Microscopy (PLM). No suspect asbestos containing materials were found on building #81-294.

A total of one hundred one (131) bulk samples were collected. The materials sampled included: perimeter flashing cement, mechanical unit flashing cement, chimney flashing cement, gray patching cement, pitch box cement, flashing caulk, gutter seam sealer, all layers of built up roofing, exterior window frame caulk, exterior door frame caulk, bay door column caulk, bay door gasket caulk, two types of louvre vent frame caulk, wood siding caulk, window glazing on three types of windows, interior door frame caulk, floor expansion joint, pressboard, wallboard, wallboard joint compound, 12" white with gray streaks vinyl floor tile and associated mastic, 12" cream with brown streaks vinyl floor tile and associated mastic, 4" brown cove molding and associated glue, 2'x4' suspended ceiling tile, 12" fixed ceiling tile, various types of chimney breeching cement, exhaust fan frame caulk, 18" boiler breeching insulation, 30" boiler breeching insulation, 36" boiler breeching insulation, white cloth gasket, air cell pipe insulation, mudded pipe fitting insulation, black asphalt shingles, black asphalt roll roofing, flashing caulk, braided wire insulation, insulator panel, heavy braided wire insulation, non-conductive caulk, and red asphalt shingle on building #94-462.

Refer to Section II, Bulk Sample Location Diagrams, for sample locations and identification.

Summary of Results

Carolina Environmental, Inc's accredited asbestos laboratory (NVLAP #101768-0) analyzed the bulk samples. Section III presents the complete list of analytical results for samples collected. The following presents the locations and estimated quantities of materials found to contain asbestos greater than 1.0 percent.

Building #81-174

Roof

There is approximately 850 square feet of perimeter flashing located on this building. This material was found to contain 3-5 percent asbestos.

There is approximately 60 square feet of flashing cement located around the mechanical units and chimneys on this building. This material was found to contain 5-10 percent asbestos.

There is approximately 30 square feet of gray patching cement located on this building. This material was found to contain 10 percent asbestos.

There is approximately 1 square foot of pitch box cement located on this building. This material was found to contain 10 percent asbestos.

Exterior

There is approximately 620 linear feet of exterior window frame caulk located on this building. This material was found to contain 7 percent asbestos.

There is approximately 126 linear feet of exterior door frame caulk located on this building. This material was found to contain 7 percent asbestos.

There is approximately 270 linear feet of bay door column caulk located on this building. This material was found to contain 5 percent asbestos.

Interior

There is approximately 210 square feet of interior window glazing located on the type-III windows in the repair garage bays. This material was found to contain 2 percent asbestos.

There is approximately 140 square feet of interior window glazing located on the type-I windows in the maintenance garage bays. This material was found to contain 3 percent asbestos.

There is approximately 2 square feet of type-I chimney breeching cement located in the blacksmith shop. This material was found to contain 50-60 percent asbestos.

There is approximately 2 square feet of type-II chimney breeching cement located in the tire garage bays. This material was found to contain 15 percent asbestos.

Repair Office

There is approximately 16 square feet of aircell pipe insulation and 4 square feet of mudded pipe fitting insulation located in the repair office. These materials were found to contain 35 percent asbestos.

Boiler Room

There is approximately 12 square feet of white cloth gasket located on the boiler's flue cleanout. This material was found to contain 35 percent asbestos.

The heavy braided electrical wire insulation located on the main switch/panel was found to contain 40-45 percent asbestos. This material was not quantified due to physical constraints which made the material inaccessible.

There is approximately less than 1 square feet of non-conductive caulk located on the boiler emergency control panel. This material was found to 12 percent asbestos.

Non-Asbestos Containing Materials Found During the Inspection

The following materials were found to contain legally insignificant amounts (0–1 percent) of asbestos: flashing caulk, gutter seam sealer, all layers of built up roofing, bay door gasket caulk, various types of louvre vent frame caulk, wood siding caulk, interior door frame caulk, floor expansion joint, pressboard, wallboard, wallboard joint compound, 12" white with gray streaks vinyl floor tile and associated mastic, 12" cream with brown streaks vinyl floor tile and associated mastic, 4" brown cove molding and associated glue, 2'x4' suspended ceiling tile, 12" fixed ceiling tile, exhaust fan frame caulk, 18" boiler breeching insulation, 30" boiler breeching insulation, 36" boiler breeching insulation, black asphalt shingles, black asphalt roll roofing, flashing caulk, braided wire insulation, insulator panel, and red asphalt shingle on building #94-462.

See Section IV for a copy of the laboratory analysis sheets for the samples collected.

Additional Notes:

1. EnviroMed strongly recommends the use of Transmission Electron Microscopy (TEM) on vinyl floor tiles in cases where both the vinyl floor tile and flooring mastic were found to contain 1% or less asbestos using Polarized Light Microscopy (PLM). PLM has been found to give "false negative" results on floor tile samples due to the fact that the asbestos fibers are tightly bound into the matrix of the floor tile. As a result the asbestos cannot be easily detected using PLM. The use of the TEM analytical method will definitively determine whether or not the floor tile contains legally significant amounts of asbestos.

2. The possibility exists that suspect asbestos-containing materials may be located behind fixed walls, under fixed flooring or above fixed ceilings. During renovation activities, upon the penetration or demolition of a fixed wall or ceiling, should any suspect materials be seen or become accessible, all activities shall cease and the materials shall be sampled by a licensed inspector to determine the presence of asbestos.

3. This inspection report shall not be used as a scope of work for asbestos abatement. The asbestos design specifications prepared by a licensed asbestos project designer shall only be utilized for the asbestos abatement.

III. SAMPLE LOG AND RESULTS TABLE

Sample Number	Location	Material Sampled	Percent Asbestos
1	building # 81-174 main building roof	perimeter flashing cement	3
2	building # 81-174 main building roof	perimeter flashing cement	5
3	building # 81-174 main building roof	mechanical unit flashing cement	5
4	building # 81-174 main building roof	mechanical unit flashing cement	5
5	building # 81-174 main building roof	chimney flashing cement	10
6	building # 81-174 main building roof	chimney flashing cement	10
7	building # 81-174 main building roof	gray patching cement	10
8	building # 81-174 main building roof	gray patching cement	10
9	building # 81-174 main building roof	pitch box cement	10
10	building # 81-174 main building roof	pitch box cement	10
11	building # 81-174 main building roof	counter flashing caulk C_{12}	NAD
12	building # 81-174 main building roof	counter flashing caulk C_{12}	NAD
13	building # 81-174 main building roof	gutter seam sealer SS_1	NAD
14	building # 81-174 main building roof	gutter seam sealer SS_1	NAD
15	building # 81-174 main building roof	built up roofing top layer	NAD
16	building # 81-174 main building roof	built up roofing second layer	NAD
17	building # 81-174 main building roof	built up roofing third layer	NAD
18	building # 81-174 main building roof	built up roofing fourth layer	NAD
19	building # 81-174 main building roof	built up roofing fifth layer	NAD
20	building # 81-174 main building roof	built up roofing bottom layer	NAD
21	building # 81-174 main building roof	built up roofing top layer	NAD
22	building # 81-174 main building roof	built up roofing second layer	NAD
23	building # 81-174 main building roof	built up roofing third layer	NAD
24	building # 81-174 main building roof	built up roofing fourth layer	NAD

NAD - No Asbestos Detected

Sample Number	Location	Material Sampled	Percent Asbestos
25	building # 81-174 main building roof	built up roofing fifth layer	NAD
26	building # 81-174 main building roof	built up roofing sixth layer	NAD
27	building # 81-174 main building roof	built up roofing bottom layer	NAD
28	building # 81-174 main building roof	built up roofing top layer	NAD
29	building # 81-174 main building roof	built up roofing second layer	NAD
30	building # 81-174 main building roof	built up roofing third layer	NAD
31	building # 81-174 main building roof	built up roofing fourth layer	NAD
32	building # 81-174 main building roof	built up roofing fifth layer	NAD
33	building # 81-174 main building roof	built up roofing bottom layer	NAD
34	building # 81-174 outside stores	exterior window frame caulk C1	7
35	building # 81-174 exterior bay #1	exterior window frame caulk C1	7
36	building # 81-174 outside stores	exterior door frame caulk C2	7
37	building # 81-174 bay #24	exterior door frame caulk C2	7
38	building # 81-174 bay #13	bay door column caulk C3	NAD
39	building # 81-174 exterior paint bay (bay #12)	bay door column caulk C4	5
40	building # 81-174 bay #15	bay door gasket caulk C5	NAD
41	building # 81-174 bay #7	bay door gasket caulk C5	NAD
42	building # 81-174 generator shack	exterior louvre vent frame caulk (type 1) C6	NAD
43	building # 81-174 generator shack	exterior louvre vent frame caulk (type 1) C6	NAD
44	building # 81-174 paint bay (bay #12)	exterior louvre vent frame caulk (type 2) C7	NAD
45	building # 81-174 paint bay (bay #12)	exterior louvre vent frame caulk (type 2) C7	NAD
46	building # 81-174 ext. wall between bays #7 & #8	exterior wood siding caulk C8	NAD
47	building # 81-174 ext. wall between bays #7 & #8	exterior wood siding caulk C8	NAD
48	building # 81-174 bay #15	interior window glazing (type 1) WG1	NAD
49	building # 81-174 bay #17	interior window glazing (type 1)	3
50	building # 81-174 bay #23	interior window glazing (type 1)	3

Sample as separate caulk

Garage bay door frames throughout

NAD - No Asbestos Detected

Sample Number	Location	Material Sampled	Percent Asbestos
51	building # 81-174 bay #24	interior window glazing (type 2) WG2	NAD
52	building # 81-174 stores	interior window glazing (type 2)	NAD
53	building # 81-174 bay #1	interior window glazing (type 2)	NAD
54	building # 81-174 grease bay (bay #10)	interior window glazing (type 3) WG3	2
55	building # 81-174 bay #5	interior window glazing (type 3)	2
56	building # 81-174 bay #1	interior window glazing (type 3)	2
57	building # 81-174 bay #7	interior door frame caulk Cg	NAD
58	building # 81-174 hall #2	interior door frame caulk Cg	NAD
59	building # 81-174 grease bay (bay #9)	floor expansion joint EJ1	NAD
60	building # 81-174 bay #22	floor expansion joint EJ1	NAD
61	building # 81-174 maintenance supervisor's office	pressboard/masanite	NAD
62	building # 81-174 maintenance supervisor's office	pressboard/masanite	NAD
63	building # 81-174 generator shack	wallboard	NAD
64	building # 81-174 generator shack	wallboard	NAD
65	building # 81-174 generator shack	wallboard joint compound	NAD
66	building # 81-174 generator shack	wallboard joint compound	NAD
67	building # 81-174 generator shack	wallboard joint compound	NAD
68	building # 81-174 repair office	12" cream with brown streaks vinyl floor tile FT1	NAD
69	building # 81-174 repair office	12" cream with brown streaks vinyl floor tile	NAD
70	building # 81-174 repair office	mastic under 12" cream with brown streaks vinyl floor tile	NAD
71	building # 81-174 repair office	mastic under 12" cream with brown streaks vinyl floor tile	NAD
72	building # 81-174 clerk room	12" white with gray streaks vinyl floor tile FT2	NAD
73	building # 81-174 kitchen	12" white with gray streaks vinyl floor tile	NAD
74	building # 81-174 clerk room	mastic under 12" white with gray streaks vinyl floor tile	NAD
75	building # 81-174 kitchen	mastic under 12" white with gray streaks vinyl floor tile	NAD
76	building # 81-174 repair office	4" brown cove molding CB1	NAD

unable to distinguish from (1) WG1 or WG3

NAD - No Asbestos Detected

Sample Number	Location	Material Sampled	Percent Asbestos
77	building # 81-174 repair office	4" brown cove molding CB1	NAD
78	building # 81-174 repair office	glue under 4" brown cove molding	NAD
79	building # 81-174 repair office	glue under 4" brown cove molding	NAD
80	building # 81-174 clerk office	2'x4' suspended ceiling tile CT1	NAD
81	main buidling repairoffice	2'x4' suspended ceiling tile	NAD
82	building # 81-174 kitchen	12" fixed ceiling tile CT2	NAD
83	building # 81-174 repair office	12" fixed ceiling tile	NAD
84	building # 81-174 blacksmith shop (bay #8)	chimney breeching cement (type 1)	60
85	building # 81-174 blacksmith shop (bay #8)	chimney breeching cement (type 1)	NAD
86	building # 81-174 blacksmith shop (bay #8)	chimney breeching cement (type 1)	50
87	building # 81-174 tire bay (bay #11)	chimney breeching cement (type 2)	15
88	building # 81-174 tire bay (bay #11)	chimney breeching cement (type 2)	15
89	building # 81-174 tire bay (bay #11)	chimney breeching cement (type 2)	15
90	building # 81-174 blacksmith shop (bay #8)	exhaust fan frame caulk C15	NAD
91	building # 81-174 blacksmith shop (bay #8)	exhaust fan frame caulk C10	NAD
92	building # 81-174 boiler room	18" boiler breeching insulation (round)	NAD
93	building # 81-174 boiler room	18" boiler breeching insulation (round)	NAD
94	building # 81-174 boiler room	18" boiler breeching insulation (round)	NAD
95	building # 81-174 boiler room	36" boiler breeching insulation (round)	NAD
96	building # 81-174 boiler room	36" boiler breeching insulation (round)	NAD
97	building # 81-174 boiler room	36" boiler breeching insulation (round)	NAD
98	building # 81-174 boiler room	30" boiler breeching insulation (square)	NAD
99	building # 81-174 boiler room	30" boiler breeching insulation (square)	NAD
100	building # 81-174 boiler room	30" boiler breeching insulation (square)	NAD
101	building # 81-174 boiler room	white cloth gasket	35
102	building # 81-174 boiler room	white cloth gasket	35

NAD - No Asbestos Detected

Glue?

No longer there

Unable to verify no longer exists due to metal cover assume still there

Sample Number	Location	Material Sampled	Percent Asbestos
103	building # 81-174 boiler room	white cloth gasket	35
104	building # 81-174 repair office	air cell pipe insulation	35
105	building # 81-174 repair office	air cell pipe insulation	35
106	building # 81-174 repair office	air cell pipe insulation	35
107	building # 81-174 repair office	mudded pipe fitting insulation	35
108	building # 81-174 repair office	mudded pipe fitting insulation	35
109	building # 81-174 repair office	mudded pipe fitting insulation	35
110	building # 81-174 generator shack roof	black asphalt shingle AS1	NAD
111	building # 81-174 generator shack roof	black asphalt shingle AS1	NAD
112	building # 81-174 stores roof awning	black ashphalt roll roofing AR1	NAD
113	building # 81-174 stores roof awning	black ashphalt roll roofing AR1	NAD
114	building # 81-174 generator shack roof	flashing caulk C11	NAD
115	building # 81-174 generator shack roof	flashing caulk C11	NAD
116	building # 81-174 break room	braided wire insulation	NAD
117	building # 81-174 break room	braided wire insulation	NAD
118	building # 81-174 break room	insulator panel (horizontal - thin black)	NAD
119	building # 81-174 break room	insulator panel (horizontal - thin black)	NAD
120	building # 81-174 break room	insulator panel - (vertical - thick black w/ brown interior)	NAD
121	building # 81-174 break room	insulator panel - (vertical - thick black w/ brown interior)	NAD
122	building # 81-174 - boiler room main switch & main panel	heavy braided wire insulation	40
123	building # 81-174 boiler room main switch & main panel	heavy braided wire insulation	45
124	building # 81-174 boiler room emergency panel #7	braided wire insulation	NAD
125	building # 81-174 boiler room emergency panel #7	braided wire insulation	NAD
126	building # 81-174 boiler room emergency panel #7	non-conductive caulk	12
127	building # 81-174 boiler room emergency panel #7	non-conductive caulk	12

assumed still there unable to verify

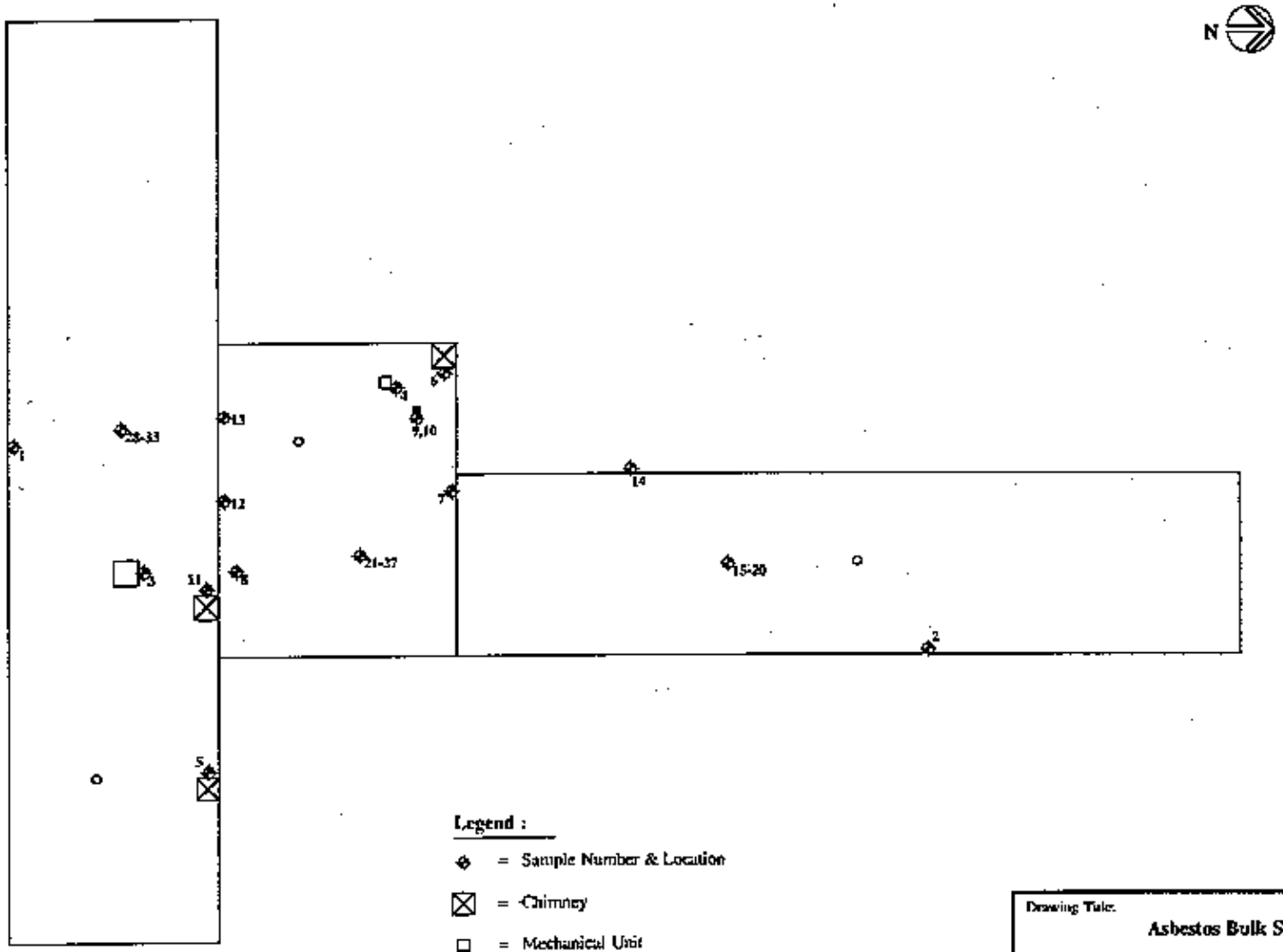
NAD - No Asbestos Detected

Sample Number	Location	Material Sampled	Percent Asbestos
128	building # 81-174 hallway # 1	insulator panel (vertical)	NAD
129	building # 81-174 hallway # 2	insulator panel (vertical)	NAD
130	building # 94-462 salt shed roof	red asphalt shingle	NAD
131	building # 94-462 salt shed roof	red asphalt shingle	NAD

NAD - No Asbestos Detected

>NOT in Scope + new metal roof

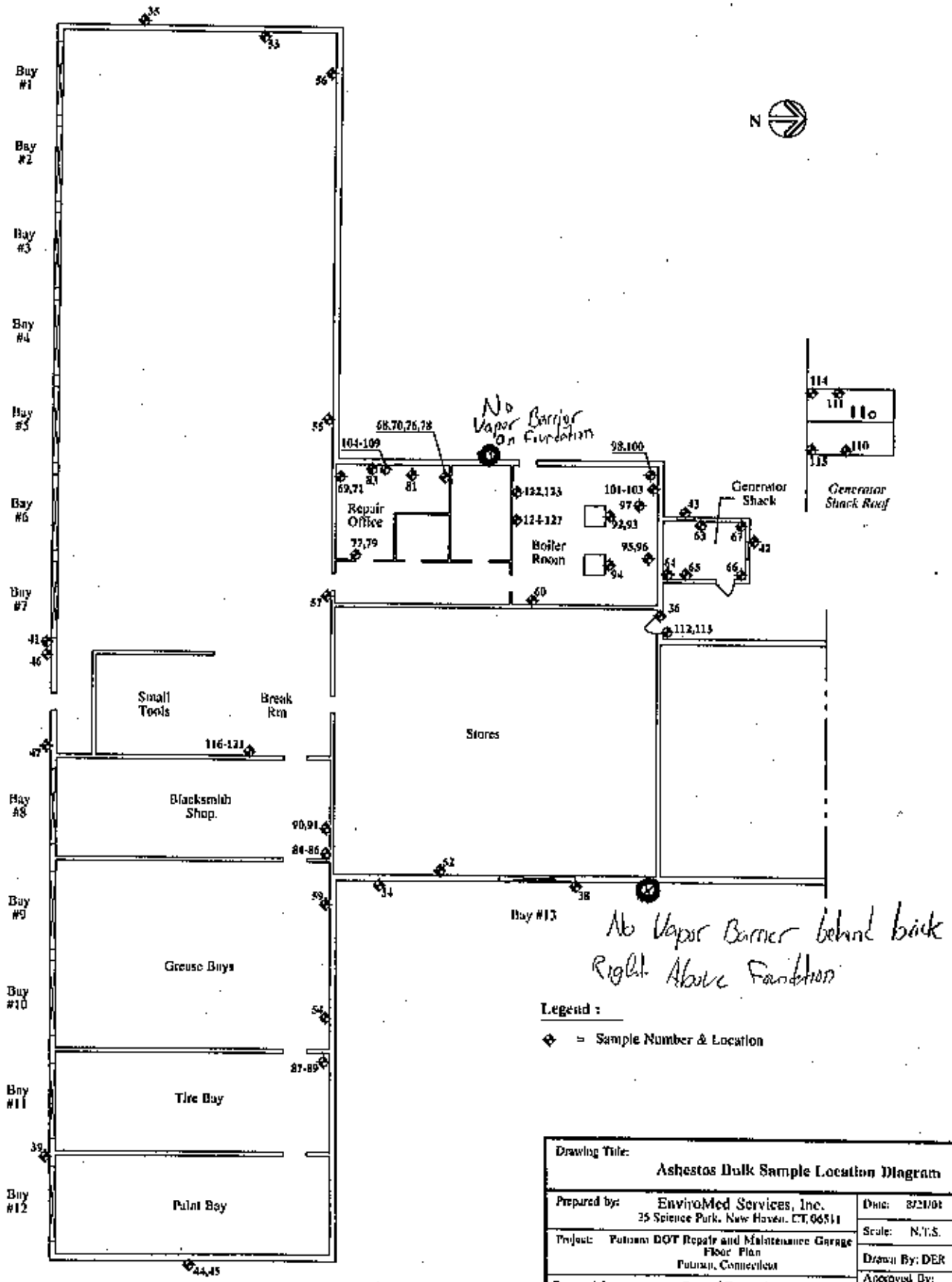
II. SAMPLE LOCATION DIAGRAMS



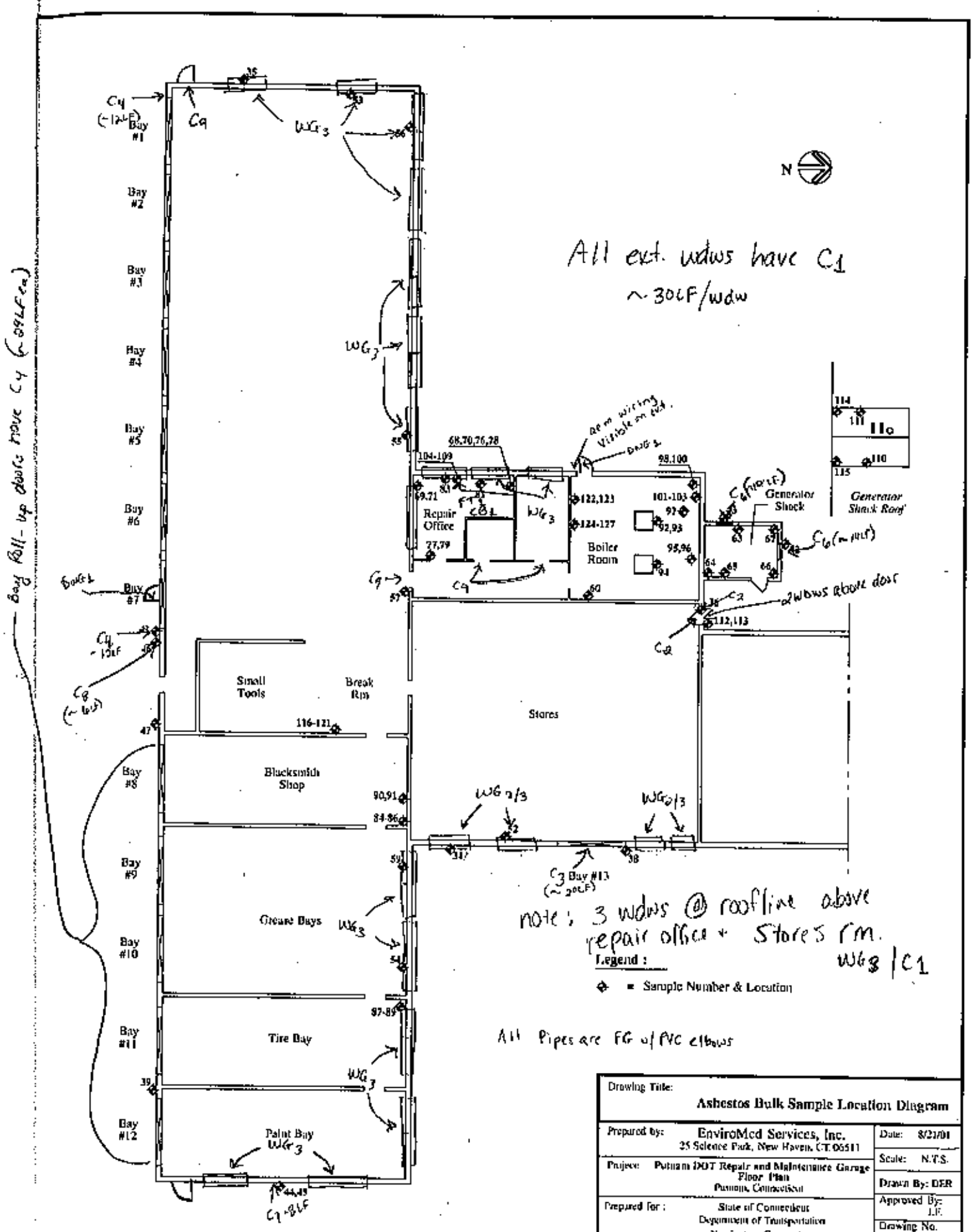
Legend :

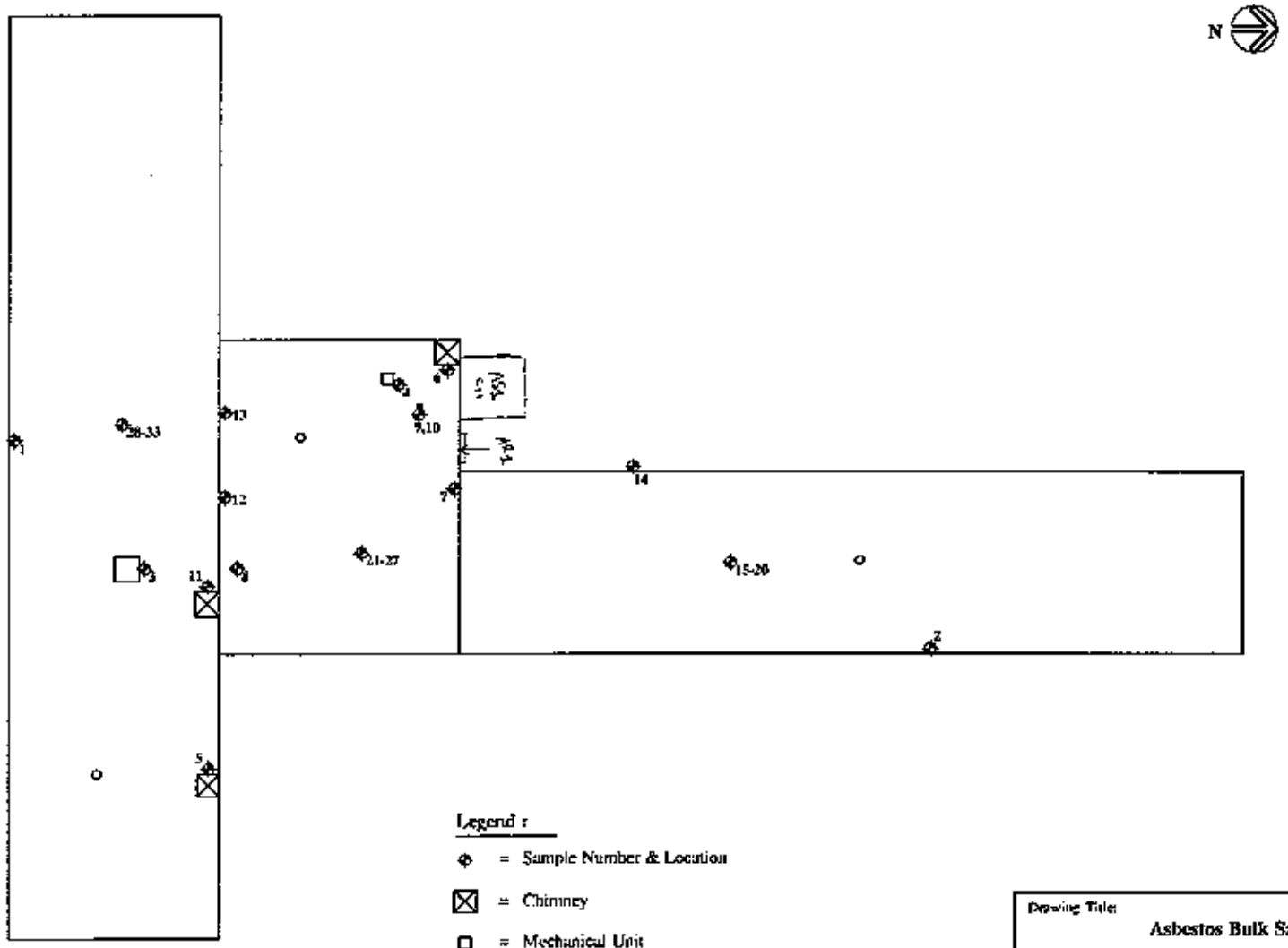
- ◆ = Sample Number & Location
- ⊠ = Chimney
- □ = Mechanical Unit
- ○ = Vent Tube
- ▪ = Pitch Box

Drawing Title:	Asbestos Bulk Sample Location Diagram
Prepared by:	EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511
Project:	Putnam DOT Repair and Maintenance Garage Roof Plan Putnam, Connecticut
Prepared for :	State of Connecticut Department of Transportation Newington, Connecticut
BMS # 01-651	
Date:	8/21/01
Scale:	N.T.S.
Drawn By:	DER
Approved By:	J.F.
Drawing No.	1 of 3



Drawing Title: Asbestos Bulk Sample Location Diagram	
Prepared by: EnviroMed Services, Inc. 35 Science Park, New Haven, CT 06511	Date: 8/21/01
Project: Putnam DOT Repair and Maintenance Garage Floor Plan Putnam, Connecticut	Scale: N.T.S.
	Drawn By: DER
Prepared for: State of Connecticut Department of Transportation Newington, Connecticut	Approved By: J.F.
EMS # 01-01-051	Drawing No. 2 of 3

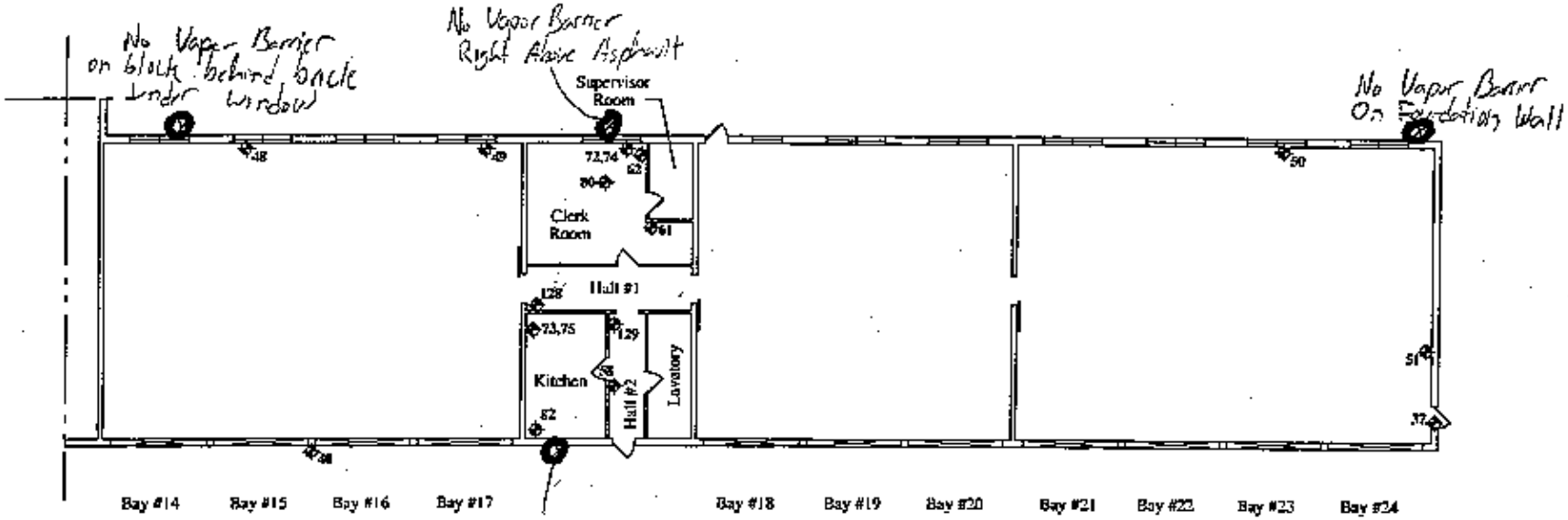

Bay #1
Bay #2
Bay #3
Bay #4
Bay #5
Bay #6
Bay #7
Bay #8
Bay #9
Bay #10
Bay #11
Bay #12
Small Tools
Break Rm
Blacksmith Shop
Grease Bays
Tire Bay
Paint Bay
Repair Office
Boiler Room
Stores
Generator Shack
Generator Shack Roof
N
All ext. wdws have C1
~30LF/wdw
note: 3 wdws @ roofline above repair office + Stores rm.
WG3 / C1
Legend :
= Sample Number & Location
All Pipes are FG w/ PVC elbows
Drawing Title:
Asbestos Bulk Sample Location Diagram
Prepared by:
EnviroMed Services, Inc.
25 Science Park, New Haven, CT 06511
Project:
Putnam DOT Repair and Maintenance Garage
Floor Plan
Putnam, Connecticut
Prepared for :
State of Connecticut
Department of Transportation
Newington, Connecticut
Date: 8/21/01
Scale: N.T.S.
Drawn By: DER
Approved By: J.F.
Drawing No. 2 of 3



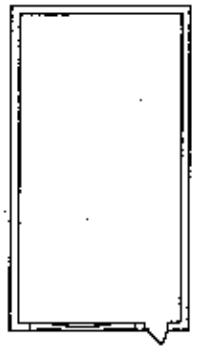
Legend :

- ⌖ = Sample Number & Location
- ☒ = Chimney
- □ = Mechanical Unit
- ○ = Vent Tube
- ■ = Pitch Box

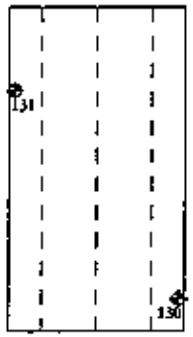
Drawing Title:	**Asbestos Bulk Sample Location Diagram**		
Prepared by:	EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date:	8/21/01
		Scale:	N.T.S.
Project:	Putnam DOT Repair and Maintenance Garage Roof Plan Putnam, Connecticut	Drawn By:	DER
		Approved By:	J.F.
Prepared for:	State of Connecticut Department of Transportation Newington, Connecticut	Drawing No.	1 of 3
EMS # [illegible]			



* Vapor Barriers Present Underneath concrete window sill and on top of Brick (Assume on all windows)



Salt Shed



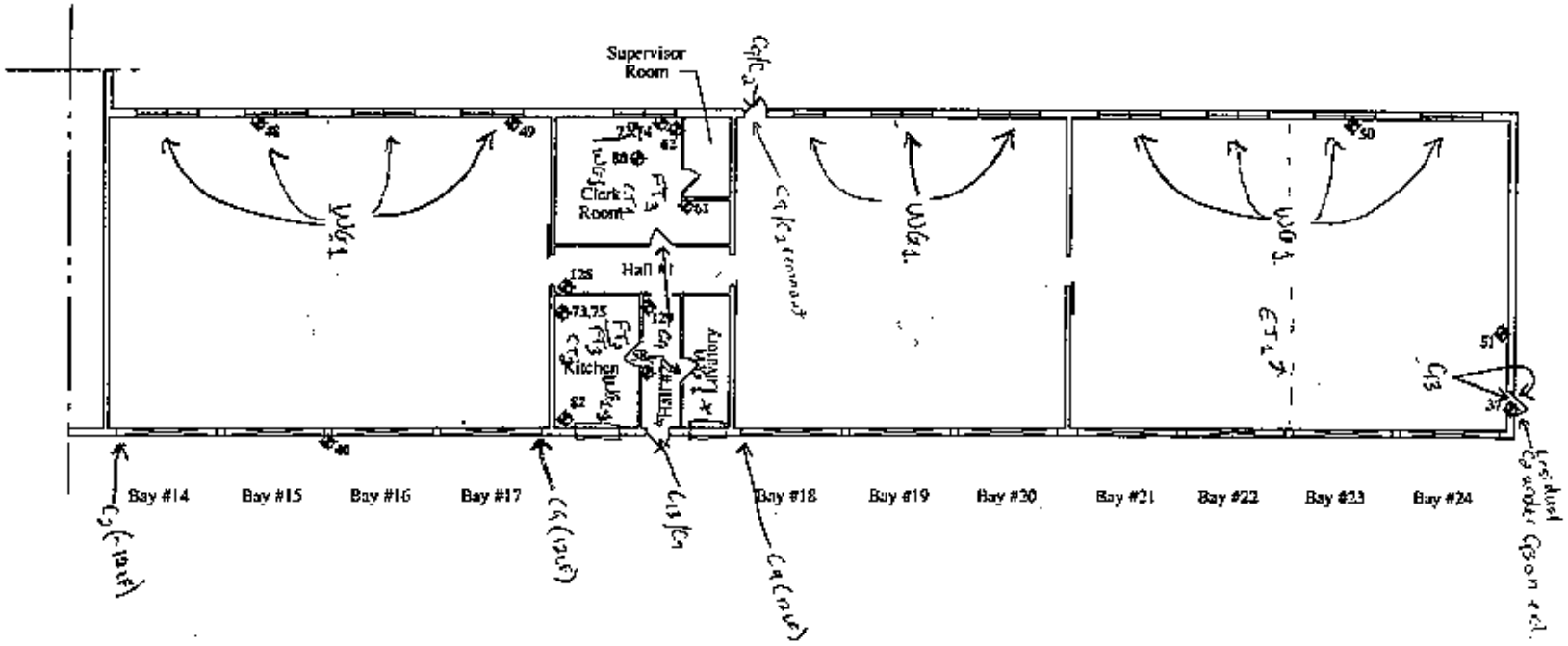
Salt Shed Roof

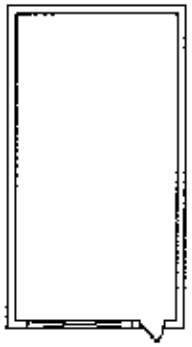
Legend :

◆ = Sample Number & Location

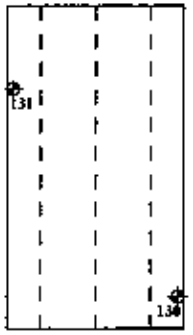
N

Drawing Title: **Asbestos Bulk Sample Location Diagram**	
Prepared by: EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 8/21/01
Project: Putnam DOT Repair and Maintenance Garage Floor Plan Putnam, Connecticut	Scale: N.T.S.
	Drawn By: DER
Prepared for : State of Connecticut Department of Transportation Newington, Connecticut	Approved By: J.F.
EMS # 01-01-651	Drawing No. 3 of 3





Salt Shed



Salt Shed Roof

All ext. windows have CS

All Bay Roll-up doors have CS (exterior)

N

Legend :

◆ = Sample Number & Location

Drawing Title: **Asbestos Bulk Sample Location Diagram**	
Prepared by: EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 8/21/01
Project: Putnam DOT Repair and Maintenance Garage Floor Plan Putnam, Connecticut	Scale: N.T.S.
	Drawn By: DER
Prepared for: State of Connecticut Department of Transportation Newington, Connecticut	Approved By: J.F.
	Drawing No. 3

IV. LABORATORY ANALYSIS SHEETS

CAROLINA ENVIRONMENTAL, INC.
102-H Commonwealth Court, Cary, NC 27511
Phone (919) 481-1413 Fax (919) 481-1442

LABORATORY REPORT
ASBESTOS BULK ANALYSIS

ent: **Enviromed Services, Inc.**
25 Science Park
New Haven , CT 06511

CEI Lab Code: A01-4657
Received: 09-17-01
Analyzed: 09-21-01
Analyst: Gregory J. Hanes

oject: DOT / Putnam Repair
Project # EMS # IH-01-651

CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
1	A57528	FLASHING Heterogeneous, Black, Grey, Fibrous, Bound CHRY 3 % BIND 82 % CELL 15 %	CHRY 3 %
2	A57529	FLASHING Heterogeneous, Black, Grey, Fibrous, Bound CHRY 5 % BIND 80 % CELL 15 %	CHRY 5 %
3	A57530	FLASHING Heterogeneous, Black, Grey, Fibrous, Bound CHRY 5 % BIND 80 % CELL 15 %	CHRY 5 %
4	A57531	FLASHING Heterogeneous, Black, Grey, Fibrous, Bound CHRY 5 % BIND 80 % CELL 15 %	CHRY 5 %
5	A57532	FLASHING Heterogeneous, Black, Grey, Fibrous, Bound CHRY 10 % BIND 75 % CELL 15 %	CHRY 10%
6	A57533	FLASHING Heterogeneous, Black, Grey, Fibrous, Bound CHRY 10 % BIND 80 % CELL 10 %	CHRY 10%

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Lab Code: A01-4657

CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
7	A57534	PATCH CEMENT Heterogeneous, Black, Grey, Fibrous, Bound CHRY 10 % BIND 80 % CELL 10 %	CHRY 10%
8	A57535	PATCH CEMENT Heterogeneous, Black, Grey, Fibrous, Bound CHRY 10 % BIND 80 % CELL 10 %	CHRY 10%
9	A57536	CEMENT Heterogeneous, Black, Grey, Fibrous, Bound CHRY 10 % BIND 80 % CELL 10 %	CHRY 10%
10	A57537	CEMENT Heterogeneous, Black, Grey, Fibrous, Bound CHRY 10 % BIND 80 % CELL 10 %	CHRY 10%
11	A57538	CAULKING Heterogeneous, Black, Grey, Non-fibrous, Bound BIND 97 % CELL 3 %	ND
12	A57539	CAULKING Heterogeneous, Black, Grey, Non-fibrous, Bound BIND 95 % CELL 5 %	ND
13	A57540	SEALER Heterogeneous, Black, Grey, Fibrous, Bound BIND 85 % CELL 15 %	ND
14	A57541	SEALER Heterogeneous, Black, Grey, Fibrous, Bound BIND 85 % CELL 15 %	ND

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Lab Code: A01-4657

CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
15	A57542	ROOFING (BUILT UP) Heterogeneous, Black, Fibrous, Bound BIND 65 % CELL 5 % FBGL 30 %	ND
16	A57543A	ROOFING (BUILT UP) BLACK Heterogeneous, Black, Fibrous, Bound BIND 65 % CELL 5 % FBGL 30 %	ND
	A57543B	ROOFING (BUILT UP) TAN Heterogeneous, Tan, Fibrous, Loosely Bound BIND 15 % CELL 55 % PERL 15 % FBGL 15 %	ND
17	A57544	ROOFING (BUILT UP) Heterogeneous, Tan, Fibrous, Bound BIND 10 % CELL 55 % PERL 20 % FBGL 15 %	ND
18	A57545	ROOFING (BUILT UP) Heterogeneous, Tan, Black, Fibrous, Bound BIND 20 % CELL 50 % PERL 20 % FBGL 10 %	ND
19	A57546	ROOFING (BUILT UP) Heterogeneous, Tan, Fibrous, Bound BIND 10 % CELL 70 % PERL 20 % FBGL 10 %	ND
20	A57547	ROOFING (BUILT UP) Heterogeneous, Black, Grey, Fibrous, Bound BIND 50 % CELL 40 % FBGL 10 %	ND
21	A57548	ROOFING (BUILT UP) Heterogeneous, Black, Grey, Fibrous, Bound BIND 75 % CELL 5 % FBGL 20 %	ND

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Lab Code: A01-4657

CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
22	A57549A	ROOFING (BUILT UP) Heterogeneous, Black, Fibrous, Bound BIND 70 % CELL 10 % FBGL 20 %	ND
	A57549B	ROOFING (BUILT UP) Heterogeneous, Tan, Fibrous, Bound BIND 15 % CELL 65 % PERL 15 % FBGL 5 %	ND
23	A57550	ROOFING (BUILT UP) Heterogeneous, Tan, Fibrous, Bound BIND 15 % CELL 65 % PERL 15 % FBGL 5 %	ND
24	A57551A	ROOFING (BUILT UP) Heterogeneous, Black, Fibrous, Bound BIND 70 % CELL 10 % FBGL 20 %	ND
	A57551B	ROOFING (BUILT UP) Heterogeneous, Tan, Fibrous, Bound BIND 15 % CELL 65 % PERL 15 % FBGL 5 %	ND
25	A57552A	ROOFING (BUILT UP) Heterogeneous, Black, Fibrous, Bound BIND 70 % CELL 10 % FBGL 20 %	ND
	A57552B	ROOFING (BUILT UP) Heterogeneous, Tan, Fibrous, Bound BIND 15 % CELL 65 % PERL 15 % FBGL 5 %	ND
26	A57553	ROOFING (BUILT UP) Heterogeneous, Tan, Fibrous, Bound BIND 15 % CELL 65 % PERL 15 % FBGL 5 %	ND

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Lab Code: A01-4657

CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
27	A57554	ROOFING (BUILT UP) Heterogeneous, Black, Fibrous, Bound BIND 40 % CELL 60 %	ND
28	A57555	ROOFING (BUILT UP) Heterogeneous, Black, Fibrous, Bound BIND 63 % CELL 2 % FBGL 35 %	ND
29	A57556A	ROOFING (BUILT UP) Heterogeneous, Black, Fibrous, Bound BIND 63 % CELL 2 % FBGL 35 %	ND
[illegible]	A57556B	ROOFING (BUILT UP) Heterogeneous, Tan, Fibrous, Loosely Bound BIND 15 % CELL 55 % PERL 25 % FBGL 5 %	ND
30	A57557	ROOFING (BUILT UP) Heterogeneous, Tan, Fibrous, Bound BIND 15 % CELL 55 % PERL 25 % FBGL 5 %	ND
31	A57558A	ROOFING (BUILT UP) Heterogeneous, Black, Fibrous, Bound BIND 73 % CELL 25 % FBGL 2 %	ND
[illegible]	A57558B	ROOFING (BUILT UP) Heterogeneous, Tan, Fibrous, Loosely Bound BIND 15 % CELL 55 % PERL 25 % FBGL 5 %	ND
32	A57559	ROOFING (BUILT UP) Heterogeneous, Tan, Fibrous, Bound BIND 15 % CELL 55 % PERL 25 % FBGL 5 %	ND

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CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
33	A57560	ROOFING (BUILT UP) Heterogeneous, Black, Brown, Fibrous, Bound BIND 45 % CELL 55 %	ND
34	A57561	CAULKING Heterogeneous, Grey, Brown, Fibrous, Bound CHRY 5 % BIND 78 % CELL 5 % TREM 2 % TALC 10 %	CHRY 5 % TREM 2 %
35	A57562	CAULKING Heterogeneous, Grey, Brown, Fibrous, Bound CHRY 5 % BIND 80 % CELL 5 % TREM 2 % TALC 8 %	CHRY 5 % TREM 2 %
36	A57563	CAULKING Heterogeneous, Grey, Brown, Fibrous, Bound CHRY 5 % BIND 80 % CELL 5 % TREM 2 % TALC 8 %	CHRY 5 % TREM 2 %
37	A57564	CAULKING Heterogeneous, Grey, Red, Fibrous, Bound CHRY 5 % BIND 80 % CELL 5 % TREM 2 % TALC 8 %	CHRY 5 % TREM 2 %
38	A57565	CAULKING Heterogeneous, Grey, Non-fibrous, Bound BIND 95 % CELL 3 % TALC 2 %	ND
39	A57566	CAULKING Heterogeneous, Grey, Fibrous, Bound CHRY 3 % BIND 87 % CELL 3 % TREM 2 % TALC 5 %	CHRY 3 % TREM 2 %
40	A57567	CAULKING Heterogeneous, Grey, Clear, Non-fibrous, Bound BIND 97 % CELL 3 %	ND

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CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
41	A57568	CAULKING Heterogeneous, Off-white, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
42	A57569	CAULKING Heterogeneous, Off-white, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
43	A57570	CAULKING Heterogeneous, Brown, Fibrous, Bound BIND 85 % CELL 15 %	ND
44	A57571	CAULKING Heterogeneous, Off-white, Non-fibrous, Bound BIND 97 % CELL 3 %	ND
45	A57572	CAULKING Heterogeneous, Off-white, Non-fibrous, Bound BIND 97 % CELL 3 %	ND
46	A57573	CAULKING Heterogeneous, Clear, Non-fibrous, Bound BIND 100 % CELL <1 %	ND
47	A57574	CAULKING Heterogeneous, Clear, Non-fibrous, Bound BIND 100 % CELL <1 %	ND
48	A57575	GLAZING Heterogeneous, Grey, Non-fibrous, Bound BIND 98 % CELL 2 %	ND

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CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
49	A57576	GLAZING Heterogeneous, Grey, White, Non-fibrous, Bound CHRY 3 % BIND 95 % CELL 2 %	CHRY 3 %
50	A57577	GLAZING Heterogeneous, Grey, White, Non-fibrous, Bound CHRY 3 % BIND 95 % CELL 2 %	CHRY 3 %
51	A57578	GLAZING Heterogeneous, Grey, White, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
52	A57579	GLAZING Heterogeneous, Grey, White, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
53	A57580	GLAZING Heterogeneous, Grey, White, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
54	A57581	GLAZING Heterogeneous, Grey, White, Non-fibrous, Bound CHRY 2 % BIND 96 % CELL 2 %	CHRY 2 %
55	A57582	GLAZING Heterogeneous, Grey, White, Non-fibrous, Bound CHRY 2 % BIND 96 % CELL 2 %	CHRY 2 %
56	A57583	GLAZING Heterogeneous, Grey, White, Non-fibrous, Bound CHRY 2 % BIND 96 % CELL 2 %	CHRY 2 %

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Lab Code: A01-4657

CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
57	A57584	CAULKING Heterogeneous, Grey, White, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
58	A57585	CAULKING Heterogeneous, Grey, White, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
59	A57586	EXPANSION JOINT Heterogeneous, Black, Brown, Fibrous, Bound BIND 35 % CELL 65 %	ND
60	A57587	EXPANSION JOINT Heterogeneous, Black, Brown, Fibrous, Bound BIND 35 % CELL 65 %	ND
61	A57588	PRESSBOARD Heterogeneous, Tan, White, Fibrous, Loosely Bound BIND 10 % CELL 90 %	ND
62	A57589	PRESSBOARD Heterogeneous, Tan, White, Fibrous, Loosely Bound BIND 10 % CELL 90 %	ND
63	A57590	WALLBOARD Heterogeneous, Grey, Tan, Fibrous, Bound BIND 82 % CELL 15 % FBGL 3 %	ND
64	A57591	WALLBOARD Heterogeneous, Grey, Tan, Fibrous, Bound BIND 82 % CELL 15 % FBGL 3 %	ND

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CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
65	A57592	JOINT COMPOUND Heterogeneous, White, Tan, Non-fibrous, Bound BIND 97 % CELL 3 %	ND
66	A57593	JOINT COMPOUND Heterogeneous, White, Tan, Non-fibrous, Bound BIND 97 % CELL 3 %	ND
67	A57594	JOINT COMPOUND Heterogeneous, White, Tan, Non-fibrous, Bound BIND 90 % CELL 10 %	ND
68	A57595	FLOOR TILE Heterogeneous, Off-white, Non-fibrous, Bound BIND 100 % CELL <1 %	ND
69	A57596	FLOOR TILE Heterogeneous, Off-white, Non-fibrous, Bound BIND 100 % CELL <1 %	ND
70	A57597	MASTIC Heterogeneous, Tan, Non-fibrous, Bound BIND 97 % CELL 3 %	ND
71	A57598	MASTIC Heterogeneous, Tan, Non-fibrous, Bound BIND 97 % CELL 3 %	ND
72	A57599	FLOOR TILE Heterogeneous, Off-white, Non-fibrous, Tightly Bound BIND 100 % CELL <1 %	ND

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Project: DOT / Putnam Repair
Project # EMS # IH-01-651
Lab Code: A01-4657

CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
73	A57600	FLOOR TILE Heterogeneous, Off-white, Non-fibrous, Tightly Bound BIND 100 % CELL <1 %	ND
74	A57601	MASTIC Heterogeneous, Tan, Non-fibrous, Bound BIND 97 % CELL 3 %	ND
75	A57602	MASTIC Heterogeneous, Black, Non-fibrous, Bound BIND 85 % CELL 15 %	ND
76	A57603	COVEBASE Heterogeneous, Brown, Non-fibrous, Tightly Bound BIND 98 % CELL 2 %	ND
77	A57604	COVEBASE Heterogeneous, Brown, Non-fibrous, Tightly Bound BIND 98 % CELL 2 %	ND
78	A57605	GLUE Heterogeneous, Off-white, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
79	A57606	GLUE Heterogeneous, Off-white, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
80	A57607	CEILING TILE Heterogeneous, Grey, White, Fibrous, Loosely Bound BIND 20 % CELL 35 % PERL 20 % FBGL 25 %	ND

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Lab Code: A01-4657

CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
81	A57608	CEILING TILE Heterogeneous, Grey, White, Fibrous, Loosely Bound BIND 20 % CELL 35 % PERL 20 % FBGL 25 %	ND
82	A57609	CEILING TILE Heterogeneous, Tan, Fibrous, Loosely Bound BIND 5 % CELL 95 %	ND
83	A57610	CEILING TILE Heterogeneous, Tan, White, Fibrous, Loosely Bound BIND 10 % CELL 90 %	ND
84	A57611	CEMENT Heterogeneous, Grey, White, Fibrous, Loosely Bound CHRY 60 % BIND 40 %	CHRY 60%
85	A57612	CEMENT Heterogeneous, Grey, White, Fibrous, Loosely Bound BIND 98 % CELL 2 %	ND
86	A57613	CEMENT Heterogeneous, Grey, White, Fibrous, Loosely Bound CHRY 50 % BIND 50 % CELL <1 %	CHRY 50%
87	A57614	CEMENT Heterogeneous, Black, White, Fibrous, Loosely Bound CHRY 15 % BIND 75 % CELL 10 %	CHRY 15%
88	A57615	CEMENT Heterogeneous, Black, White, Fibrous, Loosely Bound CHRY 15 % BIND 75 % CELL 10 %	CHRY 15%

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CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
89	A57616	CEMENT Heterogeneous, Black, White, Fibrous, Loosely Bound CHRY 15 % BIND 75 % CELL 10 %	CHRY 15 %
90	A57617	CAULKING Heterogeneous, Clear, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
91	A57618	CAULKING Heterogeneous, Clear, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
92	A57619	INSULATION Heterogeneous, Off-white, Fibrous, Loosely Bound BIND 83 % CELL 2 % FBGL 15 %	ND
93	A57620	INSULATION Heterogeneous, Off-white, Fibrous, Loosely Bound BIND 83 % CELL 2 % FBGL 15 %	ND
94	A57621	INSULATION Heterogeneous, Off-white, Fibrous, Loosely Bound BIND 83 % CELL 2 % FBGL 15 %	ND
95	A57622	INSULATION Heterogeneous, Grey, Fibrous, Loosely Bound BIND 68 % CELL 2 % FBGL 30 %	ND
96	A57623	INSULATION Heterogeneous, Off-white, Fibrous, Loosely Bound BIND 83 % CELL 2 % FBGL 15 %	ND

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CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
97	A57624A	INSULATION Heterogeneous, Grey, Fibrous, Loosely Bound BIND 68 % CELL 2 % FBGL 30 %	ND
	A57624B	INSULATION Heterogeneous, Blue, Fibrous, Loosely Bound BIND 83 % CELL 2 % FBGL 15 %	ND
98	A57625	INSULATION Heterogeneous, Grey, Fibrous, Loosely Bound BIND 68 % CELL 2 % FBGL 30 %	ND
99	A57626	INSULATION Heterogeneous, Grey, Fibrous, Loosely Bound BIND 68 % CELL 2 % FBGL 30 %	ND
100	A57627	INSULATION Heterogeneous, Off-white, Fibrous, Loosely Bound BIND 83 % CELL 2 % FBGL 15 %	ND
101	A57628	GASKET Heterogeneous, Grey, Fibrous, Bound CHRY 35 % BIND 5 % CELL 60 %	CHRY 35%
102	A57629	GASKET Heterogeneous, Grey, Fibrous, Bound CHRY 35 % BIND 5 % CELL 60 %	CHRY 35%
103	A57630	GASKET Heterogeneous, Grey, Fibrous, Bound CHRY 35 % BIND 5 % CELL 60 %	CHRY 35%

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Lab Code: A01-4657

CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
104	A57631	INSULATION Heterogeneous, Grey, Fibrous, Bound CHRY 35 % BIND 15 % CELL 50 %	CHRY 35%
105	A57632	INSULATION Heterogeneous, Grey, Fibrous, Bound CHRY 35 % BIND 15 % CELL 50 %	CHRY 35%
106	A57633	INSULATION Heterogeneous, Grey, Fibrous, Bound CHRY 35 % BIND 15 % CELL 50 %	CHRY 35%
107	A57634	INSULATION Heterogeneous, White, Fibrous, Bound CHRY 25 % BIND 55 % CELL 10 % AMOS 10 %	CHRY 25% AMOS 10%
108	A57635	INSULATION Heterogeneous, White, Fibrous, Bound CHRY 25 % BIND 55 % CELL 10 % AMOS 10 %	CHRY 25% AMOS 10%
109	A57636	INSULATION Heterogeneous, White, Fibrous, Bound CHRY 25 % BIND 55 % CELL 10 % AMOS 10 %	CHRY 25% AMOS 10%
110	A57637	ROOF SHINGLE Heterogeneous, Black, Grey, Fibrous, Bound BIND 30 % CELL 55 % GRAV 15 %	ND
111	A57638	ROOF SHINGLE Heterogeneous, Black, Grey, Fibrous, Bound BIND 30 % CELL 55 % GRAV 15 %	ND

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CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
112	A57639	ROOFING Heterogeneous, Black, Fibrous, Bound BIND 30 % CELL 55 % GRAV 15 %	ND
113	A57640	ROOFING Heterogeneous, Black, Fibrous, Bound BIND 30 % CELL 55 % GRAV 15 %	ND
114	A57641	CAULKING Heterogeneous, Clear, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
115	A57642	CAULKING Heterogeneous, Clear, Non-fibrous, Bound BIND 98 % CELL 2 %	ND
116	A57643	INSULATION Heterogeneous, Black, Fibrous, Bound BIND 40 % CELL 15 % FBGL 45 %	ND
117	A57644	INSULATION Heterogeneous, Black, Fibrous, Bound BIND 40 % CELL 15 % FBGL 45 %	ND
118	A57645	INSULATION PANEL Heterogeneous, Black, Fibrous, Bound BIND 25 % CELL 75 %	ND
119	A57646	INSULATION PANEL Heterogeneous, Black, Fibrous, Bound BIND 25 % CELL 75 %	ND

CAROLINA ENVIRONMENTAL, INC.
102-H Commonwealth Court, Cary, NC 27511
Phone: 919-481-1413 Fax: 919-481-1442

Project: DOT / Putnam Repair
Project # EMS # IH-01-651
Lab Code: A01-4657

CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
120	A57647	INSULATION PANEL Heterogeneous, Tan, Black, Fibrous, Bound BIND 25 % CELL 75 %	ND
121	A57648	INSULATION PANEL Heterogeneous, Tan, Black, Fibrous, Bound BIND 25 % CELL 75 %	ND
122	A57649	INSULATION Heterogeneous, Off-white, Black, Fibrous, Bound CHRY 40 % BIND 25 % CELL 35 %	CHRY 40%
123	A57650	INSULATION Heterogeneous, Off-white, Black, Fibrous, Bound CHRY 45 % BIND 20 % CELL 35 %	CHRY 45%
124	A57651	INSULATION Heterogeneous, Off-white, Black, Fibrous, Bound BIND 25 % CELL 50 % FBGL 25 %	ND
125	A57652	INSULATION Heterogeneous, Off-white, Black, Fibrous, Bound BIND 45 % CELL 35 % FBGL 20 %	ND
126	A57653	CAULKING Heterogeneous, Brown, Black, Fibrous, Bound CHRY 10 % BIND 85 % TREM 2 % NTREM 3 %	CHRY 10% TREM 2 %
127	A57654	CAULKING Heterogeneous, Brown, Black, Fibrous, Bound CHRY 10 % BIND 85 % TREM 2 % NTREM 3 %	CHRY 10% TREM 2 %

CAROLINA ENVIRONMENTAL, INC.
102-H Commonwealth Court, Cary, NC 27511
Phone: 919-481-1413 Fax: 919-481-1442

Project: DOT / Putnam Repair
Project # EMS # IH-01-651
Lab Code: A01-4657

CLIENT ID	CEI LAB ID	SAMPLE DESCRIPTION	% ASBESTOS
128	A57655	INSULATION PANEL Heterogeneous, Brown, Black, Fibrous, Bound BIND 5 % CELL 95 %	ND
129	A57656	INSULATION PANEL Heterogeneous, Brown, Black, Fibrous, Bound BIND 5 % CELL 95 %	ND
130	A57657	ROOF SHINGLE Heterogeneous, Black, Red, Fibrous, Bound BIND 53 % CELL 2 % GRAV 10 % FBGL 35 %	ND
131	A57658	ROOF SHINGLE Heterogeneous, Black, Red, Fibrous, Bound BIND 53 % CELL 2 % GRAV 10 % FBGL 35 %	ND

The following definitions apply to the abbreviations used in the ASBESTOS BULK ANALYSIS REPORT:

CHRY = Chrysotile	CELL = Cellulose	DEBR = Debris
AMOS = Amosite	FBGL = Fibrous Glass	BIND = Binder
CROC = Crocidolite	ORGN = Organics	SILI = Silicates
TREM = Tremolite	SYNT = Synthetics	GRAV = Gravel
ANTH = Anthophyllite	WOLL = Wollastonite	MAST = Mastic
ACTN = Actinolite	CERWL = Ceramic Wool	PLAS = Plaster
ND = None Detected	NTREM = Non-Asbestiform Tremolite	PERL = Perlite
NANTH = Non-Asbestiform Anthophyllite		RUBR = Rubber

CLIENT: Enviromed Services, Inc.

PROJECT: DOT / Putnam Repair
Project # EMS # IH-01-651

CEI LAB CODE: A01-4657

Stereoscopic microscopy and polarized light microscopy coupled with dispersion staining is the analytical technique used for sample identification. The percentage of each component is visually estimated by volume. These results pertain only to the samples analyzed. The samples were analyzed as submitted by the client and may not be representative of the larger material in question. Unless notified in writing to return samples, Carolina Environmental, Inc. will discard all bulk samples after 30 days.

Many vinyl floor tiles have been manufactured using greater than 1% asbestos. Often the asbestos was milled to a fiber size below the detection limit of polarized light microscopy. Therefore, a "None Detected" (ND) reading on vinyl floor tile does not necessarily exclude the presence of asbestos. Transmission electron microscopy provides a more conclusive form of analysis for vinyl floor tiles.

It is certified by the signature below that Carolina Environmental, Inc. is accredited by the National Voluntary Accreditation Program (NVLAP) for the analysis of asbestos in bulk materials. The accredited test method is EPA / 600 / M4-82 / 020 for the analysis of asbestos in building materials. Procedures described in EPA / 600 / R-93 / 116 have been incorporated where applicable. The detection limit for the method is 0.1% (trace amount). Carolina Environmental, Inc.'s NVLAP accreditation number is #101768-0. This report is not to be used to claim product endorsement by NVLAP or any agency of the U. S. Government. This report and its contents are only valid when reproduced in full. Dust and soil analyses for asbestos using PLM are not covered under NVLAP accreditation.

ANALYST _____

REVIEWED BY _____

Tianbao Bai, Ph.D.
Laboratory Director

ENVIROMED SERVICES, INC.

Lead Inspection Report

for

Department of Transportation
Buildings #81-174, #81-294 and #94-462
Putnam Repair Garage

Putnam, Connecticut

Client Project #: 581269

prepared for:

State of Connecticut
Department of Transportation
Newington, Connecticut 06111

August 21, 2001
EnviroMed Project #: IH-01-651

25 Science Park•New Haven, CT 06511
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I. INTRODUCTION

Introduction

Lead poisoning is a significant health hazard. High lead concentrations in the body can cause serious damage to the kidneys, the red blood cells, the central nervous system and the brain. One source of lead in the environment is lead-based paint. Leaded paint may contain up to 50% lead. Lead-based paint was widely used until it was banned in 1978.

Inspection Report

This inspection report consists of an introduction, project narrative, sample results table, sample results diagram and inspection data pages. Two reference pages are also included in the report. The cover page includes the project name and address.

The project narrative is an explanation of what was found during the inspection. This includes where the samples were taken, and the results of each test. The type of substrate under the paint and the condition of the paint are explained in this summary.

The data pages include the results of each test. This includes the sample numbers, the type of test used and the results of each test. These results are given in milligrams per square centimeter (mg/cm^2). The data pages also include the condition of the paint, and the substrate surface type. The paint condition and surface types are explained in reference tables A and B.

A Niton XL-309 XRF Spectrum Analyzer was used during the inspection. This instrument measures a paint sample until a 95% confident reading of "positive" or "negative" versus the toxic level of lead which is 1.0 mg/cm2 as deemed by the State of Connecticut.

The XRF is calibrated at the beginning and the end of the day's inspections or at extended delays in testing and (at least) every four hours during inspections. If at any time the instrument does not calibrate according to the standardized sample and the instrument limit of detection the instrument is taken out of service.

II. PROJECT NARRATIVE

II. PROJECT NARRATIVE

Overview

On August 21, 2001 EnviroMed Services, Inc. performed a lead inspection using a direct read spectrum analyzer for the State of Connecticut Department of Transportation, at Building # 81-174, #81-294 and 94-462 Putnam Repair Garage, located in Putnam, Connecticut. The purpose of this inspection was to identify the presence of lead on the components scheduled for renovation/demolition.

The OSHA Lead in Construction Standard 29 CFR 1926.62 deems paint to be lead containing when any detectable lead is found. The State of Connecticut Lead Regulations deem paint to be a "toxic level" when X-Ray Fluorescence Analysis (XRF) exceeds 1.0 milligrams per centimeter squared (mg/cm^2), or 0.5% by weight in dry form. (19A-111-3). The State of Connecticut Department of Environmental Protection (DEP) regulations require building materials found to contain toxic levels of lead, to be Toxicity Characteristic Leaching Procedure (TCLP) tested for waste determination prior to disposal.

Summary of Results

XRF analysis was performed utilizing the Niton - XL 309 Spectrum Analyzer. Toxic levels of lead were found on building components scheduled for renovation. Lead containing paint was found on building components. Please refer to the XRF Toxic Level Sample Results Table for a list of toxic level XRF readings (greater than or equal to 1.0 mg/cm^2).

III. SAMPLE RESULTS TABLE

III. SUMMARY OF TOXIC LEVEL (≥ 1.0 mg/cm^2) XRF SAMPLE RESULTS

Summary of Toxic Level (≥1.0 mg/cm^2) Results

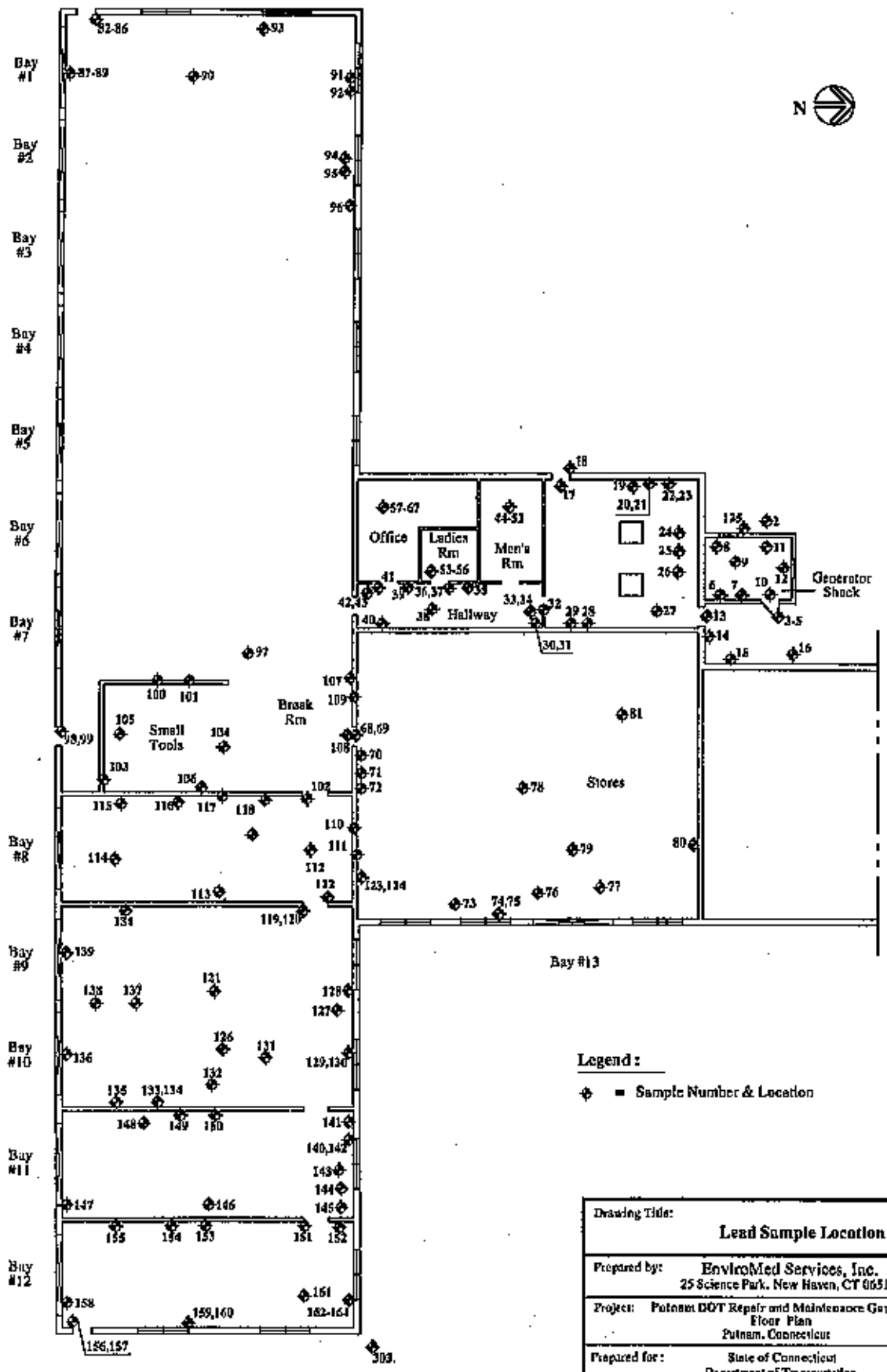
Sample Number	Sample Location	Component (s) Tested	Results (mg/cm^2)
5	Generator Shack Exterior	stair riser	1.9
14	Exterior	door casing	1.3
20	Boiler Room	lower wall	2.7
22	Boiler Room	window sill	75.0
29	Boiler Room	telephone panel back	5.1
30	Boiler Room	interior fire door	3.9
31	Boiler Room	door casing	1.7
33	Office/Hall	door	5.0
35	Office/Hall	wall	5.1
42	Office/Hall	I-Beam on ceiling	1.1
68	Stores	door	2.3
71	Stores	message board	4.4
72	Stores	radiator	1.1
76	Stores	utility rack	7.8
78	Stores	light green rack	2.2
87	Bays 1-7	garage door casing	1.5
88	Bays 1-7	garage door lintel exterior	7.4
90	Bays 1-7	stripe on floor	3.2
93	Bays 1-7	60 ton press	5.1
102	Break Room	old garage door lintel	4.1
117	Bay 8	band saw	1.5
121	Bays 9-10	sliding door	8.1
122	Bays 9-10	sliding door jamb	1.0
126	Bays 9-10	floor striping	16.0
143	Bay 11	cabinet	2.6
147	Bay 11	garage door casing lintel	1.5
148	Bay 11	jack stand	3.2
149	Bay 11	power washer	1.6
152	Bay 12	lower wall	2.5
159	Bay 12	window sill	2.6
161	Bay 12	work bench	3.6
163	Bay 12	pipe	8.7
164	Bay 12	jack	5.1
166	Bays 14-17	garage door lintel exterior	1.7
167	Bays 14-17	floor striping	14
168	Bays 14-17	floor striping	14.0
174	Bays 14-17	phone book	5.1
175	Bays 14-17	fire door	11.0
176	Bays 14-17	bumper casing	1.8
177	Bays 14-17	bumper casing	1.2
186	Hall #1	striping on floor	14
194	Hall #2	striping on floor	7.2
217	Supervisor Office	ceiling	3.4

III. SUMMARY OF TOXIC LEVEL (≥ 1.0 mg/cm^2) XRF SAMPLE RESULTS CONTINUED

Summary of Toxic Level (≥1.0 mg/cm^2) Results

Sample Number	Sample Location	Component (s) Tested	Results (mg/cm^2)
229	Lavatory	radiator	1.7
237	Break Room	message board	2.3
242	Break Room	top of coffee cabinet	1.7
243	Break Room	front of coffee cabinet	2.2
252	Break Room	ceiling	3.1
259	Bays 18-20	sliding door guard	1.2
260	Bays 18-20	sliding door	4.0
261	Bays 18-20	sliding door weight	1.5
262	Bays 18-20	garage door lintel	1.5
266	Bays 18-20	sliding door	5.0
271	Bays 18-20	bench	2.0
279	Bays 21-24	sliding door guard	1.1
280	Bays 21-24	sliding door	5.0
281	Bays 21-24	garage door lintel exterior	1.1
287	Bays 21-24	coat rack bay door	1.2
290	Bays 21-24	bench	1.6
291	Bays 21-24	work bench w/cabinet	3.0
292	Bays 21-24	work bench w/grinding wheel	3.0
298	Fuel Island	cub	1.7
299	Fuel Island	diesel pump	1.1
304	Fuel Island	railing exterior	1.5
312	Exterior	antenna	7.0
314	Exterior	jet hanger	4.4
Building #81-294			
305	Storage Shed	exterior door	1.8
306	Storage Shed	exterior door casing	2.0
309	Storage Shed	garage door frame	2.7
311	Storage Shed	overhead door lintel	1.0
322	Storage Shed	door	1.2
323	Storage Shed	door casing	1.4
327	Storage Shed	rack	1.5
Building #94-462			
318	Salt Shed	lolly column	7.7

IV. SAMPLE LOCATION DIAGRAMS



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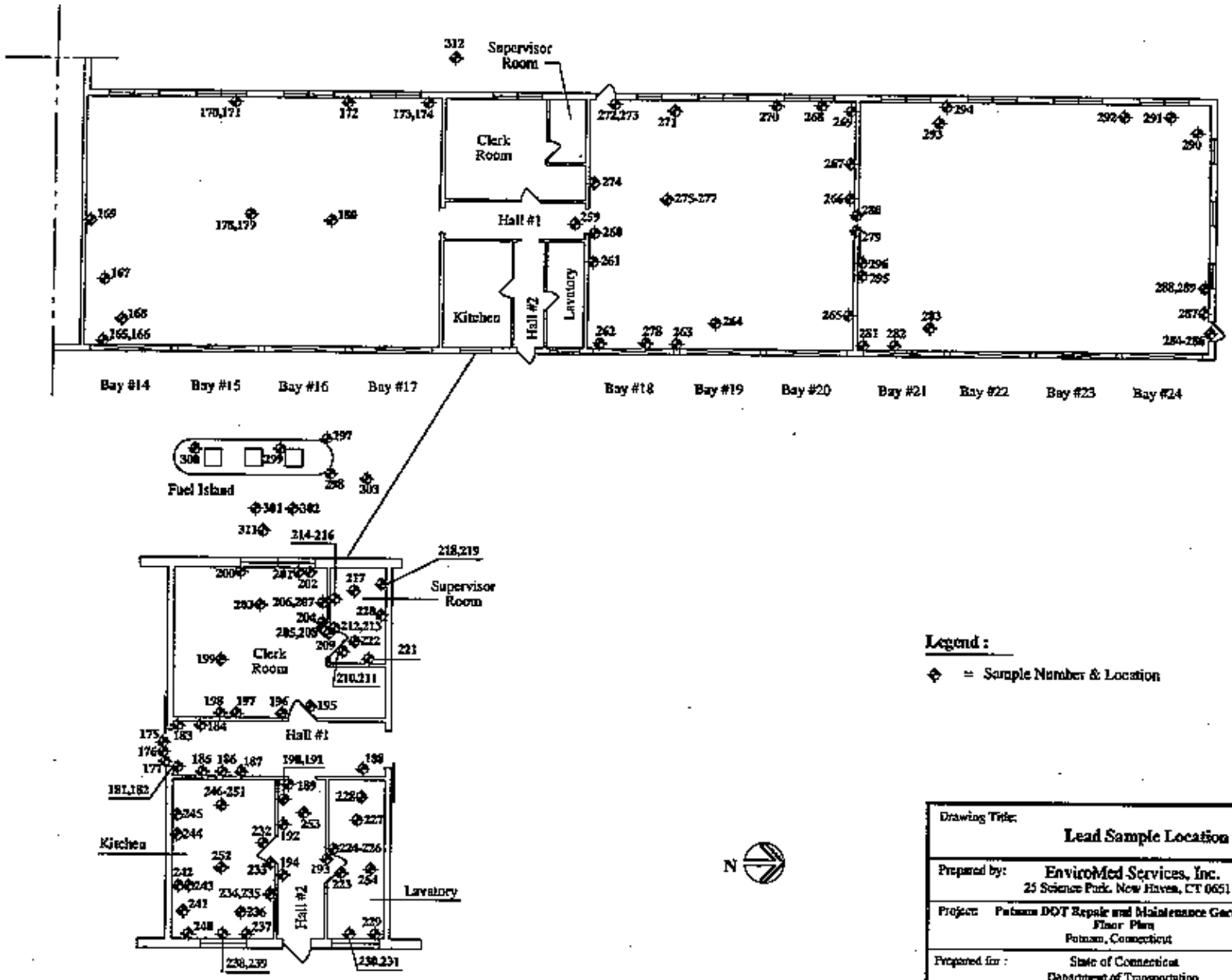
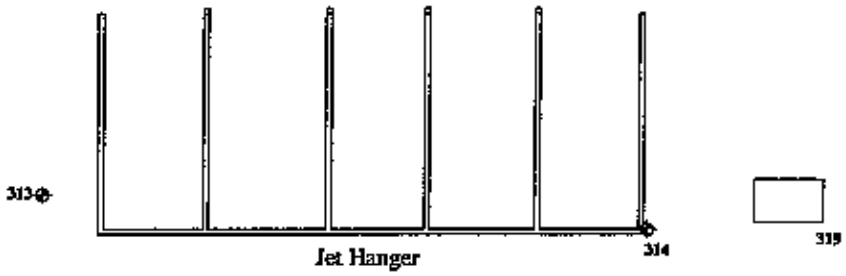
Prepared by:	EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 8/21/01
		Scale: N.T.S.
Project:	Putnam DOT Repair and Maintenance Garage Floor Plan Putnam, Connecticut	Drawn By: DER
Prepared for:	State of Connecticut Department of Transportation Newington, Connecticut	Approved By: J.F.
BMS # UI-01-651		Drawing No. 1 of 3



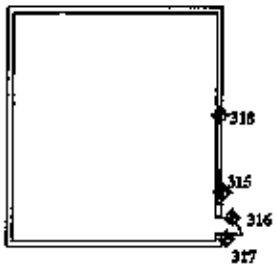
Legend :

◆ = Sample Number & Location

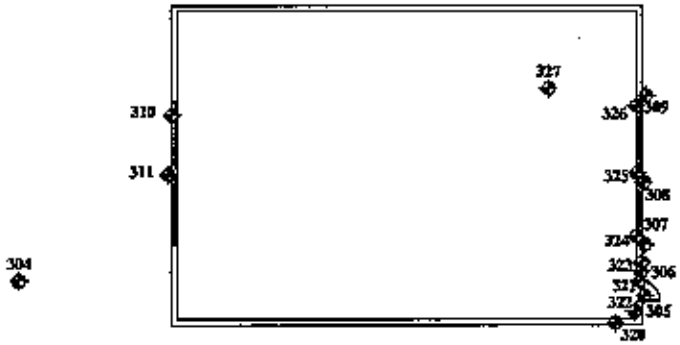
Drawing Title: **Lead Sample Location Diagram**	
Prepared by: EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 8/21/01
Project: Putnam DOT Repair and Maintenance Garage Floor Plan Putnam, Connecticut	Scale: N.T.S.
	Drawn By: DER
Prepared for : State of Connecticut Department of Transportation Newington, Connecticut	Approved By: J.F.
5045 # 04-01-651	Drawing No. 2 of 3



Jet Hanger



Salt Shed #94-462



Storage Shed #81-294

Legend :

◆ = Sample Number & Location

Drawing Title: **Lead Sample Location Diagram**	
Prepared by: EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 8/21/01
Project: **Putnam DOT Repair and Maintenance Garage Outbuildings - Floor Plan** Putnam, Connecticut	Scale: N.T.S.
	Drawn By: DER
Prepared for: State of Connecticut Department of Transportation Newington, Connecticut	Approved By: J.F.
EMS # 1H-01-651	Drawing No. 3 of 3

V. REFERENCE TABLE (S)

Lead Inspection
Reference Table

B - Bulkhead
BB - Baseboard
CAB - Cabinet
CL - Ceiling
CM - Crown Molding
CR - Chair Rail
CW - Cellar Window
DC - Door Casing
DH - Door Header(Lintel)
DJ - Door Jamb
DR - Door
EC - Entrance Canopy
ECCL - Entrance Canopy Ceiling
EDR - Exterior Door
EWL - Exterior Wall
F - Foundation
FL - Floor
FP - Fireplace
KB - Kickboard
L - Lattice
LW - Lower Wall
NP - Stair Newel Post
P - Porch
PCL - Porch Ceiling
RD - Radiator
RLC - Railing Cap
S - Siding
SB - Stair Baluster
SBB - Stair Baseboard
SF - Shelf
SFS - Shelf Support
SR - Stair Riser
SRC - Stair Rail Cap
SS - Stair Stringer
ST - Stair Tread
SWL - Stair Walls
T - Trim
UW - Upper Wall
WA - Window Apron
WC - Window Casing
WD - Window
WES - Window Exterior Sill
WH - Window Header (Lintel)
WL - Wall
WM - Window Mullion
WSH - Window Sash
WSL - Window Sill
WSP - Window Stop
WW - Window Well

Note: Addition of the letter "E" prior to any component abbreviation will designate that component as an exterior surface (e.g. EWC = Exterior Window Casing)

Revised 6/93

Lead Inspection
Reference Table B
Substrate Type

W - Wood

Pl - Plaster

M - Metal

Br - Brick

C - Concrete

Sh - Sheetrock/Drywall

Lead Inspection
Reference Table B
Surface Condition

0 - No painted windows/woodwork.

1 - All paint on windows/woodwork is intact.

2. - Some paint on windows/woodwork is peeling, cracking or flaking.

3. - Large amounts of paint on windows/woodwork is peeling, cracking, or flaking.

VI. XRF DATA SHEETS

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

NO. DOORS:

UNIT NUMBER: Bldg # 81-174

NO. WINDOWS

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
1	1.0	Test. 1.0	—	—	Test.
2	0.05	WL	Wd	Stain	
3	0.05	DR	Metal	Brown	
4	0.05	DC	metal	Brown	
5	1.9	Stairwell	Conc	Yellow	Sample #205 Pos (1) (C shell only)
6	0.00	DR	metal	Brown	
7	-0.1	DC	metal	Brown	
8	0.05	WL	Sheetrock	White	
9	0.05	FL	Conc	gray	
10	0.05	CL	Sheetrock	white	
11	0.05	Oil tank	Metal	Red	
12	0.05	Generator	Metal	Gray	
13	0.05	DR	Metal	Brown	
14	~~0~~ 1.3	DC	Metal	Brown	Pos (C shell) only
15	0.46	WM	Metal	Brown	
16	0.05	Pressure Table	wood	Gray	
17	0.05	DR Exterior Door	Metal	Brown	
18	0.05	DC Exterior Door	Metal	Brown	
19	0.05	Elect Panel Back	Wood	Black	
20	2.7	LWL	Conc	Blue	Pos (C shell only)

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

UNIT NUMBER: Bldg # 81-174

NO. DOORS: _____

NO. WINDOWS: 1

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
21	0.07	UWL	Conc	white	
22	76.0	WSL	Conc	Blue	Pos (1) L. shell only
23	0.05	W Mullions	metal	Gray	
24	0.11	FL	Conc	Gray	
25	0.27	Diamond Plate	Metal	Gray	
26	0.1	FL Stripe	Conc	yellow	
27	0.07	Compressor Tank	Metal	gray	
28	0.05	Electrical Box	Wood	Black	
29	5.1	Telephone Panel Back	wood	gray	Pos (1)
30	3.9	Interior Fire Door	Tin-Metal	Brown	Pos (2)
31	1.7	" Door Casing	Metal	Brown	Pos (1)
32	0.10	Lintel	Conc.	white	
33	>5.0	DR To Shell Room	Flat Metal	Brown	Pos L. shell only
34	0.8	DC To Boiler Room	Tin Metal	Brown	
35	5.1	WL	Conc	Tan	Pos (1)
36	0.02	DR Hall	Metal ~~Conc~~	Brown	
37	0.02	DC Hall	Metal ~~Conc~~	Brown	
38	0.1	FL	Conc	Gray	
39	0.05	Lockers	Metal	Gray	
40	0.05	File Cabinets	Metal	Brown	

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

UNIT NUMBER: Bldg # 81-174

NO. DOORS: _____

NO. WINDOWS: _____

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
41	0.02	Message Board	wd	Brown	
42	1.1	I. Beam on Ceiling	Metal	Silver	Lshell only Pb (1)
43	0.05	Ceiling Corrugated Metal	Metal	Silver	
44	0.05	DR	Metal	Brown	
45	0.07	DC	Metal	Gray	
46	0.05	LWL	Conc	gray	
47	0.3	UWL	Conc	White	
48	0.05	Stall	metal	gray	
49	0.10	WSL	Conc	gray	
50	0.09	W M	Metal	gray	
51	0.16	Bal.	Metal	gray	
52	0.00	Cabinet	Metal	yellow	
53	0.09	DR	Metal	Brown	
54	0.06	DC	Metal	Tan	
55	0.21	LWL	Conc	Tan	
56	0.1	UWL	Conc	white	
57	~~0.00~~ 0.13	DR	Metal	Brown	
58	0.12	DC	Metal	Brown	
59	0.10	LWL	Conc	Tan	
60	0.12	UWL	Conc	white	

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

UNIT NUMBER: Bldg # 81-174

NO. DOORS: _____

NO. WINDOWS: _____

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
61	0.40	FL	Tile	Unpainted	
62	0.06	BB	Rubber	Brown	
63	0.05	WSL	Wd	Brown	
64	0.03	WSL	Conc.	Tan	
65	0.0	W. M.	Metal	Tan	
66	0.09	Rad.	Metal	Tan	
67	0.00	CL	Tile	White	
68	2.3	DR	Metal	Grey	Pos. (2)
69	0.8	DC	Metal	Grey	
70	0.15	WL	Conc	Unpainted	
71	4.4	Message Board	cork	green	Pos (1)
72	1.1	Rail	Metal	grey	Pos (1)
73	0.04	Shelves	Metal	green	
74	0.01	WSL	conc	Unpainted	
75	0.07	WM	Metal	Grey	
76	7.8	Utility Rack	Wood	Green	
77	0.7	FL	Conc	grey	
78	2.2	Light Green Back	wood	Light green	Pos (1)
79	0.10	Utility Column	Conc.	Silver	
80	0.5	Beam	Metal	Silver	

LEAD INSPECTION DATA PAGE

PROJECT NAME: Palmer Repair Garage

UNIT NUMBER: Bldg # 81-174

NO. DOORS: _____

NO. WINDOWS: _____

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
81	0.08	Tire Rack	Metal	Silver	
82	0.03	DR	Metal	Brown	
83	0.01	DC	Metal	Brown	
84	0.03	LWL	Conc	Blue	
85	0.12	UWL	Conc	white	
86	0.04	Lintel	Metal	white	
87	1.5	garage Door Casing	Metal	Blue	Pos (1)
88	2.4	garage Door Lintel Exterior	Metal	Brown	Pos (1)
89	0.1	garage Door Interior	Metal	White	
90	3.2	Stripe on FL	Conc	Yellow	Pos (2)
91	0.2	WSL	Conc ~~Metal~~	Blue	
92	0.6	WM	Metal	Brown	
93	5.1	60 Ton Press	Metal	Orange	Pos (1)
94	0.09	work Bench Bay #2	wood	gray	
95	0.03	Hydraulic oil Tank Bay #2	Metal	gray	
96	0.7	I-Beams	Metal	gray	
97	0.13	Rope work/Shower	Metal Pipe	yellow	
98	0.01	DR	Metal	Brown	
99	0.01	DC	Metal	Brown	
100	0.00	LWL	Sheetrock	Blue	

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

NO. DOORS:

UNIT NUMBER: Bldg # 81-174

NO. WINDOWS

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
101	0.00	UWL	Sheetrock	white	
102	4.1	Old Garage Door Lintel	Metal	Blue	
103	0.00	Tool Room wall	Plywood	Blue/Gray	
104	0.04	FL	Conc	Gray	
105	0.5	Shelves	Wood	green	
106	0.05	Cabinet	wood	Tan	
107	0.00	L.WL	Conc	Blue/gray	
108	0.00	Door Header	Conc	white	
109	0.00	UWL	Conc.	white	
110	0.1	L.WL	Conc	Gray	
111	0.5	UWL	Conc	White	
112	0.25	I-Beam	Metal	Gray	
113	0.03	Small Cabinet	Wood	Gray	
114	0.15	Stripe on FL	Conc	yellow	
115	0.10	Electrical Panel on front	Metal	Silver	
116	0.2	welder	Metal	green	
117	1.5	Band Saw	Metal	yellow	Pos (2)
118	0.2	Band Saw	Metal		
9	0.03	Header	Conc	white	
	0.03	UWL	Conc	white	

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

UNIT NUMBER: Bldg # 81-174

NO. DOORS: 1

NO. WINDOWS: 1

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
121	8.1	Sliding DR	Metal (Tin)	gray	Pos (1)
122	1.0	Sliding Door Jam	Metal	gray	Pos (1)
123	0.02	WM Office Pentthouse Windows	Metal	Red	
124	0.03	WC Office Pentthouse window	Metal	Red	
125	0.05	Generator Muffler	Metal	Gray	
126	~~0.00~~ 16.0	Floor Striping	Conc	Yellow	Pos (2)
127	0.34	Rack	Metal	Blue gray	
128	0.5	I-Beam	Metal	gy Blue	
129	0.20	WSL	Conc	gray	
130	0.06	WM.	Metal	Brown	
131	0.30	Lift	Metal	yellow	
132	0.6	Diamond Plate	Lift Cover Metal	yellow	
133	0.1	Roof Drain Pipe, Lower	Metal	Gray	
134	0.01	Roof Drain Pipe Upper	Metal	White	
135	0.04	Elec. Conduit	Metal	gray	
136	0.04	Garage Door Exterior	Metal	white	
137	0.7	Working Stairs, Middle	Metal	Red	
138	0.06	Drain oil container	Metal	Blue	
139	0.03	Gray shelves	Metal	gray	
140	0.04	LWL	Conc	Gray	

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam. Repair Garage

NO. DOORS: _____

UNIT NUMBER: Bldg # 81-174

NO. WINDOWS: 1

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
Cont 141	0.12	wsl	Conc	Blue	
142	0.07	WM	Metal	Red	
143	2.6	Cabinet	Wood	Grey	Pos (1)
144	0.5	Rail	Met.	grey	
145	0.06	Pipe	Met.	grey	
146	0.07	Metal Time Punch	Metal	Black	
147	1.5	Garage Door Casing	Metal	Brown	+
148	3.2	Jack Stand	Metal	Orange	+
149	1.6	Power Washer	Metal	Orange	+
150	0.5	Gas Tank Cabinet	Wood	Brown	
Cont 151	0.43	Metal Dashboard	Metal	Grey	
152	2.5	LWL	Conc	grey	Pos (1)
153	0.16	UWL	Conc	white	
154	0.17	LWL	Conc	grey	
155	0.00	gray stand	Wood	grey	
156	0.2	DR	Metal	Brown	
157	0.2	DC	Metal	Brown	
158	0.14	garage door	Metal	white	
159	2.6	WSL	Con	grey	Pos (1)
160	0.26	WM	Metal	Brown	

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

UNIT NUMBER: Bldg # 81- 174

NO. DOORS:

NO. WINDOWS

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
Bay 12 Cont. 161	3.6	Work Bench	Wood	gray	+
162	0.6	Rack	Metal	gray	
163	8.7	Pipe Gr Heat	Metal	gray	Pos (1)
164	5.1	Jack	Metal	Orange	+
Bay 14 thru 17 165	0.06	garage DOOR	Metal	White	
166	1.7	garage DOOR Lintel, Arterio	Metal	Brown	+
167	0.01	Lockers	Metal	gray	
168	14	Ft Striping	Conc	yellow	+
169	0.05	WL	Conc	Unpainted	
170	0.01	WSL	Conc	Unpainted	
171	0.03	~~[illegible]~~ WM	Metal	~~Brown~~ gray	
172	0.20	J Beam Vert	~~J Beam Vert~~ Metal	gray	
173	0.00	Phone Cover	wood	gray	
174	5.1	Phone Back	Wood	~~Brown~~ gray	+
175	11	Sliding Door Fire Door	Tin Metal	gray	
176	6.8	Bumper C Door	Metal	gray	Pos (1)
177	~~[illegible]~~ 1.2	Bumper Casing	Metal	gray	Pos #385 (1) Shell only
178	0.5	Small J-Beam at Ceiling	Metal	gray	
179	0.38	Large J-Beam at Ceiling	Metal	gray	
180	0.06	Corrugated Deck	Metal	gray	

Begin Maintenance garage

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

NO. DOORS:

UNIT NUMBER: Bldg # 81-174

NO. WINDOWS

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
181	0.01	UWL	~~White~~ Conc	white	
182	0.09	LWL	~~Tan~~ Conc	Tan	
183	0.22	I-Beam	~~Tan~~ Metal	Tan	
184	0.01	FL	Conc	Gray	
185	0.15	Emergency Elec. Panel	Metal	Silver	
186	14	Striping on FL	Conc	Yellow	Pos (1)
187	0.08	BB	Conc	Gray	
188	0.42	Cabinet	Wood	Gray	
189	0.05	DC	Metal	Brown	
190	0.08	LWL	Conc	Tan	
191	0.24	UWL	Conc.	white	
192	0.33	BB.	Conc.	Gray	
193	0.09	DR	Metal	Brown	
194	7.2	Striping on Floor	Conc.	Yellow	Pos (1)
195	0.10	DR	Metal	Brown	
196	0.04	DC	Metal	Brown	
197	0.00	UWL	Conc	White	
198	0.13	LWL	Conc.	Brown	
199	0.29	FL	FL Tile	Unpainted	
200	0.06	WSL	Conc	Tan	

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

NO. DOORS:

UNIT NUMBER: Bldg # 81- 174

NO. WINDOWS

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
201	-0.0	~~LWL~~ WM	Metal	Tan/white/green	
202	0.04	Heat Pipe	Metal	Tan	
203	0.02	Desk	Metal	Grey	
204	0.14	BB	Wood	Tan/green	
205	0.04	LWL	Sheetrock	Tan	
206	0.00	WC	Wood	Tan	
207	0.00	WM	wood	Tan	
208	0.00	UWL	Sheetrock	white	
209	0.21	DC	Wood	Brown	
210	0.13	DR	Wood	Stain	
211	0.20	DC	Wood	Brown	
212	0.00	LWL	Sheetrock	Tan	
213	0.00	UWL	Sheetrock	white	
214	0.00	WSL	Wood	Tan	
215	0.00	WM	Wood	Tan	
216	0.00	WC	Wood	Tan	
217	3.4	CL	Fiberboard	White	Pos (1)
218	0.00	UWL	Conc	White	
219	0.25	LWL	Conc	Tan	
220	0.22	Electrical Conduit	Metal	Tan	

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

NO. DOORS:

UNIT NUMBER: Bldg # 81- 174

NO. WINDOWS

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
221	0.34	LWL	Fiberboard	Tan	
222	0.05	FL	Tile	Unpainted	
223	0.11	DR	Metal	Gray	
224	0.00	DC	wood	Gray	
225	0.05	UWL	Conc	white	
226	0.20	LWL	Conc	Gray	
227	0.05	FL	Conc	Gray	
228	0.04	Shell	Metal	Gray	
229	1.7	Rad.	Metal	Gray	Pos (1)
230	-0.0	WSL	conc	Gray	
231	0.08	WM	Metal	Gray	
232	0.22	DR	Metal	Tan	
233	0.13	DC	Metal	Tan	
234	0.16	UWL	Conc	white	
235	0.14	LWL	Conc	Tan	
236	0.12	FL	Tile	Unpainted	
237	2.3	Message Board	Cork	Tan	+
238	0.17	WSL	Conc	Tan	
239	0.03	WM	Metal	Tan	
240	0.06	Rad. Pipe	Metal	Tan	

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

NO. DOORS:

UNIT NUMBER: Bldg # 81-174

NO. WINDOWS: 1

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
241	0.05	Microwave Stand	Wood	gray	
242	1.7	Top of Coffee Cabinet	Wood	gray	Pos (1)
243	2.2	Front of Coffee Cabinet	Wood	gray	Pos (1)
244	0.00	Coat Rack	Wood	Tan	
245	0.5	Elec conduit	Metal	Tan	
246	0.02	Closet Trim	Wood	Tan	
247	0.17	Closet Trim	Wood	White	
248	0.08	Closet Door	Wood	Tan	
249	0.01	Closet Door	Wood	White	
250	0.00	Closet Door Casing	Wood	Tan	
251	0.09	Closet Door Casing	Wood	White	
252	3.1	CL	Ceiling Tile, 12" thickness	White	Pos (1)
253	0.02	CL Hall #2	Corrugated Metal	White	
254	0.04	CL Low	Corrugated Metal	White	
255	1.1	Test 1.0	—	—	#463
256	1.0	Test 1.0 Back Side	—	—	#464
257	1.0	Test 1.0 Front	—	—	
258	1.1	Test 1.0 Low	—	—	
259	1.2	Sliding Door Guard	Metal	Gray	Pos (2)
260	4.0	Sliding Door	Tin Metal	Gray	Pos (1)

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

NO. DOORS: _____

UNIT NUMBER: Bldg # 81- 174

NO. WINDOWS: _____

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
261	~~0.05~~ 1.5	Sliding Door weight Cover	Wood	gray	Pos (1)
262	1.5	Garage Door Jacket	Metal	Brown	Pos (1)
263	0.05	Column Bet Bays	~~Gen~~ Metal	Silver	
264	0.08	striping on RL	Conc	yellow	
265	0.05	Foundation Sealer	Conc	Black	
266	>5.0	Sliding Door	Metal	gray	+
267	0.04	Lockers	Metal	gray	
268	0.05	WSL	Conc.	unpainted	
269	0.05	Window Mullion	Metal	gray/green	
270	0.08	Lockers	Metal	Tan.	
271	2.0	Bench	Wood	Gray	Pos (1)
272	0.05	Ext. Door	Metal	Brown	
273	0.05	Ext. DC	Metal	Brown	
274	0.05	I-Beam vertical	Metal	Silver/Red	
275	0.05	I-Beam Small	Metal	Silver	
276	0.05	Ceiling	Metal	gray/	
277	- 0.0	I-Beam Large	Metal	Silver	
278	0.02	Garage Door	Metal	~~Gray~~ white	
279	1.1	Sl. Dr. Guard	Metal	Gray	+
280	>5.0	Sl. Dr. Dr.	Tin Metal	Gray	+

LEAD INSPECTION DATA PAGE

PROJECT NAME: Putnam Repair Garage

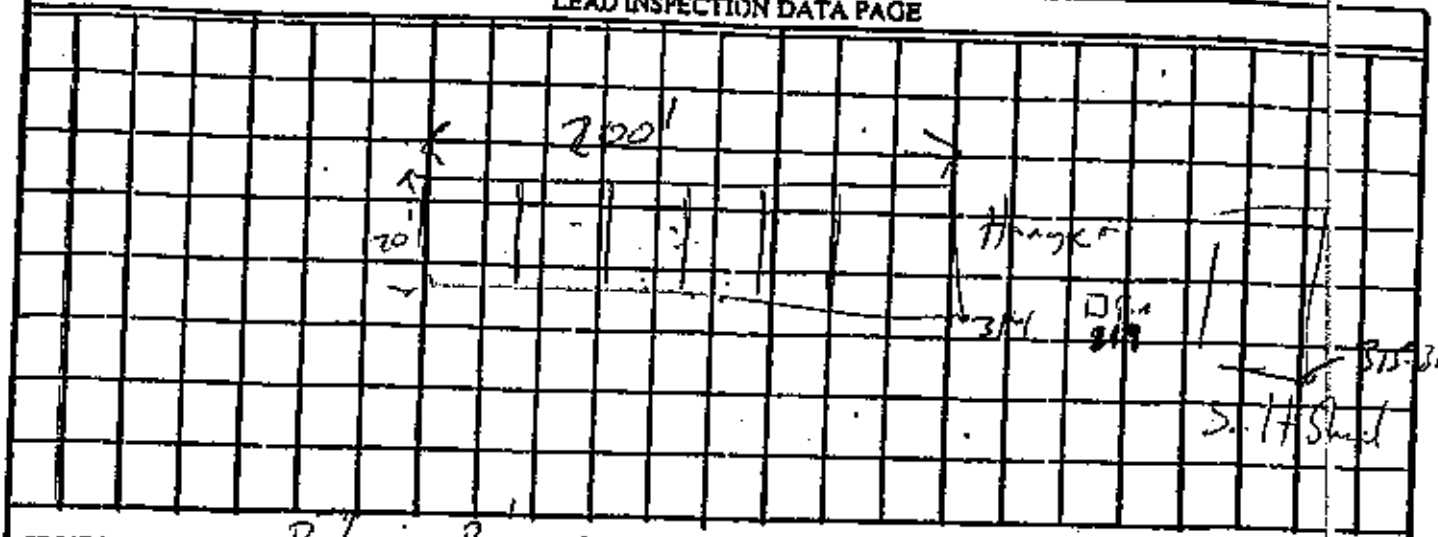
NO. DOORS: _____

UNIT NUMBER: Bldg # 81- 174

NO. WINDOWS: _____

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
281	1.1	Garage Door Inter. Ext.	Metal	Brown	+
282	0.05	Garage Door	Metal	White	
283	0.15	Stairway on PL	Conc	yellow	
284	0.1	DR, Ext.	Metal	Brown	
285	0.05	DC, Ext.	Metal	Brown	
286	0.05	Door Window Casing	Metal	Brown	
287	1.2	Coat Rack Per Door	Wood	Gray/beige	Pos (1)
288	0.0	WSL	Conc.	Unpainted	
289	0.05	W M	Metal	green	
290	1.6	Bench	Wood	gray	Pos (1)
291	3.0	Work Bench w/cabinet	Wood	gray	Pos (1)
292	3.0	Work Bench w/grinding wheel	Wood	gray	Pos (2)
293	0.05	Bench.	Wood	Light Gray	
294	0.05	T. Beam.	Metal	Silver	—
295	0.05	Foundation Paint	Conc	Black	
296	0.05	Pine Ext Back	wood	Red.	
297	0.05	Utility Collumn	Conc	yellow	
298	1.7	Curb	Metal	yellow	Pos (1)
299	1.1	Diesel Pump	Metal	yellow	Pos (1)
300	0.05	gas Pump	Metal	silver	Pos (1)

LEAD INSPECTION DATA PAGE



PROJECT NAME: Putnam Repair Garage

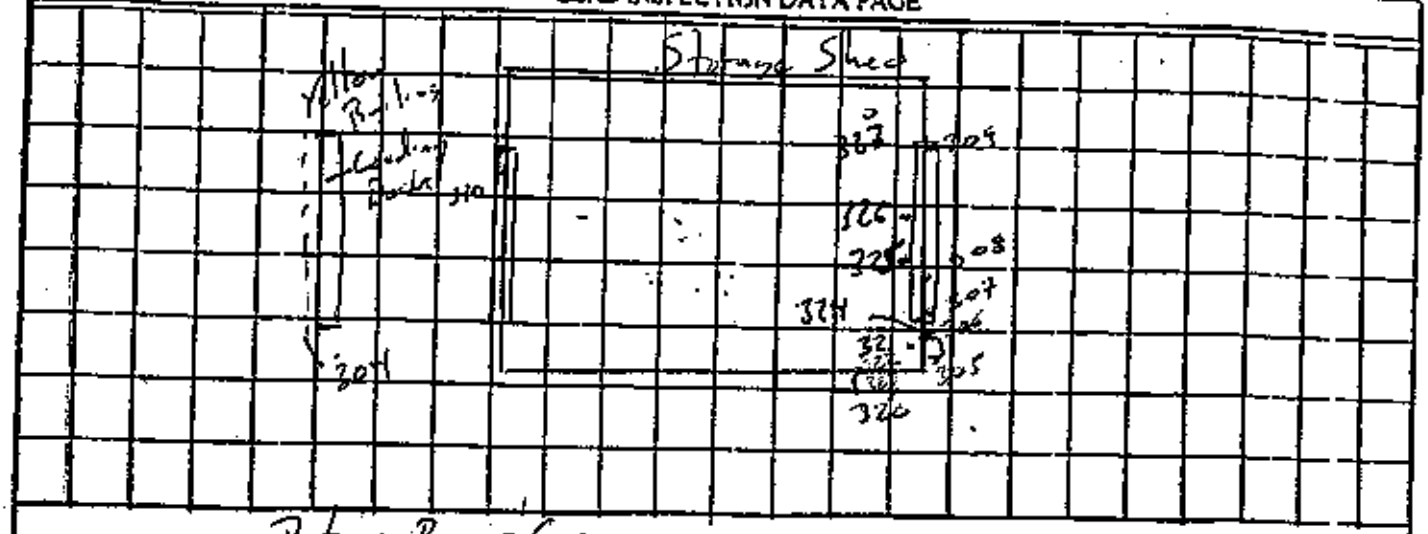
NO. DOORS:

UNIT NUMBER: Bldg # 81- 174, 81-294 & 94-462, 81

NO. WINDOWS

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
301	0.02	Tank Cover	Metal	Yellow	
302	0.06	Tank Cover	Metal	Silver	
303	0.16	Guard Rail	Metal	Silver	
304	1.5	Rusting Ext. Pole Storage Shed (Metal Pipe)		Yellow	
305	1.8	DR Ext	Metal	White	Pos chalk (1)
306	2.0	DC Ext	Metal	White	Pos chalk (1)
307	0.36	Garage Door Lintel	Metal	White	
308	0.12	Garage Door Main Field	Metal	White	
309	2.7	Garage Door Frame	Metal	White	Pos (3)
310	0.03	O.H. Door	Metal	Brown	
311	1.0	O.H. Door Lintel/Casing	Metal	White	Pos (2)
312	2.0	Antenna	Metal	Red	Pos 2.0
313	0.16	Hand Rail to Jet Hanger	Metal Pipe	Black	
314	4.4	Jet Hanger	Metal I-Beam	Tan/Red	Pos (1.0)
315	0.00	~~Salt Shed~~	Wood Shingle	Stain	
316	0.00	DR	Wd	Gray	
317	0.11	DC	Wd	gray	
318	2.7	Lolly Column	Metal	Yellow	Pos (3.0)
319	0.00	Storage Bin by Hangers	Metal	Red	
320	0.00	Trim around Roof	Metal	White	

LEAD INSPECTION DATA PAGE



PROJECT NAME: Putnam Repair Garage

NO. DOORS: _____

UNIT NUMBER: Bldg # 81-294

NO. WINDOWS: _____

SAMPLE NUMBER	RESULTS (Mg/cm2)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
Storage Shed Ext. 321	0101	DR Ext. Header	Metal	White	
322	1.2	DR	Metal	Gray	+
323	1.4	DC	Metal	Gray	+
324	0.05	Frame	Metal	Gray	
325	0.15	Garage Door, Main Field	Fiberboard	Gray	
326	0.01	Garage Door, Framing	Wood	Gray	
327	1.5	Block, Material	Wood	Green	+
328	1.0	Test. 1.0	Core	—	—

APPENDIX M

RELATED CORRESPONDENCE

Plimpton, Erik

From: Young, Denise A <Denise.Young@ct.gov>
Sent: Wednesday, March 14, 2018 9:17 AM
To: Arienti, Stephen
Cc: Coite, Jason M.; Plimpton, Erik
Subject: RE: Putnam MF Cold Storage Building

The slab is going to be removed and the whole thing is pre 1979. Go ahead and test – I'd rather find out now than in construction. Too many contractors are taking their own tests if they don't like what we did.

Denise

Denise Young
Department of Transportation
Environmental Compliance
2800 Berlin Tpke.
Newington, CT 06111
(860)594-2686 fax (860)594-2456

5607

From: Arienti, Stephen [mailto:SArienti@trcsolutions.com]
Sent: Monday, March 12, 2018 10:28 AM
To: Young, Denise A
Cc: Coite, Jason M.; Plimpton, Erik
Subject: RE: Putnam MF Cold Storage Building

Black expansion joint material around perimeter of the slab of the CSB was negative for asbestos. Just need to know how to handle for PCBs.

Our inspectors found ~15 SF of asphalt/concrete roofing debris on top of the suspended ceiling tiles of the clerk's office. This was the only place within the MF where we identified any roofing debris. This debris also tested negative for asbestos.

If you have any question, please let me know.

Thank you,

Stephen Arienti, CHMM
Senior Project Manager

TRC Results you can rely on

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From: Arienti, Stephen
Sent: Thursday, March 8, 2018 2:56 PM
To: Denise.Young@ct.gov
Cc: Coite, Jason M. (Jason.Coite@ct.gov) <Jason.Coite@ct.gov>; Plimpton, Erik <EPlimpton@trcsolutions.com>
Subject: Putnam MF Cold Storage Building

Denise,

During our inspection we identified a black expansion joint material that went around the perimeter of the slab of the CSB. We are having it tested for asbestos but currently have it on hold for possible PCB analysis. Do we know the date of construction of the CSB because if it is post 1979 then we don't need to test it. But if it was built pre 1979, we wanted to know if you want this material tested for PCBs as it is not really a caulking or glazing per say like we normally test for PCBs. Also, is the CSB slated for full demolition where the slab would be coming out. If it is, then it might be something else to consider in determining if you want to test it.

If you have any questions, please let me know

Thanks,

Stephen Arienti, CHMM
Senior Project Manager

21 Griffin Road North, Windsor, CT 06095
T: 860.298.6287 | F: 860.298.6380 | C: 860.508.9240

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Plimpton, Erik

From: Plimpton, Erik
Sent: Thursday, January 3, 2019 11:04 AM
To: Jacko, Carmen; Schaffner, Patrick
Cc: Arienti, Stephen
Subject: friday

Carmen/Pat

Got you guys going to Putnam MF tomorrow to take more concrete slab substrate samples from the Cold Storage Building for PCB.

Carmen, you were there with Mike for the initial sampling. Many of the 0" samples came back >1ppm, so we need to get some data from further away to try to figure out how much needs to get removed.

So I want to take 1 sample from each side of the building (A, B, C, D) at both the 3" and 6" distances from the EJ1 material that goes around the perimeter.

So you are collecting 8 samples total.

They know we are coming tomorrow so place should be opened.
You will need all the gear for substrate sampling.

Pat, talk to carmen, he had been there

Erik R Plimpton, PE, CHMM, CMC
Vice President
Building Sciences & Industrial Hygiene Practice Leader

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WorkCare (888) 449-7787

Incident Notification Report

Auto Incident Report

Safe Catch Report

Plimpton, Erik

From: Young, Denise A <Denise.Young@ct.gov>
Sent: Wednesday, January 2, 2019 7:47 AM
To: Arienti, Stephen; Plimpton, Erik
Subject: FW: friday - putnam MF

Should be all set

TAKE ANOTHER CORE FROM SAMPLES -1 FROM EACH SIDE (A, B, C, D) AT BOTH 3" DISTANCES + 6" DISTANCE FROM EJ 1

Denise

Denise Young
Department of Transportation
Environmental Compliance
2800 Berlin Tpke.
Newington, CT 06111
(860)594-2686 fax (860)594-2456

From: Tatro, Jefferson
Sent: Wednesday, January 02, 2019 7:30 AM
To: DeCastro, John S <John.DeCastro@ct.gov>
Cc: Brouillard, Brian D <Brian.Brouillard@ct.gov>; Young, Denise A <Denise.Young@ct.gov>
Subject: Re: friday - putnam MF

Good morning John, will do.

SO TOTAL OF 8 SAMPLES

Sent via the Samsung Galaxy S7, an AT&T 4G LTE smartphone

-------- Original message --------
From: "DeCastro, John S" <John.DeCastro@ct.gov>
Date: 1/2/19 7:28 AM (GMT-05:00)
To: "Tatro, Jefferson" <Jefferson.Tatro@ct.gov>
Cc: "Brouillard, Brian D" <Brian.Brouillard@ct.gov>, "Young, Denise A" <Denise.Young@ct.gov>
Subject: FW: friday - putnam MF

Good morning Jeff,

A consultant will be out on Friday for a site review (see below).

Thanks
John

From: Young, Denise A <Denise.Young@ct.gov>
Sent: Wednesday, January 02, 2019 7:16 AM

To: DeCastro, John S <John.DeCastro@ct.gov>
Subject: FW: friday - putnam MF

John – TRC will be out on Friday at the Putnam cold storage behind the garage. Can you arrange to have it unlocked?

Thanks

Denise
Denise Young
Department of Transportation
Environmental Compliance
2800 Berlin Tpke.
Newington, CT 06111
(860)594-2686 fax (860)594-2456

From: Plimpton, Erik [mailto:EPlimpton@trcsolutions.com]
Sent: Monday, December 31, 2018 8:49 AM
To: Young, Denise A <Denise.Young@ct.gov>
Cc: Arienti, Stephen <SArienti@trcsolutions.com>
Subject: RE: friday - putnam MF

Scratch that, can we make it Friday?

Erik R. Plimpton, PE, CHMM, CMC

TRC
860-798-4699
eplimpton@trcsolutions.com

From: Plimpton, Erik
Sent: Monday, December 31, 2018 8:25 AM
To: 'Young, Denise A' <Denise.Young@ct.gov>
Cc: Arienti, Stephen <SArienti@trcsolutions.com>
Subject: RE: friday - putnam MF

We need to get back into the Putnam MF CSB again, bunch of data at the 0" mark in the concrete is >1ppm, so we need to get some data further away to try to figure out what the cut line will be for removal.

Can we get back in there on Thursday 1/3.

Erik R. Plimpton, PE, CHMM, CMC

TRC
860-798-4699
eplimpton@trcsolutions.com

From: Plimpton, Erik
Sent: Wednesday, November 28, 2018 10:59 AM
To: Young, Denise A <Denise.Young@ct.gov>
Cc: Arienti, Stephen <SArienti@trcsolutions.com>
Subject: friday - putnam MF

Denise
If you want to give someone a heads up, on Friday we will be heading back to the Putnam MF Cold Storage Building to do some concrete substrate sampling for PCB along the floor slab and wall lip adjacent to the perimeter expansion joint material that we found as >50PPM PCB.

Erik R Plimpton, PE, CHMM, CMC
Vice President
Building Sciences & Industrial Hygiene Practice Leader

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WorkCare (888) 449-7787

Incident Notification Report

Auto Incident Report

Safe Catch Report

Plimpton, Erik

From: Plimpton, Erik
Sent: Wednesday, January 16, 2019 10:18 AM
To: 'Young, Denise A'; Coite, Jason M.
Cc: Arienti, Stephen
Subject: RE: putnam MF CSB concrete slab

Yes we can

Erik R. Plimpton, PE, CHMM, CMC

TRC
860-798-4699
eplimpton@trcsolutions.com

From: Young, Denise A [mailto:Denise.Young@ct.gov]
Sent: Wednesday, January 16, 2019 10:17 AM
To: Plimpton, Erik <EPlimpton@trcsolutions.com>; Coite, Jason M. <Jason.Coite@ct.gov>
Cc: Arienti, Stephen <SArienti@trcsolutions.com>
Subject: RE: putnam MF CSB concrete slab

Can we take all of the samples and don't run them until we see what we get at 1'? If those are clean, I don't want to generate anything that might conflict further out.

Denise

Denise Young
Department of Transportation
Environmental Compliance
2800 Berlin Tpke.
Newington, CT 06111
(860)594-2686 fax (860)594-2456

From: Plimpton, Erik [mailto:EPlimpton@trcsolutions.com]
Sent: Wednesday, January 16, 2019 10:03 AM
To: Coite, Jason M. <Jason.Coite@ct.gov>; Young, Denise A <Denise.Young@ct.gov>
Cc: Arienti, Stephen <SArienti@trcsolutions.com>
Subject: putnam MF CSB concrete slab

I checked it out and I didn't see anything out of the ordinary. Its def not painted and if it has any sort of sealer on it I cannot tell, seems to just be unpainted concrete to me.
They do store drums of hydraulic fluid and diesel fuel and stuff like that, and lawnmowers etc and there are plenty of stains in places but not at every place we took samples.

To make it more confusing, most of our 3" samples were actually higher than the 0" samples, with levels then dropping down at 6" distance from the expansion joint

I don't know to be honest

I'm gonna suggest we do a couple samples at 1' and 2' distances and then 1 or 2 right smack in the middle of the floor as far away from any expansion joint or stain as we can and see what we get?
Agree?

Erik R Plimpton, PE, CHMM, CMC
Vice President
Building Sciences & Industrial Hygiene Practice Leader

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WorkCare (888) 449-7787

Incident Notification Report

Auto Incident Report

Safe Catch Report

From: Jacko, Carmen CJacko@trcsolutions.com
Subject: Re: Monday 1/4
Date: Feb 1, 2019 at 3:34:35 PM
To: Arienti, Stephen SArienti@trcsolutions.com

Ok

On Feb 1, 2019, at 3:14 PM, Arienti, Stephen <SArienti@trcsolutions.com> wrote:

Got you 2 going to Putnam MF Cold Storage Building to take some more PCB substrate samples of the concrete slab. Carmen you have been there so you know the deal.

Need 4 samples 1 foot away from caulk line (1 from each side)
Need 4 samples 2 foot away from caulk line (1 from each side)
Need 2 samples right in the center of the slab

Submit samples to Phoenix and indicate DAS rates on COC. Indicate on the COC to ONLY analyze the 1 foot samples and HOLD the rest.

Come into office and grab equipment. Carmen I will throw a drawing in your mail box that you can mark your locations.

Stephen Arienti, CHMM
Senior Project Manager

21 Griffin Road North, Windsor, CT 06095
T: 860.298.6287 | F: 860.298.6380 | C: 860.508.9240
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Plimpton, Erik

From: Young, Denise A <Denise.Young@ct.gov>
Sent: Thursday, February 7, 2019 11:56 AM
To: Plimpton, Erik
Cc: Arienti, Stephen
Subject: RE: Conn DOT Putnam

Since it's all 1254 at varying levels, I can't see sending it to another lab unless something turns up in the QA/QC data. I've got to believe it was either in the concrete or in a form oil or something weird like that.

Denise

Denise Young

Department of Transportation
Environmental Compliance
2800 Berlin Tpke.
Newington, CT 06111
(860)594-2686 fax (860)594-2456

From: Plimpton, Erik [mailto:EPlimpton@trcsolutions.com]
Sent: Thursday, February 07, 2019 11:33 AM
To: Young, Denise A <Denise.Young@ct.gov>
Cc: Arienti, Stephen <SArienti@trcsolutions.com>
Subject: FW: Conn DOT Putnam

I give up, I cannot explain it but the whole concrete slab at the CSB in Putnam is TSCA remediation waste. Can't be coming from the perimeter expansion joint. I have no idea.

Unless you want me to send some samples to another lab to QC, then that's what it is.

Erik R. Plimpton, PE, CHMM, CMC

TRC
860-798-4699
eplimpton@trcsolutions.com

From: Bobbi Aloisa [mailto:bobbi@phoenixlabs.com]
Sent: Thursday, February 7, 2019 10:37 AM
To: Plimpton, Erik <EPlimpton@trcsolutions.com>
Subject: Conn DOT Putnam

Plimpton, Erik

From: Plimpton, Erik
Sent: Monday, April 15, 2019 10:54 AM
To: Young, Denise A; Arienti, Stephen
Subject: RE: Putnam

No im pretty sure we surveyed the whole place

Erik R. Plimpton, PE, CHMM, CMC

TRC
860-798-4699
eplimpton@trcsolutions.com

From: Young, Denise A (mailto:Denise.Young@ct.gov)
Sent: Monday, April 15, 2019 10:50 AM
To: Plimpton, Erik <EPlimpton@trccompanies.com>; Arienti, Stephen <SArienti@trccompanies.com>
Subject: Putnam

Erik/Steve – they may be doing a complete demo of the existing building. I'm guessing that we have half a building that we would have to go back out to investigate?

Denise

Denise Young
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Plimpton, Erik

From: Plimpton, Erik
Sent: Tuesday, May 28, 2019 1:51 PM
To: Young, Denise A; Arienti, Stephen
Subject: RE: Putnam boiler room

EP

Friday 6/7 at 930AM

Erik R. Plimpton, PE, CHMM, CMC

TRC
860-798-4699
eplimpton@trcsolutions.com

01-02 Boiler Rich Pipe (B1)
~~[illegible]~~
3-4 ~~[illegible]~~ Boiler Small Curly Flex Gasket (B1)

From: Young, Denise A [mailto:Denise.Young@ct.gov]
Sent: Tuesday, May 28, 2019 11:44 AM
To: Plimpton, Erik <EPlimpton@trccompanies.com>; Arienti, Stephen <SArienti@trccompanies.com>
Subject: RE: Putnam boiler room

Henry says any day next week after 9 am works for him

Denise

Denise Young
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2800 Berlin Tpke.
Newington, CT 06111
(860)594-2686 fax (860)594-2456

From: Plimpton, Erik [mailto:EPlimpton@trccompanies.com]
Sent: Tuesday, May 28, 2019 11:09 AM
To: Young, Denise A <Denise.Young@ct.gov>; Arienti, Stephen <SArienti@trccompanies.com>
Subject: RE: Putnam boiler room

You pick a day that's works for them, we will figure it out and get someone there

Erik R. Plimpton, PE, CHMM, CMC

TRC
860-798-4699

eplimpton@trcsolutions.com

From: Young, Denise A [mailto:Denise.Young@ct.gov]
Sent: Tuesday, May 28, 2019 11:07 AM
To: Plimpton, Erik <EPlimpton@trccompanies.com>; Arienti, Stephen <SArienti@trccompanies.com>
Subject: RE: Putnam boiler room

Do you have a suggested day next week to have someone meet him?

Denise

Denise Young
Department of Transportation
Environmental Compliance
2800 Berlin Tpke.
Newington, CT 06111
(860)594-2686 fax (860)594-2456

From: Plimpton, Erik [mailto:EPlimpton@trccompanies.com]
Sent: Tuesday, May 28, 2019 11:05 AM
To: Young, Denise A <Denise.Young@ct.gov>; Arienti, Stephen <SArienti@trccompanies.com>
Subject: RE: Putnam boiler room

Looking at our file

That ACM white cloth gasket that Enviromed had noted on the boilers flue cleanout was not present at the time of our recent survey.
However it doesn't look as though either Enviromed or TRC did any internal boiler demo access (TRC survey was during heating season).
We have had boilers at these MFs that have had internal boiler packings etc that were ACM that you don't really find till you crack them open.
Not sure how big or old this one is, but we would typically presume that stuff may be present and spec it that way to be dismantled in containment etc.

With heating season over if we can get a clear understanding of what parts of the boiler will need to be impacted/come off to facilitate this repair, we may be able to check things out ahead of time.

Def return visit for that, maybe meet Henry or someone on site who knows what is going to be impacted.

Erik R. Plimpton, PE, CHMM, CMC

TRC
860-798-4699
eplimpton@trcsolutions.com

From: Young, Denise A [mailto:Denise.Young@ct.gov]
Sent: Friday, May 24, 2019 11:44 AM
To: Arienti, Stephen <SArienti@trccompanies.com>
Cc: Plimpton, Erik <EPlimpton@trccompanies.com>
Subject: FW: Putnam boiler room

Can you guys see if we already have the info or if we need to go back out? If an abatement is needed, we'll likely need to do it through one of the on-calls just before they do the new boiler.

Denise

Denise Young
Department of Transportation
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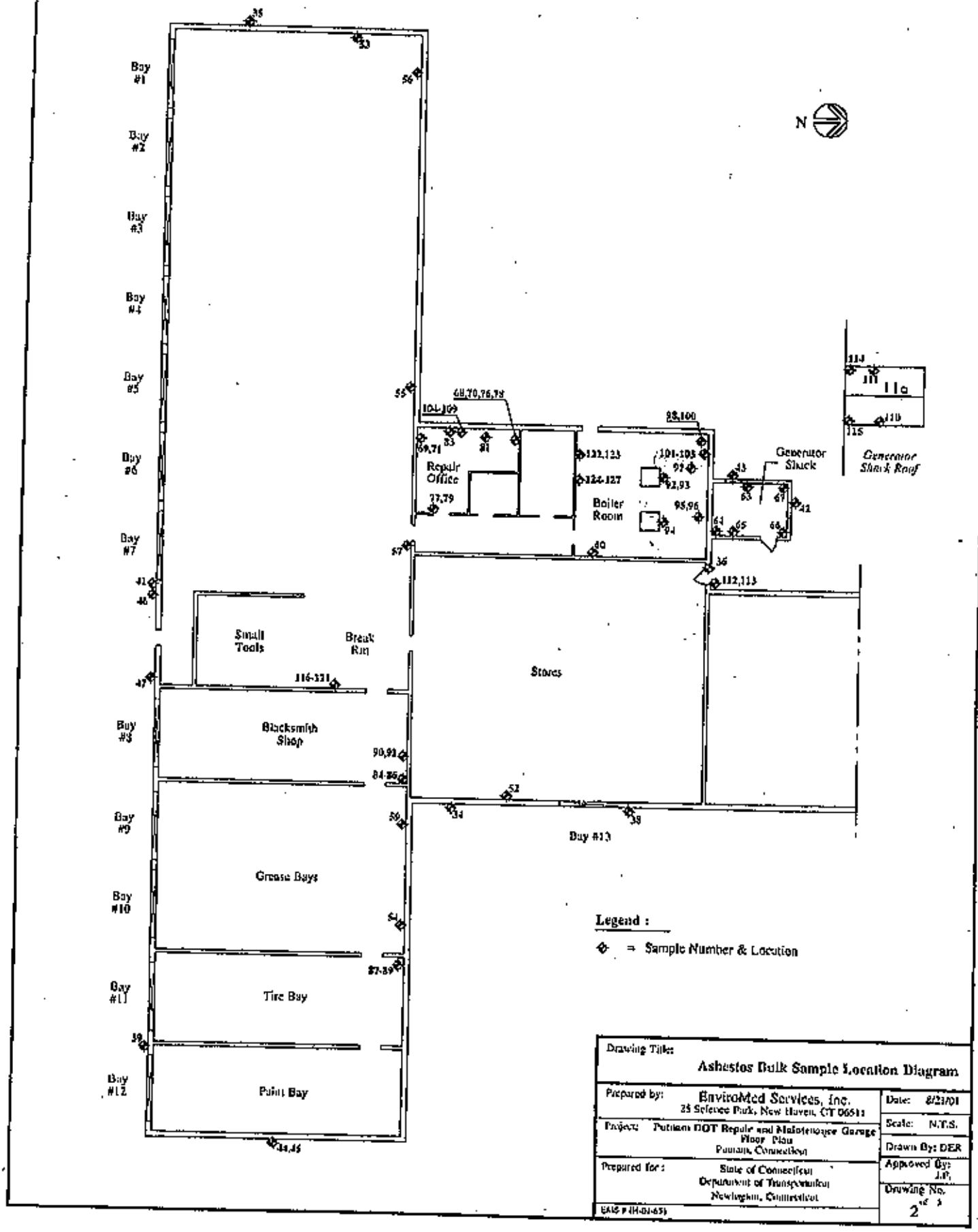
2800 Berlin Tpke.
Newington, CT 06111
(860)594-2686 fax (860)594-2456

From: Granger, Henry A
Sent: Friday, May 24, 2019 11:41 AM
To: Hartley, David <David.Hartley@ct.gov>
Cc: Young, Denise A <Denise.Young@ct.gov>; Yantosh, Kevin <Kevin.Yantosh@ct.gov>
Subject: Putnam boiler room

Before next heating season begins, we have to replace a back section on boiler 1 in Putnam. Reading over the asbestos report, there seems to be some possible asbestos at or near we have to do the work. Could we have this looked at before we start. Thanks. Henry.


Bay #1
Bay #2
Bay #3
Bay #4
Bay #5
Bay #6
Bay #7
Bay #8
Bay #9
Bay #10
Bay #11
Bay #12
Bay #13
N
Repair Office
Boiler Room
Generator Shack
Generator Shack Roof
Small Tools
Break Rm
Stores
Blacksmith Shop
Grease Bays
Tire Bay
Paint Bay
Legend :
= Sample Number & Location
Drawing Title:
Asbestos Bulk Sample Location Diagram
Prepared by:
EnviroMed Services, Inc.
35 Science Park, New Haven, CT 06511
Date: 8/23/01
Scale: N.T.S.
Project: Putnam DOT Repair and Maintenance Garage Floor Plan
Putnam, Connecticut
Drawn By: DER
Prepared for:
State of Connecticut
Department of Transportation
Newington, Connecticut
Approved By: J.P.
Drawing No. 2

There is approximately 2 square feet of type-I chimney breeching cement located in the blacksmith shop. This material was found to contain 50-60 percent asbestos.

There is approximately 2 square feet of type-II chimney breeching cement located in the tire garage bays. This material was found to contain 15 percent asbestos.

Repair Office

There is approximately 16 square feet of aircell pipe insulation and 4 square feet of mudded pipe fitting insulation located in the repair office. These materials were found to contain 35 percent asbestos.

Boiler Room

There is approximately 12 square feet of white cloth gasket located on the boiler's flue cleanout. This material was found to contain 35 percent asbestos.

The heavy braided electrical wire insulation located on the main switch/panel was found to contain 40-45 percent asbestos. This material was not quantified due to physical constraints which made the material inaccessible.

There is approximately less than 1 square feet of non-conductive caulk located on the boiler emergency control panel. This material was found to 12 percent asbestos.

Non-Asbestos Containing Materials Found During the Inspection

The following materials were found to contain legally insignificant amounts (0–1 percent) of asbestos: flashing caulk, gutter seam sealer, all layers of built up roofing, bay door gasket caulk, various types of louvre vent frame caulk, wood siding caulk, interior door frame caulk, floor expansion joint, pressboard, wallboard, wallboard joint compound, 12" white with gray streaks vinyl floor tile and associated mastic, 12" cream with brown streaks vinyl floor tile and associated mastic, 4" brown cove molding and associated glue, 2'x4' suspended ceiling tile, 12" fixed ceiling tile, exhaust fan frame caulk, 18" boiler breeching insulation, 30" boiler breeching insulation, 36" boiler breeching insulation, black asphalt shingles, black asphalt roll roofing, flashing caulk, braided wire insulation, insulator panel, and red asphalt shingle on building #94-462.

See Section IV for a copy of the laboratory analysis sheets for the samples collected.

Sample Number	Location	Material Sampled	Percent Asbestos
77	building # 81-174 repair office	4" brown cove molding	NAD
78	building # 81-174 repair office	glue under 4" brown cove molding	NAD
79	building # 81-174 repair office	glue under 4" brown cove molding	NAD
80	building # 81-174 clerk office	2'x4' suspended ceiling tile	NAD
81	main building repairoffice	2'x4' suspended ceiling tile	NAD
82	building # 81-174 kitchen	12" fixed ceiling tile	NAD
83	building # 81-174 repair office	12" fixed ceiling tile	NAD
84	building # 81-174 blacksmith shop (bay #8)	chimney breeching cement (type 1)	60
85	building # 81-174 blacksmith shop (bay #8)	chimney breeching cement (type 1)	NAD
86	building # 81-174 blacksmith shop (bay #8)	chimney breeching cement (type 1)	50
87	building # 81-174 tire bay (bay #11)	chimney breeching cement (type 2)	15
88	building # 81-174 tire bay (bay #11)	chimney breeching cement (type 2)	15
89	building # 81-174 tire bay (bay #11)	chimney breeching cement (type 2)	15
90	building # 81-174 blacksmith shop (bay #8)	exhaust fan frame caulk	NAD
91	building # 81-174 blacksmith shop (bay #8)	exhaust fan frame caulk	NAD
92	building # 81-174 boiler room	18" boiler breeching insulation (round)	NAD
93	building # 81-174 boiler room	18" boiler breeching insulation (round)	NAD
94	building # 81-174 boiler room	18" boiler breeching insulation (round)	NAD
95	building # 81-174 boiler room	36" boiler breeching insulation (round)	NAD
96	building # 81-174 boiler room	36" boiler breeching insulation (round)	NAD
97	building # 81-174 boiler room	36" boiler breeching insulation (round)	NAD
98	building # 81-174 boiler room	30" boiler breeching insulation (square)	NAD
99	building # 81-174 boiler room	30" boiler breeching insulation (square)	NAD
100	building # 81-174 boiler room	30" boiler breeching insulation (square)	NAD
101	building # 81-174 boiler room	white cloth gasket	35
102	building # 81-174 boiler room	white cloth gasket	35

NAD - No Asbestos Detected

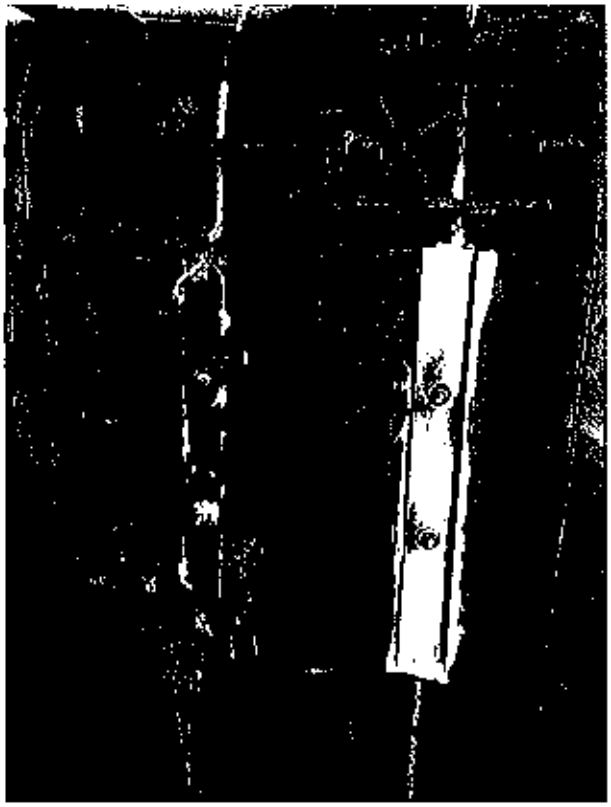
ConnDOT, ConnDOT Putnam Maintenance facility main bldg, Windham, , Putnam, 06260, CT, US, Industrial Park Rd, 3

Project	Export Project - Temporary
Created	2019-06-07 13:36:47 UTC by Erik Plimpton
Updated	2019-06-07 13:58:02 UTC by Erik Plimpton
Location	41.8998366874102, -71.8893047143443
Status	Survey Complete

Job Information

Site Name	ConnDOT Putnam Maintenance facility main bldg
Address	3 Industrial Park Rd Putnam, CT 06260
TRC Project Number	222165.5607.710
Project Manager	Erik Plimpton
Inspector(s)	Erik Plimpton
Client	ConnDOT
Type of Asbestos Survey	Reno/Demo
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
PLM Turnaround Time (TAT)	48-hour
TEM Turnaround Time (TAT)	48-hour
Date	2019-06-07
General Notes	Boiler #1 in need of repair at back end, leaking internal seal Rib rope gaskets not prior sample Also spy glass gasket Boiler insul under metal is FG Also some mineral wool packing over the suspect rope 3 beeechinf types/sizes previously sampled by enviromed as negative FG pipe insul and foam glass insul

Overview Photo



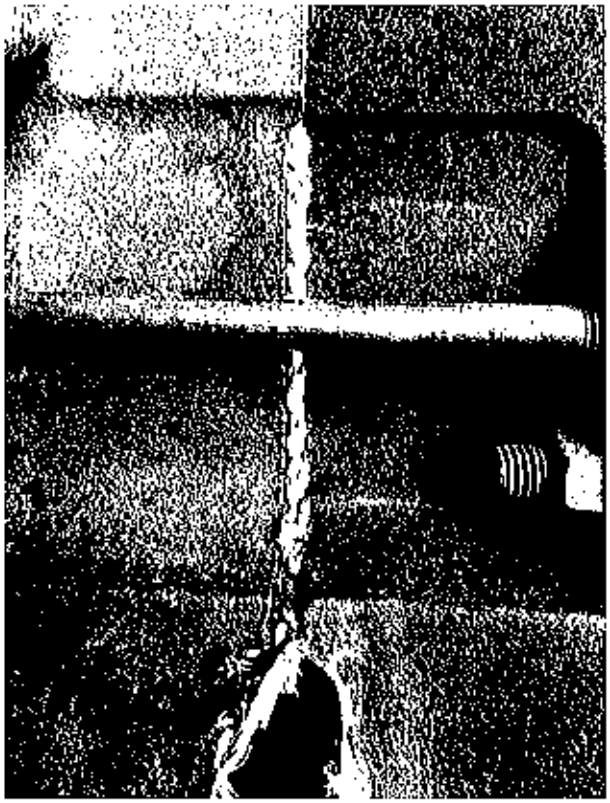
Surveys Performed

Asbestos

Asbestos Section

(2), RIB, Rope boiler rib packing , 2

Representative Photos



01, B1 rear riv

Sample Number	01
Sample Location	B1 rear riv
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-06-07
Time	09:43

02, B1 rear rib at breech jnctn

Sample Number	02
Sample Location	B1 rear rib at breech jnctn
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-06-07
Time	09:43

Material Information

Sampled or Assumed?	Sampled
Material Acronym	RIB
Material Description	Rope boiler rib packing
Is Material a Non-Friable Organically Bound (NOB)	No

Homogeneous Area	Boiler 1
Total Count	(2)
Total Count (number only)	2

(2), GSKT, Spy glass flange gasket, 2

Representative Photos

03, B1 rear small spy glass

Sample Number	03
Sample Location	B1 rear small spy glass
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-06-07
Time	09:47

04, B1 rear small spy gkass

Sample Number	04
Sample Location	B1 rear small spy gkass
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-06-07
Time	09:47

Material Information

Sampled or Assumed?	Sampled
Material Acronym	GSKT
Material Description	Spy glass flange gasket
Is Material a Non-Friable Organically Bound (NOB)	No
Homogeneous Area	Boiler 1 rear small spy glass
Total Count	(2)
Total Count (number only)	2

General Information

Signature

Signed 2019-06-07 13:42:55 UTC

Asbestos Samples Submitted to TRC Lab	Yes
Date Submitted to Lab	2019-06-07
App Name	WinBSI HBM Survey 1.0

Generate Report Documentation

Select one or more documents below to be generated. Once completed in the cloud, they will be sent to the listed email address. Please report any difficulties or errors to Justin Coleman.

What documents should be generated?	Asbestos chain-of-custody
Where should the document(s) be sent?	eplimpton@trcsolutions.com
Generate Documents	N/A