Tcab 9/9/02

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 09/09/02 11:47
Run ID: R83206 Workgroup: WG63109 (ICPMS TISSUE 7/8/02)

MB:WG63109-1 Matrix: BLANK WTR Listtype: MTICPMS-TISS Method: PSEP (06-03-004&004A-002) Project: PKey: STD

Parameter	Mdl	Rdl	Units	MB Value	Qual
Beryllium, Total, ICP-MS	.0008	.004	mg/L	<MDL	
Nickel, Total, ICP-MS	.0012	.006	mg/L	<MDL	
Lead, Total, ICP-MS	.0008	.004	mg/L	<MDL	
Antimony, Total, ICP-MS	.002	.01	mg/L	<MDL	
Tin, Total, ICP-MS	.0012	.006	mg/L	<MDL	
Thallium, Total, ICP-MS	.0008	.004	mg/L	<MDL	

SB:WG63109-2 MB:WG63109-1 Matrix: BLANK WTR Listtype: MTICPMS-TISS Method: PSEP (06-03-004&004A-002) Project: PKey: STD

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	Limits	Truevalue	Value	% Rec.	Qual	Limits	RPD/RSD	Qual	Limits
Beryllium, Total, ICP-MS	.0008	.004	mg/L	<MDL	0.1	.0821	82	*	85-115								
Nickel, Total, ICP-MS	.0012	.006	mg/L	<MDL	0.1	.0912	91		85-115								
Lead, Total, ICP-MS	.0008	.004	mg/L	<MDL	0.1	.0973	97		85-115								
Antimony, Total, ICP-MS	.002	.01	mg/L	<MDL	0.1	.0872	87		85-115								
Tin, Total, ICP-MS	.0012	.006	mg/L	<MDL	0.1	.0958	96		85-115								
Thallium, Total, ICP-MS	.0008	.004	mg/L	<MDL	0.1	.0988	99		85-115								

SRM:WG63109-3 Matrix: SHELLFISH Listtype: MTICPMS-TISS Method: PSEP (06-03-004&004A-002) Project: PKey: STD

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	SRM Value	% Rec.	Qual	Limits	RPD/RSD	Qual	Limits
Lead, Total, ICP-MS	.16	.794	mg/Kg		.35	.34	97		80-120			
Nickel, Total, ICP-MS	.24	1.19	mg/Kg		2.5	2.03	81		80-120			

SRM:WG63109-4 Matrix: SHELLFISH Listtype: MTICPMS-TISS Method: PSEP (06-03-004&004A-002) Project: PKey: STD

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	SRM Value	% Rec.	Qual	Limits	RPD/RSD	Qual	Limits
Lead, Total, ICP-MS	.16	.784	mg/Kg		.065	<MDL	0	*	80-120			
Nickel, Total, ICP-MS	.24	1.18	mg/Kg		19.4	5.51	28	*	80-120			

LD:WG63109-5 L24060-14 Matrix: SHELLFISH Listtype: MTICPMS-TISS Method: PSEP (06-03-004&004A-002) Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	LD Value	% Rec.	Qual	Limits	RPD/RSD	Qual	Limits
Antimony, Total, ICP-MS	.02	.0999	mg/Kg	<MDL		<MDL						20
Beryllium, Total, ICP-MS	.008	.04	mg/Kg	<MDL		<MDL						20
Lead, Total, ICP-MS	.008	.04	mg/Kg	.201		.174				14		20
Nickel, Total, ICP-MS	.012	.06	mg/Kg	.313		.255				20		20
Thallium, Total, ICP-MS	.008	.04	mg/Kg	<MDL		<MDL						20
Tin, Total, ICP-MS	.012	.06	mg/Kg	.182		.0918				66	*	20

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 09/09/02 11:47
Run ID: R83206 Workgroup: WG63109 (ICPMS TISSUE 7/8/02)

MS:WG63109-6 L24060-14 Matrix: SHELLFISH Listtype: MTICPMS-TISS Method: PSEP (06-03-004&004A-002) Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	MS Value	% Rec.	Qual	Limits	RPD/RSD	Qual	Limits
Antimony, Total, ICP-MS	.02	.0999	mg/Kg	<MDL	.1	.935	94		80-120			
Beryllium, Total, ICP-MS	.008	.04	mg/Kg	<MDL	.1	.916	92		80-120			
Lead, Total, ICP-MS	.008	.04	mg/Kg	.201	.1	1.14	94		80-120			
Nickel, Total, ICP-MS	.012	.0599	mg/Kg	.313	.1	1.32	101		80-120			
Thallium, Total, ICP-MS	.008	.04	mg/Kg	<MDL	.1	.946	95		80-120			
Tin, Total, ICP-MS	.012	.0599	mg/Kg	.182	.1	.565	38	*	80-120			

METRO Environmental Laboratory

WORK GROUP REPORT (wk02)

Sep 09 2002, 11:40 am

Work Group: WG61774 (North Outfall Siting Study) for Department: 5 - Microbiology

Created: 08-MAY-02 Due: 08-MAY-02 Operator: AG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L24060-14	423457	North Outfall Siting Study	S		EC-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-16	423457	North Outfall Siting Study	S		EC-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-18	423457	North Outfall Siting Study	S		EC-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-2	423457	North Outfall Siting Study	S		EC-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-4	423457	North Outfall Siting Study	S		EC-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-6	423457	North Outfall Siting Study	S		EC-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02

Comments:

L24060-14	Zone 7S, sample 1, whole body
L24060-16	Zone 7S, sample 2, whole body
L24060-18	Zone 7S, sample 3, whole body
L24060-2	Zone 7N, sample 1, whole body
L24060-4	Zone 7N, sample 2, whole body
L24060-6	Zone 7N, sample 3, whole body

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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 09/09/02 11:44
Run ID: R80837 Workgroup: WG61774 (North Outfall Siting Study)

LD:WG61774-1 L24060-18 Matrix: SHELLFISH Listtype: MCEC-MPN Method: METRO MC SOP 6.5.2 Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	LD Value	% Rec.	Qual	Limits	RPD/RSD	Qual	Limits
Escherichia coli			MPN/100g	70		70						

PC:WG61774-2 Matrix: SHELLFISH Listtype: MCEC-MPN Method: METRO MC SOP 6.5.2 Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	PC Value	Qual
Escherichia coli			MPN/100g		P

NC:WG61774-3 Matrix: SHELLFISH Listtype: MCEC-MPN Method: METRO MC SOP 6.5.2 Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	NC Value	Qual
Escherichia coli			MPN/100g		P

METRO Environmental Laboratory

WORK GROUP REPORT (wk02)

Sep 09 2002, 11:40 am

Work Group: WG61775 (North Outfall Siting Study) for Department: 5 - Microbiology

Created: 08-MAY-02 Due: 08-MAY-02 Operator: AG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L24060-14	423457	North Outfall Siting Study		S	ENT-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-16	423457	North Outfall Siting Study		S	ENT-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-18	423457	North Outfall Siting Study		S	ENT-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-2	423457	North Outfall Siting Study		S	ENT-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-4	423457	North Outfall Siting Study		S	ENT-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-6	423457	North Outfall Siting Study		S	ENT-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02

Comments:

L24060-14	Zone 7S, sample 1, whole body
L24060-16	Zone 7S, sample 2, whole body
L24060-18	Zone 7S, sample 3, whole body
L24060-2	Zone 7N, sample 1, whole body
L24060-4	Zone 7N, sample 2, whole body
L24060-6	Zone 7N, sample 3, whole body

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 09/09/02 11:45
Run ID: R80842 Workgroup: WG61775 (North Outfall Siting Study)

KAB 9/9/02

LD:WG61775-1 L24060-18 Matrix: SHELLFISH Listtype: MCENT-MPN Method: METRO MC SOP 6.3.2 Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	LD Value	% Rec.	Qual	Limits	RPD/RSD	Qual	Limits
Enterococcus			MPN/100g	20		20						

PC:WG61775-2 Matrix: SHELLFISH Listtype: MCENT-MPN Method: METRO MC SOP 6.3.2 Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	PC Value	Qual
Enterococcus			MPN/100g		P

NC:WG61775-3 Matrix: SHELLFISH Listtype: MCENT-MPN Method: METRO MC SOP 6.3.2 Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	NC Value	Qual
Enterococcus			MPN/100g		P

METRO Environmental Laboratory

WORK GROUP REPORT (wk02)

Sep 09 2002, 11:41 am

Work Group: WG61776 (North Outfall Siting Study) for Department: 5 - Microbiology

Created: 08-MAY-02 Due: 08-MAY-02 Operator: AG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L24060-14	423457	North Outfall Siting Study	S		FC-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-16	423457	North Outfall Siting Study	S		FC-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-18	423457	North Outfall Siting Study	S		FC-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-2	423457	North Outfall Siting Study	S		FC-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-4	423457	North Outfall Siting Study	S		FC-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02
L24060-6	423457	North Outfall Siting Study	S		FC-MPN	SHELLFISH	DONE	I	18-MAY-02	06-AUG-02

Comments:

L24060-14	Zone 7S, sample 1, whole body
L24060-16	Zone 7S, sample 2, whole body
L24060-18	Zone 7S, sample 3, whole body
L24060-2	Zone 7N, sample 1, whole body
L24060-4	Zone 7N, sample 2, whole body
L24060-6	Zone 7N, sample 3, whole body

KOC 9/9/02

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 09/09/02 11:45
Run ID: R80843 Workgroup: WG61776 (North Outfall Siting Study)

LD:WG61776-1 L24060-18 Matrix: SHELLFISH Listtype: MCFC-MPN Method: METRO MC SOP 6.1.2 Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	SampValue	Truevalue	LD Value	% Rec.	Qual	Limits	RPD/RSD	Qual	Limits
Fecal Coliform			MPN/100g	110		70						

PC:WG61776-2 Matrix: SHELLFISH Listtype: MCFC-MPN Method: METRO MC SOP 6.1.2 Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	PC Value	Qual
Fecal Coliform			MPN/100g		P

NC:WG61776-3 Matrix: SHELLFISH Listtype: MCFC-MPN Method: METRO MC SOP 6.1.2 Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	NC Value	Qual
Fecal Coliform			MPN/100g		P

METRO Environmental Laboratory

WORK GROUP REPORT (wk02)

Sep 09 2002, 11:41 am

Work Group: WG61986 (North Outfall Siting Study) for Department: 5 - Microbiology

Created: 09-MAY-02 Due: 09-MAY-02 Operator: kh

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L24060-10	423457	North Outfall Siting Study		S	EC-MPN	SHELLFISH	DONE	I	19-MAY-02	07-AUG-02
L24060-12	423457	North Outfall Siting Study		S	EC-MPN	SHELLFISH	DONE	I	19-MAY-02	07-AUG-02
L24060-8	423457	North Outfall Siting Study		S	EC-MPN	SHELLFISH	DONE	I	19-MAY-02	07-AUG-02

Comments:

L24060-10 Zone 6, sample 2, whole body
L24060-12 Zone 6, sample 3, whole body
L24060-8 Zone 6, sample 1, whole body

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 09/09/02 11:45
Run ID: R80841 Workgroup: WG61986 (North Outfall Siting Study)

Kab 9/9/02

PC:WG61986-1 Matrix: SHELLFISH Listtype: MCEC-MPN Method: METRO MC SOP 6.5.2 Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	PC Value	Qual
Escherichia coli			MPN/100g		P

NC:WG61986-2 Matrix: SHELLFISH Listtype: MCEC-MPN Method: METRO MC SOP 6.5.2 Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	NC Value	Qual
Escherichia coli			MPN/100g		P