Town of Fairfield

David Kluczwski, C.C.M.C.
Collector

Fairfield, Connecticut 06824
Office of Collector of Taxes

611 Old Post Road
(203) 256-3100
FAX (203) 254-4803
E-mail: dkluczwski@fairfieldct.org

To: The Board of Finance

From: David Kluczwski, CCMC

Dated: May 4, 2023

RE: Request for Approval of Transfer of Uncollectible Taxes to Suspense in Accordance with CGS 12-165

In accordance with CGS 12-165, I am respectfully requesting the Board of Finance to approve the transfer of tax accounts amounting to $80,465.29 to the Suspense Tax Book.

To Be Suspended:

Motor Vehicle taxes: $72,579.10

Personal Property taxes: $7,886.19

The Tax Office staff has spent a considerable amount of time researching accounts to be put on suspense in order to have an accurate file of collectable accounts.

I believe these accounts to be uncollectable and have not been paid to the best of my knowledge.

Please note any tax transferred in this manner is still collectable if additional information is received and will be continued to be pursued by outside collection procedures if deemed appropriate.

Respectfully submitted,

David Kluczwski, CCMC
Fairfield Tax Collector

JUNE 1 2023 **SUSPENSE REPORT**

MOTOR VEHICLE

2016 MOTOR VEHICLES	$60,744.98
2017 MOTOR VEHICLES	$357.69
2018 MOTOR VEHICLED	$648.86
2019 MOTOR VEHICLES	
2020 MOTOR VEHICLES	$709.59
2021 MOTOR VEHICLES	$1,765.70

MOTOR VEHICLE SUPPLEMENTAL

2016 MOTOR VEHICLE SUPPLEMENTAL	$7,899.15
2019 MOTOR VEHICLE SUPPLEMENTAL	$362.42
2020 MOTOR VEHICLE SUPPLEMENTAL	$90.71

TOTAL MOTOR VEHICLE

$72,579.10

PERSONAL PROPERTY

2018 PERSONAL PROPERTY	$2.00
2019 PERSONAL PROPERTY	$140.66
2020 PERSONAL PROPERTY	$3,109.46
2021 PERSONAL PROPERTY	$4,634.07

TOTAL PERSONAL PROPERTY **$7,886.19**

TOTAL SUSPENSE AS OF APRIL 21 2023 **$80,465.29**

TOTAL PAID IN FULL

TOTAL PARTIAL PAYMENTS

TOTAL PAID

TOTAL POSTED SUSPENSE

Modify Suspense Report

TOWN OF FAIRFIELD Date: 04/21/2023 Time: 13:59:53

Condition (s): Year: 2021, Type: 00 - ALL BILLS, Order: Bill Number, Total Only: No, Recap by Dist: No

Bill #	Dst	Name	Code	Reason	Date	Town Due/Susp	Dist Due/Susp	Sewer Due/Susp	Total
2016-03-0050006		1980 MAIN STREET LLC	UC	UNCOLLECTABLE	04/17/2023	113.10			
2016-03-0050014		67-75 WASHINGTON AVE ASSOCIATES	UC	UNCOLLECTABLE	04/17/2023	935.72			
2016-03-0050062		ABBOTT ALEXANDER Z	UC	UNCOLLECTABLE	04/17/2023	256.14			
2016-03-0050577		ADAM EDELINE	UC	UNCOLLECTABLE	04/17/2023	88.05			
2016-03-0050616		ADAMS STEVEN C	UC	UNCOLLECTABLE	04/17/2023	93.21			
2016-03-0050627		ADELFO RAMIREZ LLC	UC	UNCOLLECTABLE	04/17/2023	2.00			
2016-03-0050667		AFRIYIE LUCY O	UC	UNCOLLECTABLE	04/17/2023	185.40			
2016-03-0050686		AGO PAINTING	UC	UNCOLLECTABLE	04/17/2023	71.78			
2016-03-0050850		ALEMAN ANTHONY	UC	UNCOLLECTABLE	04/17/2023	51.64			
2016-03-0050851		ALEMAN ANTHONY	UC	UNCOLLECTABLE	04/17/2023	231.36			
2016-03-0050943		ALLEN ERIC A	UC	UNCOLLECTABLE	04/17/2023	79.53			
2016-03-0050953		ALLEN KATHERINE E	UC	UNCOLLECTABLE	04/17/2023	198.82			
2016-03-0051188		ANASTASSOV STASSI	UC	UNCOLLECTABLE	04/17/2023	286.10			
2016-03-0051222		ANDERSON DOROTHY A	UC	UNCOLLECTABLE	04/17/2023	124.72			
2016-03-0051289		ANDERSON STEVEN	UC	UNCOLLECTABLE	04/17/2023	218.70			
2016-03-0051524		ARCHER JAMES G	UC	UNCOLLECTABLE	04/17/2023	27.37			
2016-03-0051525		ARCHER JAMES G	UC	UNCOLLECTABLE	04/17/2023	115.68			
2016-03-0051599		ARMSTRONG AARON C	UC	UNCOLLECTABLE	04/17/2023	128.84			
2016-03-0051628		ARNOW BRIAN D	UC	UNCOLLECTABLE	04/17/2023	272.40			
2016-03-0052047		BALASUBRAMANI CHAITHA	UC	UNCOLLECTABLE	04/17/2023	426.16			
2016-03-0052131		BALOG KENNETH Z	UC	UNCOLLECTABLE	04/17/2023	154.92			
2016-03-0052711		BECHTEL WILLIAM B	UC	UNCOLLECTABLE	04/17/2023	12.91			
2016-03-0052990		BENNETT JOHN W	UC	UNCOLLECTABLE	04/17/2023	143.30			
2016-03-0052997		BENNETT LINDA M	UC	UNCOLLECTABLE	04/17/2023	80.43			
2016-03-0053226		BEZAHLER YVETTE L	UC	UNCOLLECTABLE	04/17/2023	107.54			
2016-03-0053367		BISACK AMANDA M	UC	UNCOLLECTABLE	04/17/2023	333.60			
2016-03-0053383		BISHOP JAMES T JR	UC	UNCOLLECTABLE	04/17/2023	152.34			
2016-03-0053424		BLAC INVESTMENT LLC	UC	UNCOLLECTABLE	04/17/2023	387.82			
2016-03-0053944		BORUSU SUNIL K	UC	UNCOLLECTABLE	04/17/2023	6.84			
2016-03-0054182		BRADY COLLIN T	UC	UNCOLLECTABLE	04/17/2023	92.18			
2016-03-0054358		BRESCHARD ROBERT H	UC	UNCOLLECTABLE	04/17/2023	151.82			
2016-03-0054381		BRICE KRISTIN A	UC	UNCOLLECTABLE	04/17/2023	87.27			
2016-03-0054382		BRICE RICHARD E	UC	UNCOLLECTABLE	04/17/2023	85.98			
2016-03-0054481		BRODZINSKI PAULA K	UC	UNCOLLECTABLE	04/17/2023	34.86			
2016-03-0054590		BROWN JOHN H JR	UC	UNCOLLECTABLE	04/17/2023	95.02			
2016-03-0054701		BRUNO CAROLYN C	UC	UNCOLLECTABLE	04/17/2023	131.42			
2016-03-0054820		BUILD IT GREEN CONSTR LLC	UC	UNCOLLECTABLE	04/17/2023	764.02			
2016-03-0055022		BUSTAMANTE LUIS F	UC	UNCOLLECTABLE	04/17/2023	75.14			
2016-03-0055071		BUZZEO ELIZABETH M	UC	UNCOLLECTABLE	04/17/2023	150.54			
2016-03-0055408		CAIN ROBERT E JR	UC	UNCOLLECTABLE	04/17/2023	32.02			
2016-03-0055808		CARBAJAL JESUS	UC	UNCOLLECTABLE	04/17/2023	80.82			
2016-03-0056343		CAZALET RYAN C	UC	UNCOLLECTABLE	04/17/2023	163.96			
2016-03-0056693		CHADBOURNE MARK A	UC	UNCOLLECTABLE	04/17/2023	57.84			
2016-03-0056711		CHALLENGER LYNN T	UC	UNCOLLECTABLE	04/17/2023	163.96			
2016-03-0056742		CHAN CYNTHIA L	UC	UNCOLLECTABLE	04/17/2023	324.04			
2016-03-0057712		COHN JONAH R	UC	UNCOLLECTABLE	04/17/2023	84.95			
2016-03-0058029		CONRAD RYAN J	UC	UNCOLLECTABLE	04/17/2023	96.05			
2016-03-0058104		COOKSEY KAREN E	UC	UNCOLLECTABLE	04/17/2023	214.56			
2016-03-0058128		COOPER KEENYA	UC	UNCOLLECTABLE	04/17/2023	131.94			
2016-03-0058238		CORREA JOSE M	UC	UNCOLLECTABLE	04/17/2023	104.32			
2016-03-0058639		CSATI CSABA	UC	UNCOLLECTABLE	04/17/2023	551.26			
2016-03-0058640		CSATI CSABA	UC	UNCOLLECTABLE	04/17/2023	95.79			
2016-03-0058641		CSATI CSABA	UC	UNCOLLECTABLE	04/17/2023	56.55			
2016-03-0059434		DANDRE NICHOLAS M	UC	UNCOLLECTABLE	04/17/2023	229.28			
2016-03-0059516		DASILVA JANINE N	UC	UNCOLLECTABLE	04/17/2023	309.58			
2016-03-0059517		DASILVA JANINE N	UC	UNCOLLECTABLE	04/17/2023	131.94			

Modify Suspense Report
TOWN OF FAIRFIELD Date: 04/21/2023 Time: 13:59:53
Condition (s): Year: 2021, Type: 00 - ALL BILLS, Order: Bill Number, Total Only: No, Recap by Dist: No

Bill #	Dst	Name	Code	Reason	Date	Town Due/Susp	Dist Due/Susp	Sewer Due/Susp	Total
2016-03-0059580		DAVILA GIOVANNI R	UC	UNCOLLECTABLE	04/17/2023	12.91			
2016-03-0060096		DELUCCA-ROTUNNO MARIA V	UC	UNCOLLECTABLE	04/17/2023	120.32			
2016-03-0060226		DENIS INVESTMENTS LLC	UC	UNCOLLECTABLE	04/17/2023	95.53			
2016-03-0060728		DING YUANCHEN	UC	UNCOLLECTABLE	04/17/2023	185.40			
2016-03-0060792		DIX DEVIN S	UC	UNCOLLECTABLE	04/17/2023	192.88			
2016-03-0060939		DONAHUE BROWN LLC OR	UC	UNCOLLECTABLE	04/17/2023	667.46			
2016-03-0060942		DONAHUE JOSEPH E	UC	UNCOLLECTABLE	04/17/2023	220.50			
2016-03-0061116		DOUGLAS MARY O	UC	UNCOLLECTABLE	04/17/2023	63.91			
2016-03-0061126		DOUICH ELMAHDI	UC	UNCOLLECTABLE	04/17/2023	315.78			
2016-03-0061127		DOUICH KARIM	UC	UNCOLLECTABLE	04/17/2023	530.60			
2016-03-0061267		DROBAC DANIEL J	UC	UNCOLLECTABLE	04/17/2023	306.87			
2016-03-0061268		DROBAC DANIEL J	UC	UNCOLLECTABLE	04/17/2023	178.03			
2016-03-0061359		DUGUAY CAROL A	UC	UNCOLLECTABLE	04/17/2023	48.28			
2016-03-0061559		DYNAMIC DESIGN INC	UC	UNCOLLECTABLE	04/17/2023	36.66			
2016-03-0061951		EATON CALVIN	UC	UNCOLLECTABLE	04/17/2023	9.48			
2016-03-0062322		ENTE S BOOTERY INC	UC	UNCOLLECTABLE	04/17/2023	114.39			
2016-03-0062323		ENTE S BOOTERY INC	UC	UNCOLLECTABLE	04/17/2023	72.81			
2016-03-0062324		ENTE S BOOTERY INC	UC	UNCOLLECTABLE	04/17/2023	74.62			
2016-03-0062510		ESPINEL ANITA	UC	UNCOLLECTABLE	04/17/2023	127.56			
2016-03-0062512		ESPINEL WILLIAM H	UC	UNCOLLECTABLE	04/17/2023	145.88			
2016-03-0062612		EVERGREEN MANAGEMENT GRO	UC	UNCOLLECTABLE	04/17/2023	148.22			
2016-03-0062676		FACELLA VICTORIA L	UC	UNCOLLECTABLE	04/17/2023	297.70			
2016-03-0062770		FAIRFIELD LIVERY SERVICE LLC	UC	UNCOLLECTABLE	04/17/2023	393.50			
2016-03-0062953		FALZARINE-GARCIA LISA M	UC	UNCOLLECTABLE	04/17/2023	266.72			
2016-03-0063490		FIFTH THIRD AUTO LEA TRT	UC	UNCOLLECTABLE	04/17/2023	159.06			
2016-03-0063491		FIFTH THIRD AUTO LEA TRT	UC	UNCOLLECTABLE	04/17/2023	170.42			
2016-03-0063525		FIMPEX GROUP INC	UC	UNCOLLECTABLE	04/17/2023	163.70			
2016-03-0063526		FIMPEX GROUP INC	UC	UNCOLLECTABLE	04/17/2023	188.50			
2016-03-0063527		FIMPEX GROUP INC	UC	UNCOLLECTABLE	04/17/2023	113.36			
2016-03-0063528		FIMPEX GROUP INC	UC	UNCOLLECTABLE	04/17/2023	157.76			
2016-03-0063529		FIMPEX GROUP INC	UC	UNCOLLECTABLE	04/17/2023	208.88			
2016-03-0064169		FIORE AVA L	UC	UNCOLLECTABLE	04/17/2023	753.18			
2016-03-0064394		FITCH PREYTRICE L	UC	UNCOLLECTABLE	04/17/2023	195.72			
2016-03-0064473		FJS BUILDING AND REMOLDING LLC	UC	UNCOLLECTABLE	04/17/2023	496.52			
2016-03-0064509		FLECKENSTEIN KATHLEEN M	UC	UNCOLLECTABLE	04/17/2023	47.51			
2016-03-0064780		FORISTALL JOHN A	UC	UNCOLLECTABLE	04/17/2023	268.54			
2016-03-0064798		FORTE DANIEL J	UC	UNCOLLECTABLE	04/17/2023	61.97			
2016-03-0064799		FORTE FRANK V	UC	UNCOLLECTABLE	04/17/2023	458.32			
2016-03-0064959		FRASER EVAN H	UC	UNCOLLECTABLE	04/17/2023	285.58			
2016-03-0064963		FRASER JAMES C	UC	UNCOLLECTABLE	04/17/2023	278.34			
2016-03-0064964		FRASER JAMES C	UC	UNCOLLECTABLE	04/17/2023	517.44			
2016-03-0065042		FREDERICKS JOANN	UC	UNCOLLECTABLE	04/17/2023	226.44			
2016-03-0065043		FREDERICKS JOANN	UC	UNCOLLECTABLE	04/17/2023	75.14			
2016-03-0065076		FREER KENNETH R	UC	UNCOLLECTABLE	04/17/2023	162.68			
2016-03-0065095		FRENCH JOSEPH R	UC	UNCOLLECTABLE	04/17/2023	2.00			
2016-03-0065123		FRIED JUSTIN	UC	UNCOLLECTABLE	04/17/2023	369.74			
2016-03-0065696		GARFANO FRANK H	UC	UNCOLLECTABLE	04/17/2023	865.24			
2016-03-0065782		GASPER ARLENE H	UC	UNCOLLECTABLE	04/17/2023	49.32			
2016-03-0065814		GAUDALUPE DEJESUS	UC	UNCOLLECTABLE	04/17/2023	56.03			
2016-03-0066490		GLUDD KEITH G	UC	UNCOLLECTABLE	04/17/2023	73.33			
2016-03-0066668		GOMEZ RENE E	UC	UNCOLLECTABLE	04/17/2023	84.95			
2016-03-0066669		GOMEZ RENE E	UC	UNCOLLECTABLE	04/17/2023	688.62			
2016-03-0066670		GOMEZ RENE E	UC	UNCOLLECTABLE	04/17/2023	56.75			
2016-03-0066809		GORDON GILBERT C 3RD	UC	UNCOLLECTABLE	04/17/2023	187.20			
2016-03-0066810		GORDON GILBERT C 3RD	UC	UNCOLLECTABLE	04/17/2023	55.51			
2016-03-0066824		GORMAN DAVID W	UC	UNCOLLECTABLE	04/17/2023	195.20			

Modify Suspense Report

TOWN OF FAIRFIELD Date: 04/21/2023 Time: 13:59:54

Condition (s): Year: 2021, Type: 00 - ALL BILLS, Order: Bill Number, Total Only: No, Recap by Dist: No

Bill #	Dst	Name	Code	Reason	Date	Town Due/Susp	Dist Due/Susp	Sewer Due/Susp	Total
2016-03-0066825		GORMAN DAVID W	UC	UNCOLLECTABLE	04/17/2023	211.48			
2016-03-0066919		GRABOWSKI PHILLIP P	UC	UNCOLLECTABLE	04/17/2023	25.82			
2016-03-0067079		GRAY-BRIVETT SONIA M	UC	UNCOLLECTABLE	04/17/2023	456.76			
2016-03-0067080		GRAYESKI DEBRA M	UC	UNCOLLECTABLE	04/17/2023	82.37			
2016-03-0067173		GREENFIELD LIQUOR SHOP LLC	UC	UNCOLLECTABLE	04/17/2023	41.05			
2016-03-0067244		GREGORIO DIMITRI R	UC	UNCOLLECTABLE	04/17/2023	208.38			
2016-03-0068030		HARASH MIKEL	UC	UNCOLLECTABLE	04/17/2023	84.95			
2016-03-0068586		HENRIQUEZ STEPHANIE L	UC	UNCOLLECTABLE	04/17/2023	154.16			
2016-03-0068665		HEREDIA MIGUEL A	UC	UNCOLLECTABLE	04/17/2023	87.27			
2016-03-0068666		HEREDIA MIGUEL A	UC	UNCOLLECTABLE	04/17/2023	75.14			
2016-03-0068717		HERNANDEZ ROSE M	UC	UNCOLLECTABLE	04/17/2023	106.64			
2016-03-0069071		HINDS MELISSA A	UC	UNCOLLECTABLE	04/17/2023	92.18			
2016-03-0069265		HOLDAMPF ANTHONY T	UC	UNCOLLECTABLE	04/17/2023	161.38			
2016-03-0069300		HOLLOWAY CHRISTINA M	UC	UNCOLLECTABLE	04/17/2023	277.06			
2016-03-0070417		HOURANI ABEER	UC	UNCOLLECTABLE	04/17/2023	171.06			
2016-03-0070484		HRABSTOCK LINDA M	UC	UNCOLLECTABLE	04/17/2023	116.72			
2016-03-0070495		HRUSCHKA MARC R	UC	UNCOLLECTABLE	04/17/2023	764.53			
2016-03-0070496		HRUSCHKA MARC R	UC	UNCOLLECTABLE	04/17/2023	54.87			
2016-03-0070539		HUEBNER CATHERINE P	UC	UNCOLLECTABLE	04/17/2023	270.34			
2016-03-0070690		HURTADO-QUEZADA ADRIAN C	UC	UNCOLLECTABLE	04/17/2023	122.65			
2016-03-0070691		HURTADO-QUEZADA ADRIAN C	UC	UNCOLLECTABLE	04/17/2023	52.02			
2016-03-0071069		IACURCI NICHOLAS R	UC	UNCOLLECTABLE	04/17/2023	192.88			
2016-03-0071543		JANZ KENNETH R	UC	UNCOLLECTABLE	04/17/2023	421.92			
2016-03-0071568		JARDINES ELIDAD	UC	UNCOLLECTABLE	04/17/2023	103.54			
2016-03-0071569		JARDINES MAYRA	UC	UNCOLLECTABLE	04/17/2023	32.02			
2016-03-0071846		JONES ANTHONY	UC	UNCOLLECTABLE	04/17/2023	100.44			
2016-03-0071899		JONES ROBERT H	UC	UNCOLLECTABLE	04/17/2023	75.14			
2016-03-0071900		JONES ROBERT H	UC	UNCOLLECTABLE	04/17/2023	17.30			
2016-03-0071927		JOSEFINA S CLEANING LLC	UC	UNCOLLECTABLE	04/17/2023	64.55			
2016-03-0072381		JPC CLEANING LLC	UC	UNCOLLECTABLE	04/17/2023	80.04			
2016-03-0072382		JPC CLEANING LLC	UC	UNCOLLECTABLE	04/17/2023	93.98			
2016-03-0072383		JPC CLEANING LLC	UC	UNCOLLECTABLE	04/17/2023	147.58			
2016-03-0072420		JULIUSBURGER NICHOLAS S	UC	UNCOLLECTABLE	04/17/2023	16.01			
2016-03-0072944		KEENE SUELLEN	UC	UNCOLLECTABLE	04/17/2023	93.98			
2016-03-0073056		KELLY ARLETTE M	UC	UNCOLLECTABLE	04/17/2023	106.64			
2016-03-0073236		KEPSHIRE JOSEPH G JR	UC	UNCOLLECTABLE	04/17/2023	111.28			
2016-03-0073350		KHAN TANVEER A	UC	UNCOLLECTABLE	04/17/2023	279.64			
2016-03-0073351		KHAN TANVEER A	UC	UNCOLLECTABLE	04/17/2023	80.30			
2016-03-0073352		KHAN TANVEER A	UC	UNCOLLECTABLE	04/17/2023	189.26			
2016-03-0073565		KIRIK PATRICIA L	UC	UNCOLLECTABLE	04/17/2023	206.04			
2016-03-0073906		KOJIC RAIF	UC	UNCOLLECTABLE	04/17/2023	254.34			
2016-03-0073907		KOJIC RAIF	UC	UNCOLLECTABLE	04/17/2023	86.76			
2016-03-0073943		KOLK MATTHEW J	UC	UNCOLLECTABLE	04/17/2023	82.37			
2016-03-0073951		KOLLAR MICHAEL S	UC	UNCOLLECTABLE	04/17/2023	45.70			
2016-03-0074013		KOPCHYAK RICHARD J	UC	UNCOLLECTABLE	04/17/2023	187.98			
2016-03-0074258		KREITLER JAMES E	UC	UNCOLLECTABLE	04/17/2023	17.04			
2016-03-0074320		KROUCH ALEXANDRA C	UC	UNCOLLECTABLE	04/17/2023	536.02			
2016-03-0074390		KUEHN MICHAEL R	UC	UNCOLLECTABLE	04/17/2023	74.36			
2016-03-0074439		KULA KRISTIN C	UC	UNCOLLECTABLE	04/17/2023	287.90			
2016-03-0074662		LAINEZ AVILA SEIDY T	UC	UNCOLLECTABLE	04/17/2023	179.98			
2016-03-0074763		LANDINI LAWRENCE	UC	UNCOLLECTABLE	04/17/2023	40.28			
2016-03-0074786		LANDRY STEVEN A	UC	UNCOLLECTABLE	04/17/2023	32.53			
2016-03-0074931		LARICCIA NICOLA M	UC	UNCOLLECTABLE	04/17/2023	142.28			
2016-03-0074932		LARICCIA NICOLA M	UC	UNCOLLECTABLE	04/17/2023	145.12			
2016-03-0074933		LARK JOHN JR	UC	UNCOLLECTABLE	04/17/2023	115.68			
2016-03-0075032		LATIF ABDUL	UC	UNCOLLECTABLE	04/17/2023	39.76			

Modify Suspense Report

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Condition (s): Year: 2021, Type: 00 - ALL BILLS, Order: Bill Number, Total Only: No, Recap by Dist: No

Bill #	Dst	Name	Code	Reason	Date	Town Due/Susp	Dist Due/Susp	Sewer Due/Susp	Total
2016-03-0075146		LAWRENCE GARTH A	UC	UNCOLLECTABLE	04/17/2023	36.15			
2016-03-0075327		LEDY JASON K	UC	UNCOLLECTABLE	04/17/2023	322.24			
2016-03-0075404		LEE RASHEED H	UC	UNCOLLECTABLE	04/17/2023	202.96			
2016-03-0075676		LEVIN INGA E	UC	UNCOLLECTABLE	04/17/2023	362.00			
2016-03-0075686		LEVINE EDWARD A	UC	UNCOLLECTABLE	04/17/2023	169.38			
2016-03-0075729		LEVY SIMON D	UC	UNCOLLECTABLE	04/17/2023	167.32			
2016-03-0075775		LEWIS MICHAEL TREVOR NOR	UC	UNCOLLECTABLE	04/17/2023	195.72			
2016-03-0076008		LIU YU	UC	UNCOLLECTABLE	04/17/2023	88.05			
2016-03-0076016		LIVE WIRES OF SOUTHPORT	UC	UNCOLLECTABLE	04/17/2023	134.26			
2016-03-0076033		LOADHOLT DEMETRIUS	UC	UNCOLLECTABLE	04/17/2023	156.48			
2016-03-0076304		LOYALTY PAINTING AND HOME IMPROVEMENT LL	UC	UNCOLLECTABLE	04/17/2023	158.28			
2016-03-0076305		LOYALTY PAINTING HOME IMPROVEMENT LLC	UC	UNCOLLECTABLE	04/17/2023	183.84			
2016-03-0076306		LOYATY PAINTING & HOME IMPROVEMENT	UC	UNCOLLECTABLE	04/17/2023	103.02			
2016-03-0076415		LUGOJANU AMALIA M	UC	UNCOLLECTABLE	04/17/2023	72.81			
2016-03-0076586		MA XUEYI	UC	UNCOLLECTABLE	04/17/2023	83.14			
2016-03-0076717		MACRAE ALLISON	UC	UNCOLLECTABLE	04/17/2023	208.37			
2016-03-0076793		MAGI EDWARD J	UC	UNCOLLECTABLE	04/17/2023	863.68			
2016-03-0076794		MAGI EDWARD J	UC	UNCOLLECTABLE	04/17/2023	12.91			
2016-03-0076795		MAGI EDWARD J	UC	UNCOLLECTABLE	04/17/2023	48.28			
2016-03-0076922		MAJOR KEAON L	UC	UNCOLLECTABLE	04/17/2023	163.96			
2016-03-0077041		MALONEY DREW L	UC	UNCOLLECTABLE	04/17/2023	43.51			
2016-03-0077066		MALSTROM DUSTIN	UC	UNCOLLECTABLE	04/17/2023	106.12			
2016-03-0077095		MANCINI JOSEPH A	UC	UNCOLLECTABLE	04/17/2023	51.12			
2016-03-0077096		MANCINI JOSEPH A	UC	UNCOLLECTABLE	04/17/2023	327.14			
2016-03-0077501		MARTILLO-RODAS STEFANIE A	UC	UNCOLLECTABLE	04/17/2023	131.18			
2016-03-0077622		MARTINSKY JOHN A JR	UC	UNCOLLECTABLE	04/17/2023	266.72			
2016-03-0077947		MAZIARZ WACLAW	UC	UNCOLLECTABLE	04/17/2023	51.12			
2016-03-0078137		MCCLINCH TERRANCE J	UC	UNCOLLECTABLE	04/17/2023	259.62			
2016-03-0078189		MCCORMICK SHELLEY E	UC	UNCOLLECTABLE	04/17/2023	230.06			
2016-03-0078192		MCCORMICK TIMOTHY	UC	UNCOLLECTABLE	04/17/2023	366.14			
2016-03-0078259		MCDONALD JANINE Y	UC	UNCOLLECTABLE	04/17/2023	96.44			
2016-03-0078425		MCGREGOR DYLAN C	UC	UNCOLLECTABLE	04/17/2023	251.24			
2016-03-0078500		MCINTYRE BRITTANY L	UC	UNCOLLECTABLE	04/17/2023	134.78			
2016-03-0078557		MCKEOWN MAUREEN A	UC	UNCOLLECTABLE	04/17/2023	88.56			
2016-03-0078713		MCNEILL TIFFANY	UC	UNCOLLECTABLE	04/17/2023	137.36			
2016-03-0078734		MCPADDEN MICHAEL P	UC	UNCOLLECTABLE	04/17/2023	106.12			
2016-03-0078904		MEINDL ERIC B	UC	UNCOLLECTABLE	04/17/2023	144.60			
2016-03-0079093		MERITIL PIERRE K	UC	UNCOLLECTABLE	04/17/2023	95.79			
2016-03-0079094		MERITIL PIERRE K	UC	UNCOLLECTABLE	04/17/2023	80.56			
2016-03-0079188		METROPOLITAN LIMOUSINE SERVICE INC	UC	UNCOLLECTABLE	04/17/2023	107.16			
2016-03-0079334		MIFFLIN JOHN M	UC	UNCOLLECTABLE	04/17/2023	63.26			
2016-03-0079454		MILLER KAYLA A	UC	UNCOLLECTABLE	04/17/2023	45.70			
2016-03-0079521		MINCEY ROYCHELLE L	UC	UNCOLLECTABLE	04/17/2023	1,196.50			
2016-03-0079522		MINCEY ROYCHELLE L	UC	UNCOLLECTABLE	04/17/2023	244.00			
2016-03-0079547		MINNITI RUSSELL R	UC	UNCOLLECTABLE	04/17/2023	152.86			
2016-03-0079558		MINTO NORMA E	UC	UNCOLLECTABLE	04/17/2023	185.40			
2016-03-0079559		MINTO NORMA E	UC	UNCOLLECTABLE	04/17/2023	49.83			
2016-03-0080095		MOREDOCK SHANA C	UC	UNCOLLECTABLE	04/17/2023	264.40			
2016-03-0080108		MORENO-CUEVAS RAMON	UC	UNCOLLECTABLE	04/17/2023	66.87			
2016-03-0080398		MULLEN MICHAEL W	UC	UNCOLLECTABLE	04/17/2023	975.48			
2016-03-0080448		MUNCH MICHAEL F	UC	UNCOLLECTABLE	04/17/2023	60.94			
2016-03-0080828		NASCIMENTO MARCIA	UC	UNCOLLECTABLE	04/17/2023	51.81			
2016-03-0080829		NASCIMENTO MARCIA	UC	UNCOLLECTABLE	04/17/2023	70.49			
2016-03-0081114		NEW ENGLAND HARDWOOD FLOORS PRO LLC	UC	UNCOLLECTABLE	04/17/2023	207.86			
2016-03-0081115		NEW ENGLAND HARDWOOD FLOORS PRO LLC	UC	UNCOLLECTABLE	04/17/2023	276.02			
2016-03-0082374		OBRIEN JAMES P	UC	UNCOLLECTABLE	04/17/2023	82.37			

Modify Suspense Report

TOWN OF FAIRFIELD Date: 04/21/2023 Time: 13:59:54

Condition (s): Year: 2021, Type: 00 - ALL BILLS, Order: Bill Number, Total Only: No, Recap by Dist: No

Bill #	Dst	Name	Code	Reason	Date	Town Due/Susp	Dist Due/Susp	Sewer Due/Susp	Total
2016-03-0082421		OCCONNEL DANIEL J	UC	UNCOLLECTABLE	04/17/2023	86.76			
2016-03-0082618		OHARA HELENE C	UC	UNCOLLECTABLE	04/17/2023	8.44			
2016-03-0082685		OLIVEIRA CELSO A	UC	UNCOLLECTABLE	04/17/2023	244.00			
2016-03-0082686		OLIVEIRA EWALDO M	UC	UNCOLLECTABLE	04/17/2023	56.55			
2016-03-0083038		OSULLIVAN KERRY L	UC	UNCOLLECTABLE	04/17/2023	270.60			
2016-03-0083039		OSULLIVAN LEEANN	UC	UNCOLLECTABLE	04/17/2023	237.50			
2016-03-0083040		OSULLIVAN LEEANN	UC	UNCOLLECTABLE	04/17/2023	243.18			
2016-03-0083131		P.D.Q. PLUMBING & HEATING LLC	UC	UNCOLLECTABLE	04/17/2023	92.18			
2016-03-0083180		PAGAN LUZ N	UC	UNCOLLECTABLE	04/17/2023	71.01			
2016-03-0083421		PANG YATING	UC	UNCOLLECTABLE	04/17/2023	436.76			
2016-03-0083508		PARENTICE LINDA R	UC	UNCOLLECTABLE	04/17/2023	63.26			
2016-03-0083559		PARKINGTON BRUCE F	UC	UNCOLLECTABLE	04/17/2023	11.36			
2016-03-0084068		PERSAD NATASHA V	UC	UNCOLLECTABLE	04/17/2023	396.86			
2016-03-0084272		PETRY VINCENT J	UC	UNCOLLECTABLE	04/17/2023	66.36			
2016-03-0084273		PETRY VINCENT J	UC	UNCOLLECTABLE	04/17/2023	58.87			
2016-03-0084274		PETRY VINCENT J	UC	UNCOLLECTABLE	04/17/2023	50.61			
2016-03-0084666		PLM PAINTING & CARPENTRY LLC	UC	UNCOLLECTABLE	04/17/2023	59.13			
2016-03-0085108		PRINCE LATOYA A	UC	UNCOLLECTABLE	04/17/2023	310.36			
2016-03-0085132		PRIVATE HOME CLEANING	UC	UNCOLLECTABLE	04/17/2023	78.23			
2016-03-0085430		R.D. WEIS & COMPANY INC.	UC	UNCOLLECTABLE	04/17/2023	201.66			
2016-03-0085431		R.S.N. INTERIORS LLC	UC	UNCOLLECTABLE	04/17/2023	180.22			
2016-03-0085587		RAMIREZ-GUTIERREZ CESAR A	UC	UNCOLLECTABLE	04/17/2023	185.40			
2016-03-0085600		RAMOS JESUS R	UC	UNCOLLECTABLE	04/17/2023	137.88			
2016-03-0085741		RAYMOND ANDI M	UC	UNCOLLECTABLE	04/17/2023	342.90			
2016-03-0085755		RAYNOR GERALD T	UC	UNCOLLECTABLE	04/17/2023	492.66			
2016-03-0086045		RENZULLI DANIEL W	UC	UNCOLLECTABLE	04/17/2023	244.00			
2016-03-0086101		RESNICK BARBARA J	UC	UNCOLLECTABLE	04/17/2023	51.90			
2016-03-0086153		REYNOLDS EMILY K	UC	UNCOLLECTABLE	04/17/2023	376.46			
2016-03-0086184		RHEE HOWARD S	UC	UNCOLLECTABLE	04/17/2023	510.20			
2016-03-0086185		RHEE HOWARD S	UC	UNCOLLECTABLE	04/17/2023	671.58			
2016-03-0086186		RHEE HOWARD S	UC	UNCOLLECTABLE	04/17/2023	218.70			
2016-03-0086269		RICHARDSON HUGH	UC	UNCOLLECTABLE	04/17/2023	35.37			
2016-03-0086308		RIDDLE STEVEN P	UC	UNCOLLECTABLE	04/17/2023	199.34			
2016-03-0086352		RILEY MICHAEL A	UC	UNCOLLECTABLE	04/17/2023	375.94			
2016-03-0086477		RIVERA KIMBERLY A	UC	UNCOLLECTABLE	04/17/2023	80.56			
2016-03-0086482		RIVERA NELSON	UC	UNCOLLECTABLE	04/17/2023	230.84			
2016-03-0086601		ROBI S PAINTING LLC	UC	UNCOLLECTABLE	04/17/2023	51.12			
2016-03-0086717		RODRIGUEZ ANTHONY E	UC	UNCOLLECTABLE	04/17/2023	36.66			
2016-03-0086792		ROGERS CHRISTOPHER A	UC	UNCOLLECTABLE	04/17/2023	489.82			
2016-03-0086841		ROLLE CYNTHIA G	UC	UNCOLLECTABLE	04/17/2023	75.14			
2016-03-0086985		ROSELLI MARCO V	UC	UNCOLLECTABLE	04/17/2023	313.98			
2016-03-0087131		ROTHAUG STEPHEN D	UC	UNCOLLECTABLE	04/17/2023	89.60			
2016-03-0087343		RULL-VALDIVIESO MARINA	UC	UNCOLLECTABLE	04/17/2023	64.29			
2016-03-0087415		RUSSELL RYAN T	UC	UNCOLLECTABLE	04/17/2023	37.96			
2016-03-0087509		RYAN KATHRYN N	UC	UNCOLLECTABLE	04/17/2023	322.24			
2016-03-0087575		SABO DONALD J	UC	UNCOLLECTABLE	04/17/2023	91.66			
2016-03-0087657		SAEZ LUIS D	UC	UNCOLLECTABLE	04/17/2023	60.68			
2016-03-0087800		SAMALA NIRANJAN R	UC	UNCOLLECTABLE	04/17/2023	58.35			
2016-03-0087858		SANDEEP PARLAPALLI	UC	UNCOLLECTABLE	04/17/2023	75.39			
2016-03-0088152		SAVARESE PEGGY F	UC	UNCOLLECTABLE	04/17/2023	262.72			
2016-03-0088156		SAVIANO EVAN M	UC	UNCOLLECTABLE	04/17/2023	303.64			
2016-03-0088653		SCINTO TREE CARE LLC	UC	UNCOLLECTABLE	04/17/2023	56.55			
2016-03-0088919		SERKIN MOLLY	UC	UNCOLLECTABLE	04/17/2023	292.02			
2016-03-0088920		SERKIN MOLLY	UC	UNCOLLECTABLE	04/17/2023	253.56			
2016-03-0088941		SERRATE MICHAEL	UC	UNCOLLECTABLE	04/17/2023	165.76			
2016-03-0088942		SERRATE MICHAEL	UC	UNCOLLECTABLE	04/17/2023	56.55			

Bill #	Dst	Name	Code	Reason	Date	Town Due/Susp	Dist Due/Susp	Sewer Due/Susp	Total
2016-03-0089152		SHAW DAVID B	UC	UNCOLLECTABLE	04/17/2023	129.36			
2016-03-0089252		SHELLY ROBERT L III	UC	UNCOLLECTABLE	04/17/2023	93.98			
2016-03-0089495		NEGRON ADALYS	UC	UNCOLLECTABLE	04/17/2023	308.56			
2016-03-0089771		SKARSTROM MARY H	UC	UNCOLLECTABLE	04/17/2023	186.68			
2016-03-0089913		SMITH ALLEN L	UC	UNCOLLECTABLE	04/17/2023	71.52			
2016-03-0089934		SMITH CLAYTON J	UC	UNCOLLECTABLE	04/17/2023	315.52			
2016-03-0090120		SMYTH STEVEN P	UC	UNCOLLECTABLE	04/17/2023	686.30			
2016-03-0090290		SOS CARTING LLC	UC	UNCOLLECTABLE	04/17/2023	310.36			
2016-03-0090318		SOULE ASHLEY L	UC	UNCOLLECTABLE	04/17/2023	226.44			
2016-03-0090336		SOUTHPORT HANDYMAN SERVICES L.L.C.	UC	UNCOLLECTABLE	04/17/2023	83.66			
2016-03-0090377		SPAGS NE LLC	UC	UNCOLLECTABLE	04/17/2023	309.08			
2016-03-0090428		SPENCER BRENNA M	UC	UNCOLLECTABLE	04/17/2023	148.73			
2016-03-0090501		SPRINGER SUSAN C	UC	UNCOLLECTABLE	04/17/2023	179.48			
2016-03-0090722		STEHLE JAKOB	UC	UNCOLLECTABLE	04/17/2023	51.64			
2016-03-0090953		STONE JANET K	UC	UNCOLLECTABLE	04/17/2023	105.86			
2016-03-0091091		STRONG MICHAEL G	UC	UNCOLLECTABLE	04/17/2023	41.57			
2016-03-0091368		SUMRA ABDUL S	UC	UNCOLLECTABLE	04/17/2023	152.86			
2016-03-0091677		TALL ERICA N	UC	UNCOLLECTABLE	04/17/2023	509.18			
2016-03-0091726		TAMUCCI JOSEPH M	UC	UNCOLLECTABLE	04/17/2023	67.39			
2016-03-0091727		TAMUCCI JOSEPH M	UC	UNCOLLECTABLE	04/17/2023	162.16			
2016-03-0091732		TANAKA-YOSSIDA NATASSIA S	UC	UNCOLLECTABLE	04/17/2023	49.83			
2016-03-0091781		TAPIA ZOILA E	UC	UNCOLLECTABLE	04/17/2023	356.06			
2016-03-0091863		TAUSS LEIGH A	UC	UNCOLLECTABLE	04/17/2023	68.30			
2016-03-0091936		TAYLOR SARAH A	UC	UNCOLLECTABLE	04/17/2023	119.80			
2016-03-0091962		TEJADA CHRISTIAN A	UC	UNCOLLECTABLE	04/17/2023	127.56			
2016-03-0092364		TINO MONES MONTES LLC	UC	UNCOLLECTABLE	04/17/2023	125.24			
2016-03-0092394		TJM CLEANING LLC	UC	UNCOLLECTABLE	04/17/2023	94.50			
2016-03-0093830		TURNKEY CONSTRUCTION SERVICES LLC	UC	UNCOLLECTABLE	04/17/2023	77.20			
2016-03-0093831		TURNKEY CONSTRUCTION SERVICES LLC	UC	UNCOLLECTABLE	04/17/2023	36.15			
2016-03-0093885		TYRRELL MATTHEW J	UC	UNCOLLECTABLE	04/17/2023	88.56			
2016-03-0094083		UPRIGHT CAROL L	UC	UNCOLLECTABLE	04/17/2023	12.91			
2016-03-0094408		VALID LIMO LLC	UC	UNCOLLECTABLE	04/17/2023	295.12			
2016-03-0094409		VALID LIMO LLC	UC	UNCOLLECTABLE	04/17/2023	268.54			
2016-03-0094544		VARCO STEVE	UC	UNCOLLECTABLE	04/17/2023	129.36			
2016-03-0094857		VAZZANO MARY D	UC	UNCOLLECTABLE	04/17/2023	214.56			
2016-03-0095214		VILFORT WILKENS	UC	UNCOLLECTABLE	04/17/2023	178.42			
2016-03-0095296		VIRNICH PATRICK E	UC	UNCOLLECTABLE	04/17/2023	2.66			
2016-03-0096437		WALKLEY KATIE B	UC	UNCOLLECTABLE	04/17/2023	54.22			
2016-03-0096597		WANG JUNRAN	UC	UNCOLLECTABLE	04/17/2023	160.08			
2016-03-0096629		WARD FREDERICK C	UC	UNCOLLECTABLE	04/17/2023	61.45			
2016-03-0096867		WEGLARZ EUGENE F JR	UC	UNCOLLECTABLE	04/17/2023	377.76			
2016-03-0097311		WIDELL SCOTT M	UC	UNCOLLECTABLE	04/17/2023	114.38			
2016-03-0097425		WILLIAMS GEOFFREY C	UC	UNCOLLECTABLE	04/17/2023	82.37			
2016-03-0097426		WILLIAMS GEOFFREY C	UC	UNCOLLECTABLE	04/17/2023	28.14			
2016-03-0097991		YOUNG CHRISTOPHER J	UC	UNCOLLECTABLE	04/17/2023	270.34			
2016-03-0098008		YOUNG MELVIN E	UC	UNCOLLECTABLE	04/17/2023	96.31			
2016-03-0098167		ZAVAGLIA ANGELO R	UC	UNCOLLECTABLE	04/17/2023	63.26			
2016-03-0098187		ZEBRO EDWARD	UC	UNCOLLECTABLE	04/17/2023	677.78			
2016-03-0098231		ZENG YAOJUN	UC	UNCOLLECTABLE	04/17/2023	168.10			
2016-03-0098232		ZENG YONGLIN	UC	UNCOLLECTABLE	04/17/2023	196.50			
2016-03-0098233		ZENG YONGLIN	UC	UNCOLLECTABLE	04/17/2023	57.84			
2016-03-0098244		ZEZOFF SETH M	UC	UNCOLLECTABLE	04/17/2023	75.65			
2016-03-0098423		JACKSON BRYAN R	UC	UNCOLLECTABLE	04/17/2023	117.13			
2016-03-0098427		PALMER THOMAS A JR	UC	UNCOLLECTABLE	04/17/2023	41.31			
MOTOR VEHICLE		**# Of Acct: 334**				**60,744.98**			

Modify Suspense Report

TOWN OF FAIRFIELD Date: 04/21/2023 Time: 13:59:54

Condition (s): Year: 2021, Type: 00 - ALL BILLS, Order: Bill Number, Total Only: No, Recap by Dist: No

Bill #	Dst	Name	Code	Reason	Date	Town Due/Susp	Dist Due/Susp	Sewer Due/Susp	Total
2016-04-0040013		ABBOTT ALEXANDER Z	UC	UNCOLLECTABLE	04/17/2023	240.90			
2016-04-0040309		ALSUWAIDAN MOHAMMED S	UC	UNCOLLECTABLE	04/17/2023	88.18			
2016-04-0040528		BARTON-WEYERS SHEILA K	UC	UNCOLLECTABLE	04/17/2023	362.25			
2016-04-0040703		BOCCITTO MARCO E	UC	UNCOLLECTABLE	04/17/2023	240.90			
2016-04-0041035		CAMP ROBERT H JR	UC	UNCOLLECTABLE	04/17/2023	221.28			
2016-04-0041255		CHAMBERLAIN WILLIAM A	UC	UNCOLLECTABLE	04/17/2023	238.58			
2016-04-0041321		CIBUS NORTH AMERICA INC.	UC	UNCOLLECTABLE	04/17/2023	34.03			
2016-04-0041340		CISIEWICZ ZIBGNIEW	UC	UNCOLLECTABLE	04/17/2023	53.63			
2016-04-0041431		CONNEELY SARA R	UC	UNCOLLECTABLE	04/17/2023	126.91			
2016-04-0041528		CRUMB DAVID L	UC	UNCOLLECTABLE	04/17/2023	30.70			
2016-04-0041743		DAVIS BRIAN J JR	UC	UNCOLLECTABLE	04/17/2023	161.81			
2016-04-0041836		DEPAOLA ALANNA M	UC	UNCOLLECTABLE	04/17/2023	28.43			
2016-04-0041840		DEROSA VINCENT L	UC	UNCOLLECTABLE	04/17/2023	132.20			
2016-04-0042315		EATON CALVIN	UC	UNCOLLECTABLE	04/17/2023	49.83			
2016-04-0042387		ESPINEL ANITA	UC	UNCOLLECTABLE	04/17/2023	54.91			
2016-04-0042426		FAIRFIELD LOGISTICS SERVICES LLC	UC	UNCOLLECTABLE	04/17/2023	131.94			
2016-04-0042441		FALCON KRISTINA M	UC	UNCOLLECTABLE	04/17/2023	41.88			
2016-04-0042446		FANELLI MAURO M	UC	UNCOLLECTABLE	04/17/2023	14.67			
2016-04-0042765		FLYNN MICHAEL	UC	UNCOLLECTABLE	04/17/2023	64.40			
2016-04-0042771		FODIMAN JAMES B	UC	UNCOLLECTABLE	04/17/2023	26.49			
2016-04-0042790		FORTE DANIEL J	UC	UNCOLLECTABLE	04/17/2023	102.76			
2016-04-0042837		FREIRE-COIMBRA JUAN P	UC	UNCOLLECTABLE	04/17/2023	262.07			
2016-04-0042838		FREIRE-COIMBRA JUAN P	UC	UNCOLLECTABLE	04/17/2023	183.84			
2016-04-0042901		GALVAN MELINDA L	UC	UNCOLLECTABLE	04/17/2023	113.87			
2016-04-0043127		GRACESKI JESSICA J	UC	UNCOLLECTABLE	04/17/2023	30.85			
2016-04-0043208		GULASH WYATT J	UC	UNCOLLECTABLE	04/17/2023	86.24			
2016-04-0043211		GULICK BUILDING AND DEVELOPMENT LLC	UC	UNCOLLECTABLE	04/17/2023	126.00			
2016-04-0043474		HOLDAMPF ANTHONY T	UC	UNCOLLECTABLE	04/17/2023	43.82			
2016-04-0044007		JOHNSTON MATTHEW E	UC	UNCOLLECTABLE	04/17/2023	47.92			
2016-04-0044349		KEPSHIRE JOSEPH G JR	UC	UNCOLLECTABLE	04/17/2023	196.80			
2016-04-0044439		KOLK MATTHEW J	UC	UNCOLLECTABLE	04/17/2023	234.73			
2016-04-0044914		MAHER JEFFREY B	UC	UNCOLLECTABLE	04/17/2023	329.82			
2016-04-0044995		MARKOVIC SELDAN	UC	UNCOLLECTABLE	04/17/2023	75.60			
2016-04-0045018		MARTILLO-RODAS STEFANIE A	UC	UNCOLLECTABLE	04/17/2023	238.32			
2016-04-0045213		MEDINAS LORI	UC	UNCOLLECTABLE	04/17/2023	83.14			
2016-04-0045273		METROPOLITAN LIMOUSINE SERVICE INC	UC	UNCOLLECTABLE	04/17/2023	81.07			
2016-04-0045364		MITCHELL STEPHANIE R	UC	UNCOLLECTABLE	04/17/2023	80.51			
2016-04-0045414		MOORE ANDREW K	UC	UNCOLLECTABLE	04/17/2023	81.31			
2016-04-0045617		NEW ENGLAND HARDWOOD FLOORS PRO LLC	UC	UNCOLLECTABLE	04/17/2023	143.30			
2016-04-0046085		OLAH BRIAN W	UC	UNCOLLECTABLE	04/17/2023	29.82			
2016-04-0046214		PAPPAS ACHILLES A	UC	UNCOLLECTABLE	04/17/2023	403.23			
2016-04-0046298		PERKINS MARY	UC	UNCOLLECTABLE	04/17/2023	266.36			
2016-04-0046631		RICCA HARRY G	UC	UNCOLLECTABLE	04/17/2023	17.30			
2016-04-0046697		RODRIGUEZ ANTHONY E	UC	UNCOLLECTABLE	04/17/2023	42.34			
2016-04-0046808		RYAN KATHRYN N	UC	UNCOLLECTABLE	04/17/2023	218.70			
2016-04-0047017		SERKIN MOLLY	UC	UNCOLLECTABLE	04/17/2023	263.11			
2016-04-0047170		SMALL KEVIN T	UC	UNCOLLECTABLE	04/17/2023	38.99			
2016-04-0047178		SMITH CHARLES D	UC	UNCOLLECTABLE	04/17/2023	12.91			
2016-04-0047179		SMITH CHARLES D	UC	UNCOLLECTABLE	04/17/2023	16.83			
2016-04-0047492		THE CONCIERGE GROUP LLC	UC	UNCOLLECTABLE	04/17/2023	303.64			
2016-04-0048371		VILLAFANEZ VALERIE	UC	UNCOLLECTABLE	04/17/2023	58.95			
2016-04-0048736		WALLACE MICHAEL E	UC	UNCOLLECTABLE	04/17/2023	350.43			
2016-04-0048792		WEBB ANITA L	UC	UNCOLLECTABLE	04/17/2023	92.44			
2016-04-0048865		WHITE JONATHAN M	UC	UNCOLLECTABLE	04/17/2023	117.92			
2016-04-0048956		XU JINGJING	UC	UNCOLLECTABLE	04/17/2023	183.89			
2016-04-0048969		YORWERTH DAVID J	UC	UNCOLLECTABLE	04/17/2023	17.02			

Modify Suspense Report
TOWN OF FAIRFIELD Date: 04/21/2023 Time: 13:59:54
Condition (s): Year: 2021, Type: 00 - ALL BILLS, Order: Bill Number, Total Only: No, Recap by Dist: No

Bill #	Dst	Name	Code	Reason	Date	Town Due/Susp	Dist Due/Susp	Sewer Due/Susp	Total
2016-04-0048970		YORWERTH DAVID J	UC	UNCOLLECTABLE	04/17/2023	77.49			
2016-04-0048976		YOUNG MELVIN E 3RD	UC	UNCOLLECTABLE	04/17/2023	208.16			
2016-04-0048977		YOUNG MELVIN E 3RD	UC	UNCOLLECTABLE	04/17/2023	20.81			
2016-04-0049133		GERG LLC	UC	UNCOLLECTABLE	04/17/2023	73.46			
2016-04-0049155		MARKOVIC SELDAN	UC	UNCOLLECTABLE	04/17/2023	134.73			
2016-04-0049162		NAVARRO-TORRES ADRIANA	UC	UNCOLLECTABLE	04/17/2023	64.73			
MOTOR VEHICLE SUPPLEMENTA									
		# Of Acct: 62				**7,899.15**			
YR : 2016		**TOTAL : 396**				**68,644.13**			
2017-03-0053451		BISHOP JAMES T JR	DE	DECEASED	04/05/2023	137.60			
2017-03-0089473		SKARSTROM MARY H	DE	DECEASED	04/05/2023	169.24			
2017-03-0090530		STEVENS FREDERICK J JR	DE	DECEASED	04/05/2023	50.85			
MOTOR VEHICLE		**# Of Acct: 3**				**357.69**			
YR : 2017		**TOTAL : 3**				**357.69**			
2018-02-0034363		ICESURANCE INC	BK	BANKRUPT	04/05/2023	2.00			
PERSONAL PROPERTY		**# Of Acct: 1**				**2.00**			
2018-03-0060595		DIAZ EDGARDO N	DE	DECEASED	04/05/2023	495.08			
2018-03-0089227		SKARSTROM MARY H	DE	DECEASED	04/05/2023	153.78			
MOTOR VEHICLE		**# Of Acct: 2**				**648.86**			
YR : 2018		**TOTAL : 3**				**650.86**			
2019-02-0035510		ARCTIC GLACIER USA INC	BK	BANKRUPT	04/05/2023	140.66			
PERSONAL PROPERTY		**# Of Acct: 1**				**140.66**			
2019-04-0083321		IVEY CURTIS L III	DE	DECEASED	04/05/2023	362.42			
MOTOR VEHICLE SUPPLEMENTA									
		# Of Acct: 1				**362.42**			
YR : 2019		**TOTAL : 2**				**503.08**			
2020-02-0031767		YOUR FAMILY LAWYER LLC	UC	UNCOLLECTABLE	04/05/2023	218.82			
2020-02-0032671		MUNSON BUILDERS INC	UC	UNCOLLECTABLE	04/14/2023	939.72			
2020-02-0032999		MORTGAGE MASTER INC	UC	UNCOLLECTABLE	04/05/2023	589.78			
2020-02-0034363		ICESURANCE INC	BK	BANKRUPT	04/05/2023	21.31			
2020-02-0035171		ANSWER VENDING	UC	UNCOLLECTABLE	04/14/2023	63.40			
2020-02-0035510		ARCTIC GLACIER USA INC	BK	BANKRUPT	04/05/2023	155.94			
2020-02-0036645		SAUGATUCK DIGITAL ARTS WORKSHOP	UC	UNCOLLECTABLE	04/14/2023	224.74			
2020-02-0036649		MIRZA AESTHETICS	UC	UNCOLLECTABLE	04/05/2023	92.81			
2020-02-0036885		ALEX & ANI LLC	BK	BANKRUPT	04/05/2023	4.76			
2020-02-0036955		NJ ADVANCE MEDIA LLC	UC	UNCOLLECTABLE	04/05/2023	3.06			
2020-02-0037088		LANDSCAPE BY DESIGN	UC	UNCOLLECTABLE	04/14/2023	203.98			
2020-02-0037347		PETERSON ZAMAT	UC	UNCOLLECTABLE	04/14/2023	120.88			
2020-02-0037576		STRATFIELD DEVELOPMENT	UC	UNCOLLECTABLE	04/14/2023	185.62			
2020-02-0037609		SANCHEZ RICHARD	UC	UNCOLLECTABLE	04/14/2023	56.93			
2020-02-0037889		CONTEXT MEDIA LLC	UC	UNCOLLECTABLE	04/14/2023	75.81			
2020-02-0037956		MUSSULMADE GILINDA	UC	UNCOLLECTABLE	04/14/2023	67.45			
2020-02-0038066		PINK SODA	UC	UNCOLLECTABLE	04/05/2023	84.45			
PERSONAL PROPERTY		**# Of Acct: 17**				**3,109.46**			

Bill #	Dst	Name	Code	Reason	Date	Town Due/Susp	Dist Due/Susp	Sewer Due/Susp	Total
2020-03-0068274		HOLMES JASON C	DE	DECEASED	04/05/2023	69.48			
2020-03-0070070		IVEY CURTIS L III	DE	DECEASED	04/05/2023	359.38			
2020-03-0087195		SHAPIRO DAVID B	UC	UNCOLLECTABLE	04/14/2023	195.20			
2020-03-0094607		WEBB EDWARD A	DE	DECEASED	04/05/2023	85.53			
MOTOR VEHICLE		**# Of Acct: 4**				**709.59**			
2020-04-0088113		SCHEER JANICE E	DE	DECEASED	04/05/2023	90.71			
MOTOR VEHICLE SUPPLEMENTA									
		# Of Acct: 1				**90.71**			
YR : 2020		**TOTAL : 22**				**3,909.76**			
2021-02-0031123		PAGLIARO BROTHERS L L C	UC	UNCOLLECTABLE	04/05/2023	687.28			
2021-02-0032146		NEW ENGLAND HARDWOOD FLOORS	UC	UNCOLLECTABLE	04/05/2023	20.70			
2021-02-0032999		MORTGAGE MASTER INC	UC	UNCOLLECTABLE	04/05/2023	618.36			
2021-02-0033710		HOME MARKETING ASSOCIATES INC	UC	UNCOLLECTABLE	04/05/2023	27.51			
2021-02-0034363		ICESURANCE INC	BK	BANKRUPT	04/05/2023	22.06			
2021-02-0035510		ARCTIC GLACIER USA INC	BK	BANKRUPT	04/05/2023	162.90			
2021-02-0036616		COVALENT MEDIA GROUP	UC	UNCOLLECTABLE	04/05/2023	143.56			
2021-02-0036863		GL LANDSCAPING LLC	UC	UNCOLLECTABLE	04/05/2023	234.26			
2021-02-0037069		CT LIMO & HOME GOODS	UC	UNCOLLECTABLE	04/05/2023	212.74			
2021-02-0037116		TURTLE & HUGHES	UC	UNCOLLECTABLE	04/05/2023	212.74			
2021-02-0037257		KIGATI ERIC	UC	UNCOLLECTABLE	04/05/2023	212.74			
2021-02-0037347		PETERSON ZAMAT			04/14/2023	133.48			
2021-02-0037558		CCOB	UC	UNCOLLECTABLE	04/05/2023	136.20			
2021-02-0037629		PRODUCTION PLUS LLC	UC	UNCOLLECTABLE	04/05/2023	54.48			
2021-02-0038029		CLAUDIO BARROS	UC	UNCOLLECTABLE	04/05/2023	136.20			
2021-02-0038100		STERLINA SOURCING LLC	UC	UNCOLLECTABLE	04/05/2023	53.92			
2021-02-0038155		LIFES A BEACH SHACK	UC	UNCOLLECTABLE	04/05/2023	1,129.10			
2021-02-2021041		ALTITUDE CAPITAL TRADING LLC	UC	UNCOLLECTABLE	04/05/2023	54.48			
2021-02-2021065		MENDEZ JOSE A CABRERA	UC	UNCOLLECTABLE	04/05/2023	136.20			
2021-02-2021086		SHORELINE COUNSELING	UC	UNCOLLECTABLE	04/05/2023	108.96			
2021-02-2021171		VALENTE AUTOMOTIVE LLC	UC	UNCOLLECTABLE	04/05/2023	136.20			
PERSONAL PROPERTY		**# Of Acct: 21**				**4,634.07**			
2021-03-0060223		DEMAILLE PATRICK	DE	DECEASED	04/05/2023	45.76			
2021-03-0068922		HOLMES JASON C	DE	DECEASED	04/05/2023	90.65			
2021-03-0070718		IVEY CURTIS L III	DE	DECEASED	04/05/2023	368.02			
2021-03-0074796		LECLERC BRIAN J	DE	DECEASED	04/05/2023	169.72			
2021-03-0087859		SHAPIRO DAVID B	UC	UNCOLLECTABLE	04/14/2023	436.66			
2021-03-0090316		TALMADGE RICHARD V	UC	UNCOLLECTABLE	04/14/2023	144.92			
2021-03-0090317		TALMADGE RICHARD V	UC	UNCOLLECTABLE	04/14/2023	378.92			
2021-03-0090319		TALMADGE RICHARD V	UC	UNCOLLECTABLE	04/14/2023	125.30			
2021-03-0095312		WALTON LANA	DE	DECEASED	04/05/2023	5.75			
MOTOR VEHICLE		**# Of Acct: 9**				**1,765.70**			
YR : 2021		**TOTAL : 30**				**6,399.77**			
Grand Total: 456						**80,465.29**			

FOURTEEN POINTS OF INFORMATION AND JUSTIFICATION FOR THE
KINGS HIGHWAY PEDESTRIAN IMPROVEMENTS PROJECT PHASE 3 DESIGN
Approved $300,000 for design in 2021

1. **Background:** The first two sections of the Kings Highway Pedestrian Improvements project are complete. The third phase is currently approved for Construction for the Local Transportation Capital Improvements Program (LOTCIP) from State funding. The anticipated Grant timeline is to obtain "grant commitment to fund" in spring 2023, hire consultant based on Town, State and Federal Grant requirements, with final design completed Summer 2024. Construction would occur in 2025. The project involves new concrete sidewalks, curbs and medians (assuming DOT requirement). Other improvements consist of pedestrian phase improvements at signalized intersections, ADA compliant ramps, and turf establishment. Grant includes construction phase (construction and Inspection, testing) and is in the $ 2 Million Dollars range, paid up front based on contract bid pricing plus contingencies and incidentals.

2. **Purpose and Justification:** The purpose of the project is to encourage alternative means of transportation in the Tunxis Hill-Kings Highway neighborhoods. Main Construction components are concrete sidewalks, Concrete curbs, ADA compliant Handicap Ramps, investigate bicycle routes and amenities in the area. Also included will be some median improvements (State requirement) to create improved aesthetics and more pedestrian friendly environment. There are several areas of existing sidewalk that are in poor condition and can be considered narrow in many places. Although one can argue about spending local match in tough economic times, in the very near future (now-couple of years) some of these sidewalks will have to be replaced and eventually (roughly 8-10 year time line) most of the sidewalks will need to be repaired or replaced based on their existing condition. On June 27, 2013, the Town held an informal public meeting to gauge interest in the project's first phase. Over 20 people attended and another 5 responded (via email) favorably to the project. Follow up meetings had another dozen people supporting Phase 2 section in 2016. There were no objections to the project at either meeting. The public and several Town officials have expressed significant interest in the Town expanding project to include the third section from Villa Avenue to Bridgeport and include a southeastern section of Tunxis Hill Cutoff South. The Town has received additional requests in recent years at various meetings and through Q-alert system.

3. **Detailed Description of Project:** As mentioned previously, the project expands the original sidewalk improvements along Kings Highway from Villa Avenue towards the Bridgeport Line and a section of Tunxis Hill South. New sidewalks are proposed along both north and south sides of Kings Highway, with median improvements or road diet installation- for better pedestrian access and aesthetics. Bicycle amenities would be included wherever possible. Some sections of sidewalks have cracks and lips which represent potential trip hazards and substandard (or absent of) handicap ramps.

4. **Reliability of Estimated Costs:** Semi Final Cost estimates have been provided and checked by MetroCOG. Grant funding figures were provided by Metrocog and Engineering. The costs are considered relatively accurate but there are some unknown costs such as utility relocation, potential Right of Way/ easement costs, subsurface issues, State DOT comments and actual contract bid costs. Final costs will be laid out in the actual contract addendum called the Project Authorization Letter. It will list final project costs and state funding and Town share costs, if any.

5. **Efficiencies:** The expenditure is conducive to increase alternate modes of transportation and increasing safety of these modes. From an economic standpoint the proposed cost-sharing program saves the Town most of the costs that would be required should the Town elect to perform this project under its own direction, in the future.

6. **Additional Long Range Costs:** The Town would pay for maintenance costs for the project: sidewalk, pavement markings and signs, etc., which it currently performs already. Current proposal for the median meets DOT requirements and specifications, hence DOT will continue to maintain. For other aesthetic median designs, State must approve design materials and passes all maintenance onto the Municipality.

7. **Additional Use or Demands:** The project will encourage increased usage of alternate modes of transportation. Providing safer and more pedestrian and bicycling friendly amenities should provide a beneficial impact to the neighborhood. There has been an increase in pedestrian usage with the recently completed sections.

8. **Alternates:** The only alternates are to reduce scope of project or do nothing. Sidewalks not covered in the project, would need to be repaired and replaced by the Town within the next few years with no reimbursement. Most sidewalks would still need to meet DOT requirements as project is located within State Right of Way. It would also hurt chances of getting additional grant funding under this program. Previous success may give us an advantage in future grants.

9. **Safety and Loss Control:** A Consultant will perform continual on site inspections for the construction and installation of the project. It is required that all Local, State and Federal standards, codes and procedures will be enforced.

10. **Environmental Considerations:** No significant environmental impacts are expected.

11. **Insurance:** Town and State Contract procedures require the Contractor to have licenses, bonds and insurance.

12. **Financing:** Project has been on Capital planning (waterfall chart) for a few years.
    The State will provide the Town upfront funding based on contract bid pricing. LOTCIP payment is lump sum paid to Town prior to construction but is capped.

13. **Other Considerations:** N/A

14. **Approvals:**

Committees/ Commissions	Approval Date
Board of Selectmen	May 2023
Board of Finance	May 2023
R.T.M.	May 2023

Note - additional approvals may be required if more grant money becomes available.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

2800 BERLIN TURNPIKE, P.O. BOX 317546
NEWINGTON, CONNECTICUT 06131-7546

March 23, 2023

The Honorable Brenda L. Kupchick
First Selectwoman,
Town of Fairfield
725 Old Post Road
Fairfield, Connecticut 06824
firstselectwoman@fairfieldct.org

Dear First Selectwoman Kupchick:

Subject: Local Transportation Capital Improvement Program (LOTCIP)
Commitment to Fund
Pedestrian Improvements along Kings Highway (Phase 3)
State Project No. L050-0004
Kings Highway (Route 1) and Tunxis Hill Road (Route 58)
Town of Fairfield

The Department of Transportation (Department) has received the LOTCIP application prepared by the Town of Fairfield (Municipality) and submitted through the Connecticut Metropolitan Council of Governments (COG) relative to the subject project. The Department has reviewed the application materials along with the cost estimate provided by the Municipality and endorsed by the COG.

The LOTCIP application for this project has been approved. The Department hereby commits to fund eligible project costs as follows:

Rights of Way:	$ 0
Eligible Utilities:	$ 125,000
Contract Items:	$ 1,513,000
Contingencies:	$ 151,300
Incidentals to Construction:	$ 151,300
Total Funding Commitment:	$ 1,940,600

This Commitment to Fund is subject to funding availability and general conditions including, but not limited to the following:

1. The project is to be administered by the Municipality in accordance with the *Local Transportation Capital Improvement Program Guidelines,* dated November 2021, as may be revised. The guidelines are available on the Department's LOTCIP web page at https://portal.ct.gov/DOT/Office-of-Engineering/Highway-Design-Local-Roads-LOTCIP.

2. The project costs identified in this Commitment to Fund letter are based on estimates provided by the Municipality and endorsed by the COG. These costs are to be considered capped until adjustment, based on low bid or otherwise revised, in accordance with the LOTCIP guidelines.

3. Any scope revisions and/or twenty percent (20%) changes in cost identified during the design phase must be approved by the COG and the Department, as specified in the LOTCIP guidelines.

4. Upon completion of project design activities, the Municipality must forward to the Department, through the COG a Final Design Submission, along with supporting documentation and certifications, as defined in the LOTCIP guidelines.

5. The Municipality must execute and deliver a Project Authorization Letter (PAL) issued pursuant to the Master Municipal Agreement for Construction Projects and comply with its terms. The PAL will be forwarded to the Municipality for execution, subsequent to review of the Final Design Submission package by the Department.

This commitment is further subject to the following project-specific conditions:

1. The LOTCIP application materials submitted for this project included a proposed "road diet" in addition to pedestrian improvements for the portion of Kings Highway East/North Avenue (Route 1) within the project limits, bringing two lanes in each direction down to one lane in each direction. As indicated during the application review and comments process, it is the position of the Department that additional traffic investigations are required to ensure that the proposed road diet will be adequate for this project location. Therefore, the Department has decided to proceed with the issuance of a conditional Commitment to Fund letter for the project that would include the utilization of a road diet on Kings Highway East/North Avenue (Route 1), with the understanding that the Municipality would conduct a traffic analysis to support a road diet proposal to ensure that this roadway segment along Route 1 would adequately handle existing and future traffic. Should these investigations result in the indication that this section of roadway would not be suitable for a road diet, the Municipality may submit to the Department through the COG a project scope/cost change request for review and approval, in accordance with the LOTCIP guidelines. It is recommended that prior to formal submission of a scope/cost change request, the results of the traffic investigations and resulting recommendation be collectively discussed between the Department, the COG, the Municipality, and its design consultant (if applicable).

2. If this project is to move forward with a road diet for the portion of Kings Highway East/North Avenue (Route 1) within the project limits, it was identified that additional work may be needed east of the original project limits, such as lane transition/restriping, which currently terminate the project at the border of Fairfield and Bridgeport on North Avenue (Route 1). By signing this Commitment to Fund letter, the Municipality acknowledges its responsibility as the project lead and agrees to coordinate project details with the City of Bridgeport. Please be advised that a Maintenance-only Project Authorization Letter may be required with the City of Bridgeport prior to construction.

3. This project may require environmental permits. In accordance with the LOTCIP guidelines, the Municipality will be responsible for the acquisition of all environmental permits that may be required. Please be advised that any project that involves work within waters or wetlands may require State and/or Federal environmental permits. **It is critical that the Municipality or their consultant contact the Connecticut Department of Energy and Environmental Protection (DEEP) - Inland Water Resources Division early in the design process** to discuss permitting requirements and to identify specific environmental concerns and design considerations. Failure to establish early coordination with DEEP may result in significant time delays in the permitting process due to the need for design changes and/or denial of permit applications. Please note, the Department hosts a monthly Interagency Coordination (Municipal) meeting where municipalities (and their consultants) can discuss municipal projects with the various regulatory agencies relative to permitting requirements, identification of specific environmental concerns, and design considerations. Attendance at the meeting can be arranged through the following contact:

   Mr. David W. Harms
   Transportation Supervising Engineer
   (860) 594-3291
   DOT-EPC@ct.gov

4. This project may require hazardous/contaminated material investigations. In accordance with the LOTCIP guidelines, the Municipality is responsible for such investigations as part of the design phase.

5. The LOTCIP application materials indicate that this project is not anticipated to require right of way acquisitions. Should it be determined during the design phase that right of way acquisitions will be required, including construction easements, the Municipality through the COG must notify the Department. All right of way acquisitions are to be performed in accordance with the LOTCIP guidelines. In addition, any acquisitions adjacent to Route 1 and Route 58 must be closely coordinated with the Department's Office of Rights of Way through the following contact:

   Mr. Thomas H. Melzen
   Supervising Property Agent
   (860) 594-2451
   Thomas.Melzen@ct.gov

6. This project is anticipated to require utility relocations. Coordination with utility companies that have facilities in the project area, as well as with any utilities that currently do not have facilities present but may have plans to expand service to the area, should begin early in the design process. Utility coordination will be the responsibility of the Municipality.

   In accordance with applicable statutes, the LOTCIP guidelines and as determined through discussions with the Department's Utilities Section, participation in utility relocation costs for this project will be as follows:

Utility Owner	Activity	Cost Participation
Private	Relocation Design/Engineering	50% Utility/50% Municipal
	Relocation Construction	50% Utility/50% LOTCIP
Municipal	Relocation Design/Engineering	100% Municipal
	Relocation Construction	100% LOTCIP

All necessary utility agreements relative to the relocations will be executed between the Municipality and the affected utility(ies). In accordance with the LOTCIP guidelines, costs associated with any utility betterments/upgrades that are not necessary to accommodate the proposed transportation improvement are ineligible for LOTCIP participation.

7. This project will require work to be performed within the State-owned right of way along Route 1 and Route 58. As such, an encroachment permit will be required. **It is imperative that the design of the improvements proposed under this project be coordinated with the Department during the design phase, to ensure conformance with applicable requirements relative to proposed work within State-owned right of way or otherwise affecting State-owned facilities. Establishing early coordination relative to the encroachment permit process and roadway diet proposal for this project is required.** All matters relative to the encroachment permit process for this project are to be coordinated through the following Department contact:

   Mr. Allan Dodge
   Special Services Section Manager (District 3)
   (203) 389-3010
   Allan.Dodge@ct.gov

8. Modifications to traffic control signals, devices, signs, and markings for public highways/roadways require review by the Local Traffic Authority and/or by the Office of the State Traffic Administration (OSTA) and/or by the Department's Division of Traffic Engineering. Modifications to up to two existing traffic signals regarding the pedestrian phasing are proposed under this project at the intersection of Kings Highway East/North Avenue (Route 1), Tunxis Hill Road Cut-Off South (Route 58), Tunxis Hill Road, and Moody Avenue. Additionally, a road diet is proposed along Kings Highway East/North Avenue (Route 1) within the project limits, decreasing from two traffic lanes in each direction to one traffic lane in each direction. For further information regarding any approval requirements, please contact OSTA:
   https://portal.ct.gov/-/media/DOT/documents/dstc/ltaguidancepdf.pdf

   Office of the State Traffic Administration
   Connecticut Department of Transportation
   2800 Berlin Turnpike
   Newington, CT 06131
   Phone: (860) 594-3020
   Fax: (860) 594-2552
   DOT.OSTA@ct.gov

Please be informed that, in accordance with the LOTCIP guidelines, the Department will initiate a Permit Need Determination and an Environmental Screening Review for this project to assist the Municipality in identifying items relative to natural resources, historic/archaeological resources, etc., that may need to be investigated or addressed during the design phase. The Environmental Screening Review is expected to be completed within approximately ninety (90) days. The Permit Need Determination is expected to be completed within approximately ninety (90) days. The results will be forwarded to the Municipality and the COG when received.

If the Municipality accepts this Commitment to Fund, please sign below and return a copy of this letter to this office within thirty (30) days. Transmission via e-mail is acceptable.

If you have any questions, please contact the Project Manager, Mr. Vitalij V. Staroverov, P.E., at (860) 594-2582 or via email at Vitalij.Staroverov@ct.gov.

Very truly yours,

Michael N. Calabrese, P.E. 2023.03.26 22:06:40-04'00'

Michael N. Calabrese, P.E.
Division Chief of Highway Design
Bureau of Engineering and Construction

Enclosure

Accepted By: _____ Date: _____
The Honorable Brenda L. Kupchick
First Selectwoman

cc: Mr. William Hurley, P.E., Engineering Manager, Town of Fairfield, whurley@fairfieldct.org
Mr. Matt Fulda, Executive Director, CT Metropolitan Council of Governments, mfulda@ctmetro.org
Ms. Meghan Sloan, Planning Director, CT Metropolitan Council of Governments, msloan@ctmetro.org
The Honorable Joseph P. Ganim, Mayor, City of Bridgeport, mayor@bridgeportct.gov

Construction Cost Estimate | LOTCIP Application

Kings Hwy Pedestrian Improvements Phase 3-Town of Fairfield

Major and Minor Contract Items

Item No.	Item	Unit	Quantity	Unit $	Total Cost
202502	Removal of Concrete Pavement	sy	1650	$ 20.00	$ 33,000.00
202509	Saw Cut Concrete	lf	2490	$ 5.00	$ 12,450.00
205003	Trench Excavation 0'-10' Deep	cy	560	$ 35.00	$ 19,600.00
205004	Rock In Trench Excavation 0'-	cy	40	$ 125.00	$ 5,000.00
209001	Formation of Subgrade	sy	550	$ 9.00	$ 4,950.00
219011	Sediment Control System At	ea	15	$ 225.00	$ 3,375.00
304002	Processed Aggregate Base	cy	780	$ 50.00	$ 39,000.00
406005	Pavement Replacement	sy	1400	$ 35.00	$ 49,000.00
507001	Type 'C' Catch Basin	ea	15	$ 3,250.00	$ 48,750.00
507006	Type 'C' Catch Basin Top	ea	15	$ 1,850.00	$ 27,750.00
601020	Stamped Concrete	sf	3075	$ 25.00	$ 76,875.00
651012	15"R.C.Pipe	lf	400	$ 80.00	$ 32,000.00
811011	Concrete Curbing	lf	6200	$ 30.00	$ 186,000.00
921001	Concrete Sidewalk	sf	17500	$ 12.00	$ 210,000.00
921005	Concrete Sidewalk Ramp	sf	1120	$ 22.00	$ 24,640.00
921039	Detectable Warning Strip	ea	11	$ 250.00	$ 2,750.00
944000	Furnishing And Placing Topsoil	sy	850	$ 12.00	$ 10,200.00
950005	Turf Establishment	sy	850	$ 5.00	$ 4,250.00
969060	Construction Field Office, Small	month	4	$ 3,400.00	$ 13,600.00
970006	Trafficperson (Municipal Police	est	1	$ 105,000.00	$ 105,000.00
1208931	Sign Face-Sheet Aluminum	sf	250	$ 45.00	$ 11,250.00
1210105	Epoxy Resin Pavement	sf	600	$ 4.00	$ 2,400.00
1220027	Construction Signs	sf	300	$ 25.00	$ 7,500.00
110000	Minor Modifications to Traffic	ea	2	$ 37,000.00	$ 74,000.00
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
				$ 1.00	$ -
	Prepared by R.F.Kulacz, P.E.			$ 1.00	$ -
	Revised 12/15/2021			$ 1.00	$ -
				$ 1.00	$ -

Major Items Subtotal			**$ 1,003,340**
Minor Items Subtotal	20	% of Line "A"	**$ 200,668**
Major and Minor Contract Items Subtotal (A + B)			**$ 1,204,008**
Other Item Allowances			
Clearing and Grubbing	1	% of Line "C"	$ 12,040
M & P of Traffic	5	% of Line "C"	$ 60,200
Mobilization	6	% of Line "C"	$ 72,240
Construction Staking	1	% of Line "C"	$ 12,040
Other Items Subtotal			**$ 156,520**
CONTRACT SUBTOTAL (C + D)			**$ 1,360,528**
Inflation Costs (Simple Method)			
Date of Estimate	Jun-20		
Anticipated Bid Date	Mar-23		
Annual Inflation	4%		
Inflation Subtotal	11.2%	of Line "E"	**$ 152,379**
TOTAL CONTRACT COST ESTIMATE (E + F) (Rounded to nearest $1000)			**$ 1,513,000**
LOTCIP Project Costs Summary			
Contract Cost Estimate (Line "G")			$ 1,513,000
Contingencies	10%		$ 151,300
Incidentals	10%		$ 151,300
ROW	LS		N/A
Utilities	LS		$ 125,000
TOTAL PROJECT COST			**$ 1,940,600**
CTDOT FUNDING COMMITMENT (DATE)			**$ -**

Individual Construction Items & Costs			
**** See CTDOT website for additional cost information***		**Unit**	**2015 LOTCIP Solicitation Cost/Unit**
1	**PAVEMENT**		
	HMA (0.25 inch to 1.0 inch) <100 tons	ton	$120.00
	HMA (0.25 inch to 1.0 inch) 100 - 1,000 tons	ton	$100.00
	HMA (0.25 inch to 1.0 inch) >1,000 tons	ton	$90.00
	Subbase	C.Y.	$35.00
	Processed aggregate base	C.Y.	$40.00
	Rolled gravel base	C.Y.	$35.00
	Formation of subgrade	S.Y.	$3.00
	Cut pavement - bituminous	L.F.	$2.00
	Cut pavement - concrete	L.F.	$6.00
	Material for tack coat	GAL.	$4.00
	Milling of Bit. Concrete 0-4"	S.Y.	$5.00
	Reclamation (10" Maximum Depth)	S.Y.	$10.00
	Pavement Recycling (4" Maximum Depth)	S.Y.	$6.75
	Removal of concrete pavement	S.Y.	$11.00
2	**EARTHWORK**		
	Earth excavation - less than 500 cy	C.Y.	
	Earth excavation - 500 to 2,500cy	C.Y.	
	Earth excavation - 2,500 to 5,000cy	C.Y.	
	Earth excavation - more than 5,000 cy	C.Y.	
	Rock excavation - less than 500 cy	C.Y.	
	Rock excavation - 500 to 2,500cy	C.Y.	
	Rock excavation - 2,500 to 5,000cy	C.Y.	
	Rock excavation - more than 5,000 cy	C.Y.	
	Borrow - less than 500 cy	C.Y.	$20.00
	Borrow - 500 to 5,000cy	C.Y.	$15.00
	Borrow - more than 5,000 cy	C.Y.	$10.00

Individual Construction Items & Costs			
3. DRAINAGE			
	Catch basin	EA.	$3,000.00
	Double grate catch basin	EA.	$4,300.00
	Complex basin (CM-2)	EA.	$5,500.00
	Catch basin top	EA.	$600.00
	Reset Catch basin	EA.	$800.00
	Manhole (new)	EA.	$3,000.00
	Manhole (reset)	EA.	$700.00
	Abandon Manhole or Catch basin	EA.	$1,500.00
	Class "A" concrete	C.Y.	$650.00
	Bedding material (< 100 cy)	C.Y.	$40.00
	Bedding material (100-1,000 cy)	C.Y.	$30.00
	Bedding material (>1,000 cy)	C.Y.	$20.00
	Riprap	C.Y.	$75.00
	Trench excavation (0'-4' deep)	C.Y.	$12.00
	Trench excavation (0'-10' deep)	C.Y.	$14.00
	Trench excavation (0'-15' deep)	C.Y.	$15.00
	Trench excavation (0'-20' deep)	C.Y.	$18.00
	Rock in trench excavation	C.Y.	$100.00
	Paved ditch	S.Y.	$60.00
	Sedimentation control system	L.F.	$5.00
	Sedimentation Chamber (10'x4')*	EA.	$35,000.00
	Sedimentation Chamber (13'x7')*	EA.	$40,000.00
	Sedimentation Chamber (18'x12')*	EA.	$50,000.00
	12" R.C. pipe	L.F.	$45.00
	15" R.C. pipe	L.F.	$50.00
	18" R.C. pipe	L.F.	$60.00
	24" R.C. pipe	L.F.	$70.00
	30" R.C. pipe	L.F.	$80.00
	36" R.C. pipe	L.F.	$110.00
	42" R.C. pipe	L.F.	$130.00
	48" R.C. pipe	L.F.	$170.00
	24" R.C. culvert end	EA.	$1,100.00
	30" R.C. culvert end	EA.	$1,400.00
	36" R.C. culvert end	EA.	$1,500.00

Individual Construction Items & Costs

4. GUIDE RAIL

Metal beam rail (type R-B 350)	L.F.	$25.00
Metal beam rail (type R-B 350) - End Anchorage	EA.	$1,000.00
Metal beam rail (type R-B 350) - Bridge Attachment (trailing end $700 ea.)	EA.	$2,500.00
Three-cable guide railing (I-beam post)	L.F.	$15.00
Merritt Parkway Guiderail (local roads only)	L.F.	$60.00
Anchorages	EA.	$1,000.00
Precast conc. median or Jersey barrier (21" X 45")	L.F.	$100.00
Precast conc. median or Jersey barrier (30" X 45")	L.F.	$120.00
Temporary precast conc. barrier (24" X 32")	L.F.	$40.00

Individual Construction Items & Costs

5	**OTHER ITEMS**		
	Bituminous concrete curbing (if new, consider adding pavement)	L.F.	$5.00
	Concrete curbing	L.F.	$27.00
	Granite curbing	L.F.	$34.00
	Reset granite curbing	L.F.	$25.00
	Cut concrete sidewalk	L.F.	$5.00
	Concrete sidewalk	S.F.	$10.00
	Concrete sidewalk(stamped/dyed)	S.F.	$20.00
	Brick sidewalk	S.F.	$25.00
	Concrete paving brick	S.F.	$22.00
	Bituminous concrete sidewalk	S.Y.	$38.00
	Bituminous concrete driveway	S.Y.	$40.00
	Sodding	S.Y.	$12.00
	Turf establishment	S.Y.	$2.00
	Furnish & place topsoil	S.Y.	$7.00
	Traffic signals - new ($225,000 if part of a city system)	EA.	$150,000.00
	Traffic signals- modification ($80,000 if major modification)	EA.	$30,000.00
	Temporary Signalization ($35,000 if not at existing signal)	EA.	$3,500.00
	Street lighting	L.F.	$45.00

* Required per Stormwater Phase II General Permit (see DEP/DOT guidelines)

Selected Composite Items & Costs

1. PAVEMENT

(unit prices include HMA, tack coat, and formation of subgrade; excavation not included and must be calculated separately)

	unit	<4,000	4,000 - 40,000 SF	>40,000 SF
Arterial composite pavement cost: 4" HMA 0.5 inch on 6" HMA 1.0 inch on 14" Subbase in earth (in 20" rock)	S.F.	$9.60 ($12.20)	$8.30 ($10.50)	$7.70 ($9.40)
Collector composite pavement cost: 3" HMA 0.5 inch on 6" HMA 1.0 inch on 10" Subbase in earth (in 20" rock)	S.F.	$8.40 ($10.20)	$7.20 ($8.80)	$6.70 ($7.90)

	unit	<8,000 SF	8,000 - 80,000 SF	>80,000 SF
Overlay: 2" HMA 0.5 inch with tack coat (min. overlay)	S.F.	$1.60	$1.30	$1.20

	unit	<5,000 SF	5,000 - 50,000 SF	>50,000 SF
Overlay: 3" HMA 0.5 inch with tack coat (structural)	S.F.	$2.30	$2.00	$1.80

	unit	<4,000 SF	4,000 - 40,000 SF	>40,000 SF
Overlay: 4" HMA 0.5 inch with tack coat (structural expressway)	S.F.	$3.10	$2.60	$2.30

Selected Composite Items & Costs

2. STRUCTURES	unit	unit price
Bridges - New (per sq. ft. of deck area)	S.F.	$400.00
Bridges - Deck rehabilitation (per sq. ft. of deck area)	S.F.	$125.00
Bridges - Deck replacement (per sq. ft. of deck area)	S.F.	$145.00
Bridges - New superstructure-including deck (per sq. ft. of deck area	S.F.	$250.00
Bridges - Removal of superstructure over roadway	S.F.	$55.00
Bridges - Removal of superstructure over water or rail	S.F.	$75.00
Concrete Modular Walls / Mechanically Stabilized Earth Walls (sf estimate of exposed face)	S.F.	$65.00
Cast-in-place concrete wall (sf estimate of exposed face)	S.F.	$105.00
Precast box culverts (Estimate per sq. ft of top face; Length X Width)	S.F.	$225.00

3. DRAINAGE (Unit prices include surface runoff and CB's; doesn't include cross culverts or sedimentation chambers)	unit	unit price
Compact Urban Area - Full Drainage Improvement (total cost / area of pavement)	S.F.	$7.00
Suburban Area - Full Drainage Improvement (total cost / area of pavement)	S.F.	$4.60
Suburban Area - Upgraded Drainage & Rural Drainage (total cost / area of pavement)	S.F.	$2.30

20 YEARS

A RESOLUTION APPROPRIATING $7,150,000 FOR COSTS ASSOCIATED WITH THE INSPECTION AND CONSTRUCTION PHASE OF THE TURNEY CREEK/RIVERSIDE DRIVE TIDEGATES PROJECT, AND AUTHORIZING THE ISSUANCE OF BONDS IN AN AMOUNT NOT TO EXCEED $6,750,000 TO FUND A PORTION OF THE APPROPRIATION.

- -- ---

WHEREAS, the Town of Fairfield, Connecticut (the “Town”) seeks to appropriate $7,150,000 for the costs associated with the Turney Creek/Riverside Drive Tidegates Project (the “Appropriation”); and

WHEREAS, the Appropriation shall be funded by two sources including: 1) $400,000 from the Town’s Water Pollution Control Authority’s General Fund; and 2) $6,750,000 in bonds issued by the Town (the “Bonds”); and

NOW, THEREFORE, IT IS HEREBY:

RESOLVED:

1. As recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield (the “Town”) hereby appropriates the sum of Seven Million One Hundred Fifty Thousand and 00/100 Dollars ($7,150,000) for costs related to the inspection and construction phase of the Turney Creek/Riverside Drive Tidegates Project, including but not limited to, the costs to replace the existing bridge with a system of culverts, tidegates, and an additional siphon, and all related design, environmental inspection, administrative, financing, legal, contingency and other soft costs (the “Project”).

2. To finance a portion of the appropriation and in lieu of a tax therefor, and as recommended by the Board of Finance and the Board of Selectmen, the Town may borrow a sum not to exceed Six Million Seven Hundred Fifty Thousand and 00/100 Dollars ($6,750,000) and issue its general obligation bonds/bond anticipation notes for such indebtedness under its corporate name and seal and upon the full faith and credit of the Town in an amount not to exceed said sum for the purpose of financing a portion of the appropriation for the Project.

3. The Board of Selectmen, the Treasurer and the Fiscal Officer of the Town are hereby appointed a committee (the “Committee”) with full power and authority to cause said bonds to be sold, issued and delivered; to determine their form and terms, including provision for redemption prior to maturity; to determine the aggregate principal amount thereof within the amount hereby authorized and the denominations and maturities thereof; to fix the time of issue of each series thereof and the rate or rates of interest thereon as herein provided; to determine whether the interest rate on any series will be fixed or variable and to determine the method by which the variable rate will be determined, the terms of

conversion, if any, from one mode to another or from fixed to variable; to set whatever other terms of the bonds they deem necessary, desirable or appropriate; to designate the bank or trust company to certify the issuance thereof and to act as transfer agent, paying agent and as registrar for the bonds, and to designate bond counsel. The Committee shall have all appropriate powers under the Connecticut General Statutes, including Chapter 748 (Registered Public Obligations Act) and Chapter 109 (Municipal Bond Issues) to issue, sell and deliver the bonds and, further, shall have full power and authority to do all that is required under the Internal Revenue Code of 1986, as amended, and under rules of the Securities and Exchange Commission, and other applicable laws and regulations of the United States, to provide for issuance of the bonds in tax exempt form and to meet all requirements which are or may become necessary in and subsequent to the issuance and delivery of the bonds in order that the interest on the bonds be and remain exempt from Federal income taxes, including, without limitation, to covenant and agree to restriction on investment yield of bond proceeds, rebate of arbitrage earnings, expenditure of proceeds within required time limitations, the filing of information reports as and when required, and the execution of Continuing Disclosure Agreements for the benefit of the holders of the bonds and notes.

4. The First Selectwoman and Treasurer or Fiscal Officer, on behalf of the Town, shall execute and deliver such bond purchase agreements, reimbursement agreements, line of credit agreement, credit facilities, remarketing, standby marketing agreements, standby bond purchase agreements, and any other commercially necessary or appropriate agreements which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the sale and issuance of bonds, and if the Committee determines that it is necessary, appropriate, or desirable, the obligations under such agreements shall be secured by the Town's full faith and credit.

5. The First Selectwoman and Treasurer or Fiscal Officer shall execute on the Town's behalf such interest rate swap agreements or similar agreements related to the bonds for the purpose of managing interest rate risk which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the carrying or selling and issuance of the bonds, and if the Committee determines that it is necessary, appropriate or desirable, the obligations under such interest rate swap agreements shall be secured by the Town's full faith and credit.

6. The bonds may be designated "Public Improvement Bonds of the Town of Fairfield", series of the year of their issuance and may be issued in one or more series, and may be consolidated as part of the same issue with other bonds of the Town; shall be in serial form maturing in not more than twenty (20) annual installments of principal, the first installment to mature not later than three years from the date of issue and the last installment to mature not later than twenty (20) years from the date of issuance or as otherwise provided by statute. The bonds may be sold at an aggregate sales price of not less than par and accrued interest at public sale upon invitation for bids to the responsible bidder submitting the bid resulting in the lowest true interest cost to the Town, provided that nothing herein shall prevent the Town from rejecting all bids submitted in response to any one invitation for bids and the right to so reject all bids is hereby reserved, and further provided that the

Committee may sell the bonds on a negotiated basis, as provided by statute. Interest on the bonds shall be payable semi-annually or annually. The bonds shall be signed on behalf of the Town by at least a majority of the Board of Selectmen and the Treasurer, and shall bear the seal of the Town. The signing, sealing and certification of the bonds may be by facsimile as provided by statute.

7. The Committee is further authorized to make temporary borrowings as authorized by the General Statutes and to issue temporary notes of the Town in anticipation of the receipt of proceeds from the sale of the bonds to be issued pursuant to this resolution. Such notes shall be issued and renewed at such time and with such maturities, requirements and limitations as provided by the Connecticut General Statutes. Notes evidencing such borrowings shall be signed by the First Selectwoman and Treasurer or Fiscal Officer, have the seal of the Town affixed, which signing and sealing may be by facsimile as provided by statute, be certified by and payable at a bank or trust company incorporated under the laws of this or any other state, or of the United States, be approved as to their legality by bond counsel, and may be consolidated with the issuance of other Town bond anticipation notes. The Committee shall determine the date, maturity, interest rates, form and manner of sale, including negotiated sale, and other details of said notes consistent with the provisions of this resolution and the Connecticut General Statutes and shall have all powers and authority as set forth above in connection with the issuance of bonds and especially with respect to compliance with the requirements of the Internal Revenue Code of 1986, as amended, and regulations thereunder in order to obtain and maintain issuance of the notes in tax exempt form.

8. Pursuant to Section 1.150-2, as amended, of the Federal Income Tax Regulations the Town hereby declares its official intent to reimburse expenditures (if any) paid for the Project from its General or Capital Funds, such reimbursement to be made from the proceeds of the sale of bonds and notes authorized herein and in accordance with the time limitations and other requirements of said regulations.

9. The First Selectwoman, Fiscal Officer and Town Treasurer are hereby authorized, on behalf of the Town, to enter into agreements or otherwise covenant for the benefit of bondholders to provide information on an annual or other periodic basis to the Municipal Securities Rulemaking Board (the "MSRB") and to provide notices to the MSRB of material events as enumerated in Securities and Exchange Commission Exchange Act Rule 15c2-12, as amended, as may be necessary, appropriate or desirable to effect the sale of the bonds and notes authorized by this resolution.

10. The Committee is hereby authorized to take all action necessary and proper for the sale, issuance and delivery of the bonds and notes in accordance with the provisions of the Connecticut General Statutes and the laws of the United States. The First Selectwoman is authorized to negotiate and enter into grant agreements on behalf of the Town to fund the Project and to accept on behalf of the Town any grant to fund the Project. The First Selectwoman and other Town officials are authorized to seek grants and other contributions for the costs of the Project and take all such actions necessary or appropriate to obtain such grants and other contributions including execution and delivery of contracts related to such

grants. Any such grants or contribution received prior to the issuance of the Bonds authorized herein shall be applied to the costs of the Project or to pay at maturity the principal of any outstanding bond anticipation notes issued pursuant this resolution and shall reduce the amount of the Bonds that can be issued pursuant to this resolution. If such grants and contributions are received after the issuance of the Bonds, they shall be applied to pay the principal on the Bonds or as otherwise authorized by the Board of Selectmen, Board of Finance and Representative Town Meeting provided such application does not adversely affect the tax exempt status of the Bonds or the Town's receipt of such grant or contribution.

Re: 14 Points

Capital Budget – Turney Creek-Riverside Culverts, Tide Gates and Siphon

$7,150,000

Background – Circa 2018-2019, The Turney Creek (@ Riverside Drive) Tidegates started having some repair issues including a broken self regulating tidegate, a deteriorating retaining wall and disjointed culverts that cause sinkholes . At the same time, the East Trunk Sewer line replacement was being designed and the Riverside Drive Bridge report revealed fair to poor ratings. Rather than perform three separate projects, the Town decided to construct all 3 at once resulting in a cost saving, shorter construction schedule and more environmental friendly design. The Town hired a consultant to provide construction plans combining them into one project. The Conservation Department operates and maintains the self regulating tide gates and flap tidegates for tidal marsh enhancement and flood control structures. DPW maintains the road, sidewalks, culverts and bridge. The WPCA maintains the sanitary sewer and siphon chambers located under and adjacent to the bridge. For this specific project, five Town Departments are involved, due to the complexity and functionality of this structure the three mentioned previously with Engineering and Finance providing administration, funding and potential grants.

This project is located on Riverside Drive in the Turney Creek-Riverside open space parcel across from. Shoreham Terrace.

Purpose and Justification – The purpose of the proposal is to replace aging infrastructure (50-75 years old) to prevent culvert failure, settling sidewalks, sinkholes and major flooding by replacing the existing structures. The project basically combines three related projects into one major project. The existing (SRT) tide gates and culverts are beyond its life expectancy. One SRT tidgegate is "broken" and non- functioning and the other SRT has limited functions that require replacement. Soil pressures have caused the retaining wall to tilt and expand and should be replaced soon. The two 48- inch culverts suffer corrosion and are disjointed. The three 84- inch ACCMP culverts located under the bridge were repaired in the 1990s and are nearing the end of their service life. At the end of these culverts, timber top hinged (flap) gates are also nearing the end of their service life after repairs and replacement circa 2005. The existing twin sanitary sewer siphons are almost 70 years old and while in serviceable condition, blockages have occurred occasionally with limited flow capacity. Due to the nature of splitting flows and bucking gravity to go under bridge/ culverts.

Detailed Description of Proposal –The proposed project is to replace the existing bridge, with five (5) culverts, five (5) tidegates, replace retaining wall(s) and providing an additional sanitary sewer siphon, in accordance with the engineered design and approved permits. The replacement of this infrastructure includes modification of the culverts to better streamline flows and lessen permanent footprint. The culverts will be all within proposed headwalls and replacement culverts will be steel reinforced Polyethylene (SRPE) pipe to prevent deterioration in the salt water environment. The culverts will also be anchored with tie

downs to a cast in place concrete mat to prevent buoyancy. There are also support steel sheet pile cutoff walls to prevent settlement, scour and flow under the structure. The replacement sewer main consists of three (3) 18 inch PVC pipes. The new siphon lines will provide redundancy in case problems occur in one of the lines and will increase capacity flows. The project also involves some soil remediation for contamination and working around a Southern CT gas line. Currently all local, state and federal permits are secured and the design plans are 95 % complete. This project is "shovel ready" for "quick build".

Reliability of Cost Estimate – The estimated costs are based on the similarity to other completed projects and Consultant Estimates. The costs of materials and installation have been adjusted higher to account for inflation, increased material costs and design/permitting expenses. True costs won't be determined until the project goes out to bid. See attached calculation estimate.

Increased Efficiency or Productivity – There is increased efficiency and productivity anticipated since one tide gate is not functioning and the other is severely limited and is at the end of its service life. Sewer capacity is increased with the third siphon.

Additional Long Range Costs – Any long-term costs would be incidental to the equipment and operation of the tide gates, culverts and siphons. Any maintenance costs for these structures are covered under their respective Department's annual operating budget throughout their functional life expectancy.

Additional Use or Demand on Existing Facilities – None anticipated; however, the third Sewer siphon will decrease potential SSOs and blockage potential and would increase sewer main capacity. Environmental improvements are expected since there would be improvement of tidal conveyance.

An alternative to this Request- the alternatives to this request are to separate each project with 3 different phases or not to move forward with the replacement at this time. Separating into phases would result in an approximate 4-6 year detour, longer disruption of the tidal creek and roadway, involve several mobilizations and contractors resulting in additional costs. Do nothing alternative is not realistic as the tidegates, culverts are problematic and need replacement.

Safety and Loss Control –If this tide gate is not replaced during the FY24 review, delay could compromise flood control and environmental benefits in western neighborhoods adjacent to Ash Creek and to some extent, elsewhere in Town. Sinkholes and settlement would continue to create safety issues.

Environmental Considerations – All significant environmental considerations will be related during actual construction/installation activities and conducted under all applicable permits, including but not limited to: sediment & erosion controls, wildlife breeding/migration, removal of contaminated soil, weather, seasonal cycles, noise, etc.

Insurance – Will be required by the Purchasing Department as part of regular RFP/contract bid award process.

Financing – Capital Budget. Project is expected to cost $ 6.5 Million with 20 % cost increase from 2020 pricing. If 10 % contingency is added, project costs increase to $ 7.15 Million. $6.75 million of the project will be financed using Town General Obligation bonds. $400,000 will be paid for out of the WPCA Fund Balance for the Riverside Drive Siphon portion of the project.

Other Considerations: Roadway would be closed. Contractor access from Riverside Drive and Town-owned land for staging. Adjacent neighbors/public would be notified.

Other Potential Approvals: USACE, CTDEEP, Conservation Commission/IWA (valid permits previously approved).

WPCA	Approved
Board of Selectmen	March 2023
Board of Finance	March/April 2023
Representative Town Meeting	May 2023

Other Considerations: Roadway would be closed. Contractor access from Riverside Drive and Town-owned land for staging. Adjacent neighbors/public would be notified.

Other Potential Approvals: USACE, CTDEEP, Conservation Commission/IWPA (Approved).

Board of Selectmen	March 2023
Board of Finance	March/April 2023
Representative Town Meeting	May 2023

CAPITAL PROJECTS SUMMARY

EXHIBIT 1

Projected Cash Flow for Capital and Non-Recurring Projects - Board of Education, Town & WPCF
FY23 through FY28

Fall 2022 Cap Plan

Board of Education

	FY23	FY24	FY25	FY26	FY27	FY28	Total
Capital Projects	$ 4,926,887	$ 13,705,407	$ 13,962,693	$ 11,866,198	$ 11,481,430	$ 11,312,337	$ 67,254,952
Less: Reimbursements	$ (697,700)	$ (3,473,997)	$ (3,408,521)	$ (2,215,863)	$ (2,643,015)	$ (1,907,257)	$ (14,346,353)
Net Capital Projects	$ 4,229,187	$ 10,231,410	$ 10,554,172	$ 9,650,335	$ 8,838,415	$ 9,405,080	$ 52,908,599
Non-Recurring Projects	$ 1,261,699	$ 2,074,916	$ 706,808	$ 41,762	$ 943,049	$ 1,911,519	$ 6,939,753
Less: Reimbursements	$ -	$ (474,417)	$ -	$ -	$ (104,930)	$ (255,228)	$ (834,575)
Net Non-Recurring Projects	$ 1,261,699	$ 1,600,499	$ 706,808	$ 41,762	$ 838,119	$ 1,656,291	$ 6,105,178
Total Cash Flow Required	$ 5,490,886	$ 11,831,909	$ 11,260,980	$ 9,692,097	$ 9,676,534	$ 11,061,371	$ 59,013,777

Town

	FY23	FY24	FY25	FY26	FY27	FY28	Total
Capital Projects	$ 28,049,041	$ 14,424,331	$ 29,304,077	$ 15,298,229	$ 20,888,617	$ 10,375,000	$ 118,339,295
Less: Reimbursements	$ (18,600,000)	$ (11,250,000)	$ (17,632,250)	$ (5,451,875)	$ (6,300,000)	$ (2,100,000)	$ (61,334,125)
Net Capital Projects	$ 9,449,041	$ 3,174,331	$ 11,671,827	$ 9,846,354	$ 14,588,617	$ 8,275,000	$ 57,005,170
							$ -
Non-Recurring Projects	$ 3,814,645	$6,737,220	$ 4,601,490	$ 3,406,219	$ 1,763,750	$ 1,250,000	$ 21,573,324
Less: Reimbursements	$ (1,225,000)	($2,992,620)	$ (173,250)	$ (183,750)	$ -	$ -	$ (4,574,620)
Net Non-Recurring Projects	$ 2,589,645	$ 3,744,600	$ 4,428,240	$ 3,222,469	$ 1,763,750	$ 1,250,000	$ 16,998,704
Total Cash Flow Required	$ 12,038,686	$ 6,918,931	$ 16,100,067	$ 13,068,823	$ 16,352,367	$ 9,525,000	$ 74,003,873

WPCF

	FY23	FY24	FY25	FY26	FY27	FY28	Total
Capital Projects	$ 2,687,500	$16,170,718	$12,231,074	$10,889,950	$8,601,534	$7,016,426	$ 57,597,202
Less: Reimbursements	$ (1,862,500)	($2,137,500)	($1,500,000)	($500,000)	($100,000)	($100,000)	$ (6,200,000)
Net Capital Projects	$ 825,000	$ 14,033,218	$ 10,731,074	$ 10,389,950	$ 8,501,534	$ 6,916,426	$ 51,397,202
Non-Recurring Projects	$ 1,525,000	$780,000	$0	$0	$0	$0	$ 2,305,000
Less: Reimbursements	$ (1,525,000)	($780,000)	$0	$0	$0	$0	$ (2,305,000)
Net Non-Recurring Projects	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Cash Flow Required	$ 825,000	$ 14,033,218	$ 10,731,074	$ 10,389,950	$ 8,501,534	$ 6,916,426	$ 51,397,202

Grand Total - Board of Education, Town & WPCF

	FY23	FY24	FY25	FY26	FY27	FY28	Total
Capital Projects	$ 35,663,428	$ 44,300,456	$ 55,497,843	$ 38,054,377	$ 40,971,581	$ 28,703,763	$ 243,191,448
Less: Reimbursements	$ (21,160,200)	$ (16,861,497)	$ (22,540,771)	$ (8,167,738)	$ (9,043,015)	$ (4,107,257)	$ (81,880,478)
Net Capital Projects	$ 14,503,228	$ 27,438,959	$ 32,957,072	$ 29,886,639	$ 31,928,566	$ 24,596,506	$ 161,310,970
Non-Recurring Projects	$ 6,601,344	$ 9,592,136	$ 5,308,298	$ 3,447,981	$ 2,706,799	$ 3,161,519	$ 30,818,077
Less: Reimbursements	$ (2,750,000)	$ (4,247,037)	$ (173,250)	$ (183,750)	$ (104,930)	$ (255,228)	$ (7,714,195)
Net Non-Recurring Projects	$ 3,851,344	$ 5,345,099	$ 5,135,048	$ 3,264,231	$ 2,601,869	$ 2,906,291	$ 23,103,882
							$ -
Total Cash Flow Required	**$ 18,354,572**	**$ 32,784,058**	**$ 38,092,120**	**$ 33,150,870**	**$ 34,530,435**	**$ 27,502,797**	**$ 184,414,852**

TOWN - ANTICIPATED COST OF PROJECTS
SCHEDULE OF CASH FLOW
FY 23 to FY 28

EXHIBIT 2
Fall 2022 Cap Plan

(1) = AMERICAN RESCUE PLAN ACT - TRANCHE 1
(2) = AMERICAN RESCUE PLAN ACT - TRANCHE 2

FY23	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net	BASIS: Assumptions	CLASSIFICATION: or New Project
Conservation	Pine Creek - McCleavy Tidegate Repair	A	$500,000		$500,000	Comp. to Past Projects	Replace/Improve Existing
Conservation	Riverside Creek Tidegate Repair	A	$453,200		$453,200	Comp. to Past Projects	Replace/Improve Existing
DPW	Sidewalk Repair (2)	A	$500,000	($500,000)	$0	Dept. Estimate	Replace/Improve Existing
DPW/Sr Ctr	Deck/patio behind Senior Center (2)	A	$100,000	($100,000)	$0	Dept. Estimate	Replace/Improve Existing
Engineering	Underwater Bridge Inspection and Repairs	A	$150,000		$150,000	Dept. Estimate	Replace/Improve Existing
Engineering	Increase Resiliency AC Open Space-Jennings Beach - Design	A	$250,000		$250,000	FERB/Pot. FEMA Grant	Replace/Improve/New
Fire	Fire Station Rehabilitation (2)	A	$250,000	($250,000)	$0	Dept. Estimate	Replace/Improve Existing
Fire	Self Contained Breathing Apparatus (SCBA)	A	$358,445		$358,445	Dept. Estimate	Replace/Improve Existing
Parks Dept	Lake Mohegan - Restoration from Storm Ida Damage	A	$500,000	($375,000)	$125,000	Vendor Quote	Replace/Improve Existing
Park & Rec	Tennis Center Light Replacement	A	$100,000		$100,000	Vendor Quote	Replace/Improve Existing
Park & Rec	Post-Tension Tennis Courts - Dwight	A	$550,000		$550,000	Vendor Quote	Replace/Improve Existing
Park & Rec	Jacky Durrell Pavilion Upgrades	A	$103,000		$103,000	Vendor Quote	Replace/Improve Existing
SUBTOTAL NRC - FY23			$3,814,645	($1,225,000)	$2,589,645		

FY23	CAPITAL (Over $1 million)		Cost	Reimbursement	Net		
Conservation	Railroad Bridge Tide Gates	A	$2,250,000		$2,250,000	Comp. to Past Projects	Replace/Improve Existing
DPW	Town-wide Facility Upgrades (Based on Audit Recommendations)	A	$1,884,041		$1,884,041	Consultant Audit	Replace/Improve Existing
DPW	Capital Equipment	A	$1,190,000		$1,190,000	Dept. Estimate	Replace/Improve Existing
DPW	Roadway Capital Improvement Plan (2)	A	$4,030,000	($4,030,000)	$0	Consultant	Replace/Improve Existing
Economic Development	Downtown Resil. - Perm. Surfacing (2) (Ttl Project: $1.42M)	A	$1,170,000	($1,170,000)	$0	Dept. Estimate	New Project
Engineering	Perry's Green Bulkhead (2) (Ttl Project: $1M)	A	$900,000	($900,000)	$0	Comp. to Past Projects	Replace/Improve Existing
Engineering	Commerce Drive Bridge Construction (Approved for $2.759m & $200k)	A	$3,900,000	($3,900,000)	$0	Comp. to Past Projects	Replace/Improve Existing
Engineering	Rooster River Detention Constr. (2) (Ttl Project: $3.25M)	A	$2,850,000	($2,850,000)	$0	Comp. to Past Projects	Replace/Improve Existing
Park & Rec	Roger Ludlowe Middle School Turf	A	$4,125,000		$4,125,000	Vendor Quote	Replace/Improve Existing
Town	Penfield Construction / Remediation (Ttl Project: $13M)	P	$5,000,000	($5,000,000)	$0	Dept. Estimate	Replace/Improve Existing
Town/Public Safety	Traffic Lights (2) (Ttl Project: $1M)	A	$750,000	($750,000)	$0	Dept. Estimate	New Project
SUBTOTAL CAPITAL - FY23			$28,049,041	($18,600,000)	$9,449,041		
GRAND TOTAL - FY23			**$31,863,686**	**($19,825,000)**	**$12,038,686**		

FY24	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net		
DPW	Sidewalks - Southport & Stratfield (2)	A	$850,000	($850,000)	$0	Dept. Estimate	Replace/Improve Existing
Engineering	Guiderail Repairs Phase 2	P	$210,000		$210,000	Dept. Estimate	Replace/Improve Existing
Engineering	KHW Greens Farm Bridge Construction	P	$432,600		$432,600	Comp. to Past Projects	Replace/Improve Existing
Engineering	Design of Stratfield Road (RSA)	P	$325,000		$325,000	Comp. to Past Projects	Replace/Improve Existing
Engineering	Design of Post Road & Jug Handle	P	$175,000		$175,000	Comp. to Past Projects	Replace/Improve Existing
Engineering/Harbor	Lower Wharf / Fishing Pier	P	$800,000	($640,000)	$160,000	Comp. to Past Projects	Replace/Improve Existing
Fire	Pumper - LSN 14	P	$980,000		$980,000	Mfg. Quote + Annual Incr.	Replace/Improve Existing
Fire	Fire Station Rehabilitation (2)	A	$300,000	($250,000)	$50,000	Dept. Estimate	Replace/Improve Existing
Fire	Shift Commander Vehicle Replacement **(NEW ARPA Proposal)**	P	$150,000	($150,000)	$0	Dept. Estimate	Replace/Improve Existing
Park & Rec	Sgt. Murphy Playground Replacement **(NEW ARPA Proposal)**	P	$150,000	($150,000)	$0	Dept. Estimate	Replace/Improve Existing
Park & Rec	HSR Driving Range Upgrades	P	$275,000		$275,000	Dept. Estimate	Replace/Improve Existing
Park & Rec	Post-Tension Tennis Courts - Ffld. Woods	P	$522,000		$522,000	Vendor Quote	Replace/Improve Existing
Park & Rec	Tunxis Hill Park Pickleball Court Replacement (4) and NEW Courts (2)	P	$575,000		$575,000	Vendor Quote	Replace/Improve Existing

Police	Police Department Rehabilitation **(NEW ARPA Proposal)**	P	$350,000	($350,000)	$0	Dept. Estimate	Replace/Improve Existing
TPZ	Camden Street Properties - Demo/Acquisition/Open Space	P	$642,620	($602,620)	$40,000	Dept. Estimate	Replace/Improve Existing
SUBTOTAL NRC - FY24			$6,737,220	($2,992,620)	$3,744,600		
FY24	**CAPITAL (Over $1 million)**		**Cost**	**Reimbursement**	**Net**		
DPW	Roadway Capital Improvement Plan	P	$3,759,081	($3,250,000)	$509,081	Consultant	Replace/Improve Existing
DPW	Capital Equipment	P	$1,265,250		$1,265,250	Dept. Estimate	Replace/Improve Existing
Fire	Apparatus Maintenance	P	$1,400,000		$1,400,000	Dept. Estimate	Replace/Improve Existing
Town	Penfield Construction / Remediation (Ttl Project: $13M)	P	$8,000,000	($8,000,000)	$0	Dept. Estimate	Replace/Improve Existing
SUBTOTAL CAPITAL - FY24			$14,424,331	($11,250,000)	$3,174,331		
GRAND TOTAL - FY24			**$21,161,551**	**($14,242,620)**	**$6,918,931**		
FY25	**NON- RECURRING CAPITAL (Under $1 million)**		**Cost**	**Reimbursement**	**Net**		
Conservation	S. Benson Marina Tidegate Replacement	P	$405,563		$405,563	Comp. to Past Projects	Replace/Improve Existing
Conservation	Salt Meadow Dike Tidegate Repair	P	$740,828		$740,828	Comp. to Past Projects	Replace/Improve Existing
DPW	Capital Equipment (Trucks)	P	$336,000		$336,000	Dept. Estimate	Replace/Improve Existing
DPW	Barnacle Work Boat - Marina	P	$250,000		$250,000	Dept. Estimate	Replace/Improve Existing
Engineering	Wakeman Lane/Old Rd. Bridge Construct.	P	$432,600		$432,600	Comp. to Past Projects	Replace/Improve Existing
Engineering	Southport Median Grant Design	P	$315,000		$315,000	Comp. to Past Projects	Replace/Improve Existing
Engineering	Sidewalk Replacement - Large Sections	P	$315,000		$315,000	Dept. Estimate	Replace/Improve Existing
Engineering	Sturges Bridge Design	P	$346,500	($173,250)	$173,250	Comp. to Past Projects	Replace/Improve Existing
Fire	Fire Station Rehabilitation	P	$250,000		$250,000	Dept. Estimate	Replace/Improve Existing
Fire	Shop Truck Replacement	P	$110,000		$110,000	Dept. Estimate	Replace/Improve Existing
Park & Rec	Dog Park (Location TBD)	P	$200,000		$200,000	Vendor Quote	Replace/Improve Existing
Park & Rec	Lake Mohegan Concession/Water Park	P	$250,000		$250,000	Dept. Estimate	Replace/Improve Existing
Park & Rec	Lake Mohegan Playground Replacement	P	$150,000		$150,000	Dept. Estimate	Replace/Improve Existing
Police	Police Department Rehabilitation	P	$500,000		$500,000	Dept. Estimate	Replace/Improve Existing
SUBTOTAL NRC - FY25			$4,601,490	($173,250)	$4,428,240		
FY25	**CAPITAL (Over $1 million)**		**Cost**	**Reimbursement**	**Net**		
DPW	Town-wide Facility Upgrades (Based on Audit Recommendations)	P	$1,414,377		$1,414,377	Consultant Audit	Replace/Improve Existing
DPW	Roadway Capital Improvement Plan (2)	P	$3,388,700	($3,125,000)	$263,700	Consultant	Replace/Improve Existing
Engineering	S. Benson Storm. Pump Sta/Lines - Design	P	$1,575,000	($1,181,250)	$393,750	Comp. to Past Projects	Replace/Improve Existing
Engineering	Black Rock Turnpike Improve. Construct.	P	$2,100,000	($2,100,000)	$0	Comp. to Past Projects	Replace/Improve Existing
Engineering	Kings Highway Phase III Construction	P	$2,163,000	($2,163,000)	$0	Comp. to Past Projects	Replace/Improve Existing
Engineering	Brookside Drive Bridge Construction	P	$2,163,000	($2,163,000)	$0	Comp. to Past Projects	Replace/Improve Existing
Engineering	Congress St. Bridge Construction	P	$3,150,000	($3,150,000)	$0	Comp. to Past Projects	Replace/Improve Existing
Engineering	Increase Resiliency - Jennings Beach - Construction	P	$2,100,000		$2,100,000	Comp. to Past Projects	Replace/Improve Existing
Engineering	Stratfield Road (RSA) - Construction	P	$2,000,000	($2,000,000)	$0	Comp. to Past Projects	Replace/Improve Existing
Engineering	Post Road & Jug Handle - Construction	P	$1,750,000	($1,750,000)	$0	Comp. to Past Projects	Replace/Improve Existing
Town	Remediation - Fill Pile Berm (Total - $7 million)	P	$3,500,000		$3,500,000	Dept. Estimate	Replace/Improve Existing
Library	Fairfield Woods Branch Library Renovation (Debt Service Paid by Library Board)	P	$4,000,000	$0	$4,000,000	Dept. Estimate	Replace/Improve Existing
SUBTOTAL CAPITAL - FY25			$29,304,077	($17,632,250)	$11,671,827		
GRAND TOTAL - FY25			**$33,905,567**	**($17,805,500)**	**$16,100,067**		

FY26	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net	Assumptions	or New Project
Engineering	Increase Resiliency Sasco Hill to WPCF	P	$367,500		$367,500	FERB/Pot. FEMA Grant	New Project
Engineering	Oldfield Road Bridge Design	P	$367,500	($183,750)	$183,750	Comp. to Past Projects	Replace/Improve Existing
Engineering	Hulls Farm Road Bridge Construction	P	$779,762		$779,762	Comp. to Past Projects	Replace/Improve Existing
Fire	Fire Station Rehabilitation	P	$262,500		$262,500	Dept. Estimate	Replace/Improve Existing
Fire	Marine 217	P	$200,510		$200,510	Dept. Estimate	Replace/Improve Existing
Park & Rec	Beach Parking Kiosks	P	$250,000		$250,000	Dept. Estimate	New Project
Park & Rec	Showmobile	P	$178,448		$178,448	Vendor Quote	New Project
Park & Rec	HSR Driving Range Lighting	P	$400,000		$400,000	Dept. Estimate	Replace/Improve Existing
Park & Rec	Grasmere Playground Replacement	P	$150,000		$150,000	Dept. Estimate	Replace/Improve Existing
Park & Rec	Rugby Park Playground Replacement	P	$150,000		$150,000	Dept. Estimate	Replace/Improve Existing
Police	Police Department Rehabilitation	P	$300,000		$300,000	Dept. Estimate	Replace/Improve Existing
SUBTOTAL NRC - FY26			$3,406,219	($183,750)	$3,222,469		

FY26	CAPITAL (Over $1 million)		Cost	Reimbursement	Net		
DPW	Roadway Capital Improvement Plan	P	$3,209,852	($2,000,000)	$1,209,852	Consultant	Replace/Improve Existing
DPW	Capital Equipment (Trucks)	P	$1,370,250		$1,370,250	Dept. Estimate	Replace/Improve Existing
DPW	Town-wide Facility Upgrades (Based on Audit Recommendations)	P	$1,414,377		$1,414,377	Consultant Audit	Replace/Improve Existing
Engineering	Sturges Bridge Construction	P	$2,703,750	($1,351,875)	$1,351,875	Comp. to Past Projects	Replace/Improve Existing
Engineering	Southport Median Grant Construction	P	$2,100,000	($2,100,000)	$0	Comp. to Past Projects	Replace/Improve Existing
Fire	Pumper - LSN 15	P	$1,000,000		$1,000,000	Mfg. Quote + Annual Incr.	Replace/Improve Existing
Town	Remediation - Fill Pile Berm (Total - $7 million)	P	$3,500,000		$3,500,000	Dept. Estimate	Replace/Improve Existing
SUBTOTAL CAPITAL - FY26			$15,298,229	($5,451,875)	$9,846,354		
GRAND TOTAL - FY26			**$18,704,448**	**($5,635,625)**	**$13,068,823**		

FY27	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net		
DPW	Capital Equipment (Trucks)	P	$551,250		$551,250	Dept. Estimate	Replace/Improve Existing
Fire	Fire Station Rehabilitation	P	$262,500		$262,500	Dept. Estimate	Replace/Improve Existing
DPW/P&R	South Benson Marina Dock Replacement Phase 1	P	$650,000		$650,000	Design Firm Estimate	Replace/Improve Existing
Park & Rec	Knapps Park Playground Replacement	P	$150,000		$150,000	Dept. Estimate	Replace/Improve Existing
Park & Rec	Hook and Ladder Playground Replacement	P	$150,000		$150,000	Dept. Estimate	Replace/Improve Existing
SUBTOTAL NRC - FY27			$1,763,750	$0	$1,763,750		

FY27	CAPITAL (Over $1 million)		Cost	Reimbursement	Net		
DPW	Roadway Capital Improvement Plan	P	$2,100,000	($2,100,000)	$0	Consultant	Replace/Improve Existing
DPW	Town-wide Facility Upgrades (Based on Audit Recommendations)	P	$2,913,617		$2,913,617	Consultant Audit	Replace/Improve Existing
DPW/Conserv	Turney Creek/Riverside Dr. Tide Gates	P	$3,575,000		$3,575,000	Comp. to Past Projects	Replace/Improve Existing
Engineering	Oldfield Road Bridge	P	$3,150,000	($1,575,000)	$1,575,000	Comp. to Past Projects	Replace/Improve Existing
Engineering	Rooster River Dredging - Large Segments	P	$5,250,000	($2,625,000)	$2,625,000	Comp. to Past Projects	Replace/Improve Existing
Park & Rec	Jennings Master Plan Upgrade	P	$3,900,000		$3,900,000	Design Firm Estimate	New Project
SUBTOTAL CAPITAL - FY27			$20,888,617	($6,300,000)	$14,588,617		
GRAND TOTAL - FY27			**$22,652,367**	**($6,300,000)**	**$16,352,367**		

FY28	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net		
DPW/P&R	South Benson Marina Dock Replacement Phase 2	P	$650,000		$650,000	Design Firm Estimate	Replace/Improve Existing
Park & Rec	Veterans Park Playground Replacement	P	$150,000		$150,000	Dept. Estimate	Replace/Improve Existing
Park & Rec	Veres Park Playground Replacement	P	$150,000		$150,000	Dept. Estimate	Replace/Improve Existing
Park & Rec	Owen Fish Playground Replacement	P	$300,000		$300,000	Dept. Estimate	Replace/Improve Existing
SUBTOTAL NRC - FY28			$1,250,000	$0	$1,250,000		
FY28	**CAPITAL (Over $1 million)**		**Cost**	**Reimbursement**	**Net**		
DPW	Roadway Capital Improvement Plan	P	$2,100,000	($2,100,000)	$0	Consultant	Replace/Improve Existing
DPW/Conserv	Turney Creek/Riverside Dr. Tide Gates	P	$3,575,000		$3,575,000	Comp. to Past Projects	Replace/Improve Existing
Park & Rec	Dougiello Master Plan Upgrade	P	$3,200,000		$3,200,000	Design Firm Estimate	New Project
Fire	Rescue 1 - LSN78	P	$1,500,000		$1,500,000	Mfg. Quote + Annual Incr.	Replace/Improve Existing
SUBTOTAL CAPITAL - FY28			$10,375,000	($2,100,000)	$8,275,000		
GRAND TOTAL - FY28			**$11,625,000**	**($2,100,000)**	**$9,525,000**		

$7,150,000

TOWN - ANTICIPATED COST OF PROJECTS
SCHEDULE OF CASH FLOW
FY 29 - FY 33

EXHIBIT 4
Fall 2022

DEPT	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net	Previous Plan Year
DPW/P&R	South Benson Marina Dock Replacement Phase 3	P	$650,000		$650,000	FY 26
GRAND TOTAL NON-RECURRING CAPITAL - ALL FISCAL YEARS:			**$8,445,992**	**$0**	**$650,000**	
	CAPITAL (Over $1 million)		**Cost**	**Reimbursement**	**Net**	
DPW	Town-wide Facility Upgrades	P	$3,001,025		$3,001,025	FY 29
DPW	Town-wide Facility Upgrades	P	$2,351,387		$2,351,387	FY 30
DPW	Town-wide Facility Upgrades	P	$2,421,929		$2,421,929	FY 31
DPW	Town-wide Facility Upgrades	P	$2,266,676		$2,266,676	FY 32
DPW	Town-wide Facility Upgrades	P	$2,234,676		$2,234,676	FY 33
Engineering	Brooklawn Parkway Retaining Wall Replacement	P	$1,680,000		$1,680,000	FY 22
Fire	Engine 2 - LSN 16	P	$1,500,000		$1,500,000	FY 29
DPW	Capital Equipment (Trucks)	P	$380,000		$380,000	FY 29
DPW	Capital Equipment (Trucks)	P	$520,000		$520,000	FY 30
DPW	Capital Equipment (Trucks)	P	$460,000		$460,000	FY 31
Engineering	S. Benson Stormwater Pump Station - Construction	P	$21,000,000		$21,000,000	FY 24
Engineering	S. Benson SW Pump Drainage Lines/Paving/Environmental	P	$14,700,000		$14,700,000	FY 25
Engineering	S. Benson Stormwater Pump Station - Drainage Construction	P	$12,495,000		$12,495,000	FY 26
GRAND TOTAL CAPITAL - ALL FISCAL YEARS:			**$62,009,668**	**$0**	**$62,009,668**	

Major Town Projects
Subject to Additional Research and Prioritization

EXHIBIT 3
Fall 2022 Cap Plan

Department	Project	Amount	Previous Plan Year
Park & Rec	Turf Field	$4,326,000	FY 24
Town Hall	Renovation/Addition Construction	$7,000,000	FY 24
Old Town Hall	Design/Upgrade/Renovation/Repair	$4,000,000	FY 24
Town	Turner Property Renovation	$10,000,000	NEW
Fire	Fire Station 4 Replacement	$4,000,000	FY 24
Senior Center	New Construction	$20,000,000	FY 27
Park & Rec	Giant Steps Property	Unknown	NEW
Fire	Jackman Avenue - New Construction/Relocation	$5,000,000	NEW
Total		**$54,326,000**	

EXHIBIT 5

Fall 2022

WPCA - ANTICIPATED COST OF PROJECTS
SCHEDULE OF CASH FLOW
FY 23-FY 28

FY23	**NON- RECURRING CAPITAL (Under $1 million)**		**Cost**	**Reimbursement**		**Net**
WPCF	FAIRFIELD BEACH ROAD PUMP STATION DESIGN	A	$300,000	($300,000)	*	$0
WPCF	CENTER ST/S PINE CREEK PUMP STATION DESIGN	A	$600,000	($600,000)	*	$0
WPCF	DIGESTER CLEANING	A	$625,000	($625,000)	*	$0
SUBTOTAL NRC - FY23			$1,525,000	($1,525,000)		$0

FY23	**CAPITAL (Over $1 million)**		**Cost**	**Reimbursement**	**Net**
WPCF	EAST TRUNK - WETLAND REPLACEMENT (Ttl Project = $6,250,000)	P	$937,500	($112,500)	$825,000
WPCF	DIGESTER REPAIR	P	$1,750,000	($1,750,000)	$0
SUBTOTAL CAPITAL - FY23			$2,687,500	($1,862,500)	$825,000
GRAND TOTAL - FY23			**$4,212,500**	**($3,387,500)**	**$825,000**

FY24	**NON- RECURRING CAPITAL (Under $1 million)**		**Cost**	**Reimbursement**	**Net**
WPCF	RIVERSIDE DRIVE SIPHON	P	$780,000	($780,000)	$0
SUBTOTAL NRC - FY24			$780,000	($780,000)	$0

FY24	**CAPITAL (Over $1 million)**		**Cost**	**Reimbursement**	**Net**
WPCF	EAST TRUNK - WETLAND REPLACEMENT (Ttl Project = $6,250,000)	P	$5,312,500	($637,500)	$4,675,000
WPCF	FAIRFIELD BEACH ROAD STATION UPGRADE (Ttl Project = $3,720,816)	P	$2,217,606		$2,217,606
WPCF	FAIRFIELD BEACH ROAD FORCE MAIN (Ttl Project = $2,752,704)	P	$1,640,612		$1,640,612
WPCF	EAST TRUNK LINE REPLACEMENT (Ttl Project = $10,000,000)	P	$5,000,000	($1,500,000)	$3,500,000
WPCF	ENVIRONMENTAL STUDY - WPCF PROPERTY	P	$2,000,000		$2,000,000
SUBTOTAL CAPITAL - FY24			$16,170,718	($2,137,500)	$14,033,218
GRAND TOTAL - FY24			**$16,950,718**	**($2,917,500)**	**$14,033,218**

FY25	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net
WPCF			$0	$0	$0
SUBTOTAL NRC - FY25			$0	$0	$0

FY25	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
WPCF	FAIRFIELD BEACH ROAD STATION UPGRADE (Ttl Project = $3,720,816)	P	$1,503,210		$1,503,210
WPCF	FAIRFIELD BEACH ROAD FORCE MAIN (Ttl Project = $2,752,704)	P	$1,112,092		$1,112,092
WPCF	EAST TRUNK LINE REPLACEMENT (Ttl Project = $10,000,000)	P	$5,000,000	($1,500,000)	$3,500,000
WPCF	CENTER STREET PUMP STATION UPGRADE (Ttl Project = $1,776,194)	P	$1,058,612		$1,058,612
WPCF	CENTER STREET FORCE MAIN (Ttl Project = $3,451,611)	P	$2,057,160		$2,057,160
WPCF	KINGS HIGHWAY TRUNK DESIGN	P	$1,500,000		$1,500,000
SUBTOTAL CAPITAL - FY25			$12,231,074	($1,500,000)	$10,731,074
GRAND TOTAL - FY25			**$12,231,074**	**($1,500,000)**	**$10,731,074**

FY26	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net
WPCF					
SUBTOTAL NRC - FY26			$0	$0	$0

FY26	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
WPCF	WASTEWATER PLANT UPGRADE DESIGN	P	$4,000,000	($500,000)	$3,500,000
WPCF	CENTER STREET PUMP STATION UPGRADE (Ttl Project = $1,776,194)	P	$717,582		$717,582
WPCF	CENTER STREET FORCE MAIN (Ttl Project = $3,451,611)	P	$1,394,451		$1,394,451
WPCF	PINE CREEK STATION UPGRADE (Ttl Project = $3,716,150)	P	$2,214,826		$2,214,826
WPCF	PINE CREEK FORCE MAIN (Ttl Project = $944,784)	P	$563,091		$563,091
WPCF	KINGS HWY TRUNK CONSTRUCTION (Ttl Project = $10,000,000)	P	$2,000,000		$2,000,000
SUBTOTAL CAPITAL - FY26			$10,889,950	($500,000)	$10,389,950
GRAND TOTAL - FY26			**$10,889,950**	**($500,000)**	**$10,389,950**

FY27	NON- RECURRING CAPITAL (Under $1 million)	Cost	Reimbursement	Net
WPCF		$0	$0 *	$0
SUBTOTAL NRC - FY27		$0	$0	$0

FY27	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
WPCF	TOLLHOUSE STATION UPGRADE (Ttl Project = $1,689,727)	P	$1,007,077		$1,007,077

WPCF	TOLLHOUSE STATION FORCE MAIN (Ttl Project = $1,616,261)	P	$963,291		$963,291
WPCF	PINE CREEK STATION UPGRADE (Ttl Project = $3,716,150)	P	$1,501,325		$1,501,325
WPCF	PINE CREEK FORCE MAIN (Ttl Project = $944,784)	P	$381,693		$381,693
WPCF	RUANE & THORPE PIPE REPAIR/REPLACEMENT (Ttl Project = $1,322,395)	P	$788,148	($100,000)	$688,148
WPCF	KINGS HWY TRUNK CONSTRUCTION (Ttl Project = $10,000,000)	P	$3,960,000		$3,960,000
SUBTOTAL CAPITAL - FY27			$8,601,534	($100,000)	$8,501,534
GRAND TOTAL - FY27			**$8,601,534**	**($100,000)**	**$8,501,534**

FY28	**NON- RECURRING CAPITAL (Under $1 million)**	**Cost**	**Reimbursement**	**Net**
WPCF		$0	$0 *	$0
SUBTOTAL NRC - FY28		$0	$0	$0

FY28	**CAPITAL (Over $1 million)**				
WPCF	TOLLHOUSE STATION UPGRADE (Ttl Project = $1,689,727)	P	$682,650		$682,650
WPCF	TOLLHOUSE STATION FORCE MAIN (Ttl Project = $1,616,261)	P	$652,969		$652,969
WPCF	KINGS HWY TRUNK CONSTRUCTION (Ttl Project = $10,000,000)	P	$4,040,000		$4,040,000
WPCF	RUANE & THORPE PIPE REPAIR/REPLACEMENT (Ttl Project = $1,322,395)	P	$534,248	($100,000)	$434,248
WPCF	EASTFIELD STATION UPGRADE (Ttl Project = $1,083,835)	P	$645,966		$645,966
WPCF	EASTFIELD STATION FORCE MAIN (Ttl Project = $772,808)	P	$460,593		$460,593
SUBTOTAL CAPITAL - FY28			$7,016,426	($100,000)	$6,916,426
GRAND TOTAL - FY28			**$7,016,426**	**($100,000)**	**$6,916,426**

WPCF - ANTICIPATED COST OF PROJECTS
SCHEDULE OF CASH FLOW
FY29 THROUGH FY33

EXHIBIT 6
Fall 2022 Cap Plan

	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net
WPCF					
GRAND TOTAL NON-RECURRING CAPITAL - ALL FISCAL YEARS:			**$0**	**$0**	**$0**

	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
WPCF	MILL HILL STATION UPGRADE	P	$4,524,496		$4,524,496
WPCF	MILL HILL STATION FORCE MAIN	P	$2,570,736		$2,570,736
WPCF	WILLOW STREET STATION REPLACEMENT	P	$2,090,866		$2,090,866
WPCF	WILLOW STREET STATION FORCE MAIN	P	$908,327		$908,327
WPCF	WPCF RENOVATION ***	P	$120,000,000		$120,000,000
WPCF	FIVE HUNDRED KW GENERATOR/ATS REPLACEMENT	P	$5,000,000		$5,000,000
WPCF	COLLECTION SYSTEM FLOW STUDY	P	$5,000,000		$5,000,000
GRAND TOTAL CAPITAL - ALL FISCAL YEARS:			**$140,094,425**	**$0**	**$140,094,425**

*** Additional research, analysis, and evaluation is required to determine the scope, timing, and more precise cost of the project.

F-0439-011
September 8, 2020

Brian Carey
Conservation Director
Town of Fairfield
Old Town Hall
611 Old Post Road
Fairfield, Connecticut 06824

Re: **Sediment Sampling**
Turney Creek Outfall Improvements

Dear Mr. Carey:

Tighe & Bond has prepared this letter to document the results of the sediment sampling work conducted to support the Turney Creek Outfall Improvement project for the Town of Fairfield. The Turney Creek Outfall Bridge is part of Riverside Drive, spans Turney Creek, and is located adjacent to the intersection of Riverside Drive and Shoreham Terrace. The planned construction activities to replace the existing bridge and bulkhead/tide gate structures will require the disturbance and removal of sediment which has accumulated in the area of the bridge. For the purposes of this letter, the bridge and the area north and south of the bridge which will be impacted by construction and sediment removal activities will be referred to as the site.

Background

The anticipated bridge foundations will include driven piles and sheet piles that will require the excavation of approximately three to four feet of sediment from within and adjacent to the watercourse. Based on the concerns raised by the US Army Corps of Engineers (ACOE) of potential contamination present in these sediments, an environmental assessment was conducted at the site. The goal of the assessment was to determine the environmental condition of the sediment in the area of the bridge and to provide the Town with information for use in response to the ACOE.

Potentially impacted material could affect health and safety procedures during construction activities, adversely impact the environment, and/or impact waste disposal requirements and costs. The information presented in this letter will also be used to document existing sediment conditions in the construction/bid documents Tighe & Bond is preparing for the outfall/bridge improvement project project.

The potential sources of contamination identified by the ACOE include known petroleum and metal releases at the former Handy & Harman metals processing factory as well as the long history of industrial facilities operating along Ash Creek (since at least 1939).

A pilot test to determine the level of effort needed to penetrate the sediment was conducted on January 6, 2020. Based on the pilot test, a sampling method was devised and detailed in the Sediment Sampling Workplan submitted to the Town in May 2020. The Workplan also outlined the rationale for the analytical program which was implemented for the sediment samples. Based on the known contamination to soil and surface water at the former Handy and Hamon facility, as well as the historic and current commercial and industrial properties in the area, Tighe & Bond identified the following list of contaminants of concern (COCs) to be analyzed:

- Extractable Total Petroleum Hydrocarbons (ETPH),
- Volatile organic compounds (VOCs),

- Semi volatile organic compounds (SVOCs),
- Polychlorinated biphenyls (PCBs),
- RSR metals (which include the metals previously detected at the Handy and Hamon facility), and
- Pesticides

A waste characterization sample was also be collected. This sample will be submitted for laboratory analysis of the site specific COCs as well as the following parameters typically required to identify reuse or waste disposal options:

- Reactivity
- pH
- Ignitability
- Paint filter test

Sediment Sampling

Tighe & Bond oversaw the collection of sediment samples by Town of Fairfield employees on the northern and southern sides of the Turney Creek Outfall Bridge. A total of six sediment samples, three on each side of the bridge, were collected using a split spoon driven into the sediment utilizing hand tools. Sample locations were selected in the field based on accessibility and field observations such as areas of observed sediment accumulation. Sample locations are depicted on the attached Sediment Sampling Plan.

The sediment samples were screened in the field for visual or olfactory evidence of impact. In addition, a photoionization detector (PID) was used to screen the sediment for volatile organic vapors. PID reading ranged from 0.0 to 11 ppm in the sediments screened. In general, the sediment screened from 2-4 feet below ground surface (bgs) had lower PID measurements than the sediment screened in the upper 0-2 foot samples.

A faint petroleum odor and black staining was observed in the sediment samples collected from 0-2 feet bgs in sample locations SED-2, SED-4, and SED-5. Odors or staining were not observed in the deeper sample collected between 2-4 feet bgs at these locations. The sediment at sample location SED-6 contained visual petroleum staining and petroleum odors from 0-4 feet bgs. Indications of potential petroleum impact were not observed in the sediment at sample locations SED-1 and SED-3.

Based on the results of the field screening, six sediment samples identified as SED-1 through SED-6, were submitted to Phoenix Environmental Laboratories of Manchester, CT for analysis of a combination of the COCs identified above. The samples analyzed were collected from both the 0-2 foot and the 2-4 foot intervals in order to assess the sediment likely to be disturbed by construction activities.

Results

The purpose of the sediment assessment was to help guide proper health and safety procedures as well as sediment disposal options for the future bridge improvement project. The analytical results were compared to the Residential Direct Exposure Criteria (Res DEC) listed in the Connecticut Department of Energy and Environmental Protection (CTDEEP) Remediation Standard Regulations (RSRs). The RSRs do not apply to sediment remediation; however, comparison to the RES DEC was used as a screening parameter for potential health and safety concerns during future construction activities. Sediment is often compared to the National Oceanic and Atmospheric Administration (NOAA) Screening Quick Reference Tables (SQuiRTs) as a preliminary screening tool to identify areas that may require sediment remediation. As sediment remediation is outside the scope of the overall bridge reconstruction project, SQuiRT criteria were not utilized during this assessment.

EPTH was detected at concentrations above the Res DEC in sample SED-4 (0-2') and below the Res DEC in sample SED-5 (2'-4'). The remaining samples were not reported to contain concentrations of ETPH above laboratory reporting limits. However, elevated ETPH concentrations may be present in the 0-2-foot depth interval in other areas (sample locations SED-2, SED-5, and SED-6) where petroleum odors and staining were observed.

SVOCs were detected in each of the sediment samples analyzed. Three PAHs, benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene, were detected at concentrations above the Res DEC in sample SED-1 (0-2'). The remaining SVOC detections did not exceed the Res DEC.

Metal concentrations typical of soils and sediment found in Connecticut were reported in the six samples. The concentrations did not appear to indicate a release.

A common laboratory contaminant, carbon disulfide, was detected at a trace concentration in sample SED-3 (2'-4') and does not likely indicate a release of VOCs. No other VOCs were detected at concentrations above laboratory reporting limits.

Pesticides and PCBs were not reported at concentrations above laboratory reporting limits.

Waste characterization sample WC-1 was analyzed for parameters typically required for waste disposal facilities. The results of the waste characterization sample will be included in the construction/bid documents for use in managing the excavated sediments.

A summary table of the laboratory analytical results is attached as Table 1.

Summary and Conclusion

This memorandum was prepared to document the results of the sediment sampling work conducted to support the Turney Creek Outfall Improvement project for the Town of Fairfield. Six sediment samples were collected from the areas surrounding the bridge to assess the sediments likely to be disturbed during the bridge replacement project. The sample results indicate that sediments located on both sides of the bridge are known or suspected to be impacted with petroleum hydrocarbons.

Technical specifications and contractual requirements will be included in the construction/bid documents Tighe & Bond is preparing for the outfall/bridge improvement project to address sediment handling, management, and disposal options. We will also specify that the Contactor prepare a Health and Safety Plan to promote proper health and safety procedures and worker safety during construction.

Thank you for the opportunity to provide our services and we look forward to continuing to work with you on this project. If there are any questions or comments on these results, please contact Harley Langford at (860) 704-4781 or HALangford@tighebond.com.

TIGHE & BOND, INC.

Harley Langford, LEP
Project Manager

James T. Olsen, PG, LEP
Vice President

Attachments: Figure 1 – Environmental Sampling Plan
Table 1 – Sediment Sampling Results
Laboratory Report – June 17, 2020

LEGEND

- Sediment Sample Location
- CT Municipal Boundary

Tighe&Bond

Based on 2019 Statewide Leaf-Off Orthophotography, Courtesy of CTECO.

1:1,200

0 50 100

Feet

N

FIGURE 1
SEDIMENT SAMPLING PLAN

Turney Creek Outfall
Improvement Project
Fairfield, Connecticut

June 2020

V:\Projects\F\F0439\TurnkeyCreekBridgeProject_SedimentSitePlan.mxd [Exported By: smmorse, 6/26/2020, 12:55:35 PM]

F-0439

TABLE 1
Sediment Sampling Results
Fairfield Turney Creek Outfall
Fairfield, Connecticut

Sample Name	CTDEEP	SED-1	SED-2	SED-3	SED-4	SED-5	SED-6	WC-1
Sample Depth	RSR	0 - 2 ft	2 - 4 ft	2 - 4 ft	0 - 2 ft	2 - 4 ft	2 - 4 ft	Composite
Sample Date	Criteria	6/10/20	6/10/20	6/10/20	6/10/20	6/10/20	6/10/20	6/10/20
Lab Sample ID	RES DEC	CG10797	CG10800	CG10803	CG10802	CG10806	CG10808	CG10809
General Chemistry								
Flash Point (Deg F)	NS	-	-	-	-	-	-	<200
Ignitability (Deg F)	NS	-	-	-	-	-	-	<140
Paint Filter Test	NS	-	-	-	-	-	-	NEGATIVE
Percent Solid (%)	NS	80	76	77	73	84	72	73
pH	NS	-	-	-	-	-	-	7.71
Sulfide (Reactive) (mg/Kg)	NS	-	-	-	-	-	-	30
Cyanide (Reactive) (mg/Kg)	NS	-	-	-	-	-	-	<6
CT ETPH (mg/Kg)	500	<61	<65	<64	**520**	170	<69	<67
Metals 6010D (mg/Kg)								
Arsenic	10	1.91	<0.84	1.05	1.52	0.84	<0.86	1.5
Barium	4,700	25.8	18.7	27.7	26.1	54.1	12.8	26.1
Beryllium	2	<0.35	<0.34	0.32	<0.38	<0.33	<0.34	<0.34
Cadmium	34	1.31	2.33	1.43	1.21	0.83	1.98	2.29
Chromium (Total)	NS	15.2	9.52	19.7	16	11.3	8.11	12.7
Copper	2,500	47.2	71.3	17.6	67.9	36.5	17.6	63.7
Lead	400	35.4	18.8	7.37	22	11.7	9.04	25.6
Mercury	20	0.04	0.2	<0.03	0.12	<0.03	<0.04	0.18
Nickel	1,400	12	8.09	10.1	10.6	7.99	4.78	9.07
Silver	340	0.53	2.86	<0.40	1.25	<0.41	<0.43	1.49
Vanadium	470	25	15.3	19	18.6	27.1	9.19	15.7
Zinc	20,000	91.2	32.5	131	51.9	34.6	137	130
Pesticides 8081B (mg/Kg)	Varies	BRL	BRL	BRL	BRL	BRL	BRL	BRL
PCBs 8082A (mg/Kg)								
PCBs (Total)	1	BRL	BRL	BRL	BRL	BRL	BRL	BRL
VOCs 8260C (mg/Kg)								
Carbon disulfide	500	<0.006	<0.010	0.013	<0.009	-	<0.008	<0.008
SVOCs 8270D (mg/Kg)								
Acenaphthylene	1,000	0.54	<0.300	<0.300	<0.320	<0.270	<0.320	<0.320
Anthracene	1,000	0.45	<0.300	<0.300	<0.320	<0.270	<0.320	<0.320
Benzo(a)anthracene	1	**1.4**	<0.300	<0.300	0.35	0.67	<0.320	0.87
Benzo(a)pyrene	1	**1.3**	0.34	<0.300	0.42	0.67	<0.320	0.98
Benzo(b)fluoranthene	1	**1.1**	0.31	<0.300	0.42	0.51	<0.320	0.89
Benzo(g,h,i)perylene	8.4	0.79	<0.300	<0.300	<0.320	0.33	<0.320	0.59
Benzo(k)fluoranthene	8.4	1.1	<0.300	<0.300	0.34	0.47	<0.320	0.75
Chrysene	84	1.6	<0.300	<0.300	0.46	0.67	<0.320	1.1
Fluoranthene	1,000	3.4	0.44	<0.300	0.93	1.2	0.5	1.9
Indeno(1,2,3-cd)pyrene	1	0.77	<0.300	<0.300	<0.320	0.35	<0.320	0.59
Phenanthrene	1,000	2.4	<0.300	<0.300	0.41	0.41	<0.320	0.83
Pyrene	1,000	3.5	0.79	0.32	0.86	1.5	0.49	2.2

CTDEEP RSRs- Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (June 27, 2013)
CT ETPH- Connecticut Department of Public Health Extractable Total Petroleum Hydrocarbons
PCBs- Polychlorinated Biphenyls
VOCs- Volatile Organic Compounds
SVOCs- Semi-Volatile Organic Compounds
RES DEC-Residential Direct Exposure Criteria does not apply to sediment samples and are provided for comparison purposes only
Results presented in milligrams per kilogram (mg/kg)
Boxed and bolded values exceed criteria
NS- No standard
BRL - Below laboratory reporting limits
Only parameters reported above reporting limits are summarized above

PHOENIX
Environmental Laboratories, Inc.

Wednesday, June 17, 2020

Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: TURNEY CREEK OUTFALL
SDG ID: GCG10797
Sample ID#s: CG10797, CG10800, CG10802 - CG10803, CG10806, CG10808 - CG10809

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 are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

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

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

Sample Id Cross Reference

June 17, 2020

SDG I.D.: GCG10797

Project ID: TURNEY CREEK OUTFALL

Client Id	Lab Id	Matrix
SED-1 (0-2`)	CG10797	SEDIMENT
SED-2 (2-4`)	CG10800	SEDIMENT
SED-4 (0-2`)	CG10802	SEDIMENT
SED-3 (2-4`)	CG10803	SEDIMENT
SED-5 (2-4`)	CG10806	SEDIMENT
SED-6 (2-4`)	CG10808	SEDIMENT
WC-1	CG10809	SEDIMENT

Reference 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

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	9:30
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10797

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-1 (0-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.53	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	1.91	0.88	mg/Kg	1	06/11/20	TH	SW6010D
Barium	25.8	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	< 0.35	0.35	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	1.31	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	15.2	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Copper	47.2	0.9	mg/kg	1	06/11/20	TH	SW6010D
Mercury	0.04	0.03	mg/Kg	2	06/12/20	RS	SW7471B
Nickel	12.0	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Lead	35.4	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.4	4.4	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.8	1.8	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 4.0	4.0	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	25.0	0.44	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	91.2	0.9	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	80		%		06/10/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Mercury Digestion	Completed				06/12/20	VT/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/EE	SW3546
Soil Extraction for SVOA	Completed				06/10/20	KK/MA	SW3546
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	06/11/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/11/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	06/11/20	JRB	50 - 150 %

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-1 (0-2`)

Phoenix I.D.: CG10797

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1221	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1232	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1242	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1248	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1254	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1260	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1262	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1268	ND	420	ug/Kg	10	06/11/20	AW	SW8082A
QA/QC Surrogates							
% DCBP	94		%	10	06/11/20	AW	30 - 150 %
% DCBP (Confirmation)	71		%	10	06/11/20	AW	30 - 150 %
% TCMX	70		%	10	06/11/20	AW	30 - 150 %
% TCMX (Confirmation)	69		%	10	06/11/20	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Alachlor	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Chlordane	ND	40	ug/Kg	2	06/12/20	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Endrin	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor epoxide	ND	8.1	ug/Kg	2	06/12/20	CG	SW8081B
Methoxychlor	ND	40	ug/Kg	2	06/12/20	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	06/12/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	63		%	2	06/12/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	06/12/20	CG	30 - 150 %
% TCMX	57		%	2	06/12/20	CG	30 - 150 %
% TCMX (Confirmation)	50		%	2	06/12/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-1 (0-2`)

Phoenix I.D.: CG10797

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloroethene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloropropene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromoethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloroethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloropropane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichloropropane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
2,2-Dichloropropane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
2-Chlorotoluene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
2-Hexanone	ND	32	ug/Kg	1	06/12/20	JLI	SW8260C
2-Isopropyltoluene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
4-Chlorotoluene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	32	ug/Kg	1	06/12/20	JLI	SW8260C
Acetone	ND	320	ug/Kg	1	06/12/20	JLI	SW8260C
Acrylonitrile	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Benzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Bromobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Bromochloromethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Bromodichloromethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Bromoform	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Bromomethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon Disulfide	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon tetrachloride	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Chlorobenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroform	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Chloromethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromomethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Dichlorodifluoromethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Ethylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Hexachlorobutadiene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Isopropylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
m&p-Xylene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	06/12/20	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	06/12/20	JLI	SW8260C
Naphthalene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-1 (0-2`)

Phoenix I.D.: CG10797

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
n-Propylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
o-Xylene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
p-Isopropyltoluene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
sec-Butylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Styrene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
tert-Butylbenzene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrachloroethene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	06/12/20	JLI	SW8260C
Toluene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Total Xylenes	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	06/12/20	JLI	SW8260C
Trichloroethene	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorofluoromethane	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	06/12/20	JLI	SW8260C
Vinyl chloride	ND	6.3	ug/Kg	1	06/12/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/12/20	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	06/12/20	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	06/12/20	JLI	70 - 130 %
% Toluene-d8	99		%	1	06/12/20	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	AW	SW8270D
1,2,4-Trichlorobenzene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
1,2-Dichlorobenzene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
1,3-Dichlorobenzene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
1,4-Dichlorobenzene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2,4,5-Trichlorophenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dichlorophenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dimethylphenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2-Chloronaphthalene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2-Chlorophenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2-Methylnaphthalene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2-Methylphenol (o-cresol)	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Nitrophenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	1	06/11/20	AW	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Bromophenyl phenyl ether	ND	410	ug/Kg	1	06/11/20	AW	SW8270D
4-Chloro-3-methylphenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-1 (0-2`)

Phoenix I.D.: CG10797

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Nitrophenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Acenaphthene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Acenaphthylene	540	290	ug/Kg	1	06/11/20	AW	SW8270D
Acetophenone	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Anthracene	450	290	ug/Kg	1	06/11/20	AW	SW8270D
Benz(a)anthracene	1400	290	ug/Kg	1	06/11/20	AW	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(a)pyrene	1300	290	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(b)fluoranthene	1100	290	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(ghi)perylene	790	290	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(k)fluoranthene	1100	290	ug/Kg	1	06/11/20	AW	SW8270D
Benzoic acid	ND	830	ug/Kg	1	06/11/20	AW	SW8270D
Benzyl butyl phthalate	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroethyl)ether	ND	410	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Chrysene	1600	290	ug/Kg	1	06/11/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Diethyl phthalate	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Dimethylphthalate	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Di-n-butylphthalate	ND	410	ug/Kg	1	06/11/20	AW	SW8270D
Di-n-octylphthalate	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Fluoranthene	3400	290	ug/Kg	1	06/11/20	AW	SW8270D
Fluorene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorobenzene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorocyclopentadiene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Hexachloroethane	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	770	290	ug/Kg	1	06/11/20	AW	SW8270D
Isophorone	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Naphthalene	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	AW	SW8270D
Pentachlorophenol	ND	410	ug/Kg	1	06/11/20	AW	SW8270D
Phenanthrene	2400	290	ug/Kg	1	06/11/20	AW	SW8270D
Phenol	ND	290	ug/Kg	1	06/11/20	AW	SW8270D
Pyrene	3500	290	ug/Kg	1	06/11/20	AW	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D

QA/QC Surrogates

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-1 (0-2`)

Phoenix I.D.: CG10797

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	102		%	1	06/11/20	AW	30 - 130 %
% 2-Fluorobiphenyl	68		%	1	06/11/20	AW	30 - 130 %
% 2-Fluorophenol	60		%	1	06/11/20	AW	30 - 130 %
% Nitrobenzene-d5	68		%	1	06/11/20	AW	30 - 130 %
% Phenol-d5	65		%	1	06/11/20	AW	30 - 130 %
% Terphenyl-d14	94		%	1	06/11/20	AW	30 - 130 %
Field Extraction	Completed				06/10/20		SW5035A

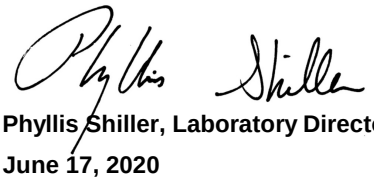
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 17, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Reference 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

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	10:15
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10800

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-2 (2-4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	2.86	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	< 0.84	0.84	mg/Kg	1	06/11/20	TH	SW6010D
Barium	18.7	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	< 0.34	0.34	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	2.33	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	9.52	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Copper	71.3	0.8	mg/kg	1	06/11/20	TH	SW6010D
Mercury	0.20	0.03	mg/Kg	2	06/15/20	RS	SW7471B
Nickel	8.09	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Lead	18.8	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 3.8	3.8	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	15.3	0.42	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	32.5	0.8	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	76		%		06/10/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Mercury Digestion	Completed				06/15/20	VT/KL/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/EE	SW3546
Soil Extraction for SVOA	Completed				06/10/20	KK/MA	SW3546
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	06/11/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/11/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	06/11/20	JRB	50 - 150 %

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-2 (2-4`)

Phoenix I.D.: CG10800

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1221	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1232	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1242	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1248	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1254	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1260	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1262	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1268	ND	440	ug/Kg	10	06/11/20	AW	SW8082A
QA/QC Surrogates							
% DCBP	100		%	10	06/11/20	AW	30 - 150 %
% DCBP (Confirmation)	93		%	10	06/11/20	AW	30 - 150 %
% TCMX	87		%	10	06/11/20	AW	30 - 150 %
% TCMX (Confirmation)	87		%	10	06/11/20	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDT	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
a-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Alachlor	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Aldrin	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
b-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Chlordane	ND	43	ug/Kg	2	06/12/20	CG	SW8081B
d-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan II	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endrin	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
g-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor epoxide	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Methoxychlor	ND	43	ug/Kg	2	06/12/20	CG	SW8081B
Toxaphene	ND	170	ug/Kg	2	06/12/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	40		%	2	06/12/20	CG	30 - 150 %
% DCBP (Confirmation)	37		%	2	06/12/20	CG	30 - 150 %
% TCMX	34		%	2	06/12/20	CG	30 - 150 %
% TCMX (Confirmation)	31		%	2	06/12/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.1	ug/Kg	1	06/11/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-2 (2-4`)

Phoenix I.D.: CG10800

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1-Dichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1-Dichloropropene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,3-Dichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
2,2-Dichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
2-Chlorotoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
2-Hexanone	ND	51	ug/Kg	1	06/11/20	JLI	SW8260C
2-Isopropyltoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
4-Chlorotoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	51	ug/Kg	1	06/11/20	JLI	SW8260C
Acetone	ND	510	ug/Kg	1	06/11/20	JLI	SW8260C
Acrylonitrile	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Benzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromochloromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromodichloromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromoform	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromomethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Carbon Disulfide	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Carbon tetrachloride	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chloroform	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chloromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Dibromochloromethane	ND	6.1	ug/Kg	1	06/11/20	JLI	SW8260C
Dibromomethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Dichlorodifluoromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Ethylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Hexachlorobutadiene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Isopropylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
m&p-Xylene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	61	ug/Kg	1	06/11/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Methylene chloride	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Naphthalene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-2 (2-4`)

Phoenix I.D.: CG10800

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
n-Propylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
o-Xylene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
p-Isopropyltoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
sec-Butylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Styrene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
tert-Butylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Tetrachloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Toluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Total Xylenes	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Trichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Trichlorofluoromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Vinyl chloride	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	06/11/20	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	06/11/20	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	06/11/20	JLI	70 - 130 %
% Toluene-d8	98		%	1	06/11/20	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	AW	SW8270D
1,2,4-Trichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
1,2-Dichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
1,3-Dichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
1,4-Dichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4,5-Trichlorophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dichlorophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dimethylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2-Chloronaphthalene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Chlorophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Methylnaphthalene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Methylphenol (o-cresol)	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Nitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Bromophenyl phenyl ether	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
4-Chloro-3-methylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-2 (2-4`)

Phoenix I.D.: CG10800

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Nitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Acenaphthene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Acetophenone	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Anthracene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(a)pyrene	340	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(b)fluoranthene	310	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzoic acid	ND	860	ug/Kg	1	06/11/20	AW	SW8270D
Benzyl butyl phthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroethyl)ether	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Chrysene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Diethyl phthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Dimethylphthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Di-n-butylphthalate	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
Di-n-octylphthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Fluoranthene	440	300	ug/Kg	1	06/11/20	AW	SW8270D
Fluorene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorocyclopentadiene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Hexachloroethane	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Isophorone	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Naphthalene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	AW	SW8270D
Pentachlorophenol	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
Phenanthrene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Phenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Pyrene	790	300	ug/Kg	1	06/11/20	AW	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D

QA/QC Surrogates

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-2 (2-4`)

Phoenix I.D.: CG10800

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	93		%	1	06/11/20	AW	30 - 130 %
% 2-Fluorobiphenyl	63		%	1	06/11/20	AW	30 - 130 %
% 2-Fluorophenol	57		%	1	06/11/20	AW	30 - 130 %
% Nitrobenzene-d5	61		%	1	06/11/20	AW	30 - 130 %
% Phenol-d5	60		%	1	06/11/20	AW	30 - 130 %
% Terphenyl-d14	84		%	1	06/11/20	AW	30 - 130 %
Field Extraction	Completed				06/10/20		SW5035A

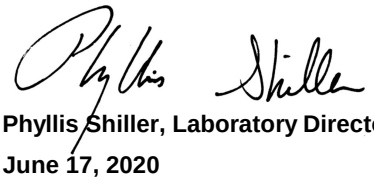
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 17, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Reference 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

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	11:00
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10802

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-4 (0-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	1.25	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	1.52	0.94	mg/Kg	1	06/11/20	TH	SW6010D
Barium	26.1	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	< 0.38	0.38	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	1.21	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	16.0	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Copper	67.9	0.9	mg/kg	1	06/11/20	TH	SW6010D
Mercury	0.12	0.03	mg/Kg	2	06/15/20	RS	SW7471B
Nickel	10.6	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Lead	22.0	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.7	4.7	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.9	1.9	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 4.2	4.2	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	18.6	0.47	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	51.9	0.9	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	73		%		06/10/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Soil Extraction for SVOA	Completed				06/10/20	RK/MA	SW3546
Mercury Digestion	Completed				06/15/20	VT/KL/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/EE	SW3546
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	520	68	mg/Kg	1	06/12/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/12/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	1	06/12/20	JRB	50 - 150 %

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-4 (0-2`)

Phoenix I.D.: CG10802

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By		
PCB (Soxhlet SW3540C)								
PCB-1016	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1221	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1232	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1242	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1248	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1254	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1260	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1262	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
PCB-1268	ND	450	ug/Kg	10	06/11/20	AW	SW8082A	
QA/QC Surrogates								
% DCBP	117		%	10	06/11/20	AW	30 - 150 %	
% DCBP (Confirmation)	118		%	10	06/11/20	AW	30 - 150 %	
% TCMX	117		%	10	06/11/20	AW	30 - 150 %	
% TCMX (Confirmation)	109		%	10	06/11/20	AW	30 - 150 %	
Pesticides								
4,4' -DDD	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
4,4' -DDE	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
4,4' -DDT	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
a-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
Alachlor	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Aldrin	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
b-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
Chlordane	ND	44	ug/Kg	2	06/12/20	CG	SW8081B	
d-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
Dieldrin	ND	4.4	ug/Kg	2	06/12/20	CG	SW8081B	
Endosulfan I	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Endosulfan II	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Endosulfan sulfate	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Endrin	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Endrin aldehyde	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Endrin ketone	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
g-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B	
Heptachlor	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Heptachlor epoxide	ND	8.9	ug/Kg	2	06/12/20	CG	SW8081B	
Methoxychlor	ND	44	ug/Kg	2	06/12/20	CG	SW8081B	
Toxaphene	ND	180	ug/Kg	2	06/12/20	CG	SW8081B	
QA/QC Surrogates								
% DCBP	34		%	2	06/12/20	CG	30 - 150 %	
% DCBP (Confirmation)	33		%	2	06/12/20	CG	30 - 150 %	
% TCMX	30		%	2	06/12/20	CG	30 - 150 %	
% TCMX (Confirmation)	28		%	2	06/12/20	CG	30 - 150 %	3
Volatiles								
1,1,1,2-Tetrachloroethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C	
1,1,1-Trichloroethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.3	ug/Kg	1	06/12/20	JLI	SW8260C	
1,1,2-Trichloroethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C	

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-4 (0-2`)

Phoenix I.D.: CG10802

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloroethene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloropropene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloroethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloropropane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichloropropane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
2,2-Dichloropropane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
2-Chlorotoluene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
2-Hexanone	ND	44	ug/Kg	1	06/12/20	JLI	SW8260C
2-Isopropyltoluene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
4-Chlorotoluene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	44	ug/Kg	1	06/12/20	JLI	SW8260C
Acetone	ND	440	ug/Kg	1	06/12/20	JLI	SW8260C
Acrylonitrile	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Benzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromochloromethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromodichloromethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromoform	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromomethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon Disulfide	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon tetrachloride	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chlorobenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroform	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chloromethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromochloromethane	ND	5.3	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromomethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Dichlorodifluoromethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Ethylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Hexachlorobutadiene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Isopropylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
m&p-Xylene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	53	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	18	ug/Kg	1	06/12/20	JLI	SW8260C
Methylene chloride	ND	18	ug/Kg	1	06/12/20	JLI	SW8260C
Naphthalene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-4 (0-2`)

Phoenix I.D.: CG10802

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
n-Propylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
o-Xylene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
p-Isopropyltoluene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
sec-Butylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Styrene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
tert-Butylbenzene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrachloroethene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	18	ug/Kg	1	06/12/20	JLI	SW8260C
Toluene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Total Xylenes	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	18	ug/Kg	1	06/12/20	JLI	SW8260C
Trichloroethene	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorofluoromethane	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	18	ug/Kg	1	06/12/20	JLI	SW8260C
Vinyl chloride	ND	8.8	ug/Kg	1	06/12/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/12/20	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	06/12/20	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	06/12/20	JLI	70 - 130 %
% Toluene-d8	96		%	1	06/12/20	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	WB	SW8270D
1,2,4-Trichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
1,3-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,4-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4,5-Trichlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dichlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dimethylphenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2-Chloronaphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Chlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylnaphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylphenol (o-cresol)	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitrophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Bromophenyl phenyl ether	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
4-Chloro-3-methylphenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-4 (0-2`)

Phoenix I.D.: CG10802

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitrophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acetophenone	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benz(a)anthracene	350	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(a)pyrene	420	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(b)fluoranthene	420	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(ghi)perylene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(k)fluoranthene	340	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzoic acid	ND	900	ug/Kg	1	06/11/20	WB	SW8270D
Benzyl butyl phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethyl)ether	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Chrysene	460	320	ug/Kg	1	06/11/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Diethyl phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dimethylphthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-butylphthalate	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-octylphthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Fluoranthene	930	320	ug/Kg	1	06/11/20	WB	SW8270D
Fluorene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorocyclopentadiene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachloroethane	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Isophorone	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Naphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	WB	SW8270D
Pentachlorophenol	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
Phenanthrene	410	320	ug/Kg	1	06/11/20	WB	SW8270D
Phenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Pyrene	860	320	ug/Kg	1	06/11/20	WB	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D

QA/QC Surrogates

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-4 (0-2`)

Phoenix I.D.: CG10802

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	93		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorobiphenyl	61		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorophenol	63		%	1	06/11/20	WB	30 - 130 %
% Nitrobenzene-d5	63		%	1	06/11/20	WB	30 - 130 %
% Phenol-d5	69		%	1	06/11/20	WB	30 - 130 %
% Terphenyl-d14	80		%	1	06/11/20	WB	30 - 130 %
Field Extraction	Completed				06/10/20		SW5035A

3 = This parameter exceeds laboratory specified limits.

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.

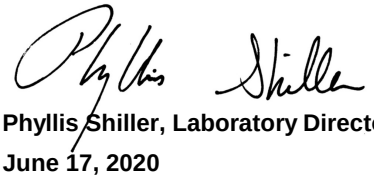
Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C12 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 17, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Reference 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

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	10:45
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10803

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-3 (2-4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	1.05	0.80	mg/Kg	1	06/11/20	TH	SW6010D
Barium	27.7	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	0.32	0.32	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	1.43	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	19.7	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Copper	17.6	0.8	mg/kg	1	06/11/20	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	06/15/20	RS	SW7471B
Nickel	10.1	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Lead	7.37	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 3.6	3.6	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	19.0	0.40	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	131	0.8	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	77		%		06/10/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Mercury Digestion	Completed				06/15/20	VT/KL/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/EE	SW3546
Soil Extraction for SVOA	Completed				06/10/20	KK/MA	SW3546
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	06/11/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/11/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	1	06/11/20	JRB	50 - 150 %

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-3 (2-4`)

Phoenix I.D.: CG10803

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1221	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1232	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1242	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1248	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1254	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1260	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1262	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1268	ND	430	ug/Kg	10	06/11/20	AW	SW8082A
QA/QC Surrogates							
% DCBP	123		%	10	06/11/20	AW	30 - 150 %
% DCBP (Confirmation)	127		%	10	06/11/20	AW	30 - 150 %
% TCMX	128		%	10	06/11/20	AW	30 - 150 %
% TCMX (Confirmation)	127		%	10	06/11/20	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDT	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
a-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Alachlor	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Aldrin	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
b-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Chlordane	ND	43	ug/Kg	2	06/12/20	CG	SW8081B
d-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan II	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endrin	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
g-BHC	ND	1.7	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor epoxide	ND	8.6	ug/Kg	2	06/12/20	CG	SW8081B
Methoxychlor	ND	43	ug/Kg	2	06/12/20	CG	SW8081B
Toxaphene	ND	170	ug/Kg	2	06/12/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	65		%	2	06/12/20	CG	30 - 150 %
% DCBP (Confirmation)	57		%	2	06/12/20	CG	30 - 150 %
% TCMX	56		%	2	06/12/20	CG	30 - 150 %
% TCMX (Confirmation)	49		%	2	06/12/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	1	06/11/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-3 (2-4`)

Phoenix I.D.: CG10803

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1-Dichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,1-Dichloropropene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dichloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,2-Dichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,3-Dichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
2,2-Dichloropropane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
2-Chlorotoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
2-Hexanone	ND	50	ug/Kg	1	06/11/20	JLI	SW8260C
2-Isopropyltoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
4-Chlorotoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	50	ug/Kg	1	06/11/20	JLI	SW8260C
Acetone	ND	500	ug/Kg	1	06/11/20	JLI	SW8260C
Acrylonitrile	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Benzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromochloromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromodichloromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromoform	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Bromomethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Carbon Disulfide	13	10	ug/Kg	1	06/11/20	JLI	SW8260C
Carbon tetrachloride	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chlorobenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chloroethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chloroform	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Chloromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Dibromochloromethane	ND	6.0	ug/Kg	1	06/11/20	JLI	SW8260C
Dibromomethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Dichlorodifluoromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Ethylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Hexachlorobutadiene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Isopropylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
m&p-Xylene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	60	ug/Kg	1	06/11/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Methylene chloride	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Naphthalene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-3 (2-4`)

Phoenix I.D.: CG10803

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
n-Propylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
o-Xylene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
p-Isopropyltoluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
sec-Butylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Styrene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
tert-Butylbenzene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Tetrachloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Toluene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Total Xylenes	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Trichloroethene	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Trichlorofluoromethane	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	20	ug/Kg	1	06/11/20	JLI	SW8260C
Vinyl chloride	ND	10	ug/Kg	1	06/11/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/11/20	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	06/11/20	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	06/11/20	JLI	70 - 130 %
% Toluene-d8	97		%	1	06/11/20	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	AW	SW8270D
1,2,4-Trichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
1,2-Dichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
1,3-Dichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
1,4-Dichlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4,5-Trichlorophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dichlorophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dimethylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
2-Chloronaphthalene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Chlorophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Methylnaphthalene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Methylphenol (o-cresol)	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
2-Nitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Bromophenyl phenyl ether	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
4-Chloro-3-methylphenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-3 (2-4`)

Phoenix I.D.: CG10803

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
4-Nitrophenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Acenaphthene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Acetophenone	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Anthracene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Benzoic acid	ND	860	ug/Kg	1	06/11/20	AW	SW8270D
Benzyl butyl phthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroethyl)ether	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Chrysene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Diethyl phthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Dimethylphthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Di-n-butylphthalate	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
Di-n-octylphthalate	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Fluoranthene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Fluorene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorobenzene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Hexachlorocyclopentadiene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Hexachloroethane	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Isophorone	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Naphthalene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	AW	SW8270D
Pentachlorophenol	ND	430	ug/Kg	1	06/11/20	AW	SW8270D
Phenanthrene	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Phenol	ND	300	ug/Kg	1	06/11/20	AW	SW8270D
Pyrene	320	300	ug/Kg	1	06/11/20	AW	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	AW	SW8270D

QA/QC Surrogates

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-3 (2-4`)

Phoenix I.D.: CG10803

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	93		%	1	06/11/20	AW	30 - 130 %
% 2-Fluorobiphenyl	65		%	1	06/11/20	AW	30 - 130 %
% 2-Fluorophenol	57		%	1	06/11/20	AW	30 - 130 %
% Nitrobenzene-d5	63		%	1	06/11/20	AW	30 - 130 %
% Phenol-d5	62		%	1	06/11/20	AW	30 - 130 %
% Terphenyl-d14	93		%	1	06/11/20	AW	30 - 130 %
Field Extraction	Completed				06/10/20		SW5035A

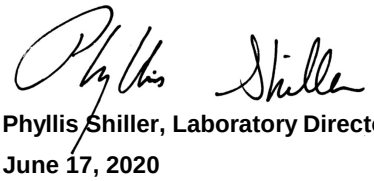
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 17, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Reference 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

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	11:45
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10806

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-5 (2-4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	0.84	0.83	mg/Kg	1	06/11/20	TH	SW6010D
Barium	54.1	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	< 0.33	0.33	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	0.83	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	11.3	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Copper	36.5	0.8	mg/kg	1	06/11/20	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	06/15/20	RS	SW7471B
Nickel	7.99	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Lead	11.7	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.1	4.1	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 3.7	3.7	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	27.1	0.41	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	34.6	0.8	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	84		%		06/10/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Soil Extraction for SVOA	Completed				06/10/20	RK/MA	SW3546
Mercury Digestion	Completed				06/15/20	VT/KL/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/EE	SW3546
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	170	58	mg/Kg	1	06/12/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/12/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	1	06/12/20	JRB	50 - 150 %

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-5 (2-4`)

Phoenix I.D.: CG10806

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1221	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1232	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1242	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1248	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1254	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1260	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1262	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1268	ND	390	ug/Kg	10	06/11/20	AW	SW8082A
QA/QC Surrogates							
% DCBP	110		%	10	06/11/20	AW	30 - 150 %
% DCBP (Confirmation)	106		%	10	06/11/20	AW	30 - 150 %
% TCMX	110		%	10	06/11/20	AW	30 - 150 %
% TCMX (Confirmation)	108		%	10	06/11/20	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Alachlor	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Chlordane	ND	39	ug/Kg	2	06/12/20	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	06/12/20	CG	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Endrin	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
g-BHC	ND	2.0	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	06/12/20	CG	SW8081B
Methoxychlor	ND	39	ug/Kg	2	06/12/20	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	06/12/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	54		%	2	06/12/20	CG	30 - 150 %
% DCBP (Confirmation)	47		%	2	06/12/20	CG	30 - 150 %
% TCMX	47		%	2	06/12/20	CG	30 - 150 %
% TCMX (Confirmation)	41		%	2	06/12/20	CG	30 - 150 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	WB	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Dichlorobenzene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-5 (2-4`)

Phoenix I.D.: CG10806

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,3-Dichlorobenzene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	06/11/20	WB	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	06/11/20	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitrophenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Acetophenone	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Benz(a)anthracene	670	270	ug/Kg	1	06/11/20	WB	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(a)pyrene	670	270	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(b)fluoranthene	510	270	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(ghi)perylene	330	270	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(k)fluoranthene	470	270	ug/Kg	1	06/11/20	WB	SW8270D
Benzoic acid	ND	770	ug/Kg	1	06/11/20	WB	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Chrysene	670	270	ug/Kg	1	06/11/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-butylphthalate	ND	390	ug/Kg	1	06/11/20	WB	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-5 (2-4`)

Phoenix I.D.: CG10806

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Di-n-octylphthalate	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Fluoranthene	1200	270	ug/Kg	1	06/11/20	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	350	270	ug/Kg	1	06/11/20	WB	SW8270D
Isophorone	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	WB	SW8270D
Pentachlorophenol	ND	390	ug/Kg	1	06/11/20	WB	SW8270D
Phenanthrene	410	270	ug/Kg	1	06/11/20	WB	SW8270D
Phenol	ND	270	ug/Kg	1	06/11/20	WB	SW8270D
Pyrene	1500	270	ug/Kg	1	06/11/20	WB	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	90		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorobiphenyl	63		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorophenol	63		%	1	06/11/20	WB	30 - 130 %
% Nitrobenzene-d5	62		%	1	06/11/20	WB	30 - 130 %
% Phenol-d5	68		%	1	06/11/20	WB	30 - 130 %
% Terphenyl-d14	79		%	1	06/11/20	WB	30 - 130 %

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.

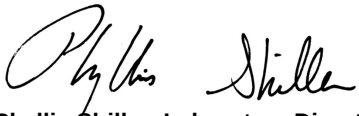
Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 17, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Reference 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

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	12:15
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10808

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-6 (2-4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	< 0.86	0.86	mg/Kg	1	06/11/20	TH	SW6010D
Barium	12.8	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	< 0.34	0.34	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	1.98	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	8.11	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Copper	17.6	0.9	mg/kg	1	06/11/20	TH	SW6010D
Mercury	< 0.04	0.04	mg/Kg	2	06/15/20	RS	SW7471B
Nickel	4.78	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Lead	9.04	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.3	4.3	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 3.9	3.9	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	9.19	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	137	0.9	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	72		%		06/10/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Soil Extraction for SVOA	Completed				06/10/20	RK/MA	SW3546
Mercury Digestion	Completed				06/15/20	VT/KL/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/EE	SW3546
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	06/12/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/12/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	1	06/12/20	JRB	50 - 150 %

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-6 (2-4`)

Phoenix I.D.: CG10808

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
PCB-1016	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1221	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1232	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1242	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1248	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1254	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1260	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1262	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1268	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
QA/QC Surrogates							
% DCBP	89		%	10	06/11/20	AW	30 - 150 %
% DCBP (Confirmation)	91		%	10	06/11/20	AW	30 - 150 %
% TCMX	82		%	10	06/11/20	AW	30 - 150 %
% TCMX (Confirmation)	82		%	10	06/11/20	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDE	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDT	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
a-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Alachlor	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Aldrin	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
b-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Chlordane	ND	45	ug/Kg	2	06/12/20	CG	SW8081B
d-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Dieldrin	ND	4.5	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan I	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan II	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan sulfate	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Endrin	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Endrin aldehyde	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Endrin ketone	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
g-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor epoxide	ND	9.0	ug/Kg	2	06/12/20	CG	SW8081B
Methoxychlor	ND	45	ug/Kg	2	06/12/20	CG	SW8081B
Toxaphene	ND	180	ug/Kg	2	06/12/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	42		%	2	06/12/20	CG	30 - 150 %
% DCBP (Confirmation)	39		%	2	06/12/20	CG	30 - 150 %
% TCMX	35		%	2	06/12/20	CG	30 - 150 %
% TCMX (Confirmation)	31		%	2	06/12/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.7	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-6 (2-4`)

Phoenix I.D.: CG10808

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,1-Dichloroethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloroethene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloropropene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloroethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloropropane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichloropropane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
2,2-Dichloropropane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
2-Chlorotoluene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
2-Hexanone	ND	39	ug/Kg	1	06/12/20	JLI	SW8260C
2-Isopropyltoluene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
4-Chlorotoluene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	39	ug/Kg	1	06/12/20	JLI	SW8260C
Acetone	ND	390	ug/Kg	1	06/12/20	JLI	SW8260C
Acrylonitrile	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Benzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromochloromethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromodichloromethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromoform	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Bromomethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon Disulfide	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon tetrachloride	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chlorobenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroform	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Chloromethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromochloromethane	ND	4.7	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromomethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Dichlorodifluoromethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Ethylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Hexachlorobutadiene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Isopropylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
m&p-Xylene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	47	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	06/12/20	JLI	SW8260C
Methylene chloride	ND	16	ug/Kg	1	06/12/20	JLI	SW8260C
Naphthalene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
n-Butylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
n-Propylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
o-Xylene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
p-Isopropyltoluene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
sec-Butylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Styrene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
tert-Butylbenzene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrachloroethene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	06/12/20	JLI	SW8260C
Toluene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Total Xylenes	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	1	06/12/20	JLI	SW8260C
Trichloroethene	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorofluoromethane	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	16	ug/Kg	1	06/12/20	JLI	SW8260C
Vinyl chloride	ND	7.8	ug/Kg	1	06/12/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/12/20	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	06/12/20	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	06/12/20	JLI	70 - 130 %
% Toluene-d8	95		%	1	06/12/20	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	WB	SW8270D
1,2,4-Trichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
1,3-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,4-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4,5-Trichlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dichlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dimethylphenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2-Chloronaphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Chlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylnaphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylphenol (o-cresol)	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitrophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	460	ug/Kg	1	06/11/20	WB	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Bromophenyl phenyl ether	ND	460	ug/Kg	1	06/11/20	WB	SW8270D
4-Chloro-3-methylphenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-6 (2-4`)

Phoenix I.D.: CG10808

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitrophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acetophenone	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benz(a)anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(a)pyrene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(b)fluoranthene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(ghi)perylene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(k)fluoranthene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzoic acid	ND	920	ug/Kg	1	06/11/20	WB	SW8270D
Benzyl butyl phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethyl)ether	ND	460	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Chrysene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Diethyl phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dimethylphthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-butylphthalate	ND	460	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-octylphthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Fluoranthene	500	320	ug/Kg	1	06/11/20	WB	SW8270D
Fluorene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorocyclopentadiene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachloroethane	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Isophorone	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Naphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	WB	SW8270D
Pentachlorophenol	ND	460	ug/Kg	1	06/11/20	WB	SW8270D
Phenanthrene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Phenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Pyrene	490	320	ug/Kg	1	06/11/20	WB	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D

QA/QC Surrogates

Project ID: TURNEY CREEK OUTFALL
Client ID: SED-6 (2-4`)

Phoenix I.D.: CG10808

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% 2,4,6-Tribromophenol	82		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorobiphenyl	56		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorophenol	57		%	1	06/11/20	WB	30 - 130 %
% Nitrobenzene-d5	55		%	1	06/11/20	WB	30 - 130 %
% Phenol-d5	64		%	1	06/11/20	WB	30 - 130 %
% Terphenyl-d14	72		%	1	06/11/20	WB	30 - 130 %
Field Extraction	Completed				06/10/20		SW5035A

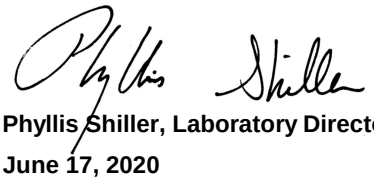
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 17, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Reference 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

June 17, 2020

FOR: Attn: Mr. Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/10/20	13:00
Location Code:	TIGHE-DAS	Received by:	LB	06/10/20	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCG10797
Phoenix ID: CG10809

Project ID: TURNEY CREEK OUTFALL
Client ID: WC-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	1.49	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Arsenic	1.50	0.86	mg/Kg	1	06/11/20	TH	SW6010D
Barium	26.1	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Beryllium	< 0.34	0.34	mg/Kg	1	06/11/20	TH	SW6010D
Cadmium	2.29	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Chromium	12.7	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Copper	63.7	0.9	mg/kg	1	06/11/20	TH	SW6010D
Mercury	0.18	0.03	mg/Kg	2	06/15/20	RS	SW7471B
Nickel	9.07	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Lead	25.6	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Antimony	< 4.3	4.3	mg/Kg	1	06/11/20	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	06/11/20	TH	SW6010D
Thallium	< 3.9	3.9	mg/Kg	1	06/11/20	TH	SW6010D
Vanadium	15.7	0.43	mg/Kg	1	06/11/20	TH	SW6010D
Zinc	130	0.9	mg/Kg	1	06/11/20	TH	SW6010D
Percent Solid	73		%		06/10/20	HB	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	06/10/20	AP	SW846-Corr
Flash Point	>200	200	Degree F	1	06/12/20	BJA	1010/CH7/ASTMD92
Ignitability	Passed	140	degree F	1	06/12/20	BJA	SW846-Ignit
pH at 25C - Soil	7.71	1.00	pH Units	1	06/10/20 23:48	AP	SW846 9045
Reactivity Cyanide	< 6	6	mg/Kg	1	06/12/20	KT/GD	SW846 7.3.3.1/90
Reactivity Sulfide	30.1	20	mg/Kg	1	06/12/20	KT/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	06/12/20	KT/GD	SW846-React
Soil Extraction for Pesticide	Completed				06/11/20	LL/AA	SW3545A
Soil Extraction for SVOA	Completed				06/10/20	RK/EE	SW3546
Mercury Digestion	Completed				06/15/20	VT/KL/VT	SW7471B
Extraction of CT ETPH	Completed				06/10/20	LG/MA	SW3546
Paint Filter Test	Failed		PASS/FAIL		06/10/20	R	SW9095B

Ver 1

Project ID: TURNEY CREEK OUTFALL
Client ID: WC-1

Phoenix I.D.: CG10809

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Extraction for PCB	Completed				06/10/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				06/10/20	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	67	mg/Kg	1	06/12/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/12/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	57		%	1	06/12/20	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1221	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1232	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1242	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1248	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1254	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1260	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1262	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
PCB-1268	ND	450	ug/Kg	10	06/11/20	AW	SW8082A
QA/QC Surrogates							
% DCBP	83		%	10	06/11/20	AW	30 - 150 %
% DCBP (Confirmation)	77		%	10	06/11/20	AW	30 - 150 %
% TCMX	75		%	10	06/11/20	AW	30 - 150 %
% TCMX (Confirmation)	74		%	10	06/11/20	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDE	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
4,4' -DDT	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
a-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Alachlor	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Aldrin	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
b-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Chlordane	ND	45	ug/Kg	2	06/12/20	CG	SW8081B
d-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Dieldrin	ND	4.5	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan I	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan II	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Endosulfan sulfate	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Endrin	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Endrin aldehyde	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Endrin ketone	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
g-BHC	ND	1.8	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Heptachlor epoxide	ND	9.1	ug/Kg	2	06/12/20	CG	SW8081B
Methoxychlor	ND	45	ug/Kg	2	06/12/20	CG	SW8081B
Toxaphene	ND	180	ug/Kg	2	06/12/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	48		%	2	06/12/20	CG	30 - 150 %
% DCBP (Confirmation)	49		%	2	06/12/20	CG	30 - 150 %

Project ID: TURNEY CREEK OUTFALL
Client ID: WC-1

Phoenix I.D.: CG10809

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% TCMX	44		%	2	06/12/20	CG	30 - 150 %
% TCMX (Confirmation)	43		%	2	06/12/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloroethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloroethene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,1-Dichloropropene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloroethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,2-Dichloropropane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,3-Dichloropropane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
2,2-Dichloropropane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
2-Chlorotoluene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
2-Hexanone	ND	38	ug/Kg	1	06/12/20	JLI	SW8260C
2-Isopropyltoluene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
4-Chlorotoluene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	38	ug/Kg	1	06/12/20	JLI	SW8260C
Acetone	ND	380	ug/Kg	1	06/12/20	JLI	SW8260C
Acrylonitrile	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Benzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Bromobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Bromochloromethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Bromodichloromethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Bromoform	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Bromomethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon Disulfide	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Carbon tetrachloride	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Chlorobenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Chloroform	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Chloromethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromochloromethane	ND	4.5	ug/Kg	1	06/12/20	JLI	SW8260C
Dibromomethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Dichlorodifluoromethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Ethylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Hexachlorobutadiene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Isopropylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
m&p-Xylene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	45	ug/Kg	1	06/12/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	1	06/12/20	JLI	SW8260C
Methylene chloride	ND	15	ug/Kg	1	06/12/20	JLI	SW8260C
Naphthalene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
n-Butylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
n-Propylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
o-Xylene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
p-Isopropyltoluene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
sec-Butylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Styrene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
tert-Butylbenzene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrachloroethene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	15	ug/Kg	1	06/12/20	JLI	SW8260C
Toluene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Total Xylenes	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	1	06/12/20	JLI	SW8260C
Trichloroethene	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorofluoromethane	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	15	ug/Kg	1	06/12/20	JLI	SW8260C
Vinyl chloride	ND	7.5	ug/Kg	1	06/12/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/12/20	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	06/12/20	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	06/12/20	JLI	70 - 130 %
% Toluene-d8	96		%	1	06/12/20	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	06/11/20	WB	SW8270D
1,2,4-Trichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
1,3-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
1,4-Dichlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4,5-Trichlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dichlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dimethylphenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2,6-Dinitrotoluene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
2-Chloronaphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Chlorophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylnaphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Methylphenol (o-cresol)	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: WC-1

Phoenix I.D.: CG10809

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
2-Nitrophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Bromophenyl phenyl ether	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
4-Chloro-3-methylphenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
4-Chloroaniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	06/11/20	WB	SW8270D
4-Nitrophenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Acetophenone	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Aniline	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Benz(a)anthracene	870	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzidine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(a)pyrene	980	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(b)fluoranthene	890	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(ghi)perylene	590	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzo(k)fluoranthene	750	320	ug/Kg	1	06/11/20	WB	SW8270D
Benzoic acid	ND	910	ug/Kg	1	06/11/20	WB	SW8270D
Benzyl butyl phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroethyl)ether	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Carbazole	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Chrysene	1100	320	ug/Kg	1	06/11/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Diethyl phthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Dimethylphthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-butylphthalate	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
Di-n-octylphthalate	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Fluoranthene	1900	320	ug/Kg	1	06/11/20	WB	SW8270D
Fluorene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobenzene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
Hexachlorocyclopentadiene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Hexachloroethane	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	590	320	ug/Kg	1	06/11/20	WB	SW8270D
Isophorone	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Naphthalene	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D

Project ID: TURNEY CREEK OUTFALL
Client ID: WC-1

Phoenix I.D.: CG10809

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Pentachloronitrobenzene	ND	140	ug/Kg	1	06/11/20	WB	SW8270D
Pentachlorophenol	ND	450	ug/Kg	1	06/11/20	WB	SW8270D
Phenanthrene	830	320	ug/Kg	1	06/11/20	WB	SW8270D
Phenol	ND	320	ug/Kg	1	06/11/20	WB	SW8270D
Pyrene	2200	320	ug/Kg	1	06/11/20	WB	SW8270D
Pyridine	ND	200	ug/Kg	1	06/11/20	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	95		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorobiphenyl	64		%	1	06/11/20	WB	30 - 130 %
% 2-Fluorophenol	67		%	1	06/11/20	WB	30 - 130 %
% Nitrobenzene-d5	65		%	1	06/11/20	WB	30 - 130 %
% Phenol-d5	75		%	1	06/11/20	WB	30 - 130 %
% Terphenyl-d14	83		%	1	06/11/20	WB	30 - 130 %
Field Extraction	Completed				06/10/20		SW5035A

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:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 17, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

June 17, 2020

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 533533 (mg/kg), QC Sample No: CG10924 2X (CG10800, CG10802, CG10803, CG10806, CG10808, CG10809)														
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	101	96.2	4.9	86.8	85.3	1.7	70 - 130	30	
Comment: Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 533274 (mg/kg), QC Sample No: CG11693 2X (CG10797)														
Mercury - Soil	BRL	0.03	0.16	0.18	11.8	97.4	103	5.6	91.6	94.3	2.9	70 - 130	30	
Comment: Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 533023 (mg/kg), QC Sample No: CG10797 (CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809)														
ICP Metals - Soil														
Antimony	BRL	3.3	<4.4	<4.4	NC	79.5	87.6	9.7	90.8			75 - 125	35	
Arsenic	BRL	0.67	1.91	1.32	NC	85.3	95.7	11.5	92.1			75 - 125	35	
Barium	BRL	0.33	25.8	20.6	22.4	96.8	110	12.8	103			75 - 125	35	
Beryllium	BRL	0.27	<0.35	<0.35	NC	96.8	103	6.2	96.7			75 - 125	35	
Cadmium	BRL	0.33	1.31	0.99	NC	95.9	103	7.1	95.5			75 - 125	35	
Chromium	BRL	0.33	15.2	11.5	27.7	91.2	101	10.2	92.9			75 - 125	35	
Copper	BRL	1.3	47.2	45.9	2.80	83.2	93.0	11.1	94.3			75 - 125	35	
Lead	BRL	0.33	35.4	17.3	68.7	83.7	91.9	9.3	90.8			75 - 125	35	r
Nickel	BRL	0.37	12.0	8.49	34.3	96.4	103	6.6	94.2			75 - 125	35	
Selenium	BRL	1.3	<1.8	<1.8	NC	87.1	97.2	11.0	91.1			75 - 125	35	
Silver	BRL	0.33	0.53	<0.44	NC	79.8	89.8	11.8	92.9			75 - 125	35	
Thallium	BRL	3.0	<4.0	<4.0	NC	89.8	98.8	9.5	92.9			75 - 125	35	
Vanadium	BRL	0.33	25.0	21.0	17.4	90.1	101	11.4	96.3			75 - 125	35	
Zinc	BRL	0.67	91.2	470	135	88.7	99.1	11.1	101			75 - 125	35	r
Comment: Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														

r = This parameter is outside laboratory RPD specified recovery limits.

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QA/QC Report

June 17, 2020

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 533278 (mg/Kg), QC Sample No: CG10306 5X (CG10809)													
Reactivity Cyanide	BRL	5	<5	<5.2	NC	100						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	95.0						80 - 120	30
QA/QC Batch 533070 (PH), QC Sample No: CG10399 (CG10809)													
pH at 25C - Soil			5.86	5.81	0.90	99.7						85 - 115	20
QA/QC Batch 533319 (Degree F), QC Sample No: CG11103 (CG10809)													
Flash Point			92	87	NC	103						75 - 125	30

Comment:

Additional criteria matrix spike acceptance range is 75-125%.

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QA/QC Report

June 17, 2020

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 533024 (mg/Kg), QC Sample No: CG10806 (CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809)										
TPH by GC (Extractable Products) - Sediment										
Ext. Petroleum H.C. (C9-C36)	ND	50	67	70	4.4	86	87	1.2	60 - 120	30
% n-Pentacosane	55	%	77	74	4.0	89	74	18.4	50 - 150	30
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 532969 (ug/Kg), QC Sample No: CG07735 10X (CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809)										
Polychlorinated Biphenyls - Sediment										
PCB-1016	ND	170	90	85	5.7	85	86	1.2	40 - 140	30
PCB-1221	ND	170							40 - 140	30
PCB-1232	ND	170							40 - 140	30
PCB-1242	ND	170							40 - 140	30
PCB-1248	ND	170							40 - 140	30
PCB-1254	ND	170							40 - 140	30
PCB-1260	ND	170	91	91	0.0	88	85	3.5	40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	97	%	105	98	6.9	94	94	0.0	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	101	%	108	102	5.7	98	97	1.0	30 - 150	30
% TCMX (Surrogate Rec)	79	%	95	76	22.2	87	89	2.3	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	78	%	94	77	19.9	88	90	2.2	30 - 150	30
QA/QC Batch 533147 (ug/Kg), QC Sample No: CG11524 2X (CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809)										
Pesticides - Sediment										
4,4' -DDD	ND	1.7	73	63	14.7	45	58	25.2	40 - 140	30
4,4' -DDE	ND	1.7	72	64	11.8	43	48	11.0	40 - 140	30
4,4' -DDT	ND	1.7	72	65	10.2	58	63	8.3	40 - 140	30
a-BHC	ND	1.0	65	58	11.4	39	46	16.5	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	65	58	11.4	40	47	16.1	40 - 140	30
b-BHC	ND	1.0	66	61	7.9	47	52	10.1	40 - 140	30
Chlordane	ND	33	66	60	9.5	41	49	17.8	40 - 140	30
d-BHC	ND	3.3	58	53	9.0	37	43	15.0	40 - 140	30
Dieldrin	ND	1.0	72	64	11.8	49	55	11.5	40 - 140	30
Endosulfan I	ND	3.3	72	65	10.2	39	45	14.3	40 - 140	30
Endosulfan II	ND	3.3	79	70	12.1	50	56	11.3	40 - 140	30
Endosulfan sulfate	ND	3.3	79	74	6.5	52	58	10.9	40 - 140	30
Endrin	ND	3.3	72	66	8.7	50	57	13.1	40 - 140	30
Endrin aldehyde	ND	3.3	68	59	14.2	44	50	12.8	40 - 140	30
Endrin ketone	ND	3.3	80	71	11.9	55	61	10.3	40 - 140	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
g-BHC	ND	1.0	65	58	11.4	40	46	14.0	40 - 140	30	
Heptachlor	ND	3.3	67	59	12.7	42	49	15.4	40 - 140	30	
Heptachlor epoxide	ND	3.3	71	62	13.5	42	54	25.0	40 - 140	30	
Methoxychlor	ND	3.3	79	80	1.3	54	56	3.6	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	69	%	79	73	7.9	60	61	1.7	30 - 150	30	
% DCBP (Confirmation)	66	%	73	67	8.6	49	53	7.8	30 - 150	30	
% TCMX	53	%	60	54	10.5	36	43	17.7	30 - 150	30	
% TCMX (Confirmation)	52	%	60	54	10.5	39	44	12.0	30 - 150	30	
QA/QC Batch 533006 (ug/kg), QC Sample No: CG10505 (CG10797, CG10800, CG10803)											
Semivolatiles - Sediment											
1,2,4,5-Tetrachlorobenzene	ND	230	75	73	2.7	76	71	6.8	40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	69	73	5.6	78	65	18.2	40 - 140	30	
1,2-Dichlorobenzene	ND	180	63	66	4.7	73	63	14.7	40 - 140	30	
1,2-Diphenylhydrazine	ND	230	94	93	1.1	99	70	34.3	40 - 140	30	r
1,3-Dichlorobenzene	ND	230	61	62	1.6	68	58	15.9	40 - 140	30	
1,4-Dichlorobenzene	ND	230	67	67	0.0	75	61	20.6	40 - 140	30	
2,4,5-Trichlorophenol	ND	230	83	84	1.2	89	79	11.9	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	88	93	5.5	100	81	21.0	30 - 130	30	
2,4-Dichlorophenol	ND	130	76	77	1.3	81	73	10.4	30 - 130	30	
2,4-Dimethylphenol	ND	230	82	80	2.5	87	76	13.5	30 - 130	30	
2,4-Dinitrophenol	ND	230	55	34	47.2	73	52	33.6	30 - 130	30	r
2,4-Dinitrotoluene	ND	130	77	83	7.5	82	72	13.0	30 - 130	30	
2,6-Dinitrotoluene	ND	130	81	85	4.8	87	74	16.1	40 - 140	30	
2-Chloronaphthalene	ND	230	78	85	8.6	84	68	21.1	40 - 140	30	
2-Chlorophenol	ND	230	68	70	2.9	80	66	19.2	30 - 130	30	
2-Methylnaphthalene	ND	230	72	72	0.0	83	72	14.2	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	68	68	0.0	80	71	11.9	40 - 140	30	
2-Nitroaniline	ND	330	172	173	0.6	162	152	6.4	40 - 140	30	l,m
2-Nitrophenol	ND	230	106	108	1.9	112	95	16.4	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	72	72	0.0	88	79	10.8	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	92	89	3.3	82	70	15.8	40 - 140	30	
3-Nitroaniline	ND	330	92	88	4.4	79	76	3.9	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	80	63	23.8	86	65	27.8	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	93	93	0.0	91	76	18.0	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	79	71	10.7	82	79	3.7	30 - 130	30	
4-Chloroaniline	ND	230	95	84	12.3	69	79	13.5	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	87	90	3.4	91	78	15.4	40 - 140	30	
4-Nitroaniline	ND	230	90	92	2.2	98	80	20.2	40 - 140	30	
4-Nitrophenol	ND	230	95	95	0.0	103	98	5.0	30 - 130	30	
Acenaphthene	ND	230	77	81	5.1	89	71	22.5	30 - 130	30	
Acenaphthylene	ND	130	76	82	7.6	108	76	34.8	40 - 140	30	r
Acetophenone	ND	230	66	66	0.0	79	69	13.5	40 - 140	30	
Aniline	ND	330	63	62	1.6	62	57	8.4	40 - 140	30	
Anthracene	ND	230	79	82	3.7	109	73	39.6	40 - 140	30	r
Benz(a)anthracene	ND	230	80	82	2.5	NC	NC	NC	40 - 140	30	
Benzidine	ND	330	<10	<10	NC	<10	<10	NC	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	85	83	2.4	NC	NC	NC	40 - 140	30	
Benzo(b)fluoranthene	ND	160	99	100	1.0	NC	NC	NC	40 - 140	30	
Benzo(ghi)perylene	ND	230	87	87	0.0	125	65	63.2	40 - 140	30	r
Benzo(k)fluoranthene	ND	230	62	62	0.0	90	36	85.7	40 - 140	30	m,r
Benzoic Acid	ND	670	<10	<10	NC	73	75	2.7	30 - 130	30	l

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzyl butyl phthalate	ND	230	74	74	0.0	71	61	15.2	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	65	61	6.3	66	59	11.2	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	53	56	5.5	60	49	20.2	40 - 140	30	
Bis(2-chloroisopropyl)ether	ND	230	52	53	1.9	62	52	17.5	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	77	74	4.0	76	67	12.6	40 - 140	30	
Carbazole	ND	230	81	83	2.4	83	71	15.6	40 - 140	30	
Chrysene	ND	230	79	82	3.7	NC	NC	NC	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	87	91	4.5	104	78	28.6	40 - 140	30	
Dibenzofuran	ND	230	79	82	3.7	94	73	25.1	40 - 140	30	
Diethyl phthalate	ND	230	85	84	1.2	86	74	15.0	40 - 140	30	
Dimethylphthalate	ND	230	84	85	1.2	86	73	16.4	40 - 140	30	
Di-n-butylphthalate	ND	670	82	82	0.0	84	74	12.7	40 - 140	30	
Di-n-octylphthalate	ND	230	79	78	1.3	78	71	9.4	40 - 140	30	
Fluoranthene	ND	230	82	83	1.2	NC	NC	NC	40 - 140	30	
Fluorene	ND	230	80	84	4.9	102	72	34.5	40 - 140	30	r
Hexachlorobenzene	ND	130	95	94	1.1	94	75	22.5	40 - 140	30	
Hexachlorobutadiene	ND	230	77	81	5.1	86	75	13.7	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	58	63	8.3	38	17	76.4	40 - 140	30	m,r
Hexachloroethane	ND	130	67	67	0.0	74	60	20.9	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	84	85	1.2	116	58	66.7	40 - 140	30	r
Isophorone	ND	130	64	61	4.8	64	57	11.6	40 - 140	30	
Naphthalene	ND	230	64	67	4.6	74	63	16.1	40 - 140	30	
Nitrobenzene	ND	130	71	68	4.3	84	74	12.7	40 - 140	30	
N-Nitrosodimethylamine	ND	230	41	39	5.0	39	28	32.8	40 - 140	30	l,m,r
N-Nitrosodi-n-propylamine	ND	130	69	63	9.1	77	70	9.5	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	90	87	3.4	93	80	15.0	40 - 140	30	
Pentachloronitrobenzene	ND	230	90	100	10.5	92	79	15.2	40 - 140	30	
Pentachlorophenol	ND	230	93	95	2.1	100	90	10.5	30 - 130	30	
Phenanthrene	ND	130	79	81	2.5	NC	NC	NC	40 - 140	30	
Phenol	ND	230	70	75	6.9	87	74	16.1	30 - 130	30	
Pyrene	ND	230	82	84	2.4	NC	NC	NC	30 - 130	30	
Pyridine	ND	230	44	42	4.7	39	31	22.9	40 - 140	30	m
% 2,4,6-Tribromophenol	103	%	112	113	0.9	113	97	15.2	30 - 130	30	
% 2-Fluorobiphenyl	68	%	68	72	5.7	74	58	24.2	30 - 130	30	
% 2-Fluorophenol	57	%	59	64	8.1	66	54	20.0	30 - 130	30	
% Nitrobenzene-d5	60	%	64	65	1.6	75	67	11.3	30 - 130	30	
% Phenol-d5	59	%	64	67	4.6	75	62	19.0	30 - 130	30	
% Terphenyl-d14	95	%	92	99	7.3	91	83	9.2	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 532945 (ug/kg), QC Sample No: CG10924 (CG10802, CG10806, CG10808, CG10809)

Semivolatiles - Sediment

1,2,4,5-Tetrachlorobenzene	ND	230	57	58	1.7	51			40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	56	57	1.8	51			40 - 140	30	
1,2-Dichlorobenzene	ND	180	49	51	4.0	47			40 - 140	30	
1,2-Diphenylhydrazine	ND	230	70	69	1.4	62			40 - 140	30	
1,3-Dichlorobenzene	ND	230	47	47	0.0	43			40 - 140	30	
1,4-Dichlorobenzene	ND	230	49	48	2.1	45			40 - 140	30	
2,4,5-Trichlorophenol	ND	230	70	68	2.9	60			40 - 140	30	
2,4,6-Trichlorophenol	ND	130	68	66	3.0	59			30 - 130	30	
2,4-Dichlorophenol	ND	130	62	61	1.6	57			30 - 130	30	

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,4-Dimethylphenol	ND	230	70	69	1.4	57			30 - 130	30	
2,4-Dinitrophenol	ND	230	46	47	2.2	43			30 - 130	30	
2,4-Dinitrotoluene	ND	130	77	75	2.6	72			30 - 130	30	
2,6-Dinitrotoluene	ND	130	71	70	1.4	66			40 - 140	30	
2-Chloronaphthalene	ND	230	64	64	0.0	55			40 - 140	30	
2-Chlorophenol	ND	230	59	58	1.7	55			30 - 130	30	
2-Methylnaphthalene	ND	230	59	58	1.7	53			40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	60	61	1.7	56			40 - 140	30	
2-Nitroaniline	ND	330	127	133	4.6	155			40 - 140	30	m
2-Nitrophenol	ND	230	61	63	3.2	58			40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	62	61	1.6	59			30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	32	50	43.9	63			40 - 140	30	l,r
3-Nitroaniline	ND	330	56	61	8.5	83			40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	66	67	1.5	65			30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	66	66	0.0	54			40 - 140	30	
4-Chloro-3-methylphenol	ND	230	70	68	2.9	64			30 - 130	30	
4-Chloroaniline	ND	230	40	41	2.5	65			40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	66	66	0.0	57			40 - 140	30	
4-Nitroaniline	ND	230	77	73	5.3	74			40 - 140	30	
4-Nitrophenol	ND	230	74	73	1.4	64			30 - 130	30	
Acenaphthene	ND	230	65	66	1.5	56			30 - 130	30	
Acenaphthylene	ND	130	63	61	3.2	56			40 - 140	30	
Acetophenone	ND	230	54	53	1.9	52			40 - 140	30	
Aniline	ND	330	31	33	6.3	45			40 - 140	30	l
Anthracene	ND	230	65	64	1.6	57			40 - 140	30	
Benz(a)anthracene	ND	230	67	64	4.6	55			40 - 140	30	
Benzidine	ND	330	<10	<10	NC	26			40 - 140	30	l,m
Benzo(a)pyrene	ND	130	68	65	4.5	56			40 - 140	30	
Benzo(b)fluoranthene	ND	160	82	78	5.0	67			40 - 140	30	
Benzo(ghi)perylene	ND	230	71	65	8.8	52			40 - 140	30	
Benzo(k)fluoranthene	ND	230	51	51	0.0	43			40 - 140	30	
Benzoic Acid	ND	670	21	20	4.9	20			30 - 130	30	l,m
Benzyl butyl phthalate	ND	230	74	71	4.1	62			40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	58	59	1.7	55			40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	48	47	2.1	46			40 - 140	30	
Bis(2-chloroisopropyl)ether	ND	230	48	50	4.1	45			40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	75	72	4.1	61			40 - 140	30	
Carbazole	ND	230	69	69	0.0	64			40 - 140	30	
Chrysene	ND	230	68	66	3.0	56			40 - 140	30	
Dibenz(a,h)anthracene	ND	130	67	63	6.2	50			40 - 140	30	
Dibenzofuran	ND	230	67	67	0.0	58			40 - 140	30	
Diethyl phthalate	ND	230	74	75	1.3	67			40 - 140	30	
Dimethylphthalate	ND	230	69	67	2.9	64			40 - 140	30	
Di-n-butylphthalate	ND	670	75	74	1.3	65			40 - 140	30	
Di-n-octylphthalate	ND	230	75	71	5.5	61			40 - 140	30	
Fluoranthene	ND	230	69	69	0.0	61			40 - 140	30	
Fluorene	ND	230	66	67	1.5	58			40 - 140	30	
Hexachlorobenzene	ND	130	71	71	0.0	59			40 - 140	30	
Hexachlorobutadiene	ND	230	57	57	0.0	52			40 - 140	30	
Hexachlorocyclopentadiene	ND	230	27	23	16.0	15			40 - 140	30	l,m
Hexachloroethane	ND	130	50	51	2.0	46			40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	66	61	7.9	50			40 - 140	30	
Isophorone	ND	130	54	56	3.6	52			40 - 140	30	

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Naphthalene	ND	230	53	54	1.9	48			40 - 140	30	
Nitrobenzene	ND	130	57	56	1.8	53			40 - 140	30	
N-Nitrosodimethylamine	ND	230	34	36	5.7	37			40 - 140	30	l,m
N-Nitrosodi-n-propylamine	ND	130	53	53	0.0	51			40 - 140	30	
N-Nitrosodiphenylamine	ND	130	76	74	2.7	66			40 - 140	30	
Pentachloronitrobenzene	ND	230	74	73	1.4	63			40 - 140	30	
Pentachlorophenol	ND	230	26	16	47.6	44			30 - 130	30	l,r
Phenanthrene	ND	130	65	63	3.1	55			40 - 140	30	
Phenol	ND	230	68	64	6.1	67			30 - 130	30	
Pyrene	ND	230	72	71	1.4	66			30 - 130	30	
Pyridine	ND	230	28	29	3.5	40			40 - 140	30	l
% 2,4,6-Tribromophenol	47	%	76	72	5.4	62			30 - 130	30	
% 2-Fluorobiphenyl	64	%	57	55	3.6	48			30 - 130	30	
% 2-Fluorophenol	56	%	57	55	3.6	52			30 - 130	30	
% Nitrobenzene-d5	58	%	54	52	3.8	49			30 - 130	30	
% Phenol-d5	62	%	59	57	3.4	56			30 - 130	30	
% Terphenyl-d14	83	%	77	74	4.0	66			30 - 130	30	

Comment:

This batch consists of a Blank, LCS, LCSD and MS.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 533551 (ug/kg), QC Sample No: CG09674 (CG10802, CG10808, CG10809)

Volatiles - Sediment (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	86	89	3.4	95	87	8.8	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	77	81	5.1	87	79	9.6	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	85	91	6.8	99	92	7.3	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	85	88	3.5	95	88	7.7	70 - 130	30	
1,1-Dichloroethane	ND	5.0	83	84	1.2	93	83	11.4	70 - 130	30	
1,1-Dichloroethene	ND	5.0	81	83	2.4	91	83	9.2	70 - 130	30	
1,1-Dichloropropene	ND	5.0	83	85	2.4	90	82	9.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	88	91	3.4	89	82	8.2	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	79	83	4.9	92	86	6.7	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	91	93	2.2	84	78	7.4	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	84	87	3.5	89	81	9.4	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	82	83	1.2	98	93	5.2	70 - 130	30	
1,2-Dibromoethane	ND	5.0	84	88	4.7	96	88	8.7	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	85	87	2.3	91	81	11.6	70 - 130	30	
1,2-Dichloroethane	ND	5.0	80	83	3.7	85	79	7.3	70 - 130	30	
1,2-Dichloropropane	ND	5.0	88	91	3.4	101	90	11.5	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	84	87	3.5	92	82	11.5	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	85	89	4.6	88	79	10.8	70 - 130	30	
1,3-Dichloropropane	ND	5.0	86	90	4.5	99	91	8.4	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	84	87	3.5	85	77	9.9	70 - 130	30	
2,2-Dichloropropane	ND	5.0	84	88	4.7	91	82	10.4	70 - 130	30	
2-Chlorotoluene	ND	5.0	85	88	3.5	92	83	10.3	70 - 130	30	
2-Hexanone	ND	25	72	76	5.4	83	80	3.7	70 - 130	30	
2-Isopropyltoluene	ND	5.0	83	85	2.4	92	82	11.5	70 - 130	30	
4-Chlorotoluene	ND	5.0	83	87	4.7	88	79	10.8	70 - 130	30	
4-Methyl-2-pentanone	ND	25	79	85	7.3	91	88	3.4	70 - 130	30	
Acetone	ND	10	67	66	1.5	71	65	8.8	70 - 130	30	l,m
Acrylonitrile	ND	5.0	77	83	7.5	93	87	6.7	70 - 130	30	
Benzene	ND	1.0	89	91	2.2	100	90	10.5	70 - 130	30	

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromobenzene	ND	5.0	86	88	2.3	95	84	12.3	70 - 130	30
Bromochloromethane	ND	5.0	85	86	1.2	96	89	7.6	70 - 130	30
Bromodichloromethane	ND	5.0	86	90	4.5	93	87	6.7	70 - 130	30
Bromoform	ND	5.0	84	88	4.7	96	89	7.6	70 - 130	30
Bromomethane	ND	5.0	87	90	3.4	101	86	16.0	70 - 130	30
Carbon Disulfide	ND	5.0	79	81	2.5	88	79	10.8	70 - 130	30
Carbon tetrachloride	ND	5.0	82	86	4.8	92	84	9.1	70 - 130	30
Chlorobenzene	ND	5.0	85	88	3.5	93	85	9.0	70 - 130	30
Chloroethane	ND	5.0	81	85	4.8	92	84	9.1	70 - 130	30
Chloroform	ND	5.0	80	82	2.5	89	82	8.2	70 - 130	30
Chloromethane	ND	5.0	74	77	4.0	84	74	12.7	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	83	85	2.4	94	86	8.9	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	87	91	4.5	95	87	8.8	70 - 130	30
Dibromochloromethane	ND	3.0	89	90	1.1	97	89	8.6	70 - 130	30
Dibromomethane	ND	5.0	81	86	6.0	91	84	8.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	80	81	1.2	83	76	8.8	70 - 130	30
Ethylbenzene	ND	1.0	88	89	1.1	97	86	12.0	70 - 130	30
Hexachlorobutadiene	ND	5.0	86	86	0.0	90	85	5.7	70 - 130	30
Isopropylbenzene	ND	1.0	84	85	1.2	96	84	13.3	70 - 130	30
m&p-Xylene	ND	2.0	87	90	3.4	94	85	10.1	70 - 130	30
Methyl ethyl ketone	ND	5.0	67	73	8.6	82	75	8.9	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	76	77	1.3	82	78	5.0	70 - 130	30
Methylene chloride	ND	5.0	75	78	3.9	83	75	10.1	70 - 130	30
Naphthalene	ND	5.0	89	93	4.4	101	93	8.2	70 - 130	30
n-Butylbenzene	ND	1.0	86	87	1.2	85	82	3.6	70 - 130	30
n-Propylbenzene	ND	1.0	84	86	2.4	90	83	8.1	70 - 130	30
o-Xylene	ND	2.0	88	92	4.4	99	87	12.9	70 - 130	30
p-Isopropyltoluene	ND	1.0	86	89	3.4	91	85	6.8	70 - 130	30
sec-Butylbenzene	ND	1.0	88	91	3.4	100	90	10.5	70 - 130	30
Styrene	ND	5.0	89	92	3.3	96	87	9.8	70 - 130	30
tert-Butylbenzene	ND	1.0	82	85	3.6	95	84	12.3	70 - 130	30
Tetrachloroethene	ND	5.0	83	87	4.7	89	84	5.8	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	77	78	1.3	88	87	1.1	70 - 130	30
Toluene	ND	1.0	88	91	3.4	98	89	9.6	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	80	81	1.2	87	79	9.6	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	85	89	4.6	91	85	6.8	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	84	89	5.8	94	87	7.7	70 - 130	30
Trichloroethene	ND	5.0	84	88	4.7	94	84	11.2	70 - 130	30
Trichlorofluoromethane	ND	5.0	75	78	3.9	82	73	11.6	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	78	79	1.3	86	78	9.8	70 - 130	30
Vinyl chloride	ND	5.0	79	81	2.5	90	80	11.8	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	102	2.0	101	100	1.0	70 - 130	30
% Bromofluorobenzene	98	%	99	99	0.0	96	96	0.0	70 - 130	30
% Dibromofluoromethane	98	%	99	98	1.0	98	101	3.0	70 - 130	30
% Toluene-d8	97	%	99	99	0.0	99	99	0.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this Low Level batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 533328 (ug/kg), QC Sample No: CG10400 (CG10800, CG10803)

Volatiles - Sediment (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	92	97	5.3	97	91	6.4	70 - 130	30

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1-Trichloroethane	ND	5.0	86	91	5.6	92	85	7.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	92	101	9.3	103	101	2.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	94	100	6.2	100	96	4.1	70 - 130	30	
1,1-Dichloroethane	ND	5.0	91	97	6.4	98	93	5.2	70 - 130	30	
1,1-Dichloroethene	ND	5.0	90	95	5.4	98	91	7.4	70 - 130	30	
1,1-Dichloropropene	ND	5.0	89	93	4.4	99	92	7.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	93	98	5.2	99	95	4.1	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	83	93	11.4	94	90	4.3	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	94	99	5.2	100	95	5.1	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	90	95	5.4	101	95	6.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	86	95	9.9	96	93	3.2	70 - 130	30	
1,2-Dibromoethane	ND	5.0	89	98	9.6	98	93	5.2	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	89	96	7.6	97	94	3.1	70 - 130	30	
1,2-Dichloroethane	ND	5.0	86	93	7.8	88	84	4.7	70 - 130	30	
1,2-Dichloropropane	ND	5.0	96	103	7.0	107	101	5.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	90	96	6.5	101	95	6.1	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	90	95	5.4	98	93	5.2	70 - 130	30	
1,3-Dichloropropane	ND	5.0	91	100	9.4	101	96	5.1	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	88	94	6.6	96	93	3.2	70 - 130	30	
2,2-Dichloropropane	ND	5.0	94	99	5.2	96	88	8.7	70 - 130	30	
2-Chlorotoluene	ND	5.0	90	96	6.5	101	96	5.1	70 - 130	30	
2-Hexanone	ND	25	90	95	5.4	83	81	2.4	70 - 130	30	
2-Isopropyltoluene	ND	5.0	87	93	6.7	99	94	5.2	70 - 130	30	
4-Chlorotoluene	ND	5.0	90	96	6.5	99	92	7.3	70 - 130	30	
4-Methyl-2-pentanone	ND	25	89	97	8.6	94	91	3.2	70 - 130	30	
Acetone	ND	10	103	108	4.7	59	55	7.0	70 - 130	30	m
Acrylonitrile	ND	5.0	89	99	10.6	97	95	2.1	70 - 130	30	
Benzene	ND	1.0	96	103	7.0	107	102	4.8	70 - 130	30	
Bromobenzene	ND	5.0	91	98	7.4	101	97	4.0	70 - 130	30	
Bromochloromethane	ND	5.0	94	102	8.2	101	96	5.1	70 - 130	30	
Bromodichloromethane	ND	5.0	94	100	6.2	95	91	4.3	70 - 130	30	
Bromoform	ND	5.0	89	98	9.6	93	91	2.2	70 - 130	30	
Bromomethane	ND	5.0	95	102	7.1	96	88	8.7	70 - 130	30	
Carbon Disulfide	ND	5.0	87	91	4.5	92	86	6.7	70 - 130	30	
Carbon tetrachloride	ND	5.0	91	96	5.3	94	88	6.6	70 - 130	30	
Chlorobenzene	ND	5.0	90	96	6.5	99	94	5.2	70 - 130	30	
Chloroethane	ND	5.0	90	96	6.5	93	85	9.0	70 - 130	30	
Chloroform	ND	5.0	89	95	6.5	95	90	5.4	70 - 130	30	
Chloromethane	ND	5.0	82	87	5.9	85	77	9.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	92	103	11.3	105	99	5.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	95	102	7.1	101	95	6.1	70 - 130	30	
Dibromochloromethane	ND	3.0	94	101	7.2	97	93	4.2	70 - 130	30	
Dibromomethane	ND	5.0	89	96	7.6	94	91	3.2	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	79	83	4.9	80	71	11.9	70 - 130	30	
Ethylbenzene	ND	1.0	93	98	5.2	104	100	3.9	70 - 130	30	
Hexachlorobutadiene	ND	5.0	88	94	6.6	100	91	9.4	70 - 130	30	
Isopropylbenzene	ND	1.0	89	93	4.4	101	96	5.1	70 - 130	30	
m&p-Xylene	ND	2.0	91	97	6.4	103	97	6.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	96	99	3.1	88	82	7.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	84	91	8.0	86	82	4.8	70 - 130	30	
Methylene chloride	ND	5.0	83	88	5.8	91	87	4.5	70 - 130	30	
Naphthalene	ND	5.0	92	100	8.3	107	104	2.8	70 - 130	30	
n-Butylbenzene	ND	1.0	91	96	5.3	102	95	7.1	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
n-Propylbenzene	ND	1.0	88	94	6.6	102	96	6.1	70 - 130	30	
o-Xylene	ND	2.0	95	100	5.1	105	100	4.9	70 - 130	30	
p-Isopropyltoluene	ND	1.0	92	97	5.3	103	96	7.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	95	101	6.1	109	102	6.6	70 - 130	30	
Styrene	ND	5.0	95	101	6.1	103	98	5.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	88	95	7.7	100	94	6.2	70 - 130	30	
Tetrachloroethene	ND	5.0	93	95	2.1	101	96	5.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	84	91	8.0	95	88	7.7	70 - 130	30	
Toluene	ND	1.0	96	101	5.1	106	101	4.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	88	92	4.4	97	90	7.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	94	101	7.2	95	92	3.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	91	100	9.4	95	93	2.1	70 - 130	30	
Trichloroethene	ND	5.0	89	94	5.5	100	93	7.3	70 - 130	30	
Trichlorofluoromethane	ND	5.0	82	86	4.8	56	51	9.3	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	85	87	2.3	89	82	8.2	70 - 130	30	
Vinyl chloride	ND	5.0	88	91	3.4	89	84	5.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	100	100	0.0	99	99	0.0	70 - 130	30	
% Bromofluorobenzene	97	%	99	99	0.0	97	97	0.0	70 - 130	30	
% Dibromofluoromethane	95	%	101	102	1.0	96	98	2.1	70 - 130	30	
% Toluene-d8	98	%	101	101	0.0	99	99	0.0	70 - 130	30	

Comment:

A blank MS/MSD was analyzed with this Low Level batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 533540 (ug/kg), QC Sample No: CG11105 (CG10797)

Volatiles - Sediment (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	107	111	3.7	117	94	21.8	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	98	101	3.0	110	86	24.5	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	105	115	9.1	138	116	17.3	70 - 130	30	m
1,1,2-Trichloroethane	ND	5.0	96	101	5.1	98	81	19.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	88	91	3.4	99	79	22.5	70 - 130	30	
1,1-Dichloroethene	ND	5.0	104	108	3.8	117	89	27.2	70 - 130	30	
1,1-Dichloropropene	ND	5.0	99	101	2.0	105	79	28.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	107	115	7.2	64	47	30.6	70 - 130	30	m,r
1,2,3-Trichloropropane	ND	5.0	96	106	9.9	133	111	18.0	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	5.0	112	119	6.1	70	52	29.5	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	104	108	3.8	130	102	24.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	112	128	13.3	118	97	19.5	70 - 130	30	
1,2-Dibromoethane	ND	5.0	101	108	6.7	106	86	20.8	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	100	104	3.9	98	79	21.5	70 - 130	30	
1,2-Dichloroethane	ND	5.0	93	97	4.2	100	81	21.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	98	101	3.0	105	84	22.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	105	108	2.8	138	107	25.3	70 - 130	30	m
1,3-Dichlorobenzene	ND	5.0	104	108	3.8	109	85	24.7	70 - 130	30	
1,3-Dichloropropane	ND	5.0	99	105	5.9	110	90	20.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	102	106	3.8	102	81	23.0	70 - 130	30	
2,2-Dichloropropane	ND	5.0	105	105	0.0	115	89	25.5	70 - 130	30	
2-Chlorotoluene	ND	5.0	104	108	3.8	132	104	23.7	70 - 130	30	m
2-Hexanone	ND	25	92	104	12.2	64	47	30.6	70 - 130	30	m,r
2-Isopropyltoluene	ND	5.0	102	106	3.8	128	99	25.6	70 - 130	30	
4-Chlorotoluene	ND	5.0	104	107	2.8	124	97	24.4	70 - 130	30	
4-Methyl-2-pentanone	ND	25	97	107	9.8	80	61	27.0	70 - 130	30	m

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acetone	ND	10	83	90	8.1	80	67	17.7	70 - 130	30	m
Acrylonitrile	ND	5.0	79	89	11.9	49	41	17.8	70 - 130	30	m
Benzene	ND	1.0	103	105	1.9	107	83	25.3	70 - 130	30	
Bromobenzene	ND	5.0	102	107	4.8	123	98	22.6	70 - 130	30	
Bromochloromethane	ND	5.0	100	104	3.9	106	86	20.8	70 - 130	30	
Bromodichloromethane	ND	5.0	102	104	1.9	103	83	21.5	70 - 130	30	
Bromoform	ND	5.0	110	118	7.0	93	75	21.4	70 - 130	30	
Bromomethane	ND	5.0	106	106	0.0	99	73	30.2	70 - 130	30	
Carbon Disulfide	ND	5.0	107	110	2.8	86	60	35.6	70 - 130	30	m,r
Carbon tetrachloride	ND	5.0	104	108	3.8	111	86	25.4	70 - 130	30	
Chlorobenzene	ND	5.0	102	104	1.9	105	81	25.8	70 - 130	30	
Chloroethane	ND	5.0	102	103	1.0	123	94	26.7	70 - 130	30	
Chloroform	ND	5.0	97	99	2.0	106	84	23.2	70 - 130	30	
Chloromethane	ND	5.0	92	97	5.3	97	75	25.6	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	97	103	6.0	104	81	24.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	104	106	1.9	91	72	23.3	70 - 130	30	
Dibromochloromethane	ND	3.0	111	115	3.5	114	91	22.4	70 - 130	30	
Dibromomethane	ND	5.0	97	100	3.0	100	82	19.8	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	116	119	2.6	129	99	26.3	70 - 130	30	
Ethylbenzene	ND	1.0	106	109	2.8	116	89	26.3	70 - 130	30	
Hexachlorobutadiene	ND	5.0	105	108	2.8	87	60	36.7	70 - 130	30	m,r
Isopropylbenzene	ND	1.0	104	107	2.8	149	114	26.6	70 - 130	30	m
m&p-Xylene	ND	2.0	107	110	2.8	114	88	25.7	70 - 130	30	
Methyl ethyl ketone	ND	5.0	87	97	10.9	65	49	28.1	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	1.0	95	99	4.1	107	88	19.5	70 - 130	30	
Methylene chloride	ND	5.0	93	95	2.1	106	85	22.0	70 - 130	30	
Naphthalene	ND	5.0	111	123	10.3	76	57	28.6	70 - 130	30	m
n-Butylbenzene	ND	1.0	110	114	3.6	123	89	32.1	70 - 130	30	r
n-Propylbenzene	ND	1.0	105	108	2.8	140	107	26.7	70 - 130	30	m
o-Xylene	ND	2.0	105	108	2.8	112	88	24.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	109	113	3.6	135	101	28.8	70 - 130	30	m
sec-Butylbenzene	ND	1.0	111	115	3.5	145	109	28.3	70 - 130	30	m
Styrene	ND	5.0	108	112	3.6	100	77	26.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	102	106	3.8	140	108	25.8	70 - 130	30	m
Tetrachloroethene	ND	5.0	103	104	1.0	102	77	27.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	90	101	11.5	99	83	17.6	70 - 130	30	
Toluene	ND	1.0	103	105	1.9	103	79	26.4	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	103	106	2.9	109	85	24.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	106	108	1.9	89	72	21.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	119	129	8.1	111	90	20.9	70 - 130	30	
Trichloroethene	ND	5.0	99	101	2.0	104	80	26.1	70 - 130	30	
Trichlorofluoromethane	ND	5.0	101	104	2.9	118	90	26.9	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	101	105	3.9	114	88	25.7	70 - 130	30	
Vinyl chloride	ND	5.0	106	109	2.8	119	90	27.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	101	101	0.0	97	96	1.0	70 - 130	30	
% Bromofluorobenzene	97	%	100	100	0.0	89	88	1.1	70 - 130	30	
% Dibromofluoromethane	95	%	99	101	2.0	101	100	1.0	70 - 130	30	
% Toluene-d8	99	%	99	98	1.0	96	95	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Data

SDG I.D.: GCG10797

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

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
June 17, 2020

Wednesday, June 17, 2020

Criteria: CT: GAM, GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCG10797 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG10797	$8270-SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1400	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1400	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1400	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1600	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1600	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	1300	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1300	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1300	290	1000	1000	ug/Kg
CG10797	$8270-SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	1300	290	1000	1000	ug/Kg
CG10802	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	520	68	500	500	mg/Kg
CG10802	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	520	68	500	500	mg/Kg
CG10809	$8270-SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1100	320	1000	1000	ug/Kg
CG10809	$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1100	320	1000	1000	ug/Kg

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Tighe & Bond

Project Location: TURNEY CREEK OUTFALL ***Project Number:***

Laboratory Sample ID(s): CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809 ***Sampling Date(s):*** 6/10/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8081, 8082, 8260, 8270, ETPH

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 Reasonable Confidence Protocol documents acheived? See Sections: ICP Narration, SVOA Narration, VOA Narration.**	☐ 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: Phyllis Shiller **Position:** Laboratory Director

Printed Name: Phyllis Shiller **Date:** Wednesday, June 17, 2020

Name of Laboratory Phoenix Environmental Labs, Inc.

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

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

NY # 11301

RCP Certification Report

June 17, 2020

SDG I.D.: GCG10797

Cyanide Narration

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

Instrument:

LACHAT 06/12/20-1 Dustin Harrison, Greg Danielewski, Chemist 06/12/20

CG10809

The samples were distilled in accordance with the method.
The initial calibration met criteria.

The calibration check standards (ICV,CCV) were within 15% of true value and were analyzed at a frequencey of one per ten samples.
The continuing calibration blanks (ICB,CCB) had concentrations less than the reporting level.

The method blank, laboratory control sample (LCS), and matrix spike were distilled with the samples.

QC (Batch Specific):

Batch 533278 (CG10306)

CG10809

All LCS recoveries were within 80 - 120 with the following exceptions: None.
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils

ETPH Narration

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

Instrument:

AU-FID1 06/11/20-1 Jeff Bucko, Chemist 06/11/20

CG10802 (1X)

The initial calibration (ETPH611I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (611A018_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID21 06/11/20-1 Jeff Bucko, Chemist 06/11/20

CG10797 (1X)

The initial calibration (ETPH420I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (611A003_2) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID22 06/11/20-1 Jeff Bucko, Chemist 06/11/20

CG10800 (1X), CG10803 (1X), CG10806 (1X), CG10808 (1X), CG10809 (1X)

The initial calibration (ETPH415I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (611A010_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 533024 (CG10806)

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RCP Certification Report

June 17, 2020

SDG I.D.: GCG10797

ETPH Narration

CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 06/12/20 07:53 Rick Schweitzer, Chemist 06/12/20

CG10797

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

MERLIN 06/15/20 09:02 Rick Schweitzer, Chemist 06/15/20

CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 533274 (CG11693)

CG10797

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

Batch 533533 (CG10924)

CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

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Certification Report

June 17, 2020

SDG I.D.: GCG10797

Mercury Narration

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 533023 (Samples: CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809): -----

The Sample/Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Lead, Zinc)

Instrument:

ARCOS-2 06/11/20 09:17 Tina Hall, Chemist 06/11/20

CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Site Specific):

Batch 533023 (CG10797)

CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

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

Instrument:

AU-ECD24 06/11/20-1 Saadia Chudary, Chemist 06/11/20

CG10797 (10X), CG10800 (10X), CG10802 (10X), CG10803 (10X), CG10806 (10X), CG10808 (10X), CG10809 (10X)

The initial calibration (PC604AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC604BI) 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 532969 (CG07735)

CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

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RCP Certification Report

June 17, 2020

SDG I.D.: GCG10797

PCB Narration

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.

PEST Narration

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

Instrument:

AU-ECD4 06/12/20-1 Chelsey Guerette, Chemist 06/12/20

CG10797 (2X), CG10800 (2X), CG10802 (2X), CG10803 (2X), CG10806 (2X), CG10808 (2X), CG10809 (2X)

The initial calibration (PS0610AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0610BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:
Samples: CG10809
Preceding CC 612A016 - Endrin aldehyde 28%H (20%), Endrin Ketone 21%H (20%), Methoxychlor 24%H (20%)
Succeeding CC 612A029 - Endrin aldehyde 39%H (20%), Methoxychlor 23%H (20%)
Samples: CG10797, CG10800, CG10802, CG10803, CG10806, CG10808
Preceding CC 612A029 - Endrin aldehyde 39%H (20%), Methoxychlor 23%H (20%)
Succeeding CC 612A043 - b-BHC 21%H (20%), Endrin aldehyde 40%H (20%), Endrin Ketone 23%H (20%), Methoxychlor 33%H (20%)

QC (Batch Specific):

Batch 533147 (CG11524)

CG10797, CG10800, CG10802, CG10803, CG10806, CG10808, CG10809

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.

SVOA Narration

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June 17, 2020

SDG I.D.: GCG10797

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 532945 (Samples: CG10802, CG10806, CG10808, CG10809): -----

The LCS/LCSD is below the method criteria. A low bias is likely. (Benzidine)

The LCS/LCSD is below the lower range. A slight low bias is possible. (Benzoic Acid, Hexachlorocyclopentadiene, N-Nitrosodimethylamine, (Aniline, Pentachlorophenol, Pyridine)

The LCS recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (3,3''-Dichlorobenzidine)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (3,3''-Dichlorobenzidine, Pentachlorophenol)

QC Batch 533006 (Samples: CG10797, CG10800, CG10803): -----

Several QC recoveries are below the lower range. A low bias is possible. (N-Nitrosodimethylamine)

The LCS/LCSD recovery is below the method criteria. A low bias is possible. (Benzoic Acid)

The LCS/LCSD RPD exceeds the method criteria for one analyte. This analyte was not reported in the sample(s) so no variability is suspected. (2,4-Dinitrophenol)

The QC recoveries are below the method criteria. A low bias is likely. (Benzidine)

The QC recovery for one analyte are above the upper range but was not reported in the sample(s), therefore no significant bias is suspected. (2-Nitroaniline)

Instrument:

CHEM34 06/10/20-1 Matt Richard, Chemist 06/10/20

CG10802 (1X), CG10806 (1X), CG10808 (1X), CG10809 (1X)

Initial Calibration Evaluation (CHEM34/34_SPLIT_0515):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.080 (0.1), Hexachlorobenzene 0.090 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM34/0610_12-34_SPLIT_0515):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.082 (0.1), Hexachlorobenzene 0.097 (0.1)
The following compounds did not meet minimum response factors: None.

CHEM69 06/10/20-1 Matt Richard, Chemist 06/10/20

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NY # 11301

RCP Certification Report

June 17, 2020

SDG I.D.: GCG10797

SVOA Narration

CG10797 (1X), CG10800 (1X), CG10803 (1X)

Initial Calibration Evaluation (CHEM69/69_SPLIT_0527):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.098 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM69/0610_13-69_SPLIT_0527):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: Bis(2-chloroethoxy)methane 0.263 (0.3), Bis(2-chloroethyl)ether 0.693 (0.7)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 532945 (CG10924)

CG10802, CG10806, CG10808, CG10809

All LCS recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(32%), Aniline(31%), Benzidine(<10%), Benzoic Acid(21%), Hexachlorocyclopentadiene(27%), N-Nitrosodimethylamine(34%), Pentachlorophenol(26%), Pyridine(28%)
All LCSD recoveries were within 40 - 140 with the following exceptions: Aniline(33%), Benzidine(<10%), Benzoic Acid(20%), Hexachlorocyclopentadiene(23%), N-Nitrosodimethylamine(36%), Pentachlorophenol(16%), Pyridine(29%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: 3,3'-Dichlorobenzidine(43.9%), Pentachlorophenol(47.6%)
This batch consists of a Blank, LCS, LCSD and MS.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 533006 (CG10505)

CG10797, CG10800, CG10803

All LCS recoveries were within 40 - 140 with the following exceptions: 2-Nitroaniline(172%), Benzidine(<10%), Benzoic Acid(<10%)
All LCSD recoveries were within 40 - 140 with the following exceptions: 2-Nitroaniline(173%), Benzidine(<10%), Benzoic Acid(<10%), N-Nitrosodimethylamine(39%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: 2,4-Dinitrophenol(47.2%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 533551 (Samples: CG10802, CG10808, CG10809): -----

Several QC recoveries are below the lower range, a low bias is possible. (Acetone)

The LCS recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (Methyl ethyl ketone)

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RCP Certification Report

June 17, 2020

SDG I.D.: GCG10797

VOA Narration

Instrument:

CHEM03 06/12/20-1 Jane Li, Chemist 06/12/20

CG10797 (1X)

Initial Calibration Evaluation (CHEM03/VT-L060420):
93% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 29% (20%), Acetone 24% (20%), Bromoform 34% (20%), Chloroethane 25% (20%), Dibromochloromethane 22% (20%), trans-1,4-dichloro-2-butene 26% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.085 (0.1), Bromoform 0.099 (0.1), Tetrachloroethene 0.187 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM03/0612_01-VT-L060420):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM26 06/11/20-1 Jane Li, Chemist 06/11/20

CG10800 (1X), CG10803 (1X)

Initial Calibration Evaluation (CHEM26/VT-052720):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 26% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0611_01-VT-052720):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM26 06/12/20-1 Jane Li, Chemist 06/12/20

CG10802 (1X), CG10808 (1X), CG10809 (1X)

Initial Calibration Evaluation (CHEM26/VT-052720):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 26% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0612_02-VT-052720):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

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RCP Certification Report

June 17, 2020

SDG I.D.: GCG10797

VOA Narration

QC (Batch Specific):

Batch 533328 (CG10400) CHEM26 6/11/2020-1

CG10800(1X), CG10803(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A blank MS/MSD was analyzed with this Low Level batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 533540 (CG11105) CHEM03 6/12/2020-1

CG10797(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 533551 (CG09674) CHEM26 6/12/2020-1

CG10802(1X), CG10808(1X), CG10809(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(67%), Methyl ethyl ketone(67%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(66%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A blank MS/MSD was analyzed with this Low Level batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 4.2C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

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

Cooler: Yes ☐ No ☐ (struck)
Coolant: IPK ☐ ICE ☐ No ☐
Temp 1.2 °C Pg of

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☒ Email: On file

Customer: See pg 1
Address:

Project: Turney Creek Outfall
Report to: See pg 1
Invoice to: " "
QUOTE # " "

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Ian Adomus Date: 6-10

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 X = ____________(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	ETPHs	SVOCs	PCBs	RSR	Sox Metals	Pesticides	Reactivity	pH	Ignitability	Paint Filter test	VOCs	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [X] methanol [X] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [X] As is [X] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
10809	WC-1	SED	6-10	1300	X	X	X	X	X	X	X	X	X	X		3	2										

Relinquished by:	Accepted by:	Date:	Time:
Ian Adomus	[signature]	6-10	1600

Comments, Special Requirements or Regulations:

Turnaround Time:
☐ 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 GW-1 ☐ S-1 GW-2 ☐ S-1 GW-3
☐ S-2 GW-1 ☐ S-2 GW-2 ☐ S-2 GW-3
☐ S-3 GW-1 ☐ S-3 GW-2 ☐ S-3 GW-3
☐ MWRA eSMART ☐ Other

State where samples were collected: CT

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

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

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ No ☐

CHAIN OF CUSTODY RECORD

PHOENIX *Environmental Laboratories, Inc.*

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Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 4.3 C Pg 1 of 2

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☒ Email: on file

Customer: 213 Court St
Address: Suite 1100
Middletown CT 06457

Project: Turney Creek Outfall
Report to: Brian Sirowich, Ian Adomeit
Invoice to: Tighe + Bond Westfield
QUOTE #: DAS Rates
Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
Sampler's Signature: Ian Adomeit Date: 6-10

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 X = ____________(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	ETPHs	VOCs	SVOCs	PCBs SOX	RSR Metals	Pesticides	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vials	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
* 10797	SED-1 (0-2')	SED	6-10	0930	X	X	X	X	X	X	3	1	3									
10798	SED-1 (2-4')	↓	↓	0945	↓	↓	↓	↓	↓	↓	↓	↓										
10799	SED-2 (0-2')	↓	↓	1000	↓	↓	↓	↓	↓	↓	↓	↓										
10800	SED-2 (2-4')	↓	↓	1015	↓	↓	↓	↓	↓	↓	↓	↓										
10801	SED-3 (0-2')	↓	↓	1030	↓	↓	↓	↓	↓	↓	↓	↓										
10802	SED-4 (0-2')	↓	↓	1100	↓	↓	↓	↓	↓	↓	↓	↓										
10803	SED-3 (2-4')	↓	↓	1045	↓	↓	↓	↓	↓	↓	↓	↓										
(*) 10804	SED-4 (2-4')	↓	↓	1115	↓	↓	↓	↓	↓	↓	3	↓	3									
** 10805	SED-5 (0-2')	↓	↓	1130		↓	↓	↓	↓	↓		↓										
10806	SED-5 (2-4')	↓	↓	1145	X	↓	↓	↓	↓	↓	3	↓	3									
10807	SED-6 (0-2')	↓	↓	1200	↓	↓	↓	↓	↓	↓	3	↓	3									
10808	SED-6 (2-4')	SED	6-10	1215	↓	↓	↓	↓	↓	↓	3	1	3									

Relinquished by:	Accepted by:	Date:	Time:
Ian Adomeit	[signature]	6-10	1600

Comments, Special Requirements or Regulations:
SED-5 (0-2') does not have VOA vials **Did rcv voas + jar
(*) Rcvd 1 jar emailed client (KO)
* Also Rcvd Ziploc bag full of sample SED 1 (0-2)

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

RI
☐ (Residential) Direct Exposure
☐ (Comm/Industrial) Direct Exposure
☐ GA Leachability
☐ GB Leachability
☐ GA-GW Objectives
☐ GB-GW Objectives

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

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

State where samples were collected: CT

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

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

* SURCHARGE APPLIES

gcg 10797

Krystal Delgado

From: Krystal Delgado
Sent: Wednesday, June 10, 2020 8:01 PM
To: 'BSirowich@tighebond.com'
Subject: Turney Creek Outfall

Importance: High

Good Evening,

For the project mentioned above, there was a note on the COC stating sample ID "SED-5 (0-2)" did not have Voas. We did receive voas with this sample ID marked on them.

We did not receive voas for sample ID "SED-4 (2-4)"

If you have any questions or concerns please feel free to contact the lab.

Thank you

Krystal Delgado
Front Desk/Sample Receiving
Bottle Room Tech
Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
krystald@phoenixlabs.com
PH: 860-645-1102
FX: 860-645-0823

Sarah Bell

From: Ian Adomeit <IAdomeit@TigheBond.com>
Sent: Thursday, June 11, 2020 6:27 AM
To: Krystal Delgado
Cc: Sarah Bell
Subject: GCG10797 Changes

Good morning,

I would like to make changes to the analyses being run for SDG GCG10797.

Please turn off all analyses for the following samples:

- CG10798
- CG10799
- CG10801
- CG10804
- CG10805
- CG10807

You can also throw out the ziplock bag labeled SED 1 (0-2'). That was inadvertently left in the cooler.

Thank you,

Ian

Ian Adomeit | Staff Engineer
Tighe & Bond | 213 Court Street, Suite 1100 | Middletown, CT 06457 | T. 860.852.5236 | C. 860.463.6715
www.tighebond.com | Follow us on: Twitter Facebook LinkedIn
Tighe & Bond

gcg 10797

Krystal Delgado

From: Krystal Delgado
Sent: Thursday, June 11, 2020 9:54 AM
To: 'Ian Adomeit'
Subject: RE: Turney Creek Outfall

Thank you for clarifying that for me! ☺
Have a good day!

From: Ian Adomeit [mailto:IAdomeit@TigheBond.com]
Sent: Wednesday, June 10, 2020 10:42 PM
To: Brian Sirowich
Cc: Krystal Delgado
Subject: Re: Turney Creek Outfall

Hi Krystal,

I wrote down the wrong sample ID in the comments. The comment should have read "SED-4 (2-4)' does not have VOAs." Thank you for catching that.

All my best,

Ian

Ian Adomeit | Staff Engineer
Tighe & Bond | 213 Court Street, Suite 1100 | Middletown, CT 06457 | T. 860-852-5236 | C. 860-463-6715
www.tighebond.com | Follow us on: Twitter Facebook LinkedIn
Tighe&Bond

From: Brian Sirowich <BSirowich@TigheBond.com>
Date: Wednesday, June 10, 2020 at 8:10 PM
To: Ian Adomeit <IAdomeit@TigheBond.com>
Subject: Fwd: Turney Creek Outfall

Let's discuss tomorrow and figure it out.

Get Outlook for iOS

From: Krystal Delgado <KrystalD@phoenixlabs.com>
Sent: Wednesday, June 10, 2020 8:00 PM
To: Brian Sirowich
Subject: Turney Creek Outfall

[Caution - External Sender]

Good Evening,

gcg 10797

For the project mentioned above, there was a note on the COC stating sample ID "SED-5 (0-2)" did not have Voas. We did receive voas with this sample ID marked on them.

We did not receive voas for sample ID "SED-4 (2-4)"

If you have any questions or concerns please feel free to contact the lab.

Thank you

Krystal Delgado
Front Desk/Sample Receiving
Bottle Room Tech
Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
krystald@phoenixlabs.com
PH: 860-645-1102
FX: 860-645-0823

GCG 10797

Krystal Delgado

From: Sarah Bell
Sent: Thursday, June 11, 2020 7:54 AM
To: Ian Adomeit; Krystal Delgado
Cc: Shannon Wilhelm
Subject: RE: GCG10797 Changes

Ok will do

*Note: I am currently working remotely. You may call me directly at my cell number below or email

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
(C)860-558-0726
Website: www.phoenixlabs.com

From: Ian Adomeit [mailto:IAdomeit@TighеBond.com]
Sent: Thursday, June 11, 2020 6:27 AM
To: Krystal Delgado
Cc: Sarah Bell
Subject: GCG10797 Changes

Good morning,

I would like to make changes to the analyses being run for SDG GCG10797.

Please turn off all analyses for the following samples:

- CG10798
- CG10799
- CG10801
- CG10804
- CG10805
- CG10807

You can also throw out the ziplock bag labeled SED 1 (0-2'). That was inadvertently left in the cooler.

Thank you,

Ian

February 14, 2023

SUMMARY Cost Estimate for Turney Creek Culverts, Siphons and Tidegates:

Construction	$ 4.6 M (2023)	$ 3.822 Million (2020)
Siphon	$ 0.86 M (2023)	$ 0.784 Million (2021)
Const. Admin/Inspect	$ 0.66 M (2023)	$ 0.552 Million (2020)
Environmental prel. Est.	$ 0.4 M (2023)	Est. $ 0.333 Million (2020)

Total:	$ 5.491 Million (2020)	(10% cont. on construction only)
	$ 6.52 Million (2023)	(10% contingency on construction only)

Say $ 6.52 Million or up to $7.15 Million w/overall 10% contingency of project amount.

William Hurley P.E. based on Tighe & Bond estimates via Attached and phone.

From: Hurley, William
To: Hurley, William
Subject: Turney creek br siphon tidegates
Date: Tuesday, February 14, 2023 9:34:16 AM

20 YEAR

A RESOLUTION APPROPRIATING $11,000,000 FOR COSTS ASSOCIATED WITH THE INSPECTION AND CONSTRUCTION PHASE OF THE EAST TRUNK REPLACEMENT PROJECT, AND AUTHORIZING THE ISSUANCE OF BONDS IN AN AMOUNT NOT TO EXCEED $8,000,000 TO FUND A PORTION OF SUCH APPROPRIATION.

WHEREAS, the Town of Fairfield, Connecticut (the "Town") seeks to appropriate $11,000,000 for the costs associated with the construction phase of the East Trunk Replacement Project (the "Appropriation"); and

WHEREAS, the Appropriation shall be funded by two sources including: 1) $3,000,000 in grant funds from the State of Connecticut Department of Economic and Community Development's Communities Challenge Grant Program (the "Grant"), which Grant has previously been accepted and approved by all Town Boards; and 2) $8,000,000 in bonds issued by the Town (the "Bonds"); and

WHEREAS, the Town seeks to authorize the Appropriation, and the issuance of Bonds in an amount not to exceed $8,000,000 to fund the portion of the Appropriation not funded by the Grant; and

WHEREAS, while the Town is liable for the debt service on the Bonds, for internal accounting purposes, it is appropriate that all costs of the Project including debt service on the Bonds be allocated to, and reimbursed to the Town by, the Water Pollution Control Authority (the "WPCA"); and

WHEREAS, simultaneously herewith, the Town shall secure approval of a Supplemental Resolution providing that all debt service on the Bonds shall be paid by the WPCA from its own funds as such debt service becomes due and the obligation of the WPCA shall be set forth in a memorandum of understanding with the Town satisfactory to the First Selectwoman; and

NOW, THEREFORE, IT IS HEREBY:

- -

RESOLVED:

1. As recommended by the Board of Finance and the Board of Selectmen, the Town of Fairfield (the "Town") hereby appropriates the sum of Eleven Million and 00/100 Dollars ($11,000,000) for costs of the inspection and construction phase of the East Trunk Replacement project, including but not limited to, the costs to replace the existing sanitary sewer pipe with a new pipe along the same alignment, and all related design, environmental inspection, administrative, financing, legal, contingency and other soft costs (the "Project").

2. As recommended by the Board of Finance and the Board of Selectmen, the Town may borrow a sum not to exceed Eight Million and 00/100 Dollars ($8,000,000) to fund the balance of the Appropriation and issue its general obligation bonds/bond anticipation notes for such indebtedness under its corporate name and seal and upon the full faith and credit of the Town in an amount not to exceed said sum for the purpose of financing the Appropriation for the Project.

3. The Board of Selectmen, the Treasurer and the Chief Fiscal Officer of the Town are hereby appointed a committee (the "Committee") with full power and authority to cause said bonds to be sold, issued and delivered; to determine their form and terms, including provision for redemption prior to maturity; to determine the aggregate principal amount thereof within the amount hereby authorized and the denominations and maturities thereof; to fix the time of issue of each series thereof and the rate or rates of interest thereon as herein provided; to determine whether the interest rate on any series will be fixed or variable and to determine the method by which the variable rate will be determined, the terms of conversion, if any, from one mode to another or from fixed to variable; to set whatever other terms of the bonds they deem necessary, desirable or appropriate; to designate the bank or trust company to certify the issuance thereof and to act as transfer agent, paying agent and as registrar for the bonds, and to designate bond counsel. The Committee shall have all appropriate powers under the Connecticut General Statutes, as amended (the "Statutes") including Chapter 748 (Registered Public Obligations Act) and Chapter 109 (Municipal Bond Issues) to issue, sell and deliver the bonds and, further, shall have full power and authority to do all that is required under the Internal Revenue Code of 1986, as amended, and under rules of the Securities and Exchange Commission, and other applicable laws and regulations of the United States, to provide for issuance of the bonds in tax exempt form and to meet all requirements which are or may become necessary in and subsequent to the issuance and delivery of the bonds in order that the interest on the bonds be and remain exempt from Federal income taxes, including, without limitation, to covenant and agree to restriction on investment yield of bond proceeds, rebate of arbitrage earnings, expenditure of proceeds within required time limitations, the filing of information reports as and when required, and the execution of Continuing Disclosure Agreements for the benefit of the holders of the bonds and notes.

4. The First Selectwoman and Treasurer or Chief Fiscal Officer, on behalf of the Town, shall execute and deliver such bond purchase agreements, reimbursement agreements, line of credit agreement, credit facilities, remarketing, standby marketing agreements, standby bond purchase agreements, and any other commercially necessary or appropriate agreements which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the sale and issuance of bonds, and if the Committee determines that it is necessary, appropriate, or desirable, the obligations under such agreements shall be secured by the Town's full faith and credit.

5. The First Selectwoman and Treasurer or Chief Fiscal Officer shall execute on the Town's behalf such interest rate swap agreements or similar agreements related to the bonds for the purpose of managing interest rate risk which the Committee determines are necessary, appropriate or desirable in connection with or incidental to the carrying or selling and

issuance of the bonds, and if the Committee determines that it is necessary, appropriate or desirable, the obligations under such interest rate swap agreements shall be secured by the Town's full faith and credit.

6. The bonds may be designated "Public Improvement Bonds of the Town of Fairfield", series of the year of their issuance and may be issued in one or more series, and may be consolidated as part of the same issue with other bonds of the Town; shall be in serial form maturing in not more than twenty (20) annual installments of principal, the first installment to mature not later than three years from the date of issue and the last installment to mature not later than twenty (20) years from the date of issuance or as otherwise provided by statute. The bonds may be sold at an aggregate sales price of not less than par and accrued interest at public sale upon invitation for bids to the responsible bidder submitting the bid resulting in the lowest true interest cost to the Town, provided that nothing herein shall prevent the Town from rejecting all bids submitted in response to any one invitation for bids and the right to so reject all bids is hereby reserved, and further provided that the Committee may sell the bonds on a negotiated basis, as provided by statute. Interest on the bonds shall be payable semi-annually or annually. The bonds shall be signed on behalf of the Town by at least a majority of the Board of Selectmen and the Treasurer, and shall bear the seal of the Town. The signing, sealing and certification of the bonds may be by facsimile as provided by statute.

7. The Committee is further authorized to make temporary borrowings as authorized by the Statutes and to issue temporary notes of the Town in anticipation of the receipt of proceeds from the sale of the bonds to be issued pursuant to this resolution. Such notes shall be issued and renewed at such time and with such maturities, requirements and limitations as provided by the Statutes. Notes evidencing such borrowings shall be signed by the First Selectwoman and Treasurer or Chief Fiscal Officer, have the seal of the Town affixed, which signing and sealing may be by facsimile as provided by statute, be certified by and payable at a bank or trust company incorporated under the laws of this or any other state, or of the United States, be approved as to their legality by bond counsel and may be consolidated with the issuance of other Town bond anticipation notes. The Committee shall determine the date, maturity, interest rates, form and manner of sale, including negotiated sale, and other details of said notes consistent with the provisions of this resolution and the Statutes and shall have all powers and authority as set forth above in connection with the issuance of bonds and especially with respect to compliance with the requirements of the Internal Revenue Code of 1986, as amended, and regulations thereunder in order to obtain and maintain issuance of the notes in tax exempt form.

8. Pursuant to Section 1.150-2, as amended, of the Federal Income Tax Regulations the Town hereby declares its official intent to reimburse expenditures (if any) paid for the Project from its General or Capital Funds, such reimbursement to be made from the proceeds of the sale of bonds and notes authorized herein and in accordance with the time limitations and other requirements of said regulations.

9. The First Selectwoman, Chief Fiscal Officer and Town Treasurer are hereby authorized, on behalf of the Town, to enter into agreements or otherwise covenant for the benefit of

bondholders to provide information on an annual or other periodic basis to the Municipal Securities Rulemaking Board (the "MSRB") and to provide notices to the MSRB of material events as enumerated in Securities and Exchange Commission Exchange Act Rule 15c2-12, as amended, as may be necessary, appropriate or desirable to effect the sale of the bonds and notes authorized by this resolution.

10. The Committee is hereby authorized to take all action necessary and proper for the sale, issuance and delivery of the bonds and notes in accordance with the provisions of the Statutes and the laws of the United States.

11. The First Selectwoman or other proper Town official is authorized to apply for and accept any available State or Federal grant in aid of the financing of the Project, and to take all action necessary and proper in connection therewith. Any such grants or contribution received prior to the issuance of the Bonds authorized herein shall be applied to the costs of the Project or to pay at maturity the principal of any outstanding bond anticipation notes issued pursuant this resolution and shall reduce the amount of the Bonds that can be issued pursuant to this resolution. If such grants and contributions are received after the issuance of the Bonds, they shall be applied to pay the principal on the Bonds or as otherwise authorized by the Board of Selectmen, Board of Finance and Representative Town Meeting provided such application does not adversely affect the tax-exempt status of the Bonds or the Town's receipt of such grant or contribution.

FOURTEEN POINTS OF INFORMATION AND JUSTIFICATION FOR THE

EAST TRUNK SEWER LINE REPLACEMENT

TOTAL REQUESTED EXPENDITURES $11,000,000 Grant Application

(CT COMMUNITIES CHALLENGE GRANT REIMBERSMENT COVERS $3,000,000-Approved)

1. **Background** – East Trunk Sewer handles a 2/3rds of the Town's sewer flow to the WPCF plant. The sewer was originally constructed in 1947 and follows the layout of Ash Creek. There is indications that the pipe has sagged and joints have opened up along this section. Construction of the new sewer line will significantly reduce inflow and infiltration and sanitary sewer overflows (SSOs), and provide easier maintenance access and better resiliency against Ash Creek flows and rising sea level. This project was originally approved in May 2017, but was halted due to lack of funding. Design was performed by Cardinal Engineering from 2017-2020 and a Peer Review was performed by Wright-Pierce in 2020.

2. **Purpose** - This project proposes to construct a new sewer line away from Ash Creek within the public roadway and Right-of-Way. The project will reduce Inflow and Infiltration, reduce SSOs, reduce some "bottlenecks" and increase capacity for potential future development. The project design is 90% complete, has been reviewed by DOT and all necessary permits have been obtained.

3. **Detailed Description of Proposal** -- The proposal is to install approximately 2500 feet of new 36 inch diameter sanitary sewer trunk line to replace the aged and undersized section of sewer main susceptible to Inflow and Infiltration, Sewer System Overflows and access issues. The existing line would be diverted and in limited use until abandoned upon completion of the project. The 36 inch trunk line would be conventionally installed along the local streets. The project is expected to take 14 to 18 months depending on notice to proceed and if winter work can be performed.

4. **Reliability of Cost Estimate** – Based on a scale of 0 to 10, this is a 6. The design engineer's Opinion of Probably Cost (2019) has been revised based on construction plans, permits and updated 2023 costs. Current equipment/material pricing is inflated and ongoing issues with the supply chain, a solid number is difficult. Sheeting, traffic control, sewer pipe, manhole, bypass pumping 2/3 of the Town's sewage flow, dewatering and construction administration represent the largest increases in the estimate. The Contract bid opening and field conditions will ultimately determine the price of the project. Estimated costs

include the following: $900K Contingency; $8.9 million Construction, $850,000 Inspection, $50K Remediation, and $40-300K for updating engineering/utility plans from 2019 and Testing.

5. **Increased Efficiency or Productivity** -- The existing sewer main will remain operational during construction. In some cases bypass pumping will be required when tying into the existing system manholes. The larger pipe diameter will increase flow capacity of the existing sewer trunk line.

6. **Additional Long Range Costs** - Typical maintenance of the line over the long term is expected, although there should be significantly less maintenance costs compared to the existing line.

7. **Additional Use or Demand on Existing Facilities** – According to the Wright Pierce Hydraulic Report, the increase in pipe size will allow for some reserve capacity for future development projects.

8. **Alternatives to this Request** - There are a few alternatives that were brought up in the past and more recently. Alternatives include constructing a pump station instead of sewer main project, creating a bypass/ overflow pipe, relining the existing pipe or do nothing alternative. Each alternative has been investigated conceptually- but are anticipated to be more costly or less feasible.
   - Pump Station is an engineering alternative but would be very costly. In generic terms, size of pump station would be approximately double the size of the Mill River Pump Station based on flows. The Town would have to acquire property, keep all mechanicals 3 ft above the flood plain, provide generators and have annual maintenance, labor and electrical costs. Typically, pump stations are only proposed when gravity fed systems are not available and are generally not desired by sewer authorities. Constructing a pump station would not alieve the I/I problems or provide resiliency.
   - Bypass or overflow pipe would be constructed using a smaller diameter pipe, following the proposed layout. Slopes of pipe would increase, creating better flow. Savings would be attributed to less depth, and slightly less construction; however almost all items would still be constructed including roadwork, utilities, sheeting, manholes, etc.. Drawbacks listed are there would be two sewer lines, Inflow and infiltration would still occur in the existing line, no improvements on environmental issues, and condition of the old existing line would worsen over time.

- Trenchless technologies has been ruled out as an alternative for a number of reasons, most specifically the shallow slope of the pipe and the high groundwater table in the project area.
- The Do nothing alternative will result in continued problems and most likely significant environmental violations and potential fines as pipe conditions worsen.

9. **Safety and Loss Control** - With the proposed project reducing Inflow and Infiltration, reducing sewer system overflows and providing easier access during storms, safety can be improved by providing improvement to water quality, hence better health/safety. Easier access to manholes should provide better safety for workers than manholes near the creek especially during storm events.

10. **Environmental Considerations** – The proposed project should help reduce potential violations with DEEP for SSOs.

11. **Insurance** – Contractor will be required to carry the necessary insurance as directed by the Town of Fairfield Purchasing Department.

12. **Financing** – The total cost of the project is estimated to be $11 million. $8 million will be financed by Town General Obligation bonds. The debt service of the bonds will be paid out of the WPCA budget. The remaining $3 million will be funded by a Communities Challenges Grant, which CT DECD has already approved and has been accepted by all Town Boards. It is anticipated that the new sewer line will have a 50-year service life.

13. **Other Considerations** - None. Development of the Metro Center is dependent on this and another related sewer project.

14. **Approvals** – WPCA/BOS/BOF/RTM- Spring 2023

CAPITAL PROJECTS SUMMARY

EXHIBIT 1

Projected Cash Flow for Capital and Non-Recurring Projects - Board of Education, Town & WPCF
FY23 through FY28

Fall 2022 Cap Plan

Updated May 2, 2023

Board of Education

	FY23	FY24	FY25	FY26	FY27	FY28	Total
Capital Projects	$ 4,926,887	$ 13,705,407	$ 13,962,693	$ 11,866,198	$ 11,481,430	$ 11,312,337	$ 67,254,952
Less: Reimbursements	$ (697,700)	$ (3,473,997)	$ (3,408,521)	$ (2,215,863)	$ (2,643,015)	$ (1,907,257)	$ (14,346,353)
Net Capital Projects	$ 4,229,187	$ 10,231,410	$ 10,554,172	$ 9,650,335	$ 8,838,415	$ 9,405,080	$ 52,908,599
Non-Recurring Projects	$ 1,261,699	$ 2,781,724	$ 706,808	$ 41,762	$ 943,049	$ 1,911,519	$ 7,646,561
Less: Reimbursements	$ -	$ (474,417)	$ -	$ -	$ (104,930)	$ (255,228)	$ (834,575)
Net Non-Recurring Projects	$ 1,261,699	$ 2,307,307	$ 706,808	$ 41,762	$ 838,119	$ 1,656,291	$ 6,811,986
Total Cash Flow Required	$ 5,490,886	$ 12,538,717	$ 11,260,980	$ 9,692,097	$ 9,676,534	$ 11,061,371	$ 59,720,585

Town

	FY23	FY24	FY25	FY26	FY27	FY28	Total
Capital Projects	$ 28,049,041	$ 24,862,081	$ 29,304,077	$ 15,298,229	$ 17,313,617	$ 10,375,000	$ 125,202,045
Less: Reimbursements	$ (18,600,000)	$ (14,750,000)	$ (17,632,250)	$ (5,451,875)	$ (6,300,000)	$ (2,100,000)	$ (64,834,125)
Net Capital Projects	$ 9,449,041	$ 10,112,081	$ 11,671,827	$ 9,846,354	$ 11,013,617	$ 8,275,000	$ 60,367,920
							$ -
Non-Recurring Projects	$ 3,814,645	$6,304,620	$ 4,601,490	$ 3,406,219	$ 1,763,750	$ 1,250,000	$ 21,140,724
Less: Reimbursements	$ (1,225,000)	($2,992,620)	$ (173,250)	$ (183,750)	$ -	$ -	$ (4,574,620)
Net Non-Recurring Projects	$ 2,589,645	$ 3,312,000	$ 4,428,240	$ 3,222,469	$ 1,763,750	$ 1,250,000	$ 16,566,104
Total Cash Flow Required	$ 12,038,686	$ 13,424,081	$ 16,100,067	$ 13,068,823	$ 12,777,367	$ 9,525,000	$ 76,934,023

WPCF

	FY23	FY24	FY25	FY26	FY27	FY28	Total
Capital Projects	$ 2,687,500	$16,670,718	$12,731,074	$10,889,950	$8,601,534	$7,016,426	$ 58,597,202
Less: Reimbursements	$ (1,862,500)	($2,137,500)	($1,500,000)	($500,000)	($100,000)	($100,000)	$ (6,200,000)
Net Capital Projects	$ 825,000	$ 14,533,218	$ 11,231,074	$ 10,389,950	$ 8,501,534	$ 6,916,426	$ 52,397,202
Non-Recurring Projects	$ 1,525,000	$400,000	$0	$0	$0	$0	$ 1,925,000
Less: Reimbursements	$ (1,525,000)	($400,000)	$0	$0	$0	$0	$ (1,925,000)
Net Non-Recurring Projects	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Cash Flow Required	$ 825,000	$ 14,533,218	$ 11,231,074	$ 10,389,950	$ 8,501,534	$ 6,916,426	$ 52,397,202

Grand Total - Board of Education, Town & WPCF

	FY23	FY24	FY25	FY26	FY27	FY28	Total
Capital Projects	$ 35,663,428	$ 55,238,206	$ 55,997,843	$ 38,054,377	$ 37,396,581	$ 28,703,763	$ 251,054,198
Less: Reimbursements	$ (21,160,200)	$ (20,361,497)	$ (22,540,771)	$ (8,167,738)	$ (9,043,015)	$ (4,107,257)	$ (85,380,478)
Net Capital Projects	$ 14,503,228	$ 34,876,709	$ 33,457,072	$ 29,886,639	$ 28,353,566	$ 24,596,506	$ 165,673,720
Non-Recurring Projects	$ 6,601,344	$ 9,486,344	$ 5,308,298	$ 3,447,981	$ 2,706,799	$ 3,161,519	$ 30,712,285
Less: Reimbursements	$ (2,750,000)	$ (3,867,037)	$ (173,250)	$ (183,750)	$ (104,930)	$ (255,228)	$ (7,334,195)
Net Non-Recurring Projects	$ 3,851,344	$ 5,619,307	$ 5,135,048	$ 3,264,231	$ 2,601,869	$ 2,906,291	$ 23,378,090
							$ -
Total Cash Flow Required	**$ 18,354,572**	**$ 40,496,016**	**$ 38,592,120**	**$ 33,150,870**	**$ 30,955,435**	**$ 27,502,797**	**$ 189,051,810**

TOWN - ANTICIPATED COST OF PROJECTS
SCHEDULE OF CASH FLOW
FY 23 to FY 28

(1) = AMERICAN RESCUE PLAN ACT - TRANCHE 1
(2) = AMERICAN RESCUE PLAN ACT - TRANCHE 2

Updated May 2, 2023

FY23	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net
Conservation	Pine Creek - McCleavy Tidegate Repair	A	$500,000		$500,000
Conservation	Riverside Creek Tidegate Repair	A	$453,200		$453,200
DPW	Sidewalk Repair (2)	A	$500,000	($500,000)	$0
DPW/Sr Ctr	Deck/patio behind Senior Center (2)	A	$100,000	($100,000)	$0
Engineering	Underwater Bridge Inspection and Repairs	A	$150,000		$150,000
Engineering	Increase Resiliency AC Open Space-Jennings Beach - Design	A	$250,000		$250,000
Fire	Fire Station Rehabilitation (2)	A	$250,000	($250,000)	$0
Fire	Self Contained Breathing Apparatus (SCBA)	A	$358,445		$358,445
Parks Dept	Lake Mohegan - Restoration from Storm Ida Damage	A	$500,000	($375,000)	$125,000
Park & Rec	Tennis Center Light Replacement	A	$100,000		$100,000
Park & Rec	Post-Tension Tennis Courts - Dwight	A	$550,000		$550,000
Park & Rec	Jacky Durrell Pavilion Upgrades	A	$103,000		$103,000
SUBTOTAL NRC - FY23			$3,814,645	($1,225,000)	$2,589,645

FY23	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
Conservation	Railroad Bridge Tide Gates	A	$2,250,000		$2,250,000
DPW	Town-wide Facility Upgrades (Based on Audit Recommendations)	A	$1,884,041		$1,884,041
DPW	Capital Equipment	A	$1,190,000		$1,190,000
DPW	Roadway Capital Improvement Plan (2)	A	$4,030,000	($4,030,000)	$0
Economic Development	Downtown Resil. - Perm. Surfacing (2) (Ttl Project: $1.42M)	A	$1,170,000	($1,170,000)	$0
Engineering	Perry's Green Bulkhead (2) (Ttl Project: $1M)	A	$900,000	($900,000)	$0
Engineering	Commerce Drive Bridge Construction (Approved for $2.759m & $200k)	A	$3,900,000	($3,900,000)	$0
Engineering	Rooster River Detention Constr. (2) (Ttl Project: $3.25M)	A	$2,850,000	($2,850,000)	$0
Park & Rec	Roger Ludlowe Middle School Turf	A	$4,125,000		$4,125,000
Town	Penfield Construction / Remediation (Ttl Project: $13M)	P	$5,000,000	($5,000,000)	$0
Town/Public Safety	Traffic Lights (2) (Ttl Project: $1M)	A	$750,000	($750,000)	$0
SUBTOTAL CAPITAL - FY23			$28,049,041	($18,600,000)	$9,449,041

GRAND TOTAL - FY23			**$31,863,686**	**($19,825,000)**	**$12,038,686**

FY24	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net
DPW	Sidewalks - Southport & Stratfield (2)	A	$850,000	($850,000)	$0
Engineering	Guiderail Repairs Phase 2	A	$210,000		$210,000
Engineering	Design of Stratfield Road (RSA)	A	$325,000		$325,000
Engineering	Design of Post Road & Jug Handle	A	$175,000		$175,000
Engineering/Harbor	Lower Wharf / Fishing Pier	A	$800,000	($640,000)	$160,000
Fire	Pumper - LSN 14	A	$980,000		$980,000
Fire	Fire Station Rehabilitation (2)	A	$300,000	($250,000)	$50,000
Fire	Shift Commander Vehicle Replacement	A	$150,000	($150,000)	$0
Park & Rec	Sgt. Murphy Playground Replacement	A	$150,000	($150,000)	$0
Park & Rec	HSR Driving Range Upgrades	A	$275,000		$275,000
Park & Rec	Post-Tension Tennis Courts - Ffld. Woods	A	$522,000		$522,000
Park & Rec	Tunxis Hill Park Pickleball Court Replacement (4) and NEW Courts (2)	A	$575,000		$575,000
Police	Police Department Rehabilitation	A	$350,000	($350,000)	$0
TPZ	Camden Street Properties - Demo/Acquisition/Open Space	A	$642,620	($602,620)	$40,000
SUBTOTAL NRC - FY24			$6,304,620	($2,992,620)	$3,312,000

FY24	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
DPW	Roadway Capital Improvement Plan	P	$3,759,081	($3,250,000)	$509,081
DPW	Capital Equipment	P	$1,053,000		$1,053,000
DPW/Conserv	**Turney Creek/Riverside Dr. Tide Gates**	**P**	**$7,150,000**		**$7,150,000**
Fire	Apparatus Maintenance	P	$1,400,000		$1,400,000
Town	Penfield Construction / Remediation (Ttl Project: $13M)	P	$11,500,000	($11,500,000)	$0
SUBTOTAL CAPITAL - FY24			$24,862,081	($14,750,000)	$10,112,081
GRAND TOTAL - FY24			**$31,166,701**	**($17,742,620)**	**$13,424,081**

FY25	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net
Conservation	S. Benson Marina Tidegate Replacement	P	$405,563		$405,563
Conservation	Salt Meadow Dike Tidegate Repair	P	$740,828		$740,828
DPW	Capital Equipment (Trucks)	P	$336,000		$336,000
DPW	Barnacle Work Boat - Marina	P	$250,000		$250,000
Engineering	Wakeman Lane/Old Rd. Bridge Construct.	P	$432,600		$432,600
Engineering	Southport Median Grant Design	P	$315,000		$315,000
Engineering	Sidewalk Replacement - Large Sections	P	$315,000		$315,000
Engineering	Sturges Bridge Design	P	$346,500	($173,250)	$173,250
Fire	Fire Station Rehabilitation	P	$250,000		$250,000
Fire	Shop Truck Replacement	P	$110,000		$110,000
Park & Rec	Dog Park (Location TBD)	P	$200,000		$200,000
Park & Rec	Lake Mohegan Concession/Water Park	P	$250,000		$250,000
Park & Rec	Lake Mohegan Playground Replacement	P	$150,000		$150,000
Police	Police Department Rehabilitation	P	$500,000		$500,000
SUBTOTAL NRC - FY25			$4,601,490	($173,250)	$4,428,240

FY25	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
DPW	Town-wide Facility Upgrades (Based on Audit Recommendations)	P	$1,414,377		$1,414,377
DPW	Roadway Capital Improvement Plan (2)	P	$3,388,700	($3,125,000)	$263,700
Engineering	S. Benson Storm. Pump Sta/Lines - Design	P	$1,575,000	($1,181,250)	$393,750
Engineering	Black Rock Turnpike Improve. Construct.	P	$2,100,000	($2,100,000)	$0
Engineering	Kings Highway Phase III Construction	P	$2,163,000	($2,163,000)	$0
Engineering	Brookside Drive Bridge Construction	P	$2,163,000	($2,163,000)	$0
Engineering	Congress St. Bridge Construction	P	$3,150,000	($3,150,000)	$0
Engineering	Increase Resiliency - Jennings Beach - Construction	P	$2,100,000		$2,100,000
Engineering	Stratfield Road (RSA) - Construction	P	$2,000,000	($2,000,000)	$0
Engineering	Post Road & Jug Handle - Construction	P	$1,750,000	($1,750,000)	$0
Town	Remediation - Fill Pile Berm (Total - $7 million)	P	$3,500,000		$3,500,000
Library	Fairfield Woods Branch Library Renovation (Debt Service Paid by Library Board)	P	$4,000,000	$0	$4,000,000
SUBTOTAL CAPITAL - FY25			$29,304,077	($17,632,250)	$11,671,827
GRAND TOTAL - FY25			**$33,905,567**	**($17,805,500)**	**$16,100,067**

FY26	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net
Engineering	Increase Resiliency Sasco Hill to WPCF	P	$367,500		$367,500
Engineering	Oldfield Road Bridge Design	P	$367,500	($183,750)	$183,750
Engineering	Hulls Farm Road Bridge Construction	P	$779,762		$779,762
Fire	Fire Station Rehabilitation	P	$262,500		$262,500
Fire	Marine 217	P	$200,510		$200,510
Park & Rec	Beach Parking Kiosks	P	$250,000		$250,000
Park & Rec	Showmobile	P	$178,448		$178,448
Park & Rec	HSR Driving Range Lighting	P	$400,000		$400,000
Park & Rec	Grasmere Playground Replacement	P	$150,000		$150,000
Park & Rec	Rugby Park Playground Replacement	P	$150,000		$150,000
Police	Police Department Rehabilitation	P	$300,000		$300,000
SUBTOTAL NRC - FY26			$3,406,219	($183,750)	$3,222,469

FY26	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
DPW	Roadway Capital Improvement Plan	P	$3,209,852	($2,000,000)	$1,209,852
DPW	Capital Equipment (Trucks)	P	$1,370,250		$1,370,250
DPW	Town-wide Facility Upgrades (Based on Audit Recommendations)	P	$1,414,377		$1,414,377
Engineering	Sturges Bridge Construction	P	$2,703,750	($1,351,875)	$1,351,875
Engineering	Southport Median Grant Construction	P	$2,100,000	($2,100,000)	$0
Fire	Pumper - LSN 15	P	$1,000,000		$1,000,000
Town	Remediation - Fill Pile Berm (Total - $7 million)	P	$3,500,000		$3,500,000
SUBTOTAL CAPITAL - FY26			$15,298,229	($5,451,875)	$9,846,354

GRAND TOTAL - FY26	**$18,704,448**	**($5,635,625)**	**$13,068,823**

FY27	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net
DPW	Capital Equipment (Trucks)	P	$551,250		$551,250
Fire	Fire Station Rehabilitation	P	$262,500		$262,500
DPW/P&R	South Benson Marina Dock Replacement Phase 1	P	$650,000		$650,000
Park & Rec	Knapps Park Playground Replacement	P	$150,000		$150,000
Park & Rec	Hook and Ladder Playground Replacement	P	$150,000		$150,000
SUBTOTAL NRC - FY27			$1,763,750	$0	$1,763,750

FY27	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
DPW	Roadway Capital Improvement Plan	P	$2,100,000	($2,100,000)	$0
DPW	Town-wide Facility Upgrades (Based on Audit Recommendations)	P	$2,913,617		$2,913,617
Engineering	Oldfield Road Bridge	P	$3,150,000	($1,575,000)	$1,575,000
Engineering	Rooster River Dredging - Large Segments	P	$5,250,000	($2,625,000)	$2,625,000
Park & Rec	Jennings Master Plan Upgrade	P	$3,900,000		$3,900,000
SUBTOTAL CAPITAL - FY27			$17,313,617	($6,300,000)	$11,013,617
GRAND TOTAL - FY27			**$19,077,367**	**($6,300,000)**	**$12,777,367**

FY28	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net
DPW/P&R	South Benson Marina Dock Replacement Phase 2	P	$650,000		$650,000
Park & Rec	Veterans Park Playground Replacement	P	$150,000		$150,000
Park & Rec	Veres Park Playground Replacement	P	$150,000		$150,000
Park & Rec	Owen Fish Playground Replacement	P	$300,000		$300,000
SUBTOTAL NRC - FY28			$1,250,000	$0	$1,250,000

FY28	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
DPW	Roadway Capital Improvement Plan	P	$2,100,000	($2,100,000)	$0
DPW/Conserv	Turney Creek/Riverside Dr. Tide Gates	P	$3,575,000		$3,575,000
Park & Rec	Dougiello Master Plan Upgrade	P	$3,200,000		$3,200,000
Fire	Rescue 1 - LSN78	P	$1,500,000		$1,500,000
SUBTOTAL CAPITAL - FY28			$10,375,000	($2,100,000)	$8,275,000
GRAND TOTAL - FY28			**$11,625,000**	**($2,100,000)**	**$9,525,000**

EXHIBIT 5

Fall 2022

WPCA - ANTICIPATED COST OF PROJECTS
SCHEDULE OF CASH FLOW
FY 23-FY 28

Updated May 2, 2023

FY23	**NON- RECURRING CAPITAL (Under $1 million)**		**Cost**	**Reimbursement**	**Net**
WPCF	FAIRFIELD BEACH ROAD PUMP STATION DESIGN	A	$300,000	($300,000) *	$0
WPCF	CENTER ST/S PINE CREEK PUMP STATION DESIGN	A	$600,000	($600,000) *	$0
WPCF	DIGESTER CLEANING	A	$625,000	($625,000) *	$0
SUBTOTAL NRC - FY23			$1,525,000	($1,525,000)	$0

FY23	**CAPITAL (Over $1 million)**		**Cost**	**Reimbursement**	**Net**
WPCF	EAST TRUNK - WETLAND REPLACEMENT (Ttl Project = $6,250,000)	P	$937,500	($112,500)	$825,000
WPCF	DIGESTER REPAIR	P	$1,750,000	($1,750,000)	$0
SUBTOTAL CAPITAL - FY23			$2,687,500	($1,862,500)	$825,000
GRAND TOTAL - FY23			**$4,212,500**	**($3,387,500)**	**$825,000**

FY24	**NON- RECURRING CAPITAL (Under $1 million)**		**Cost**	**Reimbursement**	**Net**
WPCF	**RIVERSIDE DRIVE SIPHON (Part of Turney Creek)**	**P**	**$400,000**	**($400,000)**	**$0**
SUBTOTAL NRC - FY24			$400,000	($400,000)	$0

FY24	**CAPITAL (Over $1 million)**		**Cost**	**Reimbursement**	**Net**
WPCF	EAST TRUNK - WETLAND REPLACEMENT (Ttl Project = $6,250,000)	P	$5,312,500	($637,500)	$4,675,000
WPCF	FAIRFIELD BEACH ROAD STATION UPGRADE (Ttl Project = $3,720,816)	P	$2,217,606		$2,217,606
WPCF	FAIRFIELD BEACH ROAD FORCE MAIN (Ttl Project = $2,752,704)	P	$1,640,612		$1,640,612
WPCF	**EAST TRUNK LINE REPLACEMENT (Ttl Project = $11,000,000)**	**P**	**$5,500,000**	**($1,500,000)**	**$4,000,000**
WPCF	ENVIRONMENTAL STUDY - WPCF PROPERTY	P	$2,000,000		$2,000,000
SUBTOTAL CAPITAL - FY24			$16,670,718	($2,137,500)	$14,533,218
GRAND TOTAL - FY24			**$17,070,718**	**($2,537,500)**	**$14,533,218**

FY25	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net
WPCF			$0	$0	$0
SUBTOTAL NRC - FY25			$0	$0	$0

FY25	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
WPCF	FAIRFIELD BEACH ROAD STATION UPGRADE (Ttl Project = $3,720,816)	P	$1,503,210		$1,503,210
WPCF	FAIRFIELD BEACH ROAD FORCE MAIN (Ttl Project = $2,752,704)	P	$1,112,092		$1,112,092
WPCF	**EAST TRUNK LINE REPLACEMENT (Ttl Project = $10,000,000)**	**P**	**$5,500,000**	**($1,500,000)**	**$4,000,000**
WPCF	CENTER STREET PUMP STATION UPGRADE (Ttl Project = $1,776,194)	P	$1,058,612		$1,058,612
WPCF	CENTER STREET FORCE MAIN (Ttl Project = $3,451,611)	P	$2,057,160		$2,057,160
WPCF	KINGS HIGHWAY TRUNK DESIGN	P	$1,500,000		$1,500,000
SUBTOTAL CAPITAL - FY25			$12,731,074	($1,500,000)	$11,231,074
GRAND TOTAL - FY25			**$12,731,074**	**($1,500,000)**	**$11,231,074**

FY26	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement	Net
WPCF					
SUBTOTAL NRC - FY26			$0	$0	$0

FY26	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
WPCF	WASTEWATER PLANT UPGRADE DESIGN	P	$4,000,000	($500,000)	$3,500,000
WPCF	CENTER STREET PUMP STATION UPGRADE (Ttl Project = $1,776,194)	P	$717,582		$717,582
WPCF	CENTER STREET FORCE MAIN (Ttl Project = $3,451,611)	P	$1,394,451		$1,394,451
WPCF	PINE CREEK STATION UPGRADE (Ttl Project = $3,716,150)	P	$2,214,826		$2,214,826
WPCF	PINE CREEK FORCE MAIN (Ttl Project = $944,784)	P	$563,091		$563,091
WPCF	KINGS HWY TRUNK CONSTRUCTION (Ttl Project = $10,000,000)	P	$2,000,000		$2,000,000
SUBTOTAL CAPITAL - FY26			$10,889,950	($500,000)	$10,389,950
GRAND TOTAL - FY26			**$10,889,950**	**($500,000)**	**$10,389,950**

FY27	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement		Net
WPCF			$0	$0	*	$0
SUBTOTAL NRC - FY27			$0	$0		$0

FY27	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
WPCF	TOLLHOUSE STATION UPGRADE (Ttl Project = $1,689,727)	P	$1,007,077		$1,007,077
WPCF	TOLLHOUSE STATION FORCE MAIN (Ttl Project = $1,616,261)	P	$963,291		$963,291
WPCF	PINE CREEK STATION UPGRADE (Ttl Project = $3,716,150)	P	$1,501,325		$1,501,325
WPCF	PINE CREEK FORCE MAIN (Ttl Project = $944,784)	P	$381,693		$381,693
WPCF	RUANE & THORPE PIPE REPAIR/REPLACEMENT (Ttl Project = $1,322,395)	P	$788,148	($100,000)	$688,148
WPCF	KINGS HWY TRUNK CONSTRUCTION (Ttl Project = $10,000,000)	P	$3,960,000		$3,960,000
SUBTOTAL CAPITAL - FY27			$8,601,534	($100,000)	$8,501,534
GRAND TOTAL - FY27			**$8,601,534**	**($100,000)**	**$8,501,534**

FY28	NON- RECURRING CAPITAL (Under $1 million)		Cost	Reimbursement		Net
WPCF			$0	$0	*	$0
SUBTOTAL NRC - FY28			$0	$0		$0

FY28	CAPITAL (Over $1 million)		Cost	Reimbursement	Net
WPCF	TOLLHOUSE STATION UPGRADE (Ttl Project = $1,689,727)	P	$682,650		$682,650
WPCF	TOLLHOUSE STATION FORCE MAIN (Ttl Project = $1,616,261)	P	$652,969		$652,969
WPCF	KINGS HWY TRUNK CONSTRUCTION (Ttl Project = $10,000,000)	P	$4,040,000		$4,040,000
WPCF	RUANE & THORPE PIPE REPAIR/REPLACEMENT (Ttl Project = $1,322,395)	P	$534,248	($100,000)	$434,248
WPCF	EASTFIELD STATION UPGRADE (Ttl Project = $1,083,835)	P	$645,966		$645,966
WPCF	EASTFIELD STATION FORCE MAIN (Ttl Project = $772,808)	P	$460,593		$460,593
SUBTOTAL CAPITAL - FY28			$7,016,426	($100,000)	$6,916,426
GRAND TOTAL - FY28			**$7,016,426**	**($100,000)**	**$6,916,426**

This Plan is not in scope.

RIVERSIDE DRIVE

Environmental Borings Not Advanced within this Portion of the Alignment

SANITARY MANHOLE	NORTHING	EASTING
EX. AT STA. 3+00	616,498.75	865,759.20
1	616,623.41	865,819.99
2	616,708.85	865,716.46
3	616,838.54	865,701.82
4	616,921.59	865,760.76

CONTROL POINT #2
PK NAIL
N 616,407.66
E 865,836.86
EL. 8.21

SMH-1 STA 4+38.69
SMH-2 STA 5+72.86
SMH-3 STA 7+03.35
SMH-4 STA 8+05.27

100 YEAR FLOODPLAIN (TYP)

134 LF 36" RCP

APPROX. LOCATION OF TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF 1' BELOW GRADE

SUPPORT AND PROTECT EXISTING CONC. BLOCK WALL AND WOOD FENCE

PROP TEMPORARY CONSTRUCTION EASEMENT

C.I.P.P. LINER (TYP)

CLEAR WOODED AREA FOR SEWER BYPASS SYSTEM. CLEARING SHALL BE MINIMIZED.

INSTALL STEEL SHEETING COFFERDAM, DEWATER, BYPASS SEWAGE FLOW, EXCAVATE AND REMOVE EX. SMH, INSTALL NEW 7' I.D. MANHOLE. RE-CONNECT EXISTING 36" RCP AND CONNECT NEW 36" RCP. RAISE NEW MANHOLE TO TOP OF FRAME ELEV 12.0. STEEL SHEETING SHALL BE CUT OFF TO TOP ELEVATION 9.5 AND LEFT IN PLACE. FILL WATERWARD SIDE OF SHEETING AS SHOWN WITH INTERMEDIATE RIPRAP. SEE SHEET SED-01 FOR A 10 SCALE DETAIL OF THIS AREA. STEEL SHEETING SHALL BE DRIVEN TO A MINIMUM OF 2-FEET BELOW BOTTOM OF MANHOLE.

TREES TO BE REMOVED

REMOVE AND RESTORE BOULDERS

SILT FENCE (TYP)

20' PERMANENT SAN. SEWER EASEMENT (TO BE OBTAINED BY THE TOWN)

EX. 36" RCP TO BE ABANDONED-IN-PLACE (TYP)

PROPOSED CHIMNEY AND 6" PVC SEWER LATERAL FOR FUTURE BUILDING LOCATION. ELEVATION OF CHIMNEY AND SIZE AND INVERT OF SEWER LATERAL TO BE FIELD DETERMINED AFTER CONSULTATION WITH BUILDING MECHANICAL ENGINEER.

30' TEMPORARY CONSTRUCTION EASEMENT (TO BE OBTAINED BY THE TOWN)

APPROX. LOCATION OF TEMPORARY SHEETING

AREA RESERVED FOR DEWATERING SILT/FILTER BAG(S)

APPROXIMATE 50 YEAR FLOODPLAIN (TYP)

APPROXIMATE 10 YEAR FLOODPLAIN (TYP)

PROTECT OVERHEAD WIRES

SUPPORT AND PROTECT UG ELEC (TYP)

TEMP CONSTRUCTION EASEMENT

SUPPORT AND PROTECT EX. 15" RCP

102 LF 36" RCP

INSTALL 7' I.D. SMH. RE-CONNECT EX. 36" RCP. CONNECT NEW 36" RCP.

CATCH BASIN SEDIMENT FILTER (TYP)

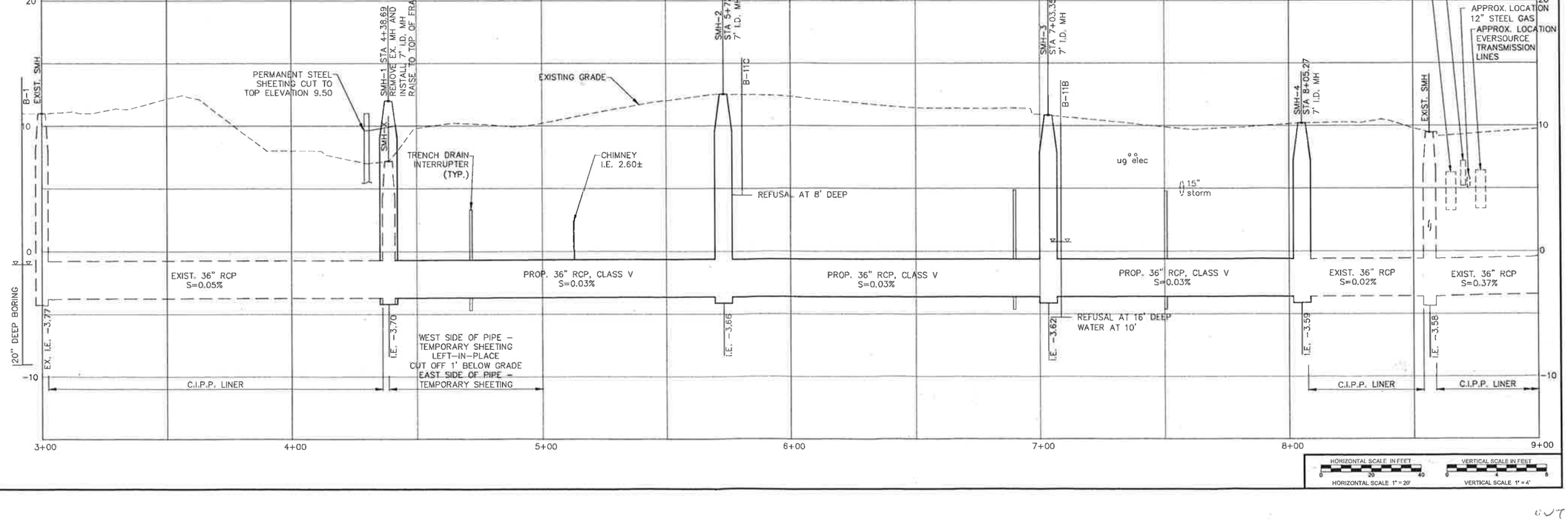
C.I.P.P. LINER (TYP)

POST ROAD

FOR CONTINUATION SEE SHEET PP-2

CT RTE. 130

SCALE IN FEET
0 20 40
SCALE 1" = 20'



HORIZONTAL SCALE IN FEET 0 20 40 — HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE IN FEET 0 4 8 — VERTICAL SCALE 1" = 4'

NO.	REVISION	DATE	BY

DATE: AUGUST 2019
SCALE: AS NOTED
DESIGNED BY: WB
DRAWN BY: SS
CHECKED BY: WB
APPROVED BY: JAC

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969

STATE OF CONNECTICUT — REGISTERED PROFESSIONAL ENGINEER

EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT
PLAN AND PROFILE - PRIVATE PROPERTY #1/#59 POST ROAD

PP-1

4

ISSUED FOR DECD REVIEW - AUGUST 21, 2019

OUT OF context

This section in not in Project Scope

FOR CONTINUATION SEE SHEET PP-1

RIVERSIDE DRIVE

SCALE IN FEET
0 20 40
SCALE 1" = 20'

SANITARY MANHOLE	NORTHING	EASTING
3	616,838.54	865,701.82
4	616,921.59	865,760.76
5	617,028.54	865,707.19
5A	617,023.23	865,686.85
6	616,892.24	865,576.38
7	616,925.80	865,524.15

NOTE:
THE EXISTING BUS STOP SIGN WILL BE RELOCATED BY THE CONTRACTOR TO A TEMPORARY LOCATION NEAR THE ASH CREEK BRIDGE (SEE THIS SHEET). THE CONTRACTOR SHALL CONTACT MR. STEVE DEMICHAEL OF THE GBTA (203-416-1258) TO COORDINATE THE REMOVAL, TEMPORARY PLACEMENT AND PERMANENT REPLACEMENT OF THE BUS STOP SIGN.

APPROXIMATE 10 YEAR FLOODPLAIN (TYP)
APPROXIMATE 50 YEAR FLOODPLAIN (TYP)
100 YEAR FLOODPLAIN (TYP)
POTENTIAL UTILITY POLE RELOCATION (BY UI)
TEMPORARY SEWER CONSTRUCTION EASEMENT (EQUIPMENT ACCESS/EGRESS)
C.I.P.P. LINER (TYP)
APPROX. LOCATION OF TEMPORARY SHEETING LEFT-IN-PLACE (TYP.) CUT OFF 4' BELOW GRADE
APPROXIMATE LOCATION OF TEMPORARY RELOCATED GBTA BUS STOP SIGN (SEE NOTE ABOVE)
CATCH BASIN SEDIMENTATION FILTER (TYP)
APPROX. LOCATION OF TEMPORARY SHEETING (TYP.)
POST ROAD
EXISTING GBTA BUS STOP SIGN TO BE RELOCATED
PROTECT HANDHOLE
SUPPORT AND PROTECT WATER VALVE MH
CT RTE. 130
SUPPORT AND PROTECT PEDESTRIAN SIGNAL
ROADWAY AREA TO BE MILLED AND OVERLAID
CONTROL POINT #5
PK NAIL
N 616,869.68
E 865,558.61
ELT=12.69'
21 LF 36" RCP
171 LF 36" RCP
AREA RESERVED FOR DEWATERING DISCHARGE AREA AND SILT/FILTER BAGS(S)
ASH CREEK
SMH-5
STA 9+31.26
REMOVE EX. SMH AND REPLACE WITH NEW 7' I.D. SMH. RE-CONNECT EX. 33" AND 36" RCP. CONNECT NEW 36" RCP.
POTENTIAL UTILITY POLE RELOCATION (BY UI)
SMH-5A
STA 9+49, 11' RT
INSTALL NEW 7' I.D. SMH.
PROTECT AND SUPPORT WATER SERVICE
SILT FENCE (TYP)
REMOVE AND RESTORE SIGN AND AREA LIGHT
REMOVE TREE (TYP)
TB-22
1-4'
RELOCATE UI POLE (BY OTHERS)
PROTECT AND SUPPORT HYDRANT
REMOVE, STORE AND REINSTALL BRICKS
REMOVE, STORE AND REINSTALL SIGN
PROTECT LIGHT POLE
SUPPORT AND PROTECT TELEPHONE DUCT BANK (SEE NOTE 10 THIS SHEET)
GRASMERE AVENUE
APPROX. LOCATION OF TEMPORARY SHEETING LEFT-IN-PLACE (TYP.) CUT OFF 4' BELOW GRADE (SMH 4 TO SMH 6)
EXISTING 10-INCH WATER MAIN TO BE ABANDONED BY AQUARION WATER COMPANY. SEE ATTACHED DRAWINGS BY LUCHS CONSULTING ENGINEERS AND SPECIAL CONDITION 369.
SUPPORT AND PROTECT UG ELECTRIC DUCT BANK (SEE NOTE 10 THIS SHEET)
FOR CONTINUATION SEE SHEET PP-3
SMH-6
STA 11+18.17
62.5 LF 36" RCP
SUPPORT AND PROTECT TELEPHONE DUCT BANK (SEE NOTE 10 THIS SHEET)
REMOVE, STORE AND REINSTALL LIGHT POLE
SUPPORT AND PROTECT UG ELECTRIC DUCT BANK (SEE NOTE 10 THIS SHEET)
SMH-7
STA 11+81.08
SUPPORT AND PROTECT EX. SEWER SERVICE (TYP)
TB-23
5-8'
GWS

EVERSOURCE TRANSMISSION LINES
UI ELECTRIC
UI ELECTRIC
12" STEEL GAS
EVERSOURCE TRANSMISSION LINES
EX. SMH=SMH-5 (STA 9+31.26) REMOVE EX. SMH AND INSTALL 7' I.D. MH (DROP)
SMH-5A (STA 9+49, 11' RT) INSTALL 7' I.D. MH
SMH-4 INSTALL NEW 7' I.D. MH
EXIST. SMH
B-11A
B-11D
EXISTING GRADE
SMH-6 STA 11+18.17 INSTALL 7' I.D. MH (DROP) AND CONNECT EX. 8" VCP WITH DROP CONNECTION
EXIST. SMH
B-10
SMH-7
STA 11+81.08
7' I.D. MH
TRENCH DRAIN INTERRUPTER (TYP.)
ABANDON EX. 8" VCP AFTER ALL SERVICE LATERALS ARE CONNECTED TO NEW 36" RCP
REFUSAL AT 6.5' DEEP
24" water
8" sewer (POST ROAD)
EXIST. 36" RCP S=0.02%
EXIST. 36" RCP S=0.37%
PROP. 36" RCP, CLASS V S=0.044%
PROP. 36" RCP, CLASS V S=0.044%
PROP. 36" RCP, CLASS V S=0.044%
REFUSAL AT 14.5' DEEP
WATER AT 8.5'
15' DEEP BORING
WATER AT 8.5'
36" I.E. -3.29
8" I.E. 2.20
6" I.E. 2.00
6" I.E. -0.50 (DROP)
33" & 36" I.E. -3.30
I.E. -3.59
I.E. -3.58
I.E. -3.19
C.I.P.P. LINER
C.I.P.P. LINER
BOTH SIDES OF PIPE - TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF 4' BELOW GRADE
SOUTH SIDE OF PIPE - TEMPORARY SHEETING
NORTH SIDE OF PIPE - TEMPORARY SHEETING
SOUTH SIDE OF SOUTH PIPE - TEMP SHTNG
SOUTH SIDE OF PIPE - TEMP SHTNG
SOUTH SIDE OF PIPE - TEMP SHTNG
SOUTH SIDE OF PIPE - TEMP SHTNG L-I-P
EX. 8" I.E. 4.1± (DROP)
36" I.E. -3.22
WEST SIDE OF PIPE - TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF 4' BELOW GRADE
EAST SIDE OF PIPE - TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF 4' BELOW GRADE
20
10
0
-10
8+00
9+00
10+00
11+00
12+00

NOTES:
1. NEW 36" RCP SEWER PIPE SHALL BE INSTALLED IN A PORTION OF THE EX. 8" VCP HORIZONTAL LOCATION FROM SMH-5 TO SMH-6. CONNECT EX. 8" VCP TO SMH-6 AND INSTALL AN EXTERIOR DROP CONNECTION.

2. THE CONTRACTOR SHALL REPLACE THE EXISTING CONCRETE SIDEWALK, PEDESTRIAN RAMPS, BITUMINOUS DRIVEWAY, GRAVEL DRIVEWAY, BITUMINOUS CURB AND BRICK SIDEWALK WITHIN THE SHADED AREA BETWEEN SMH-5 AND SMH-7.

3. SEWAGE BYPASS PIPING ALIGNMENT FROM THE NORTH SIDE TO THE SOUTH SIDE OF POST ROAD SHALL BE DETERMINED BY THE CONTRACTOR. CROSSING POST ROAD WITH BYPASS PIPING WILL REQUIRE THE PIPE OR PIPES TO BE BURIED. THE BYPASS PUMPING PLAN MUST BE DESIGNED BY THE CONTRACTOR AND INCLUDED IN THE ENCROACHMENT PERMIT APPLICATION. CROSSING POST ROAD WILL REQUIRE LANE CLOSURES DURING THE TEMPORARY PIPE BURIAL AND REMOVAL. ALL LANE CLOSURES SHALL BE MUTCD COMPLIANT AND CONFORM TO THE APPLICABLE CT DOT STANDARD PLANS INCLUDED IN TECHNICAL SPECIFICATION No. 01576 OR AS REQUIRED BY THE ENCROACHMENT PERMIT CONDITIONS.

4. EXISTING LIGHT POLES WITHIN SIDEWALK SHALL BE PROTECTED OR REMOVED, STORED AND REINSTALLED. DAMAGED ELECTRICAL CONDUITS SHALL BE REPLACED AND/OR REPAIRED.

5. TEMPORARY SHEETING SHALL BE DRIVEN TO 4-FOOT BELOW PROPOSED PIPE OR REFUSAL. TEMPORARY SHEETING LEFT-IN-PLACE SHALL BE REMOVED TO THE GRADE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.

6. THE CONTRACTOR SHALL CONTACT THE DISTRICT 3 SURVEY UNIT, MR. VINCENT HANCHURUCK (203-389-3112) PRIOR TO ANY CONSTRUCTION WITHIN THE STATE RIGHT-OF-WAY.

7. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL ENGINEERING COSTS SHOULD THE CT DOT BOUNDARY/SURVEY MARKERS BE DISTURBED OR DAMAGED.

8. IN THE EVENT THE CT DOT DETERMINES THAT BOUNDARY/SURVEY MARKERS WITHIN THE PROJECT AREA NEED TO BE REPLACED DUE TO THE PROPOSED CONSTRUCTION, THE CT DOT SURVEY UNIT WILL FURNISH NEW MONUMENTS, WHICH THE CONTRACTOR WILL BE REQUIRED TO INSTALL UNDER THE DIRECTION OF A CT LICENSED SURVEYOR.

9. THE CT DOT BOUNDARY/SURVEY MARKERS SHALL BE VERIFIED AND ACCEPTED BY THE DISTRICT 3 SURVEY UNIT PRIOR TO RELEASING THE ENCROACHMENT PERMIT BOND.

10. THE CONTRACTOR'S DESIGN ENGINEER SHALL CONTACT THE AFFECTED UTILITY COMPANY AND DESIGN A SUPPORT SYSTEM FOR THE UNDERGROUND UTILITY CROSSING. THE SUPPORT SYSTEM DESIGN SHALL BE SUBMITTED TO THE RESPECTIVE UTILITY FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION AT THE CROSSING (SEE SPECIAL CONDITION 366).

11. THE CONTRACTOR SHALL PERFORM AN EXISTING CONDITION SURVEY OF EACH EXISTING BUILDING STRUCTURE PRIOR TO ANY DRIVING OF SHEETING. THE PRE-SHEET DRIVING SURVEY SHALL BE PERFORMED FOR ALL STRUCTURES WITHIN A 250-FOOT RADIUS OF THE LIMITS OF DRIVING. THE COST OF THIS SURVEY SHALL BE INCLUDED IN THE UNIT BID COST FOR SHEETING.

12. THE CONTRACTOR WILL BE REQUIRED TO PREPARE A MUTCD COMPLIANT SIDEWALK CLOSURE PLAN AROUND THE WORK AREA IN POST ROAD. THE PLAN SHALL CONFORM TO MUTCD PART 6. THIS PLAN SHALL BE INCLUDED IN THE ENCROACHMENT PERMIT SUBMITTAL. IT IS SUGGESTED THAT THE CONTRACTOR CONSIDER UTILIZING A LANE CLOSURE WITH A DEDICATED PEDESTRIAN WALKWAY FOR THE NORTH SIDEWALK CLOSURE. THE CONTRACTOR IS NOTIFIED THAT THE SIDEWALK CLOSURE PLAN SHALL INCLUDE GRASMERE AVENUE AND THE PLACEMENT OF SIGNS DIRECTING PEDESTRIANS TO THE SOUTH SIDEWALK IN GRASMERE AVENUE. A SUGGESTED POST ROAD SIDEWALK CLOSURE PLAN HAS BEEN PREPARED, REVIEWED BY THE CT DOT DISTRICT 3, AND IS INCLUDED AS SHEETS 17 AND 18. ALSO SEE SPECIAL CONDITION 370.

13. THE CONTRACTOR SHALL BE REQUIRED TO CONFORM TO THE CT DOT STANDARD DETAILS FOR SIDEWALK, CURB, DRIVEWAY APRONS, PAVEMENT SECTIONS AS SHOWN ON THE DETAIL SHEETS PROVIDED. THE CONTRACTOR SHALL CONFORM TO THE TOWN STANDARD DETAILS FOR ALL RESTORATION OUTSIDE THE POST ROAD RIGHT-OF-WAY.

14. THE CONTRACTOR SHALL BE REQUIRED TO INCLUDE WITH THE ENCROACHMENT PERMIT APPLICATION SUBMITTAL A DESCRIPTION OF HIS PLANS FOR LANE CLOSURES IN POST ROAD AFFECTED BY THE CONSTRUCTION WITHIN THE POST ROAD RIGHT-OF-WAY. THE CONTRACTOR MAY REFER TO THE APPLICABLE STANDARD CT DOT TRAFFIC CONTROL SIGNAGE AND CONSTRUCTION TRAFFIC CONTROL PLANS INCLUDED IN SPECIFICATION SECTION 01576. THE SIGNAGE AND LANE CLOSURE PLANS TO BE EMPLOYED SHALL COVER THE WORK INVOLVING CONSTRUCTION EQUIPMENT MOVEMENTS AND PLACEMENTS, TEMPORARY SIDEWALK DETOURS, RESTORATION ACTIVITIES AND SEWAGE BYPASS PIPING INSTALLATION/REMOVAL. THE CONTRACTOR SHALL PREPARE AND SUBMIT A FORMAL M&PT PLAN IF BARRIERS AND ATTENUATORS ARE UTILIZED.

15. THE CONTRACTOR IS NOTIFIED THAT THE CT DOT WILL ALLOW FOR THE SEWAGE BYPASS PIPING TO CROSS THE POST ROAD VIA AN UNDERGROUND (BURIED) CROSSING. THE CONTRACTOR SHALL PROVIDE A BYPASS PUMPING PLAN THAT SHOWS LANE CLOSURES AND A SECTION DETAIL OF THE PROPOSED BYPASS PIPING CROSSING. THE DETAIL SHALL SHOW THE NUMBER AND SIZE OF BYPASS PIPES, THE DEPTH OF COVER AND THE CLEARANCE AT EXISTING UTILITY CROSSINGS. THE PIPING SHALL BE SECURELY ANCHORED AND BEDDED AND THE TRENCH BE PAVED WITH A TEMPORARY PAVEMENT OF 4-INCHES THICKNESS. THE BYPASS PIPING SHALL BE REMOVED AS SOON AS POSSIBLE AFTER BYPASSING IS COMPLETE.

16. ALL DRAWINGS, DETAILS, ETC. THAT ARE NOT STANDARD CT DOT DRAWING/DETAILS SHALL BE DESIGNED, SEALED/SIGNED BY A CT LICENSED P.E. AND SUBMITTED WITH THE ENCROACHMENT PERMIT.

17. THE CT P.E. SIGNED/SEALED SHEETING DESIGN AND A BLASTING PLAN (IF REQUIRED WITHIN POST ROAD) IN NARRATIVE FORM SHALL BE SUBMITTED WITH THE ENCROACHMENT PERMIT APPLICATION.

HORIZONTAL SCALE IN FEET
0 20 40
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE IN FEET
0 4 8
VERTICAL SCALE: 1" = 4'

NO.	REVISION	DATE	BY

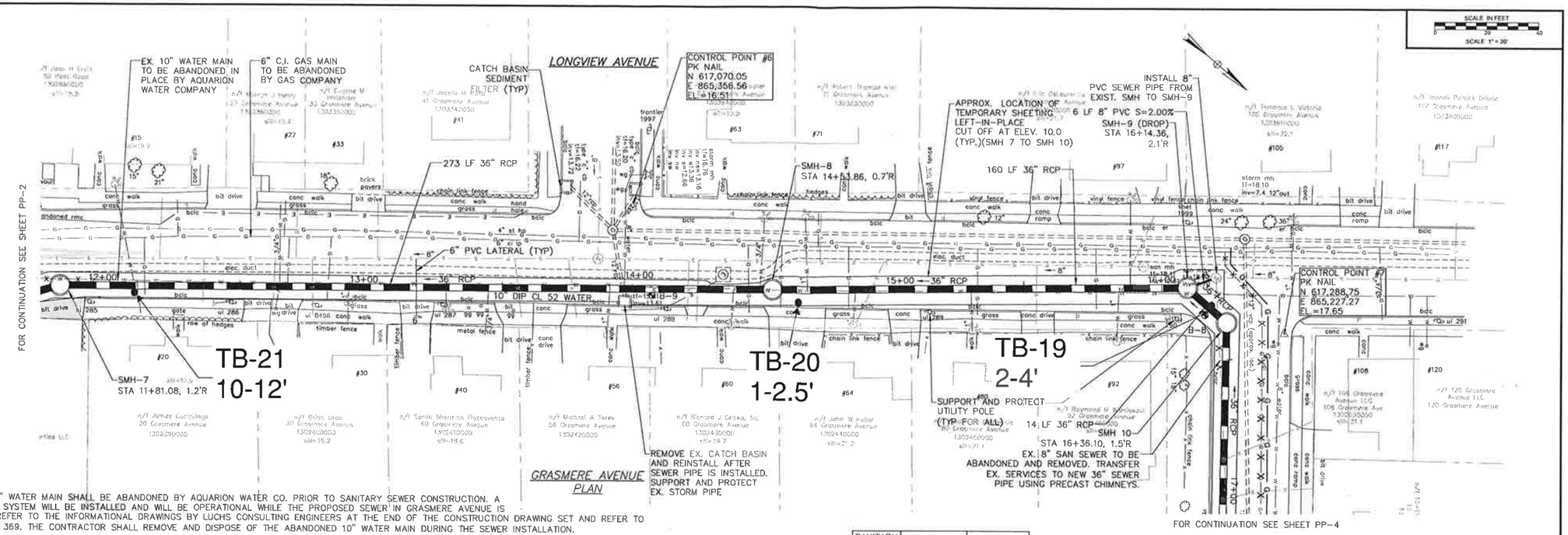
DATE: AUGUST 2019
SCALE: AS NOTED
DESIGNED BY: WB
DRAWN BY: SS
CHECKED BY: WB
APPROVED BY: JAC

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1369

ISSUED FOR DECD REVIEW - AUGUST 21, 2019

EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT
PLAN AND PROFILE - POST ROAD

PP-2
5



NOTES:

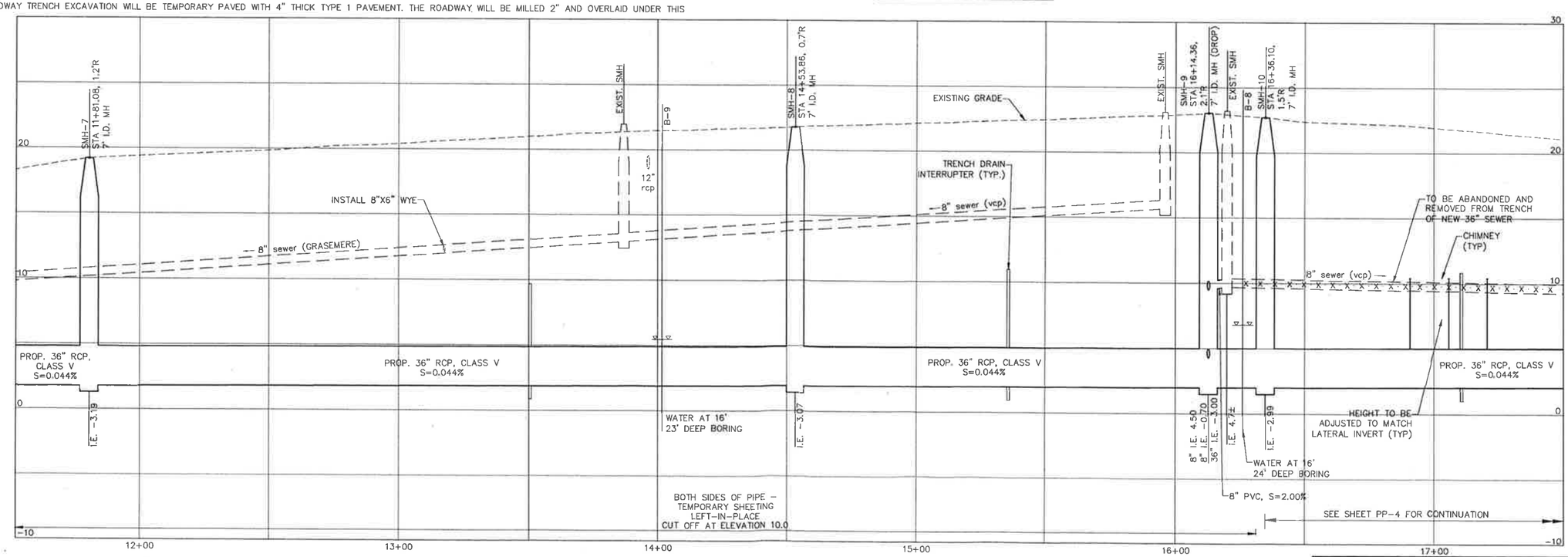
1. THE EXISTING 10" WATER MAIN SHALL BE ABANDONED BY AQUARION WATER CO. PRIOR TO SANITARY SEWER CONSTRUCTION. A TEMPORARY WATER SYSTEM WILL BE INSTALLED AND WILL BE OPERATIONAL WHILE THE PROPOSED SEWER IN GRASMERE AVENUE IS BEING INSTALLED. REFER TO THE INFORMATIONAL DRAWINGS BY LUCHS CONSULTING ENGINEERS AT THE END OF THE CONSTRUCTION DRAWING SET AND REFER TO SPECIAL CONDITION 369. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE ABANDONED 10" WATER MAIN DURING THE SEWER INSTALLATION.

2. ALL EX. WATER AND SAN. SEWER SERVICES CROSSING THE NEW 36" RCP SEWER SHALL BE SUPPORTED AND PROTECTED. THE CONTRACTOR HAS THE OPTION OF REMOVING AND REPLACING THE SANITARY SEWER SERVICE LINES AT HIS CONVENIENCE AT NO ADDITIONAL COST TO THE OWNER.

3. THE CONTRACTOR SHALL SUPPORT AND PROTECT ALL GAS SERVICES AND THE EX. UNDERGROUND ELECTRIC DUCT BANK.

4. ALL ROADWAY TRENCH EXCAVATION WILL BE TEMPORARY PAVED WITH 4" THICK TYPE 1 PAVEMENT. THE ROADWAY WILL BE MILLED 2" AND OVERLAID UNDER THIS PROJECT.

SANITARY MANHOLE	NORTHING	EASTING
7	616,925.80	865,524.15
8	617,131.12	865,344.52
9	617,249.31	865,238.73
10	617,269.49	865,238.77



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CARDINAL
ENGINEERING ASSOCIATES
9 Colony Street | Meriden, CT 06451 | 203-238-1969

STATE OF CONNECTICUT
REGISTERED PROFESSIONAL ENGINEER

EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT
PLAN AND PROFILE - GRASMERE AVENUE

PP-3

6

ISSUED FOR DECD REVIEW - AUGUST 21, 2019

GRASMERE AVENUE

FOR CONTINUATION SEE THIS SHEET

FOR CONTINUATION SEE SHEET PP-3

TB-19
2-4'

TB-18
12-14'
PAH >DEC

TB-17
8-10'

TB-16
10-12'

TB-15
1-4'

TB-14
10-12

INSTALL 8" PVC SEWER PIPE FROM EXIST SMH TO SMH-9

EXISTING GAS MAIN TO BE ABANDONED

THE EXISTING WATER MAIN SHALL BE SUPPORTED AND PROTECTED AT THE SEWER CROSSING. DAMAGED WATER PIPING SHALL BE REPAIRED AT THE CONTRACTOR'S COST.

APPROX. LOCATION OF TEMPORARY SHEETING TO BE LEFT-IN-PLACE AND CUT OFF AT ELEV. 5.0 (SMH-10 TO SMH-13)

CONTROL POINT #7
PK NAIL
N 617,288.75
E 865,227.27
EL.=17.65

RELOCATED 2" PLASTIC GAS (BY GAS CO.)

SEWER CHIMNEY (TYP)

SMH-10
STA 16+36.10, 1.5'R

20 LF 36" RCP

SMH-9
STA 16+14.

160 LF 36" RCP

145 LF 36" RCP

SMH-11
STA 17+79.83
CONNECT EX. SEWER SERVICE TO NEW MANHOLE

80 LF 36" RCP

PROTECT AND SUPPORT UTILITY POLE

AREA RESERVED FOR DEWATERING SILT/FILTER BAG(S)

CONTROL POINT #8
PK NAIL
N 617,411.05
E 865,396.99
EL.=14.33

100 YEAR FLOODPLAIN (TYP)

APPROXIMATE 50 YEAR FLOODPLAIN (TYP)

APPROXIMATE 10 YEAR FLOODPLAIN (TYP)

ASH STREET
PLAN

SMH-13
STA 19+49.24, 5.3'R

EX. 8" SEWER TO BE ABANDONED IN PLACE (TYP)

87 LF 36" RCP

SILT FENCE

CATCH BASIN SEDIMENT FILTER (TYP)

SUPPORT AND PROTECT STORM DRAIN AND WATER

SMH-12
STA 18+60.32, 0.4'R

INSTALL CHIMNEY ON EX. 8" SEWER 6" I.E. 10.00

INSTALL NEW 6" PVC SEWER LATERAL, CAP END AND INSTALL MARKER #27

PROPOSED 2" PLASTIC GAS MAIN

210 LF 36" RCP

RELOCATED 2" GAS MAIN (BY GAS CO.)

EXIST. 4" C.I. GAS TO BE ABANDONED

CATCH BASIN SEDIMENT FILTER (TYP)

SANITARY MANHOLE	NORTHING	EASTING
9	617,249.31	865,238.73
10	617,269.49	865,238.77
11	617,362.56	865,148.30
12	617,432.28	865,388.61
13	617,506.24	865,338.45
14	617,663.79	865,201.05
15	617,690.49	865,217.29

REMOVE EX. 8" VCP (SE) AND INSTALL NEW 8" PVC

REMOVE EX. GAS MAIN TO BE ABANDONED BY GAS CO.

91 LF 36" RCP

SUPPORT AND PROTECT STORM DRAIN

SMH-14
STA 21+58.28, 4.1'R
CONNECT 8" PVC FROM EXIST. SMH AND INSTALL 8" DROP CONNECTION

SUPPORT AND PROTECT STORM DRAIN

SMH-15
STA 22+11.67, 12.9'R

CONTROL POINT #9
PK NAIL
N 617,697.32
E 865,189.80
EL.=18.76

309 LF 36" RCP

RELOCATED 2" GAS MAIN (BY GAS CO.)

PROPOSED 36" SANITARY TO BE INSTALLED IN EXISTING GAS LOCATION. GAS LINE TO BE RELOCATED/ABANDONED BY GAS COMPANY.

APPROX. LOCATION OF TEMPORARY SHEETING TO BE LEFT-IN-PLACE AND CUT OFF AT ELEV. 5.0 (SMH-13 TO SMH-15)

DALEWOOD AVENUE
PLAN

APPROXIMATE 50 YEAR FLOODPLAIN (TYP)

100 YEAR FLOODPLAIN (TYP)

APPROXIMATE 10 YEAR FLOODPLAIN (TYP)

FOR CONTINUATION SEE SHEET PP-5

KENWOOD AVENUE

NOTES:
1. BETWEEN SMH-11 AND SMH-13, THE CONTRACTOR MAY ELECT TO SUPPORT AND PROTECT THE EXISTING STORM DRAIN PIPES OR HE MAY ELECT TO REMOVE AND REPLACE THEM WITH PVC SDR-35 AFTER INSTALLATION OF THE NEW SEWER PIPE. THIS REMOVAL SHALL BE SCHEDULED TO OCCUR DURING A DRY PERIOD OR A TEMPORARY PIPE SHALL BE INSTALLED. THE COST OF REPLACING THE STORM PIPE SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
2. IF THE STORM PIPES ARE NOT REMOVED AND REPLACED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AND THE TRENCH SURROUNDING EACH STORM PIPE SHALL BE FILLED WITH CLSM FROM A POINT 2 FEET BELOW THE STORM PIPE TO 1-FOOT ABOVE THE PIPE. THE COST OF THE SUPPORT, PROTECTION AND CLSM INSTALLATION SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
3. ALL ROADWAY TRENCH EXCAVATION WITHIN ASH STREET AND DALEWOOD AVENUE WILL BE TEMPORARY PAVED WITH 2" THICK PAVEMENT. THE TOWN WILL RETURN AT THE END OF THE PROJECT AND HAVE THE PAVING CONTRACTOR RECLAIM THE ROADWAYS.

SCALE IN FEET
0 20 40
SCALE 1" = 20'

EXISTING GRADE

SMH-9 STA 16+14.36, 2.1'R 7' I.D. MH (DROP)
EXIST. SMH
B-8
SMH-10 STA 16+36.1 1.5'R 7' I.D. MH
SMH-11 STA 17+79.83 7' I.D. MH (DROP)
B-7
SMH-12 STA 18+60.32, 0.4'R 7' I.D. MH
PLUG EX. 8" VCP PIPE ENTERING EX. SMH AFTER ABANDONMENT OF SEWER AS SHOWN

SEWER LATERAL CHIMNEYS (TYP.) VERTICAL HEIGHT TO BE FIELD ADJUSTED TO LATERAL DEPTH (TYP)

TRENCH DRAIN INTERRUPTER (TYP.)

8" sewer (vcp)

TO BE ABANDONED AND REMOVED FROM TRENCH OF NEW 36" SEWER

15" storm approx

6" water

12" storm approx

8" sewer (vcp)

18" storm approx

PROP. 36" RCP, CLASS V S=0.044%

I.E. -2.99

8" I.E. 4.50
8" I.E. -0.70 (DROP)
36" I.E. -3.00

BOTH SIDES OF PIPE - TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF AT ELEVATION 5.0 (SMH-10 TO SMH-13)

WATER AT 15' 22' DEEP BORING

6" I.E. 4.3±
6" I.E. -0.60 (DROP)
36" I.E. -2.93

I.E. -2.89

PROP. 36" RCP, CLASS V S=0.044%

16+00 17+00 18+00 19+00

SMH-13 STA 19+49.24, 5.3'R 7' I.D. MH (DROP)

CHIMNEY FOR NEW 6" LATERAL TO #26 DALEWOOD AVENUE 6" I.E. 10.00

B-6

EXISTING GRADE

SEWER LATERAL CHIMNEYS (TYP) VERTICAL HEIGHT TO BE FIELD ADJUSTED TO LATERAL DEPTH (TYP)

8" sewer (vcp)

12" storm approx

15" storm approx

EXISTING 8" SEWER TO BE ABANDONED/REMOVED AND ALL SERVICES TRANSFERRED TO NEW 36" SEWER VIA CHIMNEYS

SMH-14 STA 21+58.28, 4.1'R 7' I.D. MH (DROP)
EXIST. SMH

EX. 8" I.E. 11.1±
8" I.E. 11.1±

20 LF 8" PVC S=3.0%

8" I.E. 10.50
8" I.E. -0.30 (DROP)
I.E. -2.76

PROP. 36" RCP, CLASS V S=0.044%

8" I.E. 5.80
8" I.E. -0.5± (DROP)
36" I.E. -2.85

WATER AT 15' 24' DEEP BORING

BOTH SIDES OF PIPE - TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF AT ELEVATION 5.0 (SMH-10 TO SMH-13)

BOTH SIDES OF PIPE - TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF AT ELEVATION 5.0 (SMH-13 TO SMH-15)

20+00 21+00 22+00

HORIZONTAL SCALE IN FEET
0 20 40
HORIZONTAL SCALE 1" = 20'

VERTICAL SCALE IN FEET
0 4 8
VERTICAL SCALE 1" = 4'

NO.	REVISION	DATE	BY

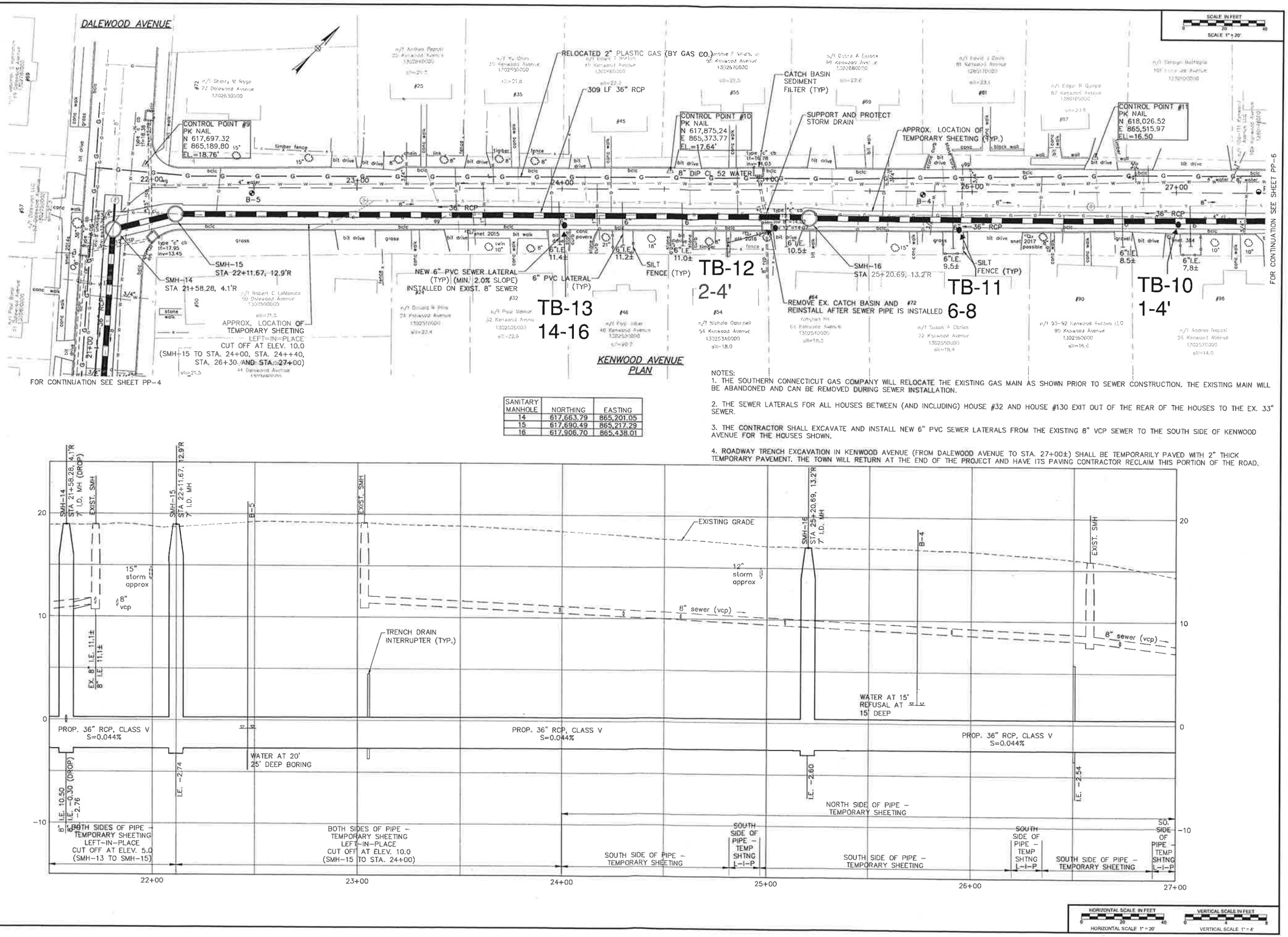
DATE: AUGUST 2019
SCALE: AS NOTED
DESIGNED BY: WB
DRAWN BY: SS
CHECKED BY: WB
APPROVED BY: JAC

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969

EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT
PLAN AND PROFILE - ASH STREET & DALEWOOD AVENUE

PP-4
7

ISSUED FOR DECD REVIEW - AUGUST 21, 2019



SANITARY MANHOLE	NORTHING	EASTING
14	617,663.79	865,201.05
15	617,690.49	865,217.29
16	617,906.70	865,438.01

NOTES:

1. THE SOUTHERN CONNECTICUT GAS COMPANY WILL RELOCATE THE EXISTING GAS MAIN AS SHOWN PRIOR TO SEWER CONSTRUCTION. THE EXISTING MAIN WILL BE ABANDONED AND CAN BE REMOVED DURING SEWER INSTALLATION.

2. THE SEWER LATERALS FOR ALL HOUSES BETWEEN (AND INCLUDING) HOUSE #32 AND HOUSE #130 EXIT OUT OF THE REAR OF THE HOUSES TO THE EX. 33" SEWER.

3. THE CONTRACTOR SHALL EXCAVATE AND INSTALL NEW 6" PVC SEWER LATERALS FROM THE EXISTING 8" VCP SEWER TO THE SOUTH SIDE OF KENWOOD AVENUE FOR THE HOUSES SHOWN.

4. ROADWAY TRENCH EXCAVATION IN KENWOOD AVENUE (FROM DALEWOOD AVENUE TO STA. 27+00±) SHALL BE TEMPORARILY PAVED WITH 2" THICK TEMPORARY PAVEMENT. THE TOWN WILL RETURN AT THE END OF THE PROJECT AND HAVE ITS PAVING CONTRACTOR RECLAIM THIS PORTION OF THE ROAD.

HORIZONTAL SCALE IN FEET
HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE IN FEET
VERTICAL SCALE 1" = 4'

NO.	REVISION	DATE	BY

DATE: AUGUST 2019
SCALE: AS NOTED
DESIGNED BY: WB
DRAWN BY: SS
CHECKED BY: WB
APPROVED BY: JAC

CARDINAL ENGINEERING
ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969

EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT
PLAN AND PROFILE - KENWOOD AVENUE

PP-5

8

ISSUED FOR DECD REVIEW - AUGUST 21, 2019

SANITARY MANHOLE	NORTHING	EASTING
17	618,172.47	865,706.75
17A	618,170.85	865,693.11
18	618,337.08	865,869.38

CONTROL POINT #11
PK NAIL
N 618,026.52
E 865,515.97
EL.=16.50'

CONTROL POINT #12
PK NAIL
N 618,151.82
E 865,690.45
EL.=8.87'

CONTROL POINT #13
SPIKE
N 618,384.26
E 865,906.99
EL.=6.29

KENARD STREET

METRO CENTER PROPERTY

FOR CONTINUATION SEE SHEET PP-5

100 YEAR FLOODPLAIN

RELOCATED 2" PLASTIC GAS (BY GAS CO.)

378 LF 36" RCP

APPROX. LOCATION OF TEMPORARY SHEETING (TYP.)

APPROX. LOCATION OF TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF AT ELEV. 5.0

SMH-17A
INSTALL 5' I.D. SMH
CONNECT EXIST. SEWER LATERAL

TO BE ABANDONED (TYP)

234 LF 36" RCP

POSSIBLE LOCATION OF TEMPORARY ABOVEGROUND BYPASS PUMPING PIPE. ACTUAL LOCATION AND PIPE SIZE TO BE DETERMINED BY THE CONTRACTOR

CATCH BASIN SEDIMENT FILTER (TYP)

TB-1 1-3'

TB-2 2-4'

TB-3 1-3'

TB-4 4-6' GWS

TB-5 3-4'

TB-6 10-12'

TB-7 6-8'

TB-8 1-3'

TB-9 4-6'

TB-10 1-4'

EXISTING GAS MAIN TO BE ABANDONED BY GAS CO.

SILT FENCE (TYP)

APPROX. LOCATION OF TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF TO ELEV. 10.0

NEW 6" PVC SEWER LATERAL (TYP) (MIN. 2.0% SLOPE)

APPROX. LOCATION OF TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF TO ELEV. 5.0
7-LF 8" PVC S=2.9%

EXIST. SMH TO BE REMOVED AFTER EXISTING 8" SEWER IS CONNECTED TO NEW SMH-17

STEEL SHEETING TO BE LEFT-IN-PLACE

PROPOSED SMH-18
STA 31+31.61
REMOVE EXIST. SMH, AND INSTALL NEW 7' I.D. SMH, CONNECT EXIST. 33" RCP AND CONNECT NEW 36" RCP

SILT FENCE (TYP)

EXISTING 20' SAN. SEWER EASEMENT

AREA RESERVED FOR DEWATERING SILT/FILTER BAG(S)

MEAN HIGH WATER

MEAN HIGH TIDE

100 YEAR FLOODPLAIN (TYP)

APPROXIMATE 50 YEAR FLOODPLAIN (TYP)

APPROXIMATE 10 YEAR FLOODPLAIN (TYP)

SMH-17 (DROP)
STA 28+98.67, 13.6'R
CONNECT EX. 33" RCP AND MAINTAIN PARTIAL OPENING IN NEW SMH FOR MAINTENANCE ACCESS TO EX. 33" RCP UNTIL IT IS ABANDONED

20' SAN. EASEMENT

KENWOOD AVENUE PLAN

SCALE IN FEET
0 20 40
SCALE 1" = 20'

NOTES:

1. THE SEWER LATERALS FOR ALL HOUSES BETWEEN (AND INCLUDING) HOUSE #32 AND HOUSE #130 EXIST OUT OF THE REAR OF THE HOUSES TO THE EX. 33" SEWER.

2. THE CONTRACTOR SHALL TELEVISE EACH SECTION OF SEWER TO BE ABANDONED TO VERIFY AND LOCATE ACTIVE SERVICE LATERALS. ALL ACTIVE SERVICE LATERALS SHALL BE TRANSFERRED TO THE EXISTING 8" SEWER OR THE NEW 36" RCP SEWER VIA A CHIMNEY OR OTHER MEANS.

3. THE SOUTHERN CONNECTICUT GAS COMPANY WILL RELOCATE THE EXISTING GAS MAIN AS SHOWN PRIOR TO SEWER CONSTRUCTION. THE EXISTING MAIN WILL BE ABANDONED AND CAN BE REMOVED DURING SEWER INSTALLATION.

4. THE CONTRACTOR SHALL EXCAVATE AND INSTALL NEW 6" PVC SEWER LATERALS FROM THE EXISTING 8" VCP SEWER TO THE SOUTH SIDE OF KENWOOD AVENUE FOR THE HOUSES SHOWN.

5. THE CONTRACTOR SHALL STAKE AT 5' INTERVALS THE COASTAL JURISDICTION LINE (ELEVATION +5.2) AROUND THE 15" RCP STORM OUTFALL. THE PROPOSED STEEL SHEETING AND SILT FENCE SHALL BE PLACED LANDWARD OF THAT ELEVATION FOR THE CONSTRUCTION OF SMH-18.

6. ROADWAY TRENCH EXCAVATIONS WITHIN KENWOOD AVENUE (FROM STA. 27+00± TO KENARD STREET) WILL BE TEMPORARILY PAVED WITH 4" THICK TYPE 1 TEMPORARY PAVEMENT. THE ROADWAY WILL BE MILLED 2" AND OVERLAID UNDER THIS PROJECT.

EXIST. SMH
EXISTING GRADE
8" sewer (vcp)
TRENCH DRAIN INTERRUPTER (TYP.)
B-3
SMH-17A
5' I.D. MH
SMH-17, STA. 28+98.67, 13.6'R
7' I.D. MH (DROP)
EXIST. SMH
6" I.E. 3.00
EXISTING 33" RCP TO BE ABANDONED
15" storm approx
B-2
SMH-18
STA 31+31.61
7' I.D. MH
PROP. 36" RCP, CLASS V
S=0.044%
PLUG 33" OPENING IN EX. SMH
PROP. 36" RCP, CLASS V
S=0.039%
WATER AT 5' REFUSAL AT 12.5' DEEP
WATER AT 5' REFUSAL AT 9' DEEP
I.E. -2.54
I.E. -2.43
8" I.E. 1.90 (IN)
8" I.E. 0.00 (DROP)
I.E. -2.34
I.E. -2.33
8" I.E. 2.34± (IN)
8" I.E. 2.10 (OUT)
6" I.E. TO BE DETERMINED IN FIELD
NORTH SIDE OF PIPE – TEMPORARY SHEETING
SOUTH SIDE OF PIPE – TEMP SHTNG
SOUTH SIDE OF PIPE – TEMP SHTNG L-I-P
SOUTH SIDE OF PIPE – TEMPORARY SHEETING
SOUTH SIDE OF PIPE – TEMP SHTNG L-I-P
SOUTH SIDE OF PIPE – TEMPORARY SHEETING
SOUTH SIDE OF PIPE – TEMP SHTNG L-I-P
SOUTH SIDE OF PIPE – TEMP SHTNG
BOTH SIDES OF PIPE – TEMPORARY SHEETING LEFT-IN-PLACE CUT OFF AT ELEV. 5.0
20
10
0
-10
26+00
27+00
28+00
29+00
30+00
31+00

HORIZONTAL SCALE IN FEET
0 20 40
HORIZONTAL SCALE 1" = 20'

VERTICAL SCALE IN FEET
0 4 8
VERTICAL SCALE 1" = 4'

NO.	REVISION	DATE	BY
1	DEEP PERMIT COMMENTS ADDRESSED	1/20/20	WEB

DATE: AUGUST 2019
SCALE: AS NOTED
DESIGNED BY: WB
DRAWN BY: SS
CHECKED BY: WB
APPROVED BY: JAC

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969

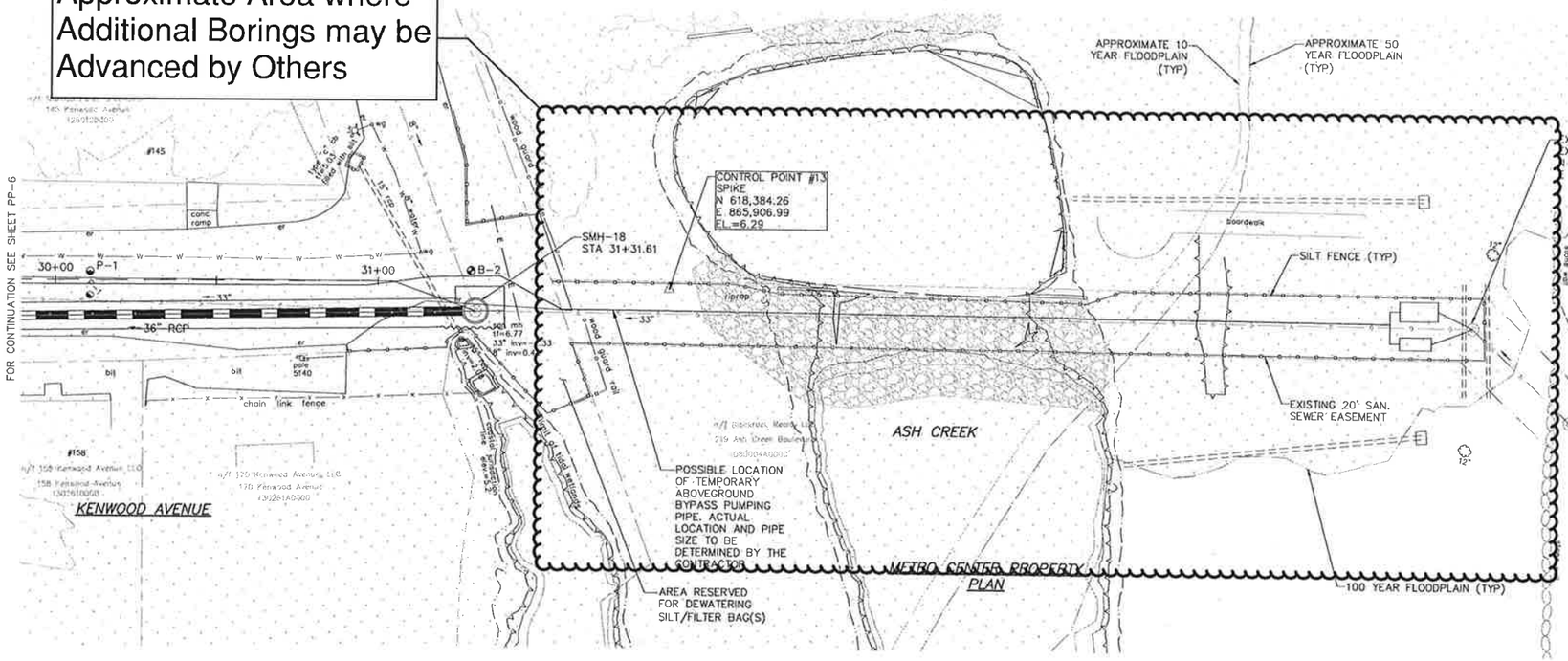
EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT
PLAN AND PROFILE - KENWOOD AVENUE

PP-6

9

ISSUED FOR DECD REVIEW - AUGUST 21, 2019

Approximate Area where Additional Borings may be Advanced by Others



NOTES:

1. THIS SHEET PROVIDED ONLY FOR INFORMATION SO THE CONTRACTOR CAN DETERMINE THE ABOVEGROUND BYPASS PUMPING ROUTE AND UPSTREAM BYPASS MANHOLE FOR THE INSTALLATION OF NEW SMH-19.

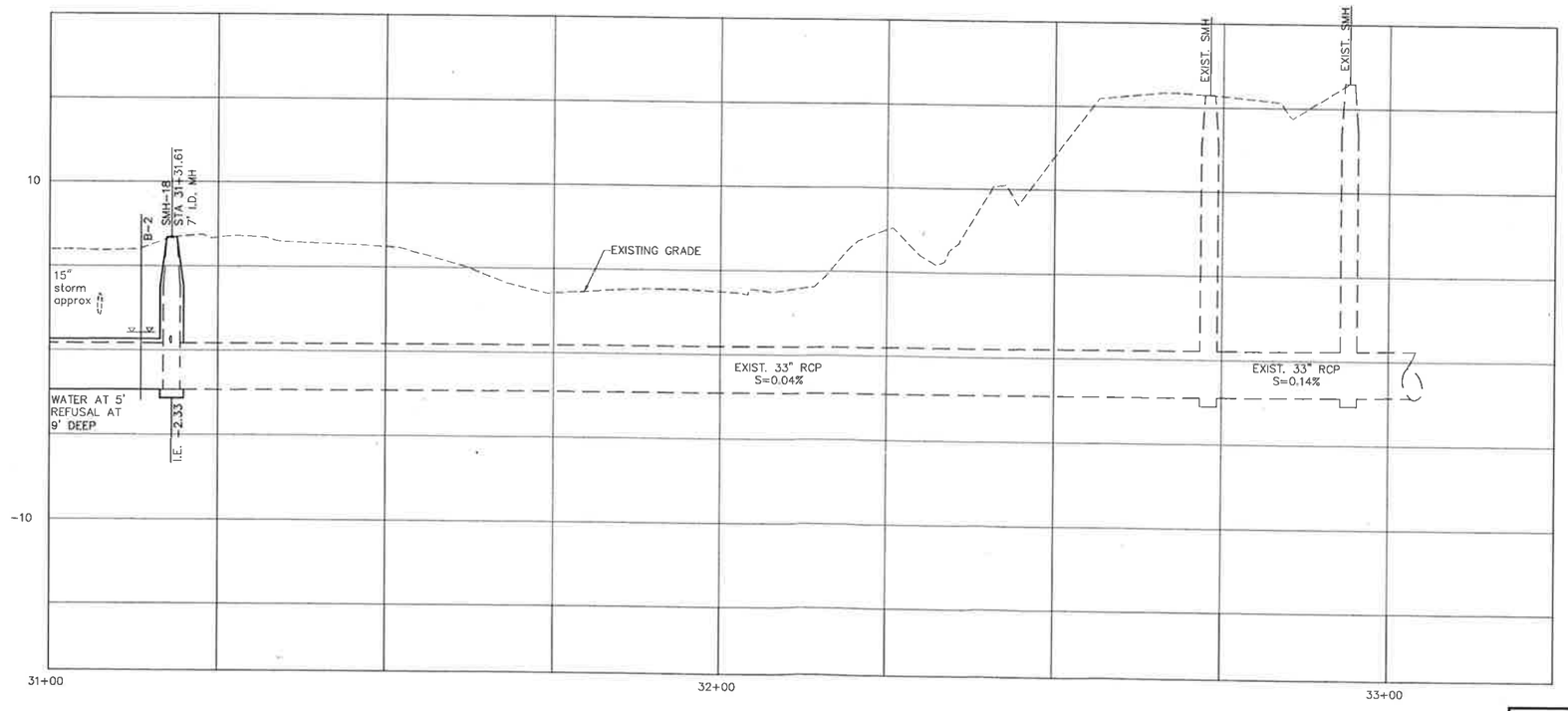
2. SILT FENCE SHALL BE REQUIRED TO BE USED ON BOTH SIDES OF EASEMENT AND AROUND BYPASS MANHOLE AS SHOWN.

3. THE CONTRACTOR SHALL BE REQUIRED TO USE HEAVY DUTY HDPE MATS (SIMILAR TO MEGADECK HD BY SIGNATURE SYSTEMS GROUP OR EQUAL) FROM THE EXISTING PAVEMENT AT KENARD STREET TO THE EXISTING SMH. A WHEEL-MOUNTED, DIESEL-DRIVEN CENTRIFUGAL PUMP PACKAGE IS SHOWN IN PLAN AND SHALL BE TRANSPORTED TO THE APPROXIMATE LOCATION SHOWN ON WOODEN OR HDPE MATS. THE PUMP PACKAGE, DISCHARGE PIPING AND MATS SHALL BE REMOVED AFTER BYPASS PUMPING IS NO LONGER NEEDED.

4. THE CONTRACTOR SHALL PROVIDE CT P.E. DESIGNED BYPASS PUMPING CALCULATIONS AND BYPASS PIPE DESIGN CALCULATION FOR REVIEW AND ACCEPTANCE DURING THE SHOP DRAWING PHASE. THE EXACT SIZE OF THE ABOVEGROUND BYPASS PIPING IS NOT KNOWN, BUT IT IS LIKELY TO BE 12" TO 18" DIAMETER, FUSED HDPE.

5. THIS EXISTING EASEMENT AREA IS WOODED/VEGETATED. THE CONTRACTOR SHALL PERFORM SELECTIVE CLEARING AND ONLY REMOVE THE MINIMUM VEGETATION REQUIRED TO INSTALL/REMOVE THE TEMPORARY SEWAGE BYPASS PIPING SYSTEM AND PUMPING EQUIPMENT. THE AREA SHALL BE RESTORED AFTER THE SYSTEM IS REMOVED.

SANITARY MANHOLE	NORTHING	EASTING
18	618,337.08	865,869.38
EXIST.	618,552.21	866,092.32



NO.	REVISION	DATE	BY

DATE: AUGUST 2019
SCALE: AS NOTED
DESIGNED BY: WB
DRAWN BY: SS
CHECKED BY: WB
APPROVED BY: JAC

CARDINAL ENGINEERING ASSOCIATES
3 Colony Street | Meriden, CT 06451 | 203-238-1969

EAST TRUNK INTERCEPTOR SEWER RELOCATION
FAIRFIELD, CONNECTICUT

PLAN AND PROFILE - METRO CENTER PROPERTY

PP-7

10

ISSUED FOR DECD REVIEW - AUGUST 21, 2019

To hear, consider and act upon a request from the Chief Fiscal Officer to transfer $373,274 from General Fund Contingency (01002010-58010) to various accounts in FY23 for PETA settled contract; and $27,161 from WPCA contingency (13013010-58010) to various WPCA accounts in FY23.

To hear, consider and act upon a request from the Chief Fiscal Officer to transfer $391,917 from General Fund Contingency (01002010-58010) to various accounts in FY23 for POLICE settled contract

To hear, consider and act upon a request from the Chief Fiscal Officer to transfer $334,907 from General Fund Contingency (01002010-58010) to various accounts in FY23 for THEA settled contract; and $18,592 from WPCA contingency (13013010-58010) to various WPCA accounts in FY23.

To hear, consider and act upon a request from the Chief Fiscal Officer to transfer $145,283 from General Fund Contingency (01002010-58010) to various accounts in FY23 for NURSES settled contract

To hear, consider and act upon a request from the Chief Fiscal Officer to transfer $371,519 from General Fund Contingency (01002010-58010) to various accounts in FY23 for PUBLIC WORKS settled contract; and $89,512 from WPCA contingency (13013010-58010) tovarious WPCA accounts in FY23.

GENERAL FUND
PETA SETTLEMENT

Department Name	Org	Object	Description	FY23
Town Planning and Zoning	1110	51010	Regular Payroll	22,634
Town Planning and Zoning	1110	52200	Social Security	1,731
Conservation	1230	51010	Regular Payroll	13,952
Conservation	1230	52200	Social Security	1,067
Human Resources	1330	51010	Regular Payroll	16,194
Human Resources	1330	52200	Social Security	1,239
Finance	3010	51010	Regular Payroll	27,007
Finance	3010	52200	Social Security	2,066
Assessor	3050	51010	Regular Payroll	7,886
Assessor	3050	52200	Social Security	603
Tax Collector	3090	51010	Regular Payroll	16,298
Tax Collector	3090	52200	Social Security	1,247
Information Technology	3110	51010	Regular Payroll	44,622
Information Technology	3110	52200	Social Security	3,414
Animal Control	4050	51010	Regular Payroll	7,187
Animal Control	4050	52200	Social Security	550
Public Works Administration	5011	51010	Regular Payroll	7,282
Public Works Administration	5011	52200	Social Security	557
Public Works Operations	5030	51010	Regular Payroll	49,177
Public Works Operations	5030	52200	Social Security	3,762
Building	5050	51010	Regular Payroll	8,567
Building	5050	52200	Social Security	655
Engineering	5070	51010	Regular Payroll	36,417
Engineering	5070	52200	Social Security	2,786
Health	6010	51010	Regular Payroll	25,096
Health	6010	52200	Social Security	1,920
Human and Social Services	6050	51010	Regular Payroll	10,204
Human and Social Services	6050	52200	Social Security	781
Library Main	7010	51010	Regular Payroll	21,906
Library Main	7010	52200	Social Security	1,676
Library - Fairfield Woods Branch	7011	51010	Regular Payroll	16,318
Library - Fairfield Woods Branch	7011	52200	Social Security	1,248
Recreation	7050	51010	Regular Payroll	7,656
Recreation	7050	52200	Social Security	586
Parks	7080	51010	Regular Payroll	8,345
Parks	7080	52200	Social Security	638
				373,274

WPCA
PETA SETTLEMENT

WPCA		51010	Regular Payroll	25,231
WPCA		52200	Social Security	1,930
				27,161

GENERAL FUND
POL SETTLEMENT

Department Name	Org	Object	Description	FY23
Police	4030	51050	Overtime Earnings	30,490
Police	4030	51055	Overtime Earnings - Replacemen	30,870
Police	4030	51090	Holiday Pay	7,865
Police	4030	51100	Overtime Earnings - Trainning	14,582
Police	4030	51110	Pay Differential	32,009
Police	4030	52200	Social Security	26,430
Police	4030	51010	Regular Payroll	249,671
				391,917

GENERAL FUND
THEA SETTLEMENT

Department Name	Org	Object	Description	FY23
Town Clerk	1030	51010	Regular Payroll	17,507
Town Clerk	1030	51050	Overtime Earnings	68
Town Clerk	1030	52200	Social Security	1,339
Registrar of Voters	1070	51010	Regular Payroll	3,425
Registrar of Voters	1070	51050	Overtime Earnings	342
Registrar of Voters	1070	52200	Social Security	262
Town Planning and Zoning	1110	51010	Regular Payroll	6,938
Town Planning and Zoning	1110	52200	Social Security	531
Conservation	1230	51010	Regular Payroll	3,352
Conservation	1230	52200	Social Security	256
Human Resources	1330	51010	Regular Payroll	7,678
Human Resources	1330	52200	Social Security	587
Community & Economic Developr	1350	51010	Regular Payroll	3,221
Community & Economic Developr	1350	52200	Social Security	246
Finance	3010	51010	Regular Payroll	18,728
Finance	3010	51050	Overtime Earnings	68
Finance	3010	52200	Social Security	1,433
Purchasing	3030	51010	Regular Payroll	10,389
Purchasing	3030	51050	Overtime Earnings	55
Purchasing	3030	52200	Social Security	795
Assessor	3050	51010	Regular Payroll	16,669
Assessor	3050	52200	Social Security	1,275
Tax Collector	3090	51010	Regular Payroll	12,658
Tax Collector	3090	51050	Overtime Earnings	285
Tax Collector	3090	52200	Social Security	968
Information Technology	3110	51050	Overtime Earnings	68
Fire	4010	51010	Regular Payroll	5,972
Fire	4010	52200	Social Security	457
Police	4030	51010	Regular Payroll	16,110
Police	4030	51050	Overtime Earnings	7,884
Police	4030	52200	Social Security	1,232
Animal Control	4050	51010	Regular Payroll	3,425
Animal Control	4050	51050	Overtime Earnings	1,059
Animal Control	4050	52200	Social Security	262
Emergency Management	4110	51010	Regular Payroll	1,163
Emergency Management	4110	52200	Social Security	89
Public Works Administration	5011	51010	Regular Payroll	3,710
Public Works Administration	5011	51050	Overtime Earnings	188
Public Works Administration	5011	52200	Social Security	284
Public Works Operations	5030	51010	Regular Payroll	7,135
Public Works Operations	5030	51050	Overtime Earnings	7,884
Public Works Operations	5030	52200	Social Security	546
Building	5050	51010	Regular Payroll	24,500
Building	5050	51050	Overtime Earnings	684
Building	5050	52200	Social Security	1,874
Engineering	5070	51010	Regular Payroll	8,642
Engineering	5070	51050	Overtime Earnings	205

Engineering	5070	52200	Social Security	661
Health	6010	51010	Regular Payroll	20,999
Health	6010	51050	Overtime Earnings	287
Health	6010	52200	Social Security	1,606
Human and Social Services	6050	51010	Regular Payroll	2,983
Human and Social Services	6050	52200	Social Security	228
Solid Waste & Recycling	6070	51010	Regular Payroll	3,045
Solid Waste & Recycling	6070	51050	Overtime Earnings	381
Solid Waste & Recycling	6070	52200	Social Security	233
Library Main	7010	51010	Regular Payroll	47,112
Library Main	7010	52200	Social Security	3,604
Library - Fairfield Woods Branch	7011	51010	Regular Payroll	25,730
Library - Fairfield Woods Branch	7011	52200	Social Security	1,968
Recreation	7050	51010	Regular Payroll	17,283
Recreation	7050	52200	Social Security	1,322
Parks	7080	51050	Overtime Earnings	1,542
Marina	7090	51010	Regular Payroll	3,228
Marina	7090	52200	Social Security	247
				334,907

WPCA
THEA SETTLEMENT

WPCA	51010	Regular Payroll	17,271
WPCA	52200	Social Security	1,321
			18,592

GENERAL FUND
NURSES SETTLEMENT

Department Name	Org	Object	Description	FY23
Health	6010	51010	Regular Payroll	110,488
Health	6010	51030	Part-Time Payroll	24,470
Health	6010	52200	Social Security	10,325
				145,283

GENERAL FUND
DPW SETTLEMENT

Department Name	Org	Object	Description	FY23
Conservation	1230	51010	Regular Payroll	14,457
Conservation	1230	51050	Overtime Earnings	112
Conservation	1230	52200	Social Security	1,115
Police	4030	51010	Regular Payroll	5,533
Police	4030	52200	Social Security	423
Public Works Operations	5030	51010	Regular Payroll	246,952
Public Works Operations	5030	51050	Overtime Earnings	4,151
Public Works Operations	5030	51060	Overtime Earnings - Snow Remov	20,792
Public Works Operations	5030	51090	Holiday Pay	906
Public Works Operations	5030	51110	Pay Differential	2,884
Public Works Operations	5030	52200	Social Security	21,090
Parks	7080	51010	Regular Payroll	31,483
Parks	7080	51050	Overtime Earnings	387
Parks	7080	52200	Social Security	2,438
Carl Dickman	7111	51010	Regular Payroll	6,019
Carl Dickman	7111	51050	Overtime Earnings	309
Carl Dickman	7111	52200	Social Security	484
Smith Richardson	7113	51010	Regular Payroll	10,410
Smith Richardson	7113	51050	Overtime Earnings	722
Smith Richardson	7113	52200	Social Security	852
				371,519

WPCA
DPW SETTLEMENT

WPCA		51010	Regular Payroll	72,631
WPCA		51050	Overtime Earnings	10,354
WPCA		52200	Social Security	6,526
				89,512

TOWN OF FAIRFIELD

SCHEDULES FOR SETTING MILL RATE

FOR FISCAL YEAR ENDING JUNE 30, 2024

BASED ON APPROVED BUDGET AND FINAL BAA

BOARD OF FINANCE MEETING

MAY 4, 2023

Table of Contents

Schedule of Expenditures and Required Tax Levy and Mill Rate
For Fiscal year Ending June 30, 2024 based on
Final BAA Net Grand List

RTM Approved Expenditure Budget			$356,775,787
Less: Current Year Non-Tax Revenue			
Fees, Services and Other	$22,543,723		
State Revenue	7,252,588		
Prior Year Tax, Interest, Lien Fees	4,277,788		
Total			$34,074,099
Net Current Year Revenue Required to Fund Operations			$322,701,688
Credits and Reserves:			
Town Senior/Disabled Tax Relief	$3,568,178		
State Elderly and Disabled	325,598		
Assessment Appeals	400,000		
Reserve for Uncollected	3,456,167	98.93% Collection	
Total Credit and Reserves			$7,749,943
TOTAL Required Tax Levy			$330,451,631
Property Available for Assessment after Final BAA Net Grand List			$12,012,054,908
Required Mill Rate FY24			0.02751
Mill Rate FY23			0.02724
Percent Change			0.99%

SCHEDULE OF CURRENT YEAR TAX LEVY, TAX REVENUE, PROPERTY AVAILABLE FOR TAXATION, AND MILL RATE FOR FISCAL YEARS ENDING JUNE 30, 2023 AND JUNE 30, 2024

	2023 BUDGET		2024 APPROVED		2023 / 2024 $ CHG	% CHG
Current Year Tax Levy and Tax Revenue Required						
Current Year Expenditures:						
Board of Education	$202,491,554		$210,163,445		$7,671,891	3.79%
Shared Expense (Debt, WComp, Risk Mgt, Fund Bal)	$25,678,998		$24,857,932		($821,066)	-3.20%
Town	116,929,540		121,754,410		4,824,870	4.13%
Total Expense Budget	**$345,100,092**		**$356,775,787**		**$11,675,695**	**3.38%**
Non-Tax Revenue	($25,907,548)		($29,796,311)		(3,888,763)	15.01%
Prior Year Tax, Interest, Lien Fees	(4,237,730)		(4,277,788)		(40,058)	0.95%
Total Non-Tax Revenue	**($30,145,278)**		**($34,074,099)**		**($3,928,821)**	**13.03%**
Net Current Year Tax Levy Required	**$314,954,814**		**$322,701,688**		**$7,746,874**	**2.46%**
Plus Credits to Taxpayers:						
Senior and Disabled Tax Credits Town	$4,077,768		$3,568,178		(509,590)	-12.50%
Senior and Disabled Tax Credits State	367,118		$325,598		(41,520)	-11.31%
Assessment Appeals (Open Court Log)	400,000		$400,000		0	0.00%
Total Credits	$4,844,886		$4,293,776		($551,110)	-11.38%
Reserve for Uncollected Taxes	$3,465,266	(0.9890)	$3,456,167	(0.9893)	(9,099)	-0.26%
Total Credits and Reserves	**$8,310,152**		**$7,749,943**		**($560,209)**	**-6.74%**
Gross Tax Levy Required	**$323,264,966**		**$330,451,631**		**$7,186,665**	**2.22%**
Property Available for Taxation, Mill and Tax Rate Calculation						
Assessor's Grand List as of January 31st	$13,528,760,574		$13,731,915,241		203,154,667	1.50%
Exemptions and Adjustments:						
Tax Exempt Properties and Exemptions	($1,724,319,820)		($1,801,518,185)		(77,198,365)	4.48%
Ass'r Net Grand List before BAA Adj.	**11,804,440,754**		**11,930,397,056**		**125,956,302**	**1.07%**
BAA Adjustment & Other	(22,151,249)		(13,342,148)		8,809,101	-39.77%
BAA Net Grand List	**$11,782,289,505**		**$11,917,054,908**		**$134,765,403**	**1.14%**
Supplemental Motor Vehicle	$85,000,000		$95,000,000		10,000,000	11.76%
Property Available for Ass'mnt	**$11,867,289,505**		**$12,012,054,908**		**$144,765,403**	**1.22%**
Mill Rate	**0.02724**		**0.02751**		**0.00027**	**0.99%**
Current Year Tax Levy Assessed	**$313,825,352**		**$330,451,631**		**$16,626,279**	**5.30%**

Town of Fairfield
General Fund Balance History

Budgetary Basis

	Fiscal Year	Unassigned Fund Balance	Total General Fund Expenditures and Other Financing Uses	Percent	Act/Bud	Change
	FY10	$12,286	$245,243	5.01%	Act	
	FY11	$13,414	$250,067	5.36%	Act	0.35%
	FY12	$14,593	$262,398	5.56%	Act	0.20%
	FY13	$17,408	$270,596	6.43%	Act	0.87%
	FY14	$21,168	$277,245	7.64%	Act	1.20%
	FY15	$24,260	$284,271	8.53%	Act	0.90%
	FY16	$27,435	$290,960	9.43%	Act	0.90%
	FY17	$27,839	$292,200	9.53%	Act	0.10%
	FY18	$32,142	$295,508	10.88%	Act	1.35%
	FY19	$34,688	$307,452	11.28%	Act	0.41%
	FY20	$34,819	$315,233	11.05%	Act	-0.24%
	FY21	$36,572	$322,516	11.34%	Act	0.29%
	FY22	$39,790	$338,701	11.75%	Act	0.41%
	FY23	$39,790	$345,100	11.53%	**Bud**	-0.22%
*	FY23	$40,465	$344,318	11.75%	**Prj**	0.22%
**	FY24	$41,690	$356,776	11.69%	**Bud**	-0.07%

* Need $675k to keep fund balance flat at 11.75% with $782k in projected savings in FY23

** Using budgeted contribution to fund balance of $1,225 to FY23 Prj and budget FY24 expenditures

Schedule of Alternative Collection Rate Impact on FY24 Tax Rate and Mill Rate

-0-	-1-	-2-	-3-	-4-	-5-
Scenario	**% Reserve for Uncollected**	Mill Rate	Tax Rate Incr	$ Reserve for Uncollected	CHG from Current Uncoll. Resv.
1	**98.82%**	27.54	1.10%	$3,816,528	$360,361
2	**98.85%**	27.53	1.06%	$3,696,408	$240,241
3	**98.89%**	27.52	1.03%	$3,576,287	$120,120
4	**98.93%**	27.51	0.99%	$3,456,167	-
5	**98.97%**	27.50	0.95%	$3,336,046	($120,121)
6	**99.00%**	27.49	0.92%	$3,215,925	($240,242)

Schedule of Tax Collection Rate History

	Budget	Actual	Variance
2018	98.58%	98.95%	0.37%
2019	98.64%	98.85%	0.21%
2020*	98.83%	97.96%	-0.87%
2021	98.61%	99.01%	0.40%
2022	98.71%	99.14%	0.43%
***5-Year Avg (Not Including Deferrment Year 2020)**	**98.64%**	**98.99%**	**0.35%**

Board of Finance Regular Meeting
Tuesday, February 7, 2023
7:30 pm
Via Webex
And In Person at the
BOE Offices, Room 295 A/B
501 Kings Highway East
Fairfield, CT

A recording of this meeting can be found here: https://www.youtube.com/watch?v=dbl8J_Ygl0M.

DRAFT MINUTES

MEMBERS PRESENT: Chair Lori Charlton, Vice-Chair John Mitola, Secretary Sheila Marmion, Craig Curley, Christopher DeWitt, Mary LeClerc, Kevin Starke, Jack Testani
MEMBERS ABSENT: James Walsh
OTHERS PRESENT: Senior Managing Director Phoenix Advisors Matthew Spoerndle, Partner PKF O'Connor Davies LLP Joseph Centofanti, Engineering Manager Bill Hurley, Fire Chief Denis McCarthy, Deputy Fire Chief Kyran Dunn, Superintendent of Schools Mike Testani, BOE Chair Jennifer Jacobsen, BOE Liaison Jeff Peterson, FPS Executive Director of Operations Angelus Papageorge, DPW Interim Director John Marsilio, Police Chief Robert Kalamaras, Deputy Police Chief Keith Broderick, Attorney John Stafstrom, Director of Parks & Recreation Anthony Calabrese, CFO Jared Schmitt, Controller Caitlin Bosse, FairTV, members of the public

1) Call to Order
Chairwoman Lori Charlton called the meeting to order at 7:30 pm.

2) Pledge of Allegiance
Vice-Chair John Mitola led the Pledge of Allegiance.

3) To hear an update from the Town's financial advisor
Backup for this item is posted online on pages 1-13. Senior Managing Director from Phoenix Advisors Matthew Spoerndle reviewed the overall credit ratings and finances of the Town as compared to other AAA towns in Connecticut. His presentation is also shared on screen in the meeting recording. Mr. Spoerndle said credit fundamentals don't change that much unless there are major changes in the budget or Grand List. He said the data he collected is from the State's Office of Policy and Management (OPM) as well as bond sales and end of Fiscal Year data. Some data points from the report for Fairfield include:

- Total Fund Balance as % of Revenues – 12%
- Unassigned General Fund Balance as % of Revenues - 10.8%
- Debt % of Grand List – 1.25%
- Debt Service as % of Operating Expenditures – 6.5%-7%
- Tax Collection Rate - >99%

After his presentation, Mr. Spoerndle answered questions from the Board. Craig Curley said he would like to see Fairfield compared to other towns with comparable demographics with AAA ratings. Mr. Spoerndle said he will gather some of that data and update the Board.

4) To hear an update from the Town's external auditor on the Annual Comprehensive Financial Report

Jack Testani made a motion to put Item 4 before the Board. Christopher DeWitt seconded the motion.

The backup for this item is posted online beginning on page 14. Joe Centofanti, Partner at PKF O'Connor Davies LLP, went through his presentation of the report. Some highlights include: New Opinion Format-Opinion first vs last, New Lease standard implemented-GASB 87, and Parking Authority is now included with the Town audit. Financials such as the Internal Service Fund and General Fund were reviewed. Pension and OPEB for Police and Fire as well as employees were discussed. The environmental liability funds for Penfield and the fill pile were reviewed as well. The full presentation and members' questions can be accessed here, BOF Meeting 2.7.2023.

Chairwoman Charlton had a question for either CFO Jared Schmitt or Mr. Centofanti regarding line item CNR Remediation Cost 2022 and whether the money was authorized to be spent. Ms. Charlton stated for the record that she would like to follow up at the next meeting with an analysis on what authorization was used and how much was spent. She also asked Controller Caitlin Bosse how long it takes to close the financial books and to know the final numbers, especially if there is surplus. Ms. Bosse said she will keep AP open until August to be sure June invoices are submitted. She said sometimes the invoices don't come in until later, so the final numbers should be available by mid to late November.

5) NON-RECURRING CAPITAL – 20 YEARS ***(requires RTM approval)***
To hear, consider and adopt a bond resolution entitled, "A resolution appropriating $7,687,622 for the costs of certain non-recurring capital projects and authorizing the issuance of bonds to finance such appropriation".

At its February 6th meeting, the BOS amended this item: Selectman Flynn made a motion to remove item 2.1, Exhibit A from the resolution ($432,600.00) and amend the resolution amount to $7,255,022.00. Selectwoman Lefkowitz seconded the motion which carried unanimously.

Vice-Chair John Mitola made a motion to put this Item before the Board. Jack Testani seconded the motion.

The posted backup for this item can be found on page 195 and the project list is on page 199, Exhibit A. Chairwoman Charlton opened up this Item to Public Comment:

- Jim O'Brien, 250 Sherwood Drive, Southport – Said he has to use Pickleball courts in other towns.
- Betsy Hulme, 37 Pratt Street – She said she was on the committee for the original Pickleball court which now has roots growing through it which is embarrassing.
- Doug Goodman, 11 Aberdeen Way, Spt – He said to please consider the Pickleball courts when approving this item. Fairfield needs them.
- Julia Gulemi, 221 Lindamer Lane – She said she was one of the younger players at tonight's meeting, but Pickleball is catching on like wildfire. She said having new courts will draw people here.

Christopher DeWitt and Mr. Schmitt discussed items that appeared on the list this week, but not last week and the reasoning why that happened.

Projects on the list:
Engineering:

- Guiderail Repairs Phase 2-$210,000
- Design of Stratfield Road-$325,000 (Urban Grant-no details yet)
- Design of Post Road and Jug Handle-$175,000
- Round Hill and Reef Road sidewalks-$611,298
- Lower Wharf/Fishing Pier, Southport-$800,000

Engineering Manager Bill Hurley presented his list of items. There was a discussion about these many projects and who would supervise them. Mr. Hurley said all jobs will be assigned to different engineers. He said major projects will have a hired consultant and the smaller projects will have an engineer.

Fire Department:

- Pumper LSN 14-$980,000

Fire Chief Denis McCarthy answered questions regarding the Pumper Truck and said it is not eligible for grants.

Parks and Recreation:

- HSR Driving Range Upgrades-$275,000
- Post Tension Tennis Courts-Fairfield Woods-$522,000
- Tunxis Hill Park Pickleball Courts (4 replaced, 2 new)=$575,000

Parks and Recreation Director Anthony Calabrese went through the projects and then members reviewed the Board of Education's list of non-recurring projects.

Board of Education:

- N. Stratfield Elementary-Vestibule project-$652,500
- Osborn Hill Elementary-Vestibule project-$597,500
- FWMS-Vestibule project-$769,500
- FWHS-Boiler Burner Replacement-$343,862
- FWHS-Knapps Highway Tennis/Basketball Courts-$418,362

Executive Director of Operations, FPS Angelus Papageorge, and BOE Chair Jennifer Jacobsen went through the list of projects with the Board.

There were discussions with each Department Head in attendance regarding their department's non-recurring projects. The full discussion can be accessed here: BOF Meeting 2.7.2023.

Ms. Charlton made a motion to amend the amount of the resolution to appropriate $7,255,022 as the Greens Farms Bridge has been removed. The Town side is $4,473,298. Jack Testani seconded the amendment which passed unanimously.

The main motion, as amended, carried unanimously.

6) CHIEF FISCAL OFFICER ***(requires RTM approval)***

To hear, consider and adopt a resolution appropriating $760,000 for the costs related to uses of Coronavirus State Fiscal Recovery Fund and the Coronavirus Local Fiscal Recovery Fund.

Mr. DeWitt made a motion to put Item 6 before the Board. Mr. Testani seconded the motion.

The backup for this item starts on page 284 in the posted backup. There are five projects listed which Fire Chief Denis McCarthy, Parks & Recreation Director Anthony Calabrese and Police Chief Robert Kalamaras presented:

- Fire Station Rehabilitation-$50,000: This is phase 3 of a multiyear program of the five fire stations. It addresses the major living and operating spaces for safe and healthy working conditions and is separate from the DPW Capital Needs Assessment, but Buildings Manager James Ryan will use his expertise when needed. This request is for the renovation of bathrooms at Fire Station 1.
- Fire Department Command Vehicle-$150,000: In accordance with the apparatus replacement program, Fire is requesting a replacement of Car 3, the Shift Commander's response vehicle. The vehicle was put into service in 2019 and in five years, the vehicle will have over 80,000 miles. Once replaced, the older vehicle will go into reserve service and used for weather emergencies.
- Fire Department Vehicle Replacement-$60,000: New staff vehicles. Between 2013-2019, no staff vehicles were replaced and now they are being replaced. The older vehicles will be passed down to other staff before being placed in reserve.
- Sgt Murphy Playground Replacement-$150,000: The playground is between the Fire and Police buildings. The equipment on this playground is in poor condition and continues to deteriorate making it unsafe. The cost covers demolition, removal of the old equipment and then installation of the new equipment. The new playground will meet all safety requirements.
- Police Department Headquarters Rehabilitation-$350,000: The Police Department was built in 1976 and in the last 50 years the needs of the building have grown. This is a proposed three-year renovation plan for some of the heaviest impacted areas in the department. This FY 23-24 request is for phase 1, the lobby renovation-addition of Shift Commander office, new carpeting throughout the building, and upgrading the technology in the multipurpose classroom used for training, press conferences, commissioner/town meetings.

7) To hear, consider and act upon any communications

Mr. DeWitt said he would like the audit finding of bid waivers as well as data from 1/10/23 meeting to be available at the 2/21/23 BOF meeting. Ms. Charlton reminded everyone that the next meeting on Tuesday 2/21/23 will be Webex only.

8) Adjourn

Ms. Charlton made a motion to adjourn the meeting at 11:21 pm. Craig Curley seconded the motion which carried unanimously.

Respectfully submitted,

Pru O'Brien, Recording Secretary

Board of Finance Quarterly Review Meeting
Tuesday, February 21, 2023
7:30 pm

A Virtual Quarterly Review Meeting of the Board of Finance was held via Webex on Tuesday, February 21, 2023 at 7:30 pm in Fairfield, Connecticut.

A recording of this meeting can be found here: BOF Qtly Review 2.21.23

DRAFT MINUTES

MEMBERS PRESENT: Chairwoman Lori Charlton, Vice-Chair John Mitola, Secretary Sheila Marmion, Craig Curley, Christopher DeWitt, Mary LeClerc, Kevin Starke, Jack Testani, James Walsh
OTHERS PRESENT: JRIB Chairwoman Carolyn Trabuco, Executive Director of Finance and Business-FPS Courtney Leborious, BOE Liaison to BOF Jeff Peterson, Superintendent of Schools Mike Testani, Controller Caitlin Bosse, CFO Jared Schmitt, Budget Director Frank Magneri, Police Chief Robert Kalamaras, Deputy Police Chief Keith Broderick, FairTV, members of the public

1. Call to Order
   Chairwoman Lori Charlton called the meeting to order at 7:30pm.

2. Pledge of Allegiance
   Christopher DeWitt led the Pledge of Allegiance.

3. To review the status and timing of various open items
   Chairwoman Charlton reviewed open items:
   - WPCA Trunkline Project-updated financial plan ready to review with the Town
   - Internal Audit items-Bid Waiver practices, internal controls at the Transfer Station and decline in Waste Fees will be updated at the next Audit Subcommittee meeting.
   - Capital Projects, including ARPA projects, will be updated later in this meeting.

   A resident contacted Chairwoman Charlton and Christopher DeWitt (as Purchasing Policy members on the BOF) with a FOIA request for information on usage of AMEX cards by Town employees. Some cards are being used for purposes not within the policy and the Town is conducting an investigation on the issues that were raised. Craig Curley asked for the identity of the resident requesting the information. Ms. Charlton shared that it was Ms. Dana Kery who made the request. Ms. Kery is a former RTM member and currently a member of the Ethics Commission but made the FOIA request as a resident. Both Jack Testani and James Walsh were concerned that this issue hadn't been shared with the Board until now as Ms. Charlton said the investigation has been ongoing for a few months.
   Mr. Testani made a motion to go into Executive Session to discuss this issue. James Walsh seconded the motion which carried 5-4-0 (Charlton, Curley, Marmion, Mitola opposed)

   *Due to technical issues, the Executive Session will be held after the last item and before adjournment.

4. To review the current status of the Town's Pension and OPEB funds

Sheila Marmion made a motion to bring this item before the Board. Vice-Chair John Mitola seconded the motion. The backup is located on page 1 of the backup documents.

JRIB Chairwoman Carolyn Trabuco reviewed her report.

- **Pension Market Value** is $413.7 million as of 12/31/22 quarter end which is up 5.35%. Fiscal Year to date is flat. Allocations: 53% Equities (60/40 domestic/international), Fixed Income 31% (70/30 domestic/international), Private Equity 7.7%, 6.8% Real Estate <1% cash.
- **OPEB** Market value is $69.99 million which is up 7.19%. Fiscal Year to date is up 1.79%. Allocations: 69.7% in Equities (60/40 domestic/international), Fixed Income 19.8%(70/30 domestic/international), Real Estate 10%, starting to allocate to Private Equity but it is <1%. The JRIB is now meeting 6 times per year instead of 11. Receiving quarterly reports from Vanguard instead of monthly. Ms. Trabuco continued to go over her reports to the BOF. Please access the meeting link to hear the full discussion.

5. To review the BOE FY23 Q2 financial update
   Craig Curley made a motion to put item 5 before Board. Christopher DeWitt seconded the motion. The backup is on page 30 of the documents.
   Executive Director of Finance and Business-FPS Courtney Leborious went through her reports. There are transfers due to surpluses that she will be requesting be approved. Surpluses were from continued personnel vacancies, shortage of bus drivers and less buses driven, early retirements and insurance premiums due to the shortage in personnel. There were lower costs in some SPED programs and the BOE is meeting all of its service obligations. Legal services are running over as well as a few other programs/projects. Ms. Leborious continued going over her reports and then took questions from the Board.

6. To review the Town FY23 Q2 financial update
   Christopher DeWitt made a motion to put item 6 before the Board. Craig Curley seconded the motion. The backup begins on page 63 of the backup documents.
   Controller Caitlin Bosse presented her report. The estimated increase in Fund Balance went up to $2.9M. Revenue: $500K in Senior/Disabled tax relief-same as Q1. Tax Collection rate increased just under 1%. Investment Income projected at $2M, Conveyance Fees projected at a decrease of $100K due to shortage of inventory. Building Permits and Fire Marshal Fees: $100K favorable for both. Large projects in town- Ash Creek Apts, Dorms at both Fairfield University and Sacred Heart University, St. Catherine School major renovation and some smaller projects that will be starting soon. Parks and Recreation up about $350K due to golfing season longer and Burr Homestead events. State Payments revenue is up as well. FEMA funding from Hurricane Ida still coming in. Senior Center is now charging for memberships. These are all positive revenues.
   Expenses: Vacancy churn – flat. Parks and Recreation increased salaries and added a Burr Homestead salary. Unemployment was down and since the winter has been mild there are lower gas and electricity expenses. Due to vacancies, there are smaller contributions to retirement. Ms. Bosse took questions from the Board.

   Police Chief Robert Kalamaras and Deputy Chief Keith Broderick went through the new Emergency Communication Center budget which is a self-sustaining fund. March 1st they will go live with Westport Police and Fire along with New Canaan Fire on board. Any employees

from Westport who accepted the job at the ECC will become Fairfield employees. There will be 19 employees out of 22 vacancies. This merger was scheduled to take place on July 1st 2022 but there were technology and vendor challenges. There is an anticipated savings of about $600K. The Chief and Deputy Chief took questions from the Board.

7. To hear a status update on active capital projects, including ARPA-funded projects
   The backup for item 7 begins on page 108 in backup documents. CFO Jared Schmitt said he made some changes and additions to the format. The Board has requested a report for project costing less than estimated. Mr. Schmitt went through his report. Projects costing less than originally estimated are in bold print with the original allocation and the actual final cost after they were closed out. Mr. Schmitt confirmed that the Department Heads are seeing their projects through completion. ARPA projects have to be committed by 12/2024 and funds spent by 12/2026. There were no significant highlights regarding Capital Projects.

   Mr. Schmitt took questions from the Board. The process was discussed.

8. To hear, consider and act upon the draft minutes of January 31, 2023
   Chairwoman Lori Charlton made a motion to approve the minutes of 1/31/2023. Jack Testani seconded the motion.
   Christopher DeWitt had suggested corrections in item 6 of those minutes regarding the vote count. Mr. DeWitt made a motion to amend the lower vote count from opposed to abstained in two votes. Ms. Charlton seconded the motion which carried unanimously.
   Ms. Charlton also made a motion to insert the word "balance" into the last paragraph in item 4 of the 1/31/2023 minutes to say, "fund *balance* policy for WPCA". James Walsh seconded the motion which carried unanimously.
   The amended motion carried 8-0-1(Marmion abstained)

9. To hear, consider and act upon any communications
   March 1st meeting has been rescheduled for Thursday, March 2nd and will be a Special Meeting.

   *James Walsh made a motion to go into Executive Session. Jack Testani seconded the motion. Executive Session began at 10:17pm.

   *Christopher DeWitt made a motion to come out of Executive Session. James Walsh seconded the motion. Executive Session ended at 11:14pm.

   There were no votes taken during Executive Session.

10. Adjourn
    James Walsh made a motion to adjourn. Craig Curley seconded the motion which carried unanimously.
    The meeting adjourned at 11:15pm.

Respectfully submitted,

Pru O'Brien
Recording Secretary

Board of Finance Special Meeting
Thursday, March 2, 2023, 7:30 pm
Via Webex &
In Person at BOE Room 295 A/B
501 Kings Highway East, Fairfield, CT

A recording of this meeting can be found here: BOF Special Meeting 3/2/2023.

DRAFT MINUTES

MEMBERS PRESENT: Chairwoman Lori Charlton, Vice-Chair John Mitola, Secretary Sheila Marmion, Craig Curley, Christopher DeWitt, Mary LeClerc, Kevin Starke, Jack Testani, James Walsh
OTHERS PRESENT: Attorney John Stafstrom, WPCA Vice-Chair Joe D'Avanzo, CFO Jared Schmitt, Controller Caitlin Bosse, Budget Director Frank Magneri, Engineering Manager Bill Hurley, WPCA Project Manager Christine Pacelli, CAO Tom Bremer, Engineering Project Manager Elias Ghazal, FairTV, members of the public

1) Call to Order
Chairwoman Lori Charlton called the meeting to order at 7:30 pm.

2) Pledge of Allegiance
Chairwoman Charlton led the Pledge of Allegiance.

3) To hear, consider and adopt a bond resolution entitled, "A resolution approving the reallocation of surplus proceeds for projects previously approved for bonding authority". *See Full Resolution in Backup.*

Craig Curley made a motion to put Item 3 before the board. Christopher DeWitt seconded the motion.

The full resolution is in the backup on page two and the detail is included on page three.

Controller Caitlin Bosse said this is a clean-up of Capital Projects that goes back to 2003. She said school projects need to be audited by the State before they can be closed out. Ms. Bosse went through each project to be sure she was doing the right thing to take some of the projects off the books. She said there are two ongoing audits that date back to FY 2010 and cannot be closed until closed by the State. She said there is $1.6 million that has been allocated to the open BOE school air conditioning project. Ms. Bosse said the surplus is from projects already bonded and have excess bond proceeds. She said the proceeds can be transferred to a project that might be short on funds and would need to request additional money. There was a discussion about funding and projects.

James Walsh made a motion to postpone the discussion of transferring this money for 60 days to the May 4th meeting. Jack Testani seconded the motion which failed 3-6-0 (Walsh, Testani, LeClerc in favor).

The original motion carried unanimously.

4) To discuss WPCA finances and operations

Chairwoman Charlton said there is no comprehensive financial plan for the WPCA and they have many projects that need to be done and funded. She said there is a 10-year plan that is in the backup on page four. WPCA Vice-Chair Joe D'Avanzo said this is not a 10-year financial plan, but a projection plan. He said the revenue comes from increased user fees which have increased by 3%. Mr. D'Avanzo discussed the financial status of the WPCA and the potential for grants. The WPCA budget process was reviewed. The second digester and other equipment were discussed. Mr. D'Avanzo said the WPCA is hiring a consultant to look at costs. He also explained that water use is down due to lower water toilets and air toilets. Mr. D'Avanzo said the outside consultant will cost $15,000.

5) To hear, consider and act upon the following resolution as recommended by the Board of Selectmen: ***(requires RTM approval)***

To hear, consider and adopt a bond resolution entitled, "A resolution appropriating $6,250,000 for the costs associated with the inspection and construction phase of the East Trunk Wetlands Crossing Project, Authorizing a grant to reimburse $750,000 of such appropriation and authorizing the issuance of bonds in an amount not to exceed $5,500,000 to fund the balance of such appropriation."
See Full Resolution in Backup.

Sheila Marmion made a motion to bring Item 5 before the BOF. John Mitola seconded the motion.

Chairwoman Charlton said the full text is in the backup on page 19. She said the backup begins on page 24 and includes details of the cost increase. Engineering Manager Bill Hurley explained the job details which have been presented at prior meetings. He said construction is ready to begin once funding is approved and has been put out for bid. He said the construction should be 16 months at most. Mr. Hurley reviewed the financing and increases and told the BOF that there is a 60-80 year service life for this project. He said the bid will be out in April. Mr. Hurley took questions from the BOF.

The motion carried unanimously.

6) To hear, consider and act upon the following resolution as recommended by the Board of Selectmen: ***(requires RTM approval)***

To hear, consider and adopt a supplemental resolution:
WHEREAS, the Town of Fairfield (the "Town") has adopted at the request of the Water Pollution Control Authority ("WPCA") a Resolution entitled "A resolution appropriating $6,250,000 for costs associated with the inspection and construction phase of the East Trunk Wetlands Crossing Project, authorizing a grant to reimburse $750,000 of such appropriation and authorizing the issuance of bonds in an amount not to exceed $5,500,000 to fund the balance of such appropriation" (the "Resolution"); and

WHEREAS, the Resolution appropriates $6,250,000 (the "Appropriation") for costs associated with the inspection and construction phases of the East Trunk Wetlands Crossing Project (the "Project"); and

WHEREAS, the Appropriation shall be funded by several sources including: 1) $750,000 in grant funds from the State of Connecticut's Urban Act Grant Program (the "Grant"); and 2) $5,500,000 in bonds issued by the Town (the "Bonds"); and
WHEREAS, the Resolution authorizes the Appropriation, the negotiation and acceptance of the terms of the Grant and authorizes the Bonds in an amount not to exceed $5,500,000; and
WHEREAS, while the Town is liable for the debt service on the Bonds, for internal accounting purposes, it is appropriate that all costs of the Project including debt service on the Bonds be allocated to, and reimbursed to the Town by, the WPCA; and
WHEREAS, the WPCA has agreed to pay for the costs of the Project and the debt service on the Bonds authorized by the Resolution; and

NOW, THEREFORE, IT IS HEREBY:

RESOLVED,

1) That the debt service on the Bonds as such debt service becomes due shall be paid by the WPCA from its own funds and the obligation of the WPCA shall be set forth in a memorandum of understanding (the "MOU") with the Town satisfactory to the First Selectwoman; and
2) That the First Selectwoman is hereby authorized to execute the MOU on behalf of the Town.

Kevin Starke made a motion to bring Item 6 before the BOF. James Walsh seconded the motion which carried unanimously.

7) To hear and consider an update on environmental remediation costs and liabilities

Mr. DeWitt made a motion to put Item 7 before the BOF. Mr. Mitola seconded the motion.

Chairwoman Charlton said the details of the money set aside for this is on page 42 of the backup. She said it includes a summary of payments made and status of remediation that has been done. CFO Jared Schmitt went through the money that has been spent and encumbered and CAO Tom Bremer discussed what happens going forward. There was a discussion about $8.5 million in surplus and how it would be spent if it would be transferred to remediation for the fill pile. Mr. Bremer said the Town has remediated all but seven sites out of 40. He said the goal is to be finished with the sites by July 1st. Mr. Bremer said he included backup lists and cost estimates. He said the engineering company raised its fees so there will be another bid for the remaining sites. There was a discussion about spending. Chairwoman Charlton said she would like to go back and look at spending. There was a discussion about the sites and estimated costs including Penfield and the actual fill pile. Mr. Bremer said there is also a need to test at the Water Pollution Control Facility. He said since this used to be the Nike site, there is a combination of historical contamination as well as possible fill pile contamination there. Mr. Bremer said Penfield and the fill pile have a possible price of $14 million and the other seven sites could cost between $2 to $3 million. Mary LeClerc suggested researching Brownfield grants for the historical contamination remediation. Ms. Charlton thanked Mr. Bremer for the report and asked for quarterly updates.

8) To hear committee updates

Mr. DeWitt gave updates on the Budget meetings. Budget Director Frank Magneri said he provided a google sheet for questions. Mr. DeWitt said the Purchasing Policy Committee had a meeting today.

He said Purchasing Director Adam Tulin and BOE CFO Courtney LeBorious will be working together to deliver a combined Purchasing Policy document by March 31st to the Committee. He said some items might still need to be reconciled. He said he is hoping for the BOF to vote on the policy at the June meeting.

Mr. Mitola gave an update on the Audit Committee which he said met today with external Auditor Joe Centofanti and Internal Auditor Connie Saxl. He said Ms. Saxl went over outstanding audit items and gave updates.

Mr. Walsh suggested CFO Jared Schmitt write a letter to the BOE and FPS CFO Courtney LeBorious about the $1.6 million being put aside for the school air conditioning project so there is an understanding that it doesn't mean the BOE can spend that same amount on something else. Mr. Schmitt said he will follow up with Ms. LeBorious and if there needs to be clarification, he will write a letter.

9) Adjourn

Mr. Walsh made a motion to adjourn. John Mitola seconded the motion which carried unanimously.

The meeting adjourned at 10:44 pm.

Respectfully submitted,

Pru O'Brien
Recording Secretary

Board of Finance Public Budget Hearing #1
Wednesday, March 8, 2023, 7:30 pm
Via Webex & In Person
At BOE Conference Room 295 A/B
501 Kings Hwy E., Fairfield, CT 06825

A recording of this meeting can be found here: BOF Budget #1 3.8.2023.

DRAFT MINUTES

MEMBERS PRESENT: Chairwoman Lori Charlton, Vice-Chair John Mitola, Secretary Sheila Marmion, Craig Curley, Mary LeClerc, Kevin Starke, Jack Testani, James Walsh
MEMBERS ABSENT: Christopher DeWitt
OTHERS PRESENT: First Selectwoman Brenda Kupchick, CAO Tom Bremer, CFO Jared Schmitt, Budget Director Frank Magneri, Town Clerk Betsy Browne, Conservation Director Tim Bishop, Health Director Sands Cleary, Assistant Director of Health for Public Health Nursing Jill Mitchell, Human and Social Services Director Julie DeMarco, Tax Assessor Ross Murray, Tax Collector Dave Kluczwski, IT Director Dave Kelley, Janney Montgomery Scott LLC Advisors Guy Lebas & Carolyn Frzop, Town Librarian Scott Jarzombek, Deputy Town Librarian Jan Fisher, Registrars of Voters Matt Waggner and Cathy Politi, FairTV, members of the public.

1. Call to Order
   Chairwoman Lori Charlton called the meeting to order at 7:30 pm.

2. Pledge of Allegiance
   Chairwoman Charlton led the Pledge of Allegiance and Jack Testani requested a moment of silence for Retired Fairfield Assistant Fire Chief Chris Tracy.

3. Q&A on Summary Budget Presentation by First Selectwoman
   First Selectwoman Kupchick thanked the team who put the budget together and then began her budget presentation. Some of the highlights for Fiscal Year 24: Increases in salaries from union contract settlements, inflation, energy costs, employee health insurance, tipping fees that doubled, and recycling costs. The BOE has a $7.7 million increase as well. The budget as presented has a Mill Rate increase of less than 1% (.98%) from last year. The First Selectwoman also reduced the BOE budget by $500,000. The BOE have since received a Covid reimbursement grant of $350,000. First Selectwoman Kupchick addressed questions from board members and there was a discussion about the BOE reduction and projected grant. The paving plan was also discussed which will cost $4 million this year and $3.8 million next year.

   The slides from the presentation can be accessed here: First Selectwoman's Budget FY 24.

4. Discussion on the Following Budgets:

   Department Heads discussed highlights from their department budgets.

   Administrative & General:
   1030 Town Clerk – The revenue is on page 19 and expenses are on page 45 of the budget book. Town Clerk Betsy Brown said Conveyance Fees are less in the budget due to less supply of homes and the market has slowed down since the Covid years. As of today, they have done

$1.4 million in Conveyance fees. Recording Fees are up, as are Certified Copy fees due to the electronic Death Registry. Funeral homes are using the feature. Ms. Browne has also had personnel increases due to contract settlements and her advertising fees are up.
James Walsh through Chairwoman Charlton asked the Town Clerk for a follow up on Conveyance and Recording fees from last year at this time.

1230 Conservation – James Walsh recused himself from this part of the review because he works with the Conservation department on legal issues outside of BOF. Conservation Director Tim Bishop said the Conservation Commission has a meeting scheduled to vote on a few changes on Wednesday. The revenue was left flat because he doesn't anticipate any increase or decline. His expenses are on pages 68-69 of the budget book. The only thing he added to his budget is $55,000.00 for a new dump truck. The truck they have currently was being towed as the meeting was taking place and it has broken down before.

There was no public comment.

Mr. Walsh rejoined the meeting.

Health and Welfare

6010 Health – The Health Department revenue is on page 15. Health Director Sands Cleary said there are no significant changes. His revenue for permits/fees will go up as rental housing increases and this will have an impact on the fees. The Food Supervisory Certification is down because it is offered in more places. The Health Department expenses are on page 172. Mr. Cleary said there were increases to fees and professional services and due to the salary and contractual obligations, payroll was up as well. Assistant Director of Health for Public Health Nursing, Jill Mitchell is requesting additional staff for school nurses. Since 2019 there has been a 262% increase in mental health issues. There is also an increase in medical treatments that some of the nurses provide. Some schools have more than others. **Follow up: James Walsh would like a follow up by school, without naming the school, utilization by school nurse office and how many schools have increased utilization.** There was a detailed discussion about needing the Health Aid and PT nurse. They handle different issues. If there are additional questions regarding this issue, the board members will email the Health Director, Sands Cleary and he will provide information.

6050 Human and Social Services – Human and Social Services Director Julie DeMarco said they have new revenue for membership and fees. This is the first year they are charging for membership. The expenses are on page 178. The payroll increase is contract driven and the PT payroll increases were requested by the Social Workers and Therapists. Bus Drivers also received increases of $2.00/hour. There is also a newly developed Disabilities Commission, and their secretary is getting paid. Now that her department is fully staffed, the office supplies have gone up. There is also a program increase and she would like to use that income to pay the instructors. The prices for motor vehicle fuel and lube went down because they have a new bus that uses regular gasoline. They are getting better gas mileage as well. **Follow up: Craig Curley asked for a follow up on fuel calculation and utilization.**

There was no public comment.

Finance:

3050 Assessor – Chairwoman Charlton asked Tax Assessor Ross Murray to start with expenses on page 108. Mr. Murray said there is an increase in IT/Software due to renewal increases. There is a large increase in Fees & Professional Services as they prepare for the 2025 "full" revaluation which will require them to visit all the homes in town. There is a reduction in the anticipated costs for the Superior Court appeals. They are down to 28 cases from the reval done in 2020. Mr. Murray reviewed the breakdown of the $150,000 allocated for the 2025 reval. The details are in the narrative on page 108. **Follow up: Ms. Charlton would like the breakdown put in the supplemental back up.** There was a discussion regarding the revaluation. Revaluations are done every five years with house visits every ten years. James Walsh would like to have clarification on the BOF role in the revaluation. **Follow up: Mr. Walsh would like to have a full update and presentation before any contracts are approved and signed. He will speak with the Town Attorney.** The reval process was discussed.

Chairwoman Charlton made a motion to move to Department 3010 Finance and then move to 7010 Library, and then go back to the regular schedule. Jack Testani seconded the motion which carried unanimously.

3010 Finance- Revenue related to Finance is on page 13. This discussion started with Dividend/Interest Income and Change in Market Valuation. CFO Jared Schmitt gave a background presentation on the different approach that is being taken. Mr. Schmitt said they are constrained by State Statute and also by the Town Investment Policy. Investments were spread out with different advisors and he thought it was better to have one advisor handle all of it. This went through the RFP process and had 8-9 responses. Finance narrowed it down to 3 firms and interviews were done and the bid was awarded to Janney Montgomery Scott LLC. Budget Director Frank Magneri directed the board to page 27 of the budget book to see the investment numbers. Janney Fixed Income Director Guy Lebas explained what he and Carolyn Frzop will be doing for the Town and Mr. Lebas went through his backup sheet on page 5 of the posted backup. The board was able to ask questions and on the backup sheet there were acronyms and their descriptions. There was a discussion regarding predictions for FY24. **Follow up: Chairwoman Charlton asked for a monthly breakdown sheet.**

Mr. Schmitt and Chairwoman Charlton decided to let both the Tax Collector 3090 and the IT Director 3110 leave the meeting and if any BOF member had questions about the Tax Collector or IT budgets, questions could be submitted.

<u>Culture and Recreation</u>

7010 Library – Revenue for the library is on page 15 and Expenses are on page 185. Town Librarian Scott Jarzombek and Deputy Town Librarian Jan Fisher went through their budget beginning with Revenue. The presentation is for both libraries combined. There is an increase in fines because when there is an increase in circulation, there will be late returns. There was a 43% increase in circulation last year and a 13% increase in cardholders. Mr. Jarzombek is also requesting an increase in pay as compared to other libraries in the state and went through the many accomplishments for the Fairfield libraries. The review continued through the revenue and expenses and Mr. Jarzombek answered questions from the Board. There was a discussion about keeping the libraries separate or together as they are separate in Munis but presented together in the budget. **Follow up: Jack Testani through Chairwoman Charlton asked for a breakdown of the request for $450,000 in library materials to put in the supplemental backup.** A discussion continued about the need for different forms of media available and how Mr. Jarzombek thinks it is important to have them in the library.

7011 Library - Fairfield Woods Branch – This was addressed in the above library budget discussion.

10030 Debt Service **–** this will be discussed in another budget meeting.
2020 Fund Balance**–** This will also be discussed in another budget meeting.

There was no public comment**.**

Administrative & General:
1070 Registrars of Voters – Registrars Matt Waggner and Cathy Politi went over their budget. There was an increase in payroll for the Registrars Deputies. There was also an increase in education and membership to maintain certifications. In addition, Mr. Waggner requested separate budgets. There have been issues within the Registrars' office which created a very long and detailed discussion about the situation and the budget. Mr. Curley asked about the increase in payroll without related Social Security increases. Frank Magneri acknowledged this was a mistake and he will have the correction in the supplementary backup so the BOF has the information before voting on the budget. For the full discussion, please access this link: BOF Budget #1 3.8.2023

There was no public comment.

5. Adjourn
Jack Testani made a motion to adjourn. James Walsh seconded the motion which carried unanimously.
The meeting adjourned at 12:54 am.

Respectfully submitted,

Pru O'Brien
Recording Secretary

Board of Finance Public Budget Hearing #2
Thursday, March 9, 2023, 7:30 pm
Via Webex & In Person
At BOE Conference Room 295 A/B
501 Kings Hwy E., Fairfield, CT 06825

A recording of this meeting can be found here: BOF Budget #2 3.9.2023.

DRAFT MINUTES

MEMBERS PRESENT: Chairwoman Lori Charlton, Vice-Chair John Mitola, Secretary Sheila Marmion, Craig Curley, Mary LeClerc, Kevin Starke, Jack Testani, James Walsh
MEMBERS ABSENT: Christopher DeWitt
OTHERS PRESENT: Fairfield Schools Superintendent Mike Testani, CFO Fairfield Schools Courtney LeBorious, BOE Chairwoman Jennifer Jacobsen, BOE Liaison Jeff Peterson, Executive Director of Special Education and Student Services Rob Mancusi, BOE Vice-Chair Nick Aysseh, Town CAO Tom Bremer, Town CFO Jared Schmitt, FairTV, members of the public.

1. Call to Order
   Chairwoman Lori Charlton called the meeting to order at 7:30 pm.

2. Pledge of Allegiance
   Chairwoman Charlton led the Pledge of Allegiance.

3. Discussion on the Following Budget:

   Board of Education:

   8010 Board of Education- The BOE Budget Book can be found here: BOE Budget Book FY24
   BOE Chairwoman Jennifer Jacobsen and Superintendent Mike Testani gave a presentation which can be found here: BOE Budget FY24 Presentation in which he highlighted certain aspects of the budget.
   Superintendent Testani opened his presentation to questions from the BOF.
   Sheila Marmion asked how the budget shows how his staff is dealing with the learning loss from Covid. Mr. Testani said they are focused on maintaining grade level content and grade level instruction. Focus on grade level instruction with support for those who struggle.

   James Walsh asked how much money was in the budget for learning loss catchup. Mr. Testani said all money in the budget is used to have the teaching in place. They will have a better understanding through the spring assessment of smarter balance. Mr. Walsh also asked about summer programs that were not offered or needed prior to Covid and if the school system was still offering those programs. Mr. Testani said there is ESSER (Elementary and Secondary School Emergency Relief Fund) money that will be used for summer programs. Data shows Fairfield students are doing well post Covid. There will always be children who struggle, and they will receive the help they need.

   Mr. Jack Testani asked for an explanation of how it is determined that the Fairfield students are doing well. Mr. Mike Testani said they use test scores to determine this.

Craig Curley asked about the Health Insurance estimate and when it will be finalized. Fairfield Schools CFO Courtney LeBorious said it was updated a week ago and the final number will be released in April but she is estimating it to be $500,000. Mr. Curley also asked about the grant that First Selectwoman Kupchick referred to that the schools will be receiving. Mr. Testani said it is FEMA reimbursement for $350,000 for PPE (per pupil expenses) during Covid. Mr. Testani said this reimbursement would not affect this budget.

James Walsh started a discussion about using the $350,000 toward next year's budget. In the past, there was a joint agreement between the Town and BOE to use funds specifically for something in the FY24 budget. BOE Chairwoman Jacobsen was concerned with terms and when the money had to be spent, but Ms. LeBorious said there are no terms to the reimbursement, and it will actually go to the Town and the boards will determine how it is used. Chairwoman Lori Charlton said it is a good option and First Selectwoman Kupchick does intend to put the $350,000 into the budget after reducing their budget by $500,000.

Craig Curley asked about the nursing budget being reduced and the Town nursing budget increasing and if the two budgets were connected. Special Ed Director Rob Mancusi said they are not connected, and his budget is based on one on one placement with a student. There was also a discussion about the salaries for Paras and Teachers and the need for increases in comparison to surrounding towns. Jack Testani asked Superintendent Mike Testani for data on Fairfield salaries vs other towns. Insurance costs have increased as well. He is concerned that teachers will leave to work in other towns.

Kevin Starke talked about inflation, salaries and the percentage of teachers who live in Fairfield. Mr. Starke referred to page 12 of the BOE budget book and the reclassification of some staff to Assistant Principals. Mr. Testani said an Assistant Principal can help the teachers and staff. There was a discussion about a reduction in staff at some schools and school population in some areas being reduced. There was a discussion about costs related to redistricting (page 49 Contracted Services) and the process.

Chairwoman Charlton inquired about the Early Literacy Program. Mr. Mancusi explained that this program is intended for the most severely disabled students with language based disabilities. It is an elementary program and will help keep these children in-district so they do not have to be placed in an outside school which will add tuition costs. Mr. Mancusi discussed this program. There are 15 students in the program now and he projects increasing it to 18 next year. There was also a discussion about outplacement tuition and how the needs have increased. Courtney LeBorious will supply DRGBs. (Diagnosis Related Groups)

11030 Health and Welfare Services
There were no questions.

2531 Private School Bus Transportation
There is a tiered bus system as they have increased the number of runs but have a shortage of drivers. There was a discussion about how many routes and drivers are needed.
There was no public comment.

4. Adjourn
John Mitola made a motion to adjourn. Craig Curley seconded the motion which carried unanimously.

The meeting adjourned at 10:00 pm.

Respectfully submitted,

Pru O’Brien
Recording Secretary

Board of Finance Special Meeting
Monday, March 13, 2023, 7:00 pm
Via Webex & In Person at BOE Room 295 A/B
501 Kings Highway East, Fairfield, CT

A recording of this meeting can be found here: BOF Special Penfield Pavilion Funding Vote 3.13.23.

DRAFT MINUTES

MEMBERS PRESENT: Chairwoman Lori Charlton, Vice-Chair John Mitola, Secretary Sheila Marmion, Christopher DeWitt, Mary LeClerc, Kevin Starke, Jack Testani, James Walsh
OTHERS PRESENT: First Selectwoman Brenda Kupchick, CFO Jared Schmitt, CAO Tom Bremer, Engineering Project Manager Elias Ghazal, Town Plan and Zoning Department Planning Director Jim Wendt, Parks & Recreation Director Anthony Calabrese, Town Attorney James Baldwin, Attorney John Stafstrom, Interim DPW Director John Marsilio, Bismark Construction President Greg Raucci, Flood & Erosion Control Board Chairwoman Becky Bunnell, Flood & Erosion Control Board Secretary Dick Dmochowski, BOE member Christine Vitale, Jill Vergara - RTM District 7, FairTV, members of the public.

1) Call to Order
Chairwoman Lori Charlton called the meeting to order at 7:00 pm.

2) Pledge of Allegiance
Chairwoman Charlton led the Pledge of Allegiance.

3) To hear, consider and act upon a resolution as recommended by the Board of Selectmen entitled, "A resolution appropriating $10,500,000 for costs related to construction, remediation and addressing the Notice of Violation at Penfield Pavilion." See Attached Full Resolution. Requires RTM approval.

First Selectwoman Kupchick went through her presentation of the history of the Penfield Pavilion building, how the Town got to the current situation and how to fix the issues.

Option 1: Maintain Building: Remediate & Fix Foundations
- Remove "Julian fill" contaminated material underneath the building to be in compliance with DEEP/EPA ($5 million); and
- Demo and reinstall skirting, decks, ramps, support roof decks, temporary support of the building, dewatering and permanent structure support ($3.5 million); and
- Correct the FEMA Notice of Violation (NOV) by relocating the grade beams to the required 8ft elevation. ($3 million); and
- Total estimated cost $11.5 million.

Option 2: Demo Building: Remediate & Rebuild Basic Necessities
- Demolish building and foundations to be in compliance with the FEMA NOV (excluding locker rooms which are not in violation) ($2 million); and
- Remove "Julian fill" to be in compliance with DEEP/EPA ($4 million); and
- Rebuild basic necessities to current FEMA regulations including lifeguard shack, concession, bathrooms, covered deck ($2.5 million); and
- Total estimated cost $8.5 million.

The Town has approximately $15 million in surpluses set aside which could be used toward both remediation options related to the remediation and repair costs. There is also $1 million in ARPA funds that has been allocated for fill pile related costs. Bonding for construction is also an option. There is also $100,000 set aside for resiliency studies in the area.

The meeting opened up to discussion with the Board members. Highlighted discussions are included in these minutes, but the full discussion can be accessed here: BOF Special Penfield Pavilion Funding Vote 3.13.23.

Flood & Erosion Control Board (FECB) Chairwoman Becky Bunnell was invited to the meeting to speak about the possible effects on the beach area by lowering the grade surrounding the building. She said it was her understanding that the grade underneath the building would be lowered to 8ft and the area around the building would stay between 8-9ft. Town Plan and Zoning Department Planning Director Jim Wendt confirmed the grades. Ms. Bunnell said that the FECB approved putting construction and design money into the 2024 Capital Budget to focus on resiliency. When asked about whether the Town should wait until results of resiliency studies and costs related to flooding come back to fix the building, Ms. Bunnell replied that the FEMA NOV should be addressed first and then the studies should be done before the project has been completed.

Engineering Project Manager Eli Ghazal and Bismark Construction President Greg Raucci went through the expenses for the two options. They said DEEP and EPA are the two regulatory bodies involved. They said there will be representatives from both groups on site during the remediation removal as the removal is required by both. They said if the money is approved in the next few weeks, bids will go out in July and they hope to start the project in the fall. Once the project starts, and option 1 is approved, it should take 7-9 months.

There was a discussion about the amount of bonding still owed from the last two Penfield Pavilion constructions ($12 million through 2037) and how this will still need to be paid even if there isn't a building in place. There was also a discussion about the National Flood Insurance Program (NFIP) 50/50 rule that prohibits improvements to a structure exceeding 50% of its market value unless the entire structure is brought into full compliance with current flood regulations.

There is $15.9 million available. If the $11.5 million is approved as is and the project cost goes over that amount, the Town will need to go back to board for approval of additional funds.

Vice-Chair John Mitola made a motion to amend the current resolution to add to the 8th WHEREAS:

"Whereas the costs to fund the hiring of a coastal engineering firm to study and update the previous resiliency study pertaining to Penfield is $100,000 and together with the remediation and construction cost aggregate $11,600,000; and

Last paragraph *"and $100,000 to fund the hiring of a coastal engineering firm to study and update the previous resiliency study pertaining to Penfield."*

Craig Curley seconded the amendment which carried unanimously.

Chairwoman Charlton opened the meeting up for public comment:

- Dick Dmochowski - Flood & Erosion Control Board Secretary, 241 Colonial Drive – He said the Flood & Erosion Control Board (FECB) sent two documents to the BOF. He said he agrees with all 10 WHEREAS clauses in the resolution and the FECB is in consent that fixing the NOV is job #1.
- Jill Vergara –RTM District 7 member, 271 Old Post Road – She said she was concerned about the 50/50 rule and field card changes. She said she was concerned the building will have to be lifted, incurring additional costs.

Craig Curley made a motion to break into caucus. Chairwoman Charlton seconded the motion which carried unanimously. Caucus started at 10:30 pm and the meeting resumed at 10:40 pm.

Board members gave comments before the vote and there was a discussion about having a building committee for this project. Those comments can be heard in full here: BOF Special Penfield Pavilion Funding Vote 3.13.23.

The motion to approve the following resolution as amended:

A RESOLUTION APPROPRIATING $10,600,000 FOR COSTS RELATED TO CONSTRUCTION, REMEDIATION, AND ADDRESSING THE NOTICE OF VIOLATION AT PENFIELD PAVILION

WHEREAS, c*ontaminated fill from the (Julian) fill pile was illegally deposited beneath Penfield Pavilion during construction;*

WHEREAS, *by state and federal law, the Town of Fairfield, Connecticut (the "Town") is required to remove the fill in accordance with DEEP & EPA standards under a Consent Order;*

WHEREAS, *FEMA has determined the Town installed horizontal grade beams at a height that is in violation of federal floodplain management regulations;*

WHEREAS, *under federal law, the Town is required to bring Penfield Pavilion into compliance with FEMA regulations;*

WHEREAS, *the Town has received Notices of Violation from federal and state agencies that must be addressed.*

WHEREAS, *if the Town does not take corrective action by the end of March regarding the Notice of Violation, the Town faces a myriad of negative consequences that will impact residents and the Town;*

WHEREAS, *Penfield Pavilion is an asset to the community enjoyed by residents year round and cleaning the contaminated fill and lowering the grade beams is necessary to comply with all state and federal laws;*

***WHEREAS**, the aggregate cost of 1) hiring a coastal engineering firm to study and update the previous resiliency study pertaining to Penfield; 2) remediation; 3)construction; and addressing the Notices of Violation is $11,600,000 (the "Total Costs"); and*

***WHEREAS**, the Town previously allocated and approved $1,000,000 in American Rescue Plan Act funding to be applied towards the Total Costs; and*

***WHEREAS**, the Town is holding funds (the "Funds") in its Capital Non-Recurring Fill Pile Remediation Account (the "Account") and desires to appropriate $10,600,000 of the Funds to finance the balance of the Total Costs; and*

***NOW, THEREFORE**, **BE IT RESOLVED**:*

As recommended by the Board of Finance and the Board of Selectmen, the Town hereby appropriates the following sums from the Capital Non-Recurring Fill Pile Remediation Account for the following purposes:

$4,000,000 related to remediation at Penfield Pavilion;

$3,500,000 related to construction at Penfield Pavilion;

$3,000,000 related to work to address the Notices of Violation; and

$100,000 to fund the hiring of a coastal engineering firm to study and update the previous resiliency study pertaining to Penfield Pavilion

The motion to approve the amended resolution for appropriating $10.6 million carried 7-2-0 (Charlton, Curley opposed).

4) Adjourn

The meeting adjourned at 11:02 pm.

Respectfully submitted,

Pru O'Brien
Recording Secretary