

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2008

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1993-03MSD	Client Sample ID:	MW-3-20250508MSD					DataFile:	BF142342.D		
Benzaldehyde	50	0	38.2	ug/L	76		5		20 (10)	160 (137)	20 (20)
Phenol	50	0	16.6	ug/L	33		6		20 (10)	160 (130)	20 (20)
bis(2-Chloroethyl)ether	50	0	37.1	ug/L	74		6		70 (29)	130 (141)	20 (20)
2-Chlorophenol	50	0	39.6	ug/L	79		5		70 (23)	130 (127)	20 (20)
2-Methylphenol	50	0	34.2	ug/L	68	*	6		70 (60)	130 (131)	20 (20)
2,2-oxybis(1-Chloropropane)	50	0	41.4	ug/L	83		5		70 (36)	130 (141)	20 (20)
Acetophenone	50	0	45.4	ug/L	91		6		70 (31)	130 (164)	20 (20)
3+4-Methylphenols	50	0	30.3	ug/L	61		7		20 (54)	160 (136)	20 (20)
N-Nitroso-di-n-propylamine	50	0	45.2	ug/L	90		5		70 (36)	130 (147)	20 (20)
Hexachloroethane	50	0	35.6	ug/L	71		3		20 (19)	160 (146)	20 (20)
Nitrobenzene	50	0	49.8	ug/L	100		7		70 (62)	130 (112)	20 (20)
Isophorone	50	0	47.0	ug/L	94		5		70 (39)	130 (146)	20 (20)
2-Nitrophenol	50	0	52.7	ug/L	105		6		70 (30)	130 (148)	20 (20)
2,4-Dimethylphenol	50	0	44.5	ug/L	89		6		70 (17)	130 (143)	20 (20)
bis(2-Chloroethoxy)methane	50	0	46.1	ug/L	92		4		70 (39)	130 (143)	20 (20)
2,4-Dichlorophenol	50	0	46.8	ug/L	94		5		70 (22)	130 (146)	20 (20)
Naphthalene	50	0	42.7	ug/L	85		5		70 (17)	130 (157)	20 (20)
4-Chloroaniline	50	0	15.0	ug/L	30	*	3		70 (10)	130 (95)	20 (20)
Hexachlorobutadiene	50	0	40.1	ug/L	80		4		70 (52)	130 (125)	20 (20)
Caprolactam	50	0	10.5	ug/L	21		10		20 (10)	160 (130)	20 (20)
4-Chloro-3-methylphenol	50	0	43.4	ug/L	87		6		70 (17)	130 (148)	20 (20)
2-Methylnaphthalene	50	0	44.2	ug/L	88		3		70 (38)	130 (146)	20 (20)
Hexachlorocyclopentadiene	100	0	80.5	ug/L	81		5		20 (20)	160 (153)	20 (20)
2,4,6-Trichlorophenol	50	0	51.7	ug/L	103		6		70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	50	0	50.0	ug/L	100		8		70 (71)	130 (111)	20 (20)
1,1-Biphenyl	50	0	45.6	ug/L	91		4		70 (38)	130 (154)	20 (20)
2-Chloronaphthalene	50	0	45.5	ug/L	91		6		70 (41)	130 (145)	20 (20)
2-Nitroaniline	50	0	56.9	ug/L	114		8		70 (39)	130 (151)	20 (20)
Dimethylphthalate	50	0	49.3	ug/L	99		6		70 (42)	130 (147)	20 (20)
Acenaphthylene	50	0	45.5	ug/L	91		6		70 (40)	130 (141)	20 (20)
2,6-Dinitrotoluene	50	0	57.7	ug/L	115		6		70 (43)	130 (148)	20 (20)
3-Nitroaniline	50	0	25.9	ug/L	52	*	4		70 (10)	130 (111)	20 (20)
Acenaphthene	50	0	50.7	ug/L	101		6		70 (37)	130 (146)	20 (20)
2,4-Dinitrophenol	100	0	110	ug/L	110		11		20 (14)	160 (167)	20 (20)
4-Nitrophenol	100	0	40.3	ug/L	40		8		20 (10)	160 (130)	20 (20)
Dibenzofuran	50	0	45.3	ug/L	91		6		70 (41)	130 (145)	20 (20)
2,4-Dinitrotoluene	50	0	60.6	ug/L	121		8		70 (74)	130 (137)	20 (20)
Diethylphthalate	50	41.1	75.2	ug/L	68	*	13		70 (41)	130 (148)	20 (20)
4-Chlorophenyl-phenylether	50	0	46.2	ug/L	92		6		70 (38)	130 (149)	20 (20)
Fluorene	50	0	45.2	ug/L	90		6		70 (39)	130 (144)	20 (20)
4-Nitroaniline	50	0	56.9	ug/L	114		9		70 (27)	130 (138)	20 (20)
4,6-Dinitro-2-methylphenol	50	0	58.3	ug/L	117		9		70 (32)	130 (175)	20 (20)
N-Nitrosodiphenylamine	50	0	49.8	ug/L	100		5		70 (40)	130 (150)	20 (20)
4-Bromophenyl-phenylether	50	0	51.1	ug/L	102		5		70 (42)	130 (151)	20 (20)
Hexachlorobenzene	50	0	50.1	ug/L	100		5		70 (72)	130 (115)	20 (20)
Atrazine	50	0	51.5	ug/L	103		7		70 (20)	130 (162)	20 (20)

() = LABORATORY INHOUSE LIMIT

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Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	100	0	110	ug/L	110		10		20 (52)	160 (162)	20 (20)
Phenanthrene	50	0	46.5	ug/L	93		6		70 (40)	130 (147)	20 (20)
Anthracene	50	0	45.9	ug/L	92		4		70 (41)	130 (146)	20 (20)
Carbazole	50	0	43.7	ug/L	87		6		70 (37)	130 (154)	20 (20)
Di-n-butylphthalate	50	0	54.5	ug/L	109		5		70 (40)	130 (151)	20 (20)
Fluoranthene	50	0	41.9	ug/L	84		6		70 (42)	130 (146)	20 (20)
Pyrene	50	0	42.7	ug/L	85		6		70 (41)	130 (149)	20 (20)
Butylbenzylphthalate	50	0	60.3	ug/L	121		10		70 (39)	130 (155)	20 (20)
3,3-Dichlorobenzidine	50	0	42.7	ug/L	85		5		70 (10)	130 (114)	20 (20)
Benzo(a)anthracene	50	0	48.4	ug/L	97		5		70 (41)	130 (147)	20 (20)
Chrysene	50	0	48.0	ug/L	96		5		70 (44)	130 (144)	20 (20)
bis(2-Ethylhexyl)phthalate	50	8.70	62.6	ug/L	108		6		70 (33)	130 (160)	20 (20)
Di-n-octyl phthalate	50	0	54.6	ug/L	109		4		70 (36)	130 (158)	20 (20)
Benzo(b)fluoranthene	50	0	48.4	ug/L	97		3		70 (40)	130 (150)	20 (20)
Benzo(k)fluoranthene	50	0	50.7	ug/L	101		8		70 (40)	130 (147)	20 (20)
Benzo(a)pyrene	50	0	50.8	ug/L	102		7		70 (42)	130 (147)	20 (20)
Indeno(1,2,3-cd)pyrene	50	0	37.1	ug/L	74		4		70 (30)	130 (166)	20 (20)
Dibenz(a,h)anthracene	50	0	37.4	ug/L	75		4		70 (23)	130 (172)	20 (20)
Benzo(g,h,i)perylene	50	0	33.0	ug/L	66	*	3		70 (27)	130 (167)	20 (20)
1,2,4,5-Tetrachlorobenzene	50	0	44.5	ug/L	89		5		70 (89)	130 (102)	20 (20)
1,4-Dioxane	50	0	19.4	ug/L	39		8		20 (38)	160 (130)	20 (20)
2,3,4,6-Tetrachlorophenol	50	0	51.3	ug/L	103		5		70 (91)	130 (111)	20 (20)