

METRO Environmental Laboratory

WORK GROUP REPORT (wk02)

Sep 09 2002, 11:42 am

Work Group: WG61987 (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	Due date
L24060-10	423457	North Outfall Siting Study	S	ENT-MPN	SHELLFISH	DONE	I	19-MAY-02	07-AUG-02
L24060-12	423457	North Outfall Siting Study	S	ENT-MPN	SHELLFISH	DONE	I	19-MAY-02	07-AUG-02
L24060-8	423457	North Outfall Siting Study	S	ENT-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								

✓ KAG 2/2/02

PC:WG61987-1 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:WG61987-2 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, 11:42 am

Work Group: WG61988 (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	Due date
L24060-10	423457	North Outfall Siting Study	S FC-MPN	SHELLFISH	DONE I	19-MAY-02	07-AUG-02
L24060-12	423457	North Outfall Siting Study	S FC-MPN	SHELLFISH	DONE I	19-MAY-02	07-AUG-02
L24060-8	423457	North Outfall Siting Study	S FC-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						

✓ K02-219102

PC:WG61988-1 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:WG61988-2 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)

Aug 08 2002, 09:32 am

Work Group: W662494 (OP#624 oppest-short) for Department: 7 - Organics, Trace

Created: 10-JUN-02 Due: Operator: lm/mm

Sample	Project Number	Project Description	PKey C	Product	Matrix	Stat	UA	Workdate	Due date
24060-1	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	22-MAY-02	06-AUG-02
24060-10	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	23-MAY-02	07-AUG-02
24060-11	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	23-MAY-02	07-AUG-02
24060-12	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	23-MAY-02	07-AUG-02
24060-13	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	22-MAY-02	06-AUG-02
24060-14	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	22-MAY-02	06-AUG-02
24060-15	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	22-MAY-02	06-AUG-02
24060-16	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	22-MAY-02	06-AUG-02
24060-17	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	22-MAY-02	06-AUG-02
24060-18	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	22-MAY-02	06-AUG-02
24060-2	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	22-MAY-02	06-AUG-02
24060-3	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	22-MAY-02	06-AUG-02
24060-4	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	22-MAY-02	06-AUG-02
24060-5	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	22-MAY-02	06-AUG-02
24060-6	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	22-MAY-02	06-AUG-02
24060-7	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	23-MAY-02	07-AUG-02
24060-8	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	23-MAY-02	07-AUG-02
24060-9	423457	North Outfall Siting Study	S	OPPEST-SHORT	SHELLFISH	ANAL	U	23-MAY-02	07-AUG-02
IG62494-1	MB		S	OPPEST-SHORT	SHELLFISH	ANAL	U	10-JUN-02	
IG62494-2	SB		S	OPPEST-SHORT	SHELLFISH	ANAL	U	10-JUN-02	
IG62494-3	MS		S	OPPEST-SHORT	SHELLFISH	ANAL	U	10-JUN-02	
IG62494-4	MSD		S	OPPEST-SHORT	SHELLFISH	ANAL	U	10-JUN-02	
IG62494-5	MS		S	OPPEST-SHORT	SHELLFISH	ANAL	U	10-JUN-02	
IG62494-6	MSD		S	OPPEST-SHORT	SHELLFISH	ANAL	U	10-JUN-02	

Comments:

24060-1 Zone 7N, sample 1, edible tissue
 24060-10 Zone 6, sample 2, whole body
 24060-11 Zone 6, sample 3, edible tissue
 24060-12 Zone 6, sample 3, whole body
 24060-13 Zone 7S, sample 1, edible tissue
 24060-14 Zone 7S, sample 1, whole body
 24060-15 Zone 7S, sample 2, edible tissue
 24060-16 Zone 7S, sample 2, whole body
 24060-17 Zone 7S, sample 3, edible tissue
 24060-18 Zone 7S, sample 3, whole body
 24060-2 Zone 7N, sample 1, whole body
 24060-3 Zone 7N, sample 2, edible tissue
 24060-4 Zone 7N, sample 2, whole body
 24060-5 Zone 7N, sample 3, edible tissue
 24060-6 Zone 7N, sample 3, whole body
 24060-7 Zone 6, sample 1, edible tissue
 24060-8 Zone 6, sample 1, whole body
 24060-9 Zone 6, sample 2, edible tissue
 G62494-1 MB061002
 G62494-2 W662494-1
 G62494-3 L24060-1 EDIBLE
 G62494-4 W662494-3 L24060-1 EDIBLE
 G62494-5 L24060-4 EDIBLE
 G62494-6 W662494-5 L24060-4 EDIBLE

Lab 21910

MB:W662494-1 Matrix: SHELLFISH Listtype: ORPPEST-SHORT Method: EPA 3540C/8270C (7-3-04-001) Project: PKey: STD

Parameter	Mdl	Rdl	Units	MB Value	Qual
Phorate	11	21.3	ug/Kg	<MDL	
Diazinon	11	21.3	ug/Kg	<MDL	
Disulfoton	11	21.3	ug/Kg	<MDL	
Parathion-Methyl	11	21.3	ug/Kg	<MDL	
Malathion	11	21.3	ug/Kg	<MDL	
Chlorpyrifos	11	21.3	ug/Kg	<MDL	
Parathion-Ethyl	11	21.3	ug/Kg	<MDL	

SB:W662494-2 MB:W662494-1 Matrix: SHELLFISH Listtype: ORPPEST-SHORT Method: EPA 3540C/8270C (7-3-04-001) Project: PKey: STD

Parameter	Mdl	Rdl	Units	MB Value	True Value	Value	% Rec.	Qual	Limits	RPD/RSD	Qual	Limits
Phorate	110	213	ug/Kg	<MDL	166.6667	130	78		50-150			100
Diazinon	110	213	ug/Kg	<MDL	166.6667	150	92		50-150			100
Disulfoton	110	213	ug/Kg	<MDL	166.6667	140	81		50-150			100
Parathion-Methyl	110	213	ug/Kg	<MDL	166.6667	170	100		50-150			100
Malathion	110	213	ug/Kg	<MDL	166.6667	180	108		50-150			100
Chlorpyrifos	110	213	ug/Kg	<MDL	166.6667	170	102		50-150			100
Parathion-Ethyl	110	213	ug/Kg	<MDL	166.6667	160	95		50-150			100

MS:W662494-3 MSD:W662494-4 L24060-1 Matrix: SHELLFISH Listtype: ORPPEST-SHORT Method: EPA 3540C/8270C (7-3-04-001) Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	Sample Value	True Value	MS Value	% Rec.	Qual	Limits	True Value	MSD Value	% Rec.	Qual	Limits	RPD/RSD	Qual	Limits
Phorate	110	213	ug/Kg	<MDL	166.6667	140	87		50-150	166.6667	150	91		50-150			100
Diazinon	110	213	ug/Kg	<MDL	166.6667	200	123		50-150	166.6667	210	124		50-150			100
Disulfoton	110	213	ug/Kg	<MDL	166.6667	140	85		50-150	166.6667	150	91		50-150			100
Parathion-Methyl	110	213	ug/Kg	<MDL	166.6667	317	190	*	50-150	166.6667	335	201	*	50-150	6		100
Malathion	110	213	ug/Kg	<MDL	166.6667	396	238	*	50-150	166.6667	421	253	*	50-150	6		100
Chlorpyrifos	110	213	ug/Kg	<MDL	166.6667	246	147		50-150	166.6667	263	158	*	50-150	7		100
Parathion-Ethyl	110	213	ug/Kg	<MDL	166.6667	329	198		50-150	166.6667	357	214	*	50-150	8		100

MS:W662494-5 MSD:W662494-6 L24060-4 Matrix: SHELLFISH Listtype: ORPPEST-SHORT Method: EPA 3540C/8270C (7-3-04-001) Project: 423457 PKey: STD

Parameter	Mdl	Rdl	Units	Sample Value	True Value	MS Value	% Rec.	Qual	Limits	True Value	MSD Value	% Rec.	Qual	Limits	RPD/RSD	Qual	Limits
Phorate	110	213	ug/Kg	<MDL	166.6667	160	96		50-150	166.6667	150	92		50-150			100
Diazinon	110	213	ug/Kg	<MDL	166.6667	200	122		50-150	166.6667	227	136		50-150	11		100
Disulfoton	110	213	ug/Kg	<MDL	166.6667	120	74		50-150	166.6667	130	77		50-150			100
Parathion-Methyl	110	213	ug/Kg	<MDL	166.6667	469	282	*	50-150	166.6667	509	306	*	50-150	8		100
Malathion	110	213	ug/Kg	<MDL	166.6667	450	270	*	50-150	166.6667	482	289	*	50-150	7		100
Chlorpyrifos	110	213	ug/Kg	<MDL	166.6667	272	163	*	50-150	166.6667	268	161	*	50-150	1		100
Parathion-Ethyl	110	213	ug/Kg	<MDL	166.6667	405	243	*	50-150	166.6667	447	268	*	50-150	10		100

Chlorpyrifos-D10

Sample #	50-150
L24060-1	158 *
L24060-10	171 *
L24060-11	108
L24060-12	163 *
L24060-13	147
L24060-14	167 *
L24060-15	132
L24060-16	164 *
L24060-17	138
L24060-18	170 *
L24060-2	171 *
L24060-3	169 *
L24060-4	167 *
L24060-5	158 *
L24060-6	159 *
L24060-7	189 *
L24060-8	171 *
L24060-9	153 *
WG62494-1	78
WG62494-2	92
WG62494-3	151 *
WG62494-4	160 *
WG62494-5	157 *
WG62494-6	160 *

METRO Environmental Laboratory

WORK GROUP REPORT (wk02)

Jun 13 2002, 01:28 pm

Work Group: WG62498 (%LIPIDS) for Department: 7 - Organics, Trace

Created: 10-JUN-02 Due: Operator: LM/MM

A/M
6/14/02
mm

Sample	Project Number	Project Description	PKey	C Product	Matrix	Stat	UA	Workdate	Due date
L24060-1	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	07-JUL-02	06-AUG-02
L24060-10	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	08-JUL-02	07-AUG-02
L24060-11	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	08-JUL-02	07-AUG-02
L24060-12	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	08-JUL-02	07-AUG-02
L24060-14	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	07-JUL-02	06-AUG-02
L24060-15	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	07-JUL-02	06-AUG-02
L24060-16	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	07-JUL-02	06-AUG-02
L24060-18	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	07-JUL-02	06-AUG-02
L24060-2	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	07-JUL-02	06-AUG-02
L24060-3	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	07-JUL-02	06-AUG-02
L24060-4	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	07-JUL-02	06-AUG-02
L24060-5	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	07-JUL-02	06-AUG-02
L24060-6	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	07-JUL-02	06-AUG-02
L24060-7	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	08-JUL-02	07-AUG-02
L24060-8	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	08-JUL-02	07-AUG-02
L24060-9	423457	North Outfall Siting Study	S	PERCENT LIPIDS	SHELLFISH	PREP	U	08-JUL-02	07-AUG-02
WG62498-1	MB		S	PERCENT LIPIDS	OTHR TISS	PREP	U	10-JUN-02	
WG62498-2	LD		S	PERCENT LIPIDS	SHELLFISH	PREP	U	10-JUN-02	
WG62498-3	LD		S	PERCENT LIPIDS	SHELLFISH	PREP	U	10-JUN-02	

Comments:

L24060-1 Zone 7N, sample 1, edible tissue
 L24060-10 Zone 6, sample 2, whole body
 L24060-11 Zone 6, sample 3, edible tissue
 L24060-12 Zone 6, sample 3, whole body
 L24060-14 Zone 7S, sample 1, whole body
 L24060-15 Zone 7S, sample 2, edible tissue
 L24060-16 Zone 7S, sample 2, whole body
 L24060-18 Zone 7S, sample 3, whole body
 L24060-2 Zone 7N, sample 1, whole body
 L24060-3 Zone 7N, sample 2, edible tissue
 L24060-4 Zone 7N, sample 2, whole body
 L24060-5 Zone 7N, sample 3, edible tissue
 L24060-6 Zone 7N, sample 3, whole body
 L24060-7 Zone 6, sample 1, edible tissue
 L24060-8 Zone 6, sample 1, whole body
 L24060-9 Zone 6, sample 2, edible tissue
 WG62498-1 WG61002
 WG62498-2 L24060-8 WHOLE
 WG62498-3 L24060-9 EDIBLE

Parameter	Mdl	Rdl	Units	MB Value	qual
Percent Lipids	.05	.1	%	0	B

6/19/02
per Mike Doustane - there is a LMS guide &
does not indicate labr contain water. No
recruits to be qualified

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[illegible]

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Parameter	Mdl	Rdl	Units	SampValue	Truevalue	Lb Value	% Rec.	Qual	Limits	RPD/RSD	Qual	Limits
Percent Lipids	.05	.1	%	.21	.21					0		100

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 06/14/02 08:59 - Data Source: ELD

List/Method: ORLIPIDS/(07-03-010-001)
Run ID: R81888 Work Group: WG62498

Col.	Date	Anal.	Project	Matrix	Site	Locator	Sample#	Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
08-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK7N-1E	Percent Lipids	.69	%		.05	.1	
08-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK7N-1W	Percent Lipids	.25	%		.05	.1	
08-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK7N-2E	Percent Lipids	.28	%		.05	.1	
08-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK7N-2W	Percent Lipids	.2	%		.05	.1	
08-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK7N-3E	Percent Lipids	.26	%		.05	.1	
08-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK7N-3W	Percent Lipids	.25	%		.05	.1	
09-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK6-1E	Percent Lipids	.22	%		.05	.1	
09-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK6-1W	Percent Lipids	.34	%		.05	.1	
09-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK6-2E	Percent Lipids	.21	%		.05	.1	
09-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK6-2W	Percent Lipids	.21	%		.05	.1	
09-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK6-3E	Percent Lipids	.15	%		.05	.1	
09-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK6-3W	Percent Lipids	.74	%		.05	.1	
08-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK7S-1W	Percent Lipids	.58	%		.05	.1	
08-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK7S-2E	Percent Lipids	.11	%		.05	.1	
08-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK7S-2W	Percent Lipids	.2	%		.05	.1	
08-MAY-02	423457			SHELLFISH	NORTH	PUGET SOUND	GDK7S-3W	Percent Lipids	.26	%		.05	.1	
08-MAY-02	423457			OTHR TISS	NONE		MB	Percent Lipids	0	%		.05	.1	
				SHELLFISH	NONE		LD	Percent Lipids	.42	%		.05	.1	
				SHELLFISH	NONE		LD	Percent Lipids	.21	%		.05	.1	