284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q3574	**OrderDate:**	11/7/2025 10:02:13 AM
Client:	Pacific Commercial Services Inc.	**Project:**	Kilo Pier
Contact:	Wendi Zheng	**Location:**	--Select--,J22,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3574-01	**304641-01 Liquid**	**Water**			**11/04/25**			**11/07/25**
			SVOC-PAH	8270E		11/10/25	11/13/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3574

Client: Pacific Commercial Services Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :									
				0.000					
			Total Svoc :		**0.00**				
			Total Concentration:		**0.00**				

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Pacific Commercial Services Inc.	Date Collected:	11/04/25
Project:	Kilo Pier	Date Received:	11/07/25
Client Sample ID:	304641-01 Liquid	SDG No.:	Q3574
Lab Sample ID:	Q3574-01	Matrix:	Water
Analytical Method:	8270E Level: LOW	% Solid:	0
Sample Wt/Vol:	810 mL Final Vol: 1000 uL	Test:	SVOC-PAH
Prep Method :	3510C Prep Date: 11/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
91-20-3	Naphthalene	98.8	U	20	12.3	98.8	120	ug/L	11/13/25 16:54	PB170473
208-96-8	Acenaphthylene	98.8	U	20	18.5	98.8	120	ug/L	11/13/25 16:54	PB170473
83-32-9	Acenaphthene	98.8	U	20	13.6	98.8	120	ug/L	11/13/25 16:54	PB170473
86-73-7	Fluorene	98.8	U	20	15.6	98.8	120	ug/L	11/13/25 16:54	PB170473
85-01-8	Phenanthrene	98.8	U	20	12.3	98.8	120	ug/L	11/13/25 16:54	PB170473
120-12-7	Anthracene	98.8	U	20	15.1	98.8	120	ug/L	11/13/25 16:54	PB170473
206-44-0	Fluoranthene	98.8	U	20	20.2	98.8	120	ug/L	11/13/25 16:54	PB170473
129-00-0	Pyrene	98.8	U	20	12.3	98.8	120	ug/L	11/13/25 16:54	PB170473
56-55-3	Benzo(a)anthracene	98.8	U	20	11.1	98.8	120	ug/L	11/13/25 16:54	PB170473
218-01-9	Chrysene	98.8	U	20	10.9	98.8	120	ug/L	11/13/25 16:54	PB170473
205-99-2	Benzo(b)fluoranthene	98.8	U	20	12.1	98.8	120	ug/L	11/13/25 16:54	PB170473
207-08-9	Benzo(k)fluoranthene	98.8	U	20	11.9	98.8	120	ug/L	11/13/25 16:54	PB170473
50-32-8	Benzo(a)pyrene	98.8	U	20	13.6	98.8	120	ug/L	11/13/25 16:54	PB170473
193-39-5	Indeno(1,2,3-cd)pyrene	98.8	U	20	14.6	98.8	120	ug/L	11/13/25 16:54	PB170473
53-70-3	Dibenzo(a,h)anthracene	98.8	U	20	16.5	98.8	120	ug/L	11/13/25 16:54	PB170473
191-24-2	Benzo(g,h,i)perylene	98.8	U	20	17.0	98.8	120	ug/L	11/13/25 16:54	PB170473
SURROGATES										
4165-60-0	Nitrobenzene-d5	108			44 - 120		108%	SPK: 100		
321-60-8	2-Fluorobiphenyl	96.9			44 - 119		97%	SPK: 100		
1718-51-0	Terphenyl-d14	36.0	*		50 - 134		36%	SPK: 100		
INTERNAL STANDARDS		**Area Count**								
3855-82-1	1,4-Dichlorobenzene-d4	55600								
1146-65-2	Naphthalene-d8	194000								
15067-26-2	Acenaphthene-d10	96200								
1517-22-2	Phenanthrene-d10	265000								
1719-03-5	Chrysene-d12	218000								
1520-96-3	Perylene-d12	308000								

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q3574

Client: Pacific Commercial Services Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB170473BL	PB170473BL	Nitrobenzene-d5	100	84.0	84		44	120
		2-Fluorobiphenyl	100	80.8	81		44	119
		Terphenyl-d14	100	95.0	95		50	134
PB170473BS	PB170473BS	Nitrobenzene-d5	100	83.2	83		44	120
		2-Fluorobiphenyl	100	76.8	77		44	119
		Terphenyl-d14	100	96.5	96		50	134
PB170473BSD	PB170473BSD	Nitrobenzene-d5	100	82.0	82		44	120
		2-Fluorobiphenyl	100	78.5	79		44	119
		Terphenyl-d14	100	94.1	94		50	134
Q3574-01	304641-01 Liquid	Nitrobenzene-d5	100	108	108		44	120
		2-Fluorobiphenyl	100	96.9	97		44	119
		Terphenyl-d14	100	36.0	36	*	50	134

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3574 **Analytical Method:** 8270E

Client: Pacific Commercial Services Inc. **DataFile:** BF144245.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB170473BS	Naphthalene	50	41.6	ug/L	83				40	121	
	Acenaphthylene	50	46.9	ug/L	94				41	130	
	Acenaphthene	50	37.6	ug/L	75				47	122	
	Fluorene	50	42.8	ug/L	86				52	124	
	Phenanthrene	50	43.2	ug/L	86				59	120	
	Anthracene	50	43.3	ug/L	87				57	123	
	Fluoranthene	50	41.3	ug/L	83				57	128	
	Pyrene	50	51.7	ug/L	103				57	126	
	Benzo(a)anthracene	50	45.2	ug/L	90				58	125	
	Chrysene	50	46.5	ug/L	93				59	123	
	Benzo(b)fluoranthene	50	41.5	ug/L	83				53	131	
	Benzo(k)fluoranthene	50	46.1	ug/L	92				57	129	
	Benzo(a)pyrene	50	46.7	ug/L	93				54	128	
	Indeno(1,2,3-cd)pyrene	50	45.9	ug/L	92				52	134	
	Dibenz(a,h)anthracene	50	45.7	ug/L	91				51	134	
	Benzo(g,h,i)perylene	50	47.4	ug/L	95				50	134	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3574 **Analytical Method:** 8270E

Client: Pacific Commercial Services Inc. **DataFile:** BF144246.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB170473BSD	Naphthalene	50	41.1	ug/L	82	1			40	121	20
	Acenaphthylene	50	47.0	ug/L	94	0			41	130	20
	Acenaphthene	50	38.2	ug/L	76	2			47	122	20
	Fluorene	50	42.6	ug/L	85	0			52	124	20
	Phenanthrene	50	43.1	ug/L	86	0			59	120	20
	Anthracene	50	43.5	ug/L	87	0			57	123	20
	Fluoranthene	50	40.8	ug/L	82	1			57	128	20
	Pyrene	50	49.4	ug/L	99	5			57	126	20
	Benzo(a)anthracene	50	44.5	ug/L	89	2			58	125	20
	Chrysene	50	45.7	ug/L	91	2			59	123	20
	Benzo(b)fluoranthene	50	42.6	ug/L	85	3			53	131	20
	Benzo(k)fluoranthene	50	45.0	ug/L	90	2			57	129	20
	Benzo(a)pyrene	50	47.1	ug/L	94	1			54	128	20
	Indeno(1,2,3-cd)pyrene	50	45.7	ug/L	91	0			52	134	20
	Dibenz(a,h)anthracene	50	45.9	ug/L	92	0			51	134	20
	Benzo(g,h,i)perylene	50	46.6	ug/L	93	2			50	134	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB170473BL

Lab Name: Alliance | Contract: PACI01

Lab Code: ACE | SDG NO.: Q3574

Lab File ID: BF144244.D | Lab Sample ID: PB170473BL

Instrument ID: BNA_F | Date Extracted: 11/10/2025

Matrix: (soil/water) Water | Date Analyzed: 11/13/2025

Level: (low/med) LOW | Time Analyzed: 15:25

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB170473BS	PB170473BS	BF144245.D	11/13/2025
PB170473BSD	PB170473BSD	BF144246.D	11/13/2025
304641-01 Liquid	Q3574-01	BF144247.D	11/13/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: PACI01

Lab Code: ACE SDG NO.: Q3574

Lab File ID: BF144168.D DFTPP Injection Date: 11/05/2025

Instrument ID: BNA_F DFTPP Injection Time: 12:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (1.8) 1
69	Mass 69 relative abundance	24.5
70	Less than 2.0% of mass 69	0.1 (0.6) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.2
365	Greater than 1% of mass 198	2.6
441	Present, but less than mass 443	15.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF144169.D	11/05/2025	12:50
SSTDICC005	SSTDICC005	BF144170.D	11/05/2025	13:20
SSTDICC010	SSTDICC010	BF144171.D	11/05/2025	13:50
SSTDICC020	SSTDICC020	BF144172.D	11/05/2025	14:20
SSTDICCC040	SSTDICCC040	BF144173.D	11/05/2025	14:50
SSTDICC050	SSTDICC050	BF144174.D	11/05/2025	15:49
SSTDICC060	SSTDICC060	BF144175.D	11/05/2025	16:19
SSTDICC080	SSTDICC080	BF144176.D	11/05/2025	16:49

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: PACI01

Lab Code: ACE | SDG NO.: Q3574

Lab File ID: BF144242.D | DFTPP Injection Date: 11/13/2025

Instrument ID: BNA_F | DFTPP Injection Time: 14:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (1.5) 1
69	Mass 69 relative abundance	24.9
70	Less than 2.0% of mass 69	0.0 (0.0) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.2
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	16.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF144243.D	11/13/2025	14:56
PB170473BL	PB170473BL	BF144244.D	11/13/2025	15:25
PB170473BS	PB170473BS	BF144245.D	11/13/2025	15:55
PB170473BSD	PB170473BSD	BF144246.D	11/13/2025	16:24
304641-01 Liquid	Q3574-01	BF144247.D	11/13/2025	16:54
SSTDCCC040EC	SSTDCCC040	BF144251.D	11/13/2025	18:53

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3574

Client ID : SSTDCCC040 Date Analyzed: 11/13/2025

Lab File ID: BF144243.D Time Analyzed: 14:56

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	57801	6.869	225618	8.15	126474	9.90
	UPPER LIMIT	115602	7.369	451236	8.651	252948	10.404
	LOWER LIMIT	28900.5	6.369	112809	7.651	63237	9.404
	EPA SAMPLE NO.						
01	PB170473BL	58185	6.86	226377	8.15	128860	9.90
02	PB170473BS	61443	6.87	243453	8.15	140132	9.91
03	PB170473BSD	58832	6.86	241570	8.15	135120	9.91
04	304641-01 Liquid	55637	6.86	193837	8.15	96234	9.91

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3574

Client ID: SSTDCCC040 Date Analyzed: 11/13/2025

Lab File ID: BF144243.D Time Analyzed: 14:56

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	214028	11.398	119800	14.045	154528	15.521
	UPPER LIMIT	428056	11.898	239600	14.545	309056	16.021
	LOWER LIMIT	107014	10.898	59900	13.545	77264	15.021
	EPA SAMPLE NO.						
01	PB170473BL	235212	11.39	125254	14.05	146599	15.52
02	PB170473BS	236951	11.40	118377	14.05	157737	15.53
03	PB170473BSD	232588	11.40	118249	14.05	155276	15.52
04	304641-01 Liquid	265408	11.40	217534	14.05	307917	15.52

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Pacific Commercial Services Inc.			Date Collected:	
Project:	Kilo Pier			Date Received:	
Client Sample ID:	PB170473BL			SDG No.:	Q3574
Lab Sample ID:	PB170473BL			Matrix:	Water
Analytical Method:	8270E	Level:	LOW	% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol:	1000 uL	Test:	SVOC-PAH
Prep Method :	3510C	Prep Date:	11/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
91-20-3	Naphthalene	4.00	U	1	0.50	4.00	5.00	ug/L	11/13/25 15:25	PB170473
208-96-8	Acenaphthylene	4.00	U	1	0.75	4.00	5.00	ug/L	11/13/25 15:25	PB170473
83-32-9	Acenaphthene	4.00	U	1	0.55	4.00	5.00	ug/L	11/13/25 15:25	PB170473
86-73-7	Fluorene	4.00	U	1	0.63	4.00	5.00	ug/L	11/13/25 15:25	PB170473
85-01-8	Phenanthrene	4.00	U	1	0.50	4.00	5.00	ug/L	11/13/25 15:25	PB170473
120-12-7	Anthracene	4.00	U	1	0.61	4.00	5.00	ug/L	11/13/25 15:25	PB170473
206-44-0	Fluoranthene	4.00	U	1	0.82	4.00	5.00	ug/L	11/13/25 15:25	PB170473
129-00-0	Pyrene	4.00	U	1	0.50	4.00	5.00	ug/L	11/13/25 15:25	PB170473
56-55-3	Benzo(a)anthracene	4.00	U	1	0.45	4.00	5.00	ug/L	11/13/25 15:25	PB170473
218-01-9	Chrysene	4.00	U	1	0.44	4.00	5.00	ug/L	11/13/25 15:25	PB170473
205-99-2	Benzo(b)fluoranthene	4.00	U	1	0.49	4.00	5.00	ug/L	11/13/25 15:25	PB170473
207-08-9	Benzo(k)fluoranthene	4.00	U	1	0.48	4.00	5.00	ug/L	11/13/25 15:25	PB170473
50-32-8	Benzo(a)pyrene	4.00	U	1	0.55	4.00	5.00	ug/L	11/13/25 15:25	PB170473
193-39-5	Indeno(1,2,3-cd)pyrene	4.00	U	1	0.59	4.00	5.00	ug/L	11/13/25 15:25	PB170473
53-70-3	Dibenzo(a,h)anthracene	4.00	U	1	0.67	4.00	5.00	ug/L	11/13/25 15:25	PB170473
191-24-2	Benzo(g,h,i)perylene	4.00	U	1	0.69	4.00	5.00	ug/L	11/13/25 15:25	PB170473
SURROGATES										
4165-60-0	Nitrobenzene-d5	84.0			44 - 120		84%	SPK: 100		
321-60-8	2-Fluorobiphenyl	80.8			44 - 119		81%	SPK: 100		
1718-51-0	Terphenyl-d14	95.0			50 - 134		95%	SPK: 100		
INTERNAL STANDARDS		**Area Count**								
3855-82-1	1,4-Dichlorobenzene-d4	58200								
1146-65-2	Naphthalene-d8	226000								
15067-26-2	Acenaphthene-d10	129000								
1517-22-2	Phenanthrene-d10	235000								
1719-03-5	Chrysene-d12	125000								
1520-96-3	Perylene-d12	147000								

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Pacific Commercial Services Inc.			Date Collected:	
Project:	Kilo Pier			Date Received:	
Client Sample ID:	PB170473BS			SDG No.:	Q3574
Lab Sample ID:	PB170473BS			Matrix:	Water
Analytical Method:	8270E	Level:	LOW	% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol:	1000 uL	Test:	SVOC-PAH
Prep Method :	3510C	Prep Date:	11/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
91-20-3	Naphthalene	41.6		1	0.50	4.00	5.00	ug/L	11/13/25 15:55	PB170473
208-96-8	Acenaphthylene	46.9		1	0.75	4.00	5.00	ug/L	11/13/25 15:55	PB170473
83-32-9	Acenaphthene	37.6		1	0.55	4.00	5.00	ug/L	11/13/25 15:55	PB170473
86-73-7	Fluorene	42.8		1	0.63	4.00	5.00	ug/L	11/13/25 15:55	PB170473
85-01-8	Phenanthrene	43.2		1	0.50	4.00	5.00	ug/L	11/13/25 15:55	PB170473
120-12-7	Anthracene	43.3		1	0.61	4.00	5.00	ug/L	11/13/25 15:55	PB170473
206-44-0	Fluoranthene	41.3		1	0.82	4.00	5.00	ug/L	11/13/25 15:55	PB170473
129-00-0	Pyrene	51.7		1	0.50	4.00	5.00	ug/L	11/13/25 15:55	PB170473
56-55-3	Benzo(a)anthracene	45.2		1	0.45	4.00	5.00	ug/L	11/13/25 15:55	PB170473
218-01-9	Chrysene	46.5		1	0.44	4.00	5.00	ug/L	11/13/25 15:55	PB170473
205-99-2	Benzo(b)fluoranthene	41.5		1	0.49	4.00	5.00	ug/L	11/13/25 15:55	PB170473
207-08-9	Benzo(k)fluoranthene	46.1		1	0.48	4.00	5.00	ug/L	11/13/25 15:55	PB170473
50-32-8	Benzo(a)pyrene	46.7		1	0.55	4.00	5.00	ug/L	11/13/25 15:55	PB170473
193-39-5	Indeno(1,2,3-cd)pyrene	45.9		1	0.59	4.00	5.00	ug/L	11/13/25 15:55	PB170473
53-70-3	Dibenzo(a,h)anthracene	45.7		1	0.67	4.00	5.00	ug/L	11/13/25 15:55	PB170473
191-24-2	Benzo(g,h,i)perylene	47.4		1	0.69	4.00	5.00	ug/L	11/13/25 15:55	PB170473
SURROGATES										
4165-60-0	Nitrobenzene-d5	83.2			44 - 120		83%	SPK: 100		
321-60-8	2-Fluorobiphenyl	76.8			44 - 119		77%	SPK: 100		
1718-51-0	Terphenyl-d14	96.5			50 - 134		96%	SPK: 100		
INTERNAL STANDARDS		**Area Count**								
3855-82-1	1,4-Dichlorobenzene-d4	61400								
1146-65-2	Naphthalene-d8	243000								
15067-26-2	Acenaphthene-d10	140000								
1517-22-2	Phenanthrene-d10	237000								
1719-03-5	Chrysene-d12	118000								
1520-96-3	Perylene-d12	158000								

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Pacific Commercial Services Inc.			Date Collected:	
Project:	Kilo Pier			Date Received:	
Client Sample ID:	PB170473BSD			SDG No.:	Q3574
Lab Sample ID:	PB170473BSD			Matrix:	Water
Analytical Method:	8270E	Level:	LOW	% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol:	1000 uL	Test:	SVOC-PAH
Prep Method :	3510C	Prep Date:	11/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
91-20-3	Naphthalene	41.1		1	0.50	4.00	5.00	ug/L	11/13/25 16:24	PB170473
208-96-8	Acenaphthylene	47.0		1	0.75	4.00	5.00	ug/L	11/13/25 16:24	PB170473
83-32-9	Acenaphthene	38.2		1	0.55	4.00	5.00	ug/L	11/13/25 16:24	PB170473
86-73-7	Fluorene	42.6		1	0.63	4.00	5.00	ug/L	11/13/25 16:24	PB170473
85-01-8	Phenanthrene	43.1		1	0.50	4.00	5.00	ug/L	11/13/25 16:24	PB170473
120-12-7	Anthracene	43.5		1	0.61	4.00	5.00	ug/L	11/13/25 16:24	PB170473
206-44-0	Fluoranthene	40.8		1	0.82	4.00	5.00	ug/L	11/13/25 16:24	PB170473
129-00-0	Pyrene	49.4		1	0.50	4.00	5.00	ug/L	11/13/25 16:24	PB170473
56-55-3	Benzo(a)anthracene	44.5		1	0.45	4.00	5.00	ug/L	11/13/25 16:24	PB170473
218-01-9	Chrysene	45.7		1	0.44	4.00	5.00	ug/L	11/13/25 16:24	PB170473
205-99-2	Benzo(b)fluoranthene	42.6		1	0.49	4.00	5.00	ug/L	11/13/25 16:24	PB170473
207-08-9	Benzo(k)fluoranthene	45.0		1	0.48	4.00	5.00	ug/L	11/13/25 16:24	PB170473
50-32-8	Benzo(a)pyrene	47.1		1	0.55	4.00	5.00	ug/L	11/13/25 16:24	PB170473
193-39-5	Indeno(1,2,3-cd)pyrene	45.7		1	0.59	4.00	5.00	ug/L	11/13/25 16:24	PB170473
53-70-3	Dibenzo(a,h)anthracene	45.9		1	0.67	4.00	5.00	ug/L	11/13/25 16:24	PB170473
191-24-2	Benzo(g,h,i)perylene	46.6		1	0.69	4.00	5.00	ug/L	11/13/25 16:24	PB170473
SURROGATES										
4165-60-0	Nitrobenzene-d5	82.0			44 - 120		82%	SPK: 100		
321-60-8	2-Fluorobiphenyl	78.5			44 - 119		79%	SPK: 100		
1718-51-0	Terphenyl-d14	94.1			50 - 134		94%	SPK: 100		
INTERNAL STANDARDS		**Area Count**								
3855-82-1	1,4-Dichlorobenzene-d4	58800								
1146-65-2	Naphthalene-d8	242000								
15067-26-2	Acenaphthene-d10	135000								
1517-22-2	Phenanthrene-d10	233000								
1719-03-5	Chrysene-d12	118000								
1520-96-3	Perylene-d12	155000								

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 05 18:37:33 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF144169.D 5 =BF144170.D 10 =BF144171.D 20 =BF144172.D 40 =BF144173.D 50 =BF144174.D 60 =BF144175.D 80 =BF1441
76.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.526	0.487	0.518	0.554	0.500	0.573	0.540	0.528	5.68
3)		Pyridine		1.374	1.406	1.491	1.520	1.378	1.607	1.543	1.474	6.12
4)		n-Nitrosodimet...			0.719	0.726	0.775	0.723	0.868	0.810	0.770	7.79
5)	S	2-Fluorophenol		1.332	1.303	1.316	1.315	1.157	1.330	1.193	1.278	5.62
6)		Aniline		2.194	2.169	2.114	2.067	1.841	2.139	1.920	2.063	6.46
7)	S	Phenol-d6		1.566	1.518	1.511	1.460	1.281	1.461	1.339	1.448	7.08
8)		2-Chlorophenol		1.242	1.309	1.292	1.281	1.152	1.293	1.204	1.253	4.59
9)		Benzaldehyde			1.033	0.917	0.816	0.672	0.786	0.683	0.818	16.99
10)	C	Phenol		1.845	1.896	1.840	1.858	1.562	1.790	1.594	1.769	7.60
11)		bis(2-Chloroet...		1.278	1.333	1.342	1.316	1.155	1.341	1.259	1.289	5.22
12)		1,3-Dichlorobe...		1.677	1.573	1.583	1.541	1.397	1.586	1.468	1.547	5.86
13)	C	1,4-Dichlorobe...		1.669	1.563	1.583	1.591	1.372	1.604	1.464	1.549	6.40
14)		1,2-Dichlorobe...		1.651	1.510	1.488	1.485	1.325	1.533	1.404	1.485	6.88
15)		Benzyl Alcohol			1.140	1.188	1.161	1.050	1.197	1.145	1.147	4.61
16)		2,2'-oxybis(1-...		2.408	2.470	2.496	2.418	2.147	2.442	2.238	2.374	5.50
17)		2-Methylphenol		1.031	1.054	1.007	1.033	0.895	1.002	0.958	0.997	5.44
18)		Hexachloroethane		0.512	0.513	0.532	0.532	0.467	0.543	0.504	0.515	4.90
19)	P	n-Nitroso-di-n...	0.998	1.010	1.023	0.996	0.950	0.813	0.937	0.900	0.953	7.38
20)		3+4-Methylphenols			1.330	1.223	1.215	1.030	1.175	1.080	1.175	9.16
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.479	0.464	0.434	0.434	0.380	0.421	0.391	0.429	8.34
23)	S	Nitrobenzene-d5		0.343	0.352	0.349	0.360	0.321	0.361	0.338	0.346	4.07
24)		Nitrobenzene		0.370	0.390	0.376	0.388	0.342	0.398	0.368	0.376	4.90
25)		Isophorone		0.659	0.668	0.669	0.673	0.581	0.675	0.659	0.655	5.05
26)	C	2-Nitrophenol		0.167	0.187	0.191	0.197	0.174	0.200	0.186	0.186	6.47
27)		2,4-Dimethylph...		0.281	0.278	0.265	0.298	0.260	0.295	0.275	0.279	5.08
28)		bis(2-Chloroet...		0.426	0.417	0.412	0.423	0.372	0.423	0.390	0.409	5.02
29)	C	2,4-Dichloroph...		0.334	0.342	0.330	0.331	0.289	0.326	0.297	0.322	6.20
30)		1,2,4-Trichlor...		0.350	0.349	0.332	0.337	0.296	0.335	0.312	0.330	5.96
31)		Naphthalene		1.019	1.008	0.982	0.969	0.850	0.952	0.880	0.951	6.71
32)		Benzoic acid			0.268	0.220	0.180	0.165	0.190	0.204	0.204	17.90
33)		4-Chloroaniline		0.358	0.364	0.355	0.362	0.309	0.355	0.326	0.347	6.07
34)	C	Hexachlorobuta...		0.256	0.250	0.252	0.259	0.232	0.254	0.238	0.249	4.03
35)		Caprolactam			0.094	0.093	0.092	0.075	0.087	0.088	0.088	8.10
36)	C	4-Chloro-3-met...		0.283	0.307	0.304	0.297	0.259	0.290	0.277	0.288	5.77
37)		2-Methylnaphth...		0.702	0.672	0.665	0.647	0.559	0.623	0.583	0.636	7.98
38)		1-Methylnaphth...		0.667	0.681	0.632	0.620	0.536	0.600	0.561	0.614	8.61

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110525.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.677	0.662	0.659	0.675	0.588	0.716	0.611	0.655	6.57
41)	P	Hexachlorocycl...		0.121	0.142	0.200	0.204	0.253	0.248	0.195	27.78
42)	S	2,4,6-Tribromo...	0.242	0.257	0.257	0.265	0.227	0.261	0.249	0.251	5.27
43)	C	2,4,6-Trichlor...	0.440	0.449	0.449	0.456	0.409	0.489	0.431	0.446	5.49
44)		2,4,5-Trichlor...	0.497	0.489	0.497	0.489	0.438	0.502	0.456	0.481	5.05
45)	S	2-Fluorobiphenyl	1.598	1.428	1.361	1.350	1.177	1.381	1.183	1.354	10.72
46)		1,1'-Biphenyl	1.535	1.446	1.425	1.408	1.239	1.450	1.270	1.396	7.52
47)		2-Chloronaphth...	1.303	1.216	1.206	1.204	1.068	1.252	1.087	1.191	7.12
48)		2-Nitroaniline	0.302	0.347	0.349	0.361	0.326	0.374	0.345	0.344	6.84
49)		Acenaphthylene	1.727	1.686	1.677	1.645	1.440	1.678	1.506	1.623	6.57
50)		Dimethylphthalate	1.437	1.343	1.359	1.345	1.168	1.375	1.247	1.325	6.71
51)		2,6-Dinitrotol...	0.251	0.271	0.271	0.276	0.252	0.290	0.266	0.268	5.16
52)	C	Acenaphthene	1.138	1.162	1.120	1.096	0.956	1.117	1.007	1.085	6.90
53)		3-Nitroaniline	0.271	0.301	0.302	0.315	0.264	0.316	0.283	0.293	7.07
54)	P	2,4-Dinitrophenol		0.202	0.166	0.140	0.133	0.168	0.164	0.162	14.99
55)		Dibenzofuran	1.644	1.600	1.586	1.551	1.337	1.562	1.359	1.520	7.99
56)	P	4-Nitrophenol		0.273	0.202	0.204	0.185	0.211	0.198	0.212	14.64
57)		2,4-Dinitrotol...	0.322	0.377	0.372	0.385	0.328	0.377	0.353	0.359	7.07
58)		Fluorene	1.295	1.223	1.197	1.180	0.997	1.149	1.048	1.156	8.88
59)		2,3,4,6-Tetrac...	0.308	0.347	0.336	0.358	0.316	0.372	0.345	0.340	6.58
60)		Diethylphthalate	1.294	1.273	1.254	1.254	1.075	1.237	1.163	1.221	6.27
61)		4-Chlorophenyl...	0.711	0.701	0.678	0.685	0.570	0.659	0.605	0.658	7.92
62)		4-Nitroaniline	0.273	0.290	0.293	0.288	0.254	0.288	0.268	0.279	5.10
63)		Azobenzene	1.157	1.203	1.145	1.164	0.995	1.197	1.096	1.137	6.33
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.147	0.138	0.130	0.120	0.142	0.138	0.136	6.99
66)	c	n-Nitrosodiphe...	0.695	0.676	0.635	0.646	0.577	0.660	0.614	0.643	6.12
67)		4-Bromophenyl-...	0.264	0.260	0.255	0.263	0.228	0.266	0.252	0.255	5.18
68)		Hexachlorobenzene	0.306	0.306	0.305	0.300	0.273	0.319	0.296	0.301	4.74
69)		Atrazine	0.215	0.211	0.215	0.206	0.180	0.210	0.196	0.205	6.26
70)	C	Pentachlorophenol		0.135	0.144	0.156	0.137	0.162	0.165	0.150	8.76
71)		Phenanthrene	1.103	1.042	0.986	1.009	0.892	1.003	0.937	0.996	6.87
72)		Anthracene	1.120	1.059	1.027	1.022	0.897	1.027	0.936	1.013	7.37
73)		Carbazole	0.938	0.917	0.882	0.878	0.762	0.854	0.794	0.861	7.36
74)		Di-n-butylphth...	1.075	1.101	1.077	1.070	0.917	1.059	0.986	1.041	6.27
75)	C	Fluoranthene	1.117	1.066	1.053	1.054	0.910	1.043	0.958	1.029	6.84
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.707	0.519	0.624	0.512	0.635	0.553	0.592	12.98
78)		Pyrene	1.763	1.745	1.631	1.704	1.372	1.569	1.504	1.613	8.79
79)	S	Terphenyl-d14	1.403	1.415	1.274	1.317	1.042	1.208	1.155	1.259	10.71
80)		Butylbenzylpht...	0.565	0.590	0.550	0.590	0.499	0.570	0.549	0.559	5.60
81)		Benzo(a)anthra...	1.455	1.340	1.330	1.430	1.290	1.493	1.366	1.386	5.37
82)		3,3'-Dichlorob...		0.453	0.461	0.482	0.441	0.532	0.481	0.475	6.77
83)		Chrysene	1.276	1.245	1.279	1.403	1.164	1.326	1.263	1.280	5.72
84)		Bis(2-ethylhex...	0.773	0.739	0.755	0.816	0.705	0.803	0.764	0.765	4.92
85)	c	Di-n-octyl pht...		1.163	1.272	1.410	1.269	1.442	1.364	1.320	7.91

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110525.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.450	1.411	1.447	1.485	1.311	1.521	1.425	1.436	4.62
88)		Benzo(b)fluora...	1.199	1.133	1.114	1.233	1.002	1.134	1.143	1.137	6.40
89)		Benzo(k)fluora...	1.077	1.094	1.083	1.041	0.999	1.134	1.021	1.064	4.36
90)	C	Benzo(a)pyrene	1.064	1.050	1.058	1.077	0.963	1.103	1.029	1.049	4.23
91)		Dibenzo(a,h)an...	1.155	1.155	1.175	1.198	1.040	1.209	1.138	1.153	4.85
92)		Benzo(g,h,i)pe...	1.095	1.125	1.153	1.191	1.028	1.228	1.150	1.139	5.70

(#) = Out of Range

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: PACI01

Lab Code: ACE SDG No.: Q3574

Instrument ID: BNA_F Calibration Date/Time: 11/13/2025 14:56

Lab File ID: BF144243.D Init. Calib. Date(s): 11/05/2025 11/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:50 16:49

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.375		7.6	
Phenol-d6	1.448	1.526		5.4	
Nitrobenzene-d5	0.346	0.362		4.6	
Naphthalene	0.951	0.964		1.4	
2-Fluorobiphenyl	1.354	1.327		-2.0	
Acenaphthylene	1.623	1.644		1.3	
Acenaphthene	1.085	1.166		7.5	20.0
Fluorene	1.156	1.154		-0.2	
2,4,6-Tribromophenol	0.251	0.249		-0.8	
Phenanthrene	0.996	1.007		1.1	
Anthracene	1.013	1.027		1.4	
Fluoranthene	1.029	0.976		-5.2	20.0
Pyrene	1.613	1.773		9.9	
Terphenyl-d14	1.259	1.311		4.1	
Benzo(a)anthracene	1.386	1.424		2.7	
Chrysene	1.280	1.371		7.1	
Benzo(b)fluoranthene	1.137	1.144		0.6	
Benzo(k)fluoranthene	1.064	1.069		0.5	
Benzo(a)pyrene	1.049	1.055		0.6	20.0
Indeno(1,2,3-cd)pyrene	1.436	1.481		3.1	
Dibenzo(a,h)anthracene	1.153	1.199		4.0	
Benzo(g,h,i)perylene	1.139	1.197		5.1	

All other compounds must meet a minimum RRF of 0.010.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: PACI01

Lab Code: ACE SDG No.: Q3574

Instrument ID: BNA_F Calibration Date/Time: 11/13/2025 18:53

Lab File ID: BF144251.D Init. Calib. Date(s): 11/05/2025 11/05/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 12:50 16:49

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.349		5.6	50.0
Phenol-d6	1.448	1.529		5.6	50.0
Nitrobenzene-d5	0.346	0.363		4.9	50.0
Naphthalene	0.951	0.976		2.6	50.0
2-Fluorobiphenyl	1.354	1.375		1.6	50.0
Acenaphthylene	1.623	1.686		3.9	50.0
Acenaphthene	1.085	1.109		2.2	50.0
Fluorene	1.156	1.171		1.3	50.0
2,4,6-Tribromophenol	0.251	0.242		-3.6	50.0
Phenanthrene	0.996	1.031		3.5	50.0
Anthracene	1.013	1.043		3.0	50.0
Fluoranthene	1.029	0.946		-8.1	50.0
Pyrene	1.613	1.723		6.8	50.0
Terphenyl-d14	1.259	1.285		2.1	50.0
Benzo(a)anthracene	1.386	1.449		4.5	50.0
Chrysene	1.280	1.328		3.8	50.0
Benzo(b)fluoranthene	1.137	1.188		4.5	50.0
Benzo(k)fluoranthene	1.064	1.067		0.3	50.0
Benzo(a)pyrene	1.049	1.080		3.0	50.0
Indeno(1,2,3-cd)pyrene	1.436	1.508		5.0	50.0
Dibenzo(a,h)anthracene	1.153	1.205		4.5	50.0
Benzo(g,h,i)perylene	1.139	1.188		4.3	50.0

All other compounds must meet a minimum RRF of 0.010.