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Analytical Laboratories, Since 1878





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900


Laboratory Job Number 272113
ANALYTICAL REPORT

Suisun Bay Reserve Fleet
2595 Lake Herman Rd.
Benicia, CA 94510

Project : CLIN 0002
Location : SWPPP
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
PARKING LOT	272113-001
CAPE BLANCO	272113-002
CAPE BRETON	272113-003
CAPE BORDA	272113-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: 
Mikelle Chong
Project Manager
mikelle.chong@ctberk.com

Date: 12/14/2015

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number: 272113
Client: Suisun Bay Reserve Fleet
Project: CLIN 0002
Location: SWPPP
Request Date: 12/03/15
Samples Received: 11/09/15

This data package contains sample and QC results for four water samples, requested for the above referenced project on 12/03/15. The samples were received on ice and intact, directly from the field.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):

No analytical problems were encountered.

Conductivity (SM2510B):

No analytical problems were encountered.

Total Oil & Grease (HEM) (EPA 1664A):

Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

Total Suspended Solids (TSS) (SM2540D):

High RPD was observed for total suspended solids in the BS/BSD for batch 229391. No other analytical problems were encountered.

pH (EPA 9040C):

No analytical problems were encountered.

Low-level Mercury (EPA 1631):

Alpha Analytical, Inc. in Dublin, CA performed the analysis (not NELAP certified). Please see the Alpha Analytical, Inc. case narrative.

COOLER RECEIPT CHECKLIST



Login # 272113
271417 Date Received 11/9/15 Number of coolers 11
 Client SWRF Project SWPPP

Date Opened 11/9 By (print) CN (sign) [Signature]
 Date Logged in ↓ By (print) BL (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
 Shipping info _____

2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? _____ YES NO

3. Were custody papers dry and intact when received? _____ YES NO

4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) _____ YES NO

6. Indicate the packing in cooler: (if other, describe) _____
 Bubble Wrap Foam blocks Bags None
 Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C) 30, 15, 1.6, 1.3, 3.8

Temperature blank(s) included? Thermometer IR Gun 1.5, 5.0, 2.9, 2.1

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
 If YES, what time were they transferred to freezer? _____

9. Did all bottles arrive unbroken/unopened? _____ YES NO

10. Are there any missing / extra samples? _____ YES NO

11. Are samples in the appropriate containers for indicated tests? _____ YES NO

12. Are sample labels present, in good condition and complete? _____ YES NO

13. Do the sample labels agree with custody papers? _____ YES NO

14. Was sufficient amount of sample sent for tests requested? _____ YES NO

15. Are the samples appropriately preserved? _____ YES NO N/A

16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A

17. Did you document your preservative check? _____ YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A

21. Was the client contacted concerning this sample delivery? _____ YES NO
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS
 9. Received extra sample containers labeled "Green MTN State," sampled @ 8:55 on 11/9/15, not listed on COC.
 13. Sample 9 lists sampling time as 9:05 on sample containers and not 8:55 on COC.

Curtis & Tompkins Sample Preservation for 272113

Sample	pH: <2	>9	>12	Other
-001a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
f	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
-002a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
f	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
-003a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
f	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
-004a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
f	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Analyst: BL

Date: 11/9/15

Detections Summary for 272113

Results for any subcontracted analyses are not included in this summary.

Client : Suisun Bay Reserve Fleet
 Project : CLIN 0002
 Location : SWPPP

Client Sample ID : PARKING LOT Laboratory Sample ID : 272113-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	530	Y	50	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	810		300	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	220		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Chromium	11		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	15		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Molybdenum	7.3		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Silver	5.1		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Vanadium	6.6		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	300		20	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	15		1.0	umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	7.8		1.0	SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	32		5	mg/L	TOTAL	1.000	SM2540D	METHOD

Client Sample ID : CAPE BLANCO Laboratory Sample ID : 272113-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	280	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	410		290	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	160		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	43		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Lead	10		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Nickel	5.5		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	440		20	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	31		1.0	umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	6.0		1.0	SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	28		5	mg/L	TOTAL	1.000	SM2540D	METHOD

Client Sample ID : CAPE BRETON

Laboratory Sample ID :

272113-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	310	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	710		290	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	300		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	36		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Lead	28		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Mercury	0.23		0.20	ug/L	TOTAL	1.000	EPA 7470A	METHOD
Zinc	710		20	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	19		1.0	umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	5.9		1.0	SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	31		5	mg/L	TOTAL	1.000	SM2540D	METHOD

Client Sample ID : CAPE BORDA

Laboratory Sample ID :

272113-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	250	Y	52	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	380		310	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Arsenic	8.8		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Barium	400		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	87		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Lead	13		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	1,400		20	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	25		1.0	umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	6.0		1.0	SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	23		5	mg/L	TOTAL	1.000	SM2540D	METHOD

Y = Sample exhibits chromatographic pattern which does not resemble standard

Total Extractable Hydrocarbons			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	CLIN 0002	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	11/09/15
Units:	ug/L	Received:	11/09/15
Diln Fac:	1.000		

Field ID:	PARKING LOT	Batch#:	229329
Type:	SAMPLE	Prepared:	11/11/15
Lab ID:	272113-001	Analyzed:	11/13/15

Analyte	Result	RL
Diesel C10-C24	530 Y	50
Motor Oil C24-C36	810	300

Surrogate	%REC	Limits
o-Terphenyl	100	67-136

Field ID:	CAPE BLANCO	Batch#:	229329
Type:	SAMPLE	Prepared:	11/11/15
Lab ID:	272113-002	Analyzed:	11/12/15

Analyte	Result	RL
Diesel C10-C24	280 Y	49
Motor Oil C24-C36	410	290

Surrogate	%REC	Limits
o-Terphenyl	100	67-136

Field ID:	CAPE BRETON	Batch#:	229329
Type:	SAMPLE	Prepared:	11/11/15
Lab ID:	272113-003	Analyzed:	11/12/15

Analyte	Result	RL
Diesel C10-C24	310 Y	49
Motor Oil C24-C36	710	290

Surrogate	%REC	Limits
o-Terphenyl	100	67-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	CLIN 0002	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	11/09/15
Units:	ug/L	Received:	11/09/15
Diln Fac:	1.000		

Field ID:	CAPE BORDA	Batch#:	229496
Type:	SAMPLE	Prepared:	11/16/15
Lab ID:	272113-004	Analyzed:	11/18/15

Analyte	Result	RL
Diesel C10-C24	250 Y	52
Motor Oil C24-C36	380	310

Surrogate	%REC	Limits
o-Terphenyl	112	67-136

Type:	BLANK	Prepared:	11/11/15
Lab ID:	QC812329	Analyzed:	11/12/15
Batch#:	229329		

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	104	67-136

Type:	BLANK	Prepared:	11/16/15
Lab ID:	QC813012	Analyzed:	11/17/15
Batch#:	229496		

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	102	67-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	CLIN 0002	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	229329
Units:	ug/L	Prepared:	11/11/15
Diln Fac:	1.000	Analyzed:	11/12/15

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC812330

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,995	80	60-121

Surrogate	%REC	Limits
o-Terphenyl	92	67-136

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC812331

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,981	79	60-121	1	32

Surrogate	%REC	Limits
o-Terphenyl	90	67-136

RPD= Relative Percent Difference

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	CLIN 0002	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC813013	Batch#:	229496
Matrix:	Water	Prepared:	11/16/15
Units:	ug/L	Analyzed:	11/17/15

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,457	98	60-121

Surrogate	%REC	Limits
o-Terphenyl	109	67-136

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	CLIN 0002	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	229496
MSS Lab ID:	271528-005	Sampled:	11/11/15
Matrix:	Water	Received:	11/11/15
Units:	ug/L	Prepared:	11/16/15
Diln Fac:	1.000		

Type: MS Analyzed: 11/18/15
 Lab ID: QC813014

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	39.64	2,500	2,551	100	55-122

Surrogate	%REC	Limits
o-Terphenyl	109	67-136

Type: MSD Analyzed: 11/19/15
 Lab ID: QC813015

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,382	94	55-122	7	53

Surrogate	%REC	Limits
o-Terphenyl	106	67-136

RPD= Relative Percent Difference

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	CLIN 0002	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	229496
MSS Lab ID:	271528-011	Sampled:	11/11/15
Matrix:	Water	Received:	11/11/15
Units:	ug/L	Prepared:	11/16/15
Diln Fac:	1.000	Analyzed:	11/19/15

Type: MS Lab ID: QC813016

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	18.11	2,500	2,241	89	55-122

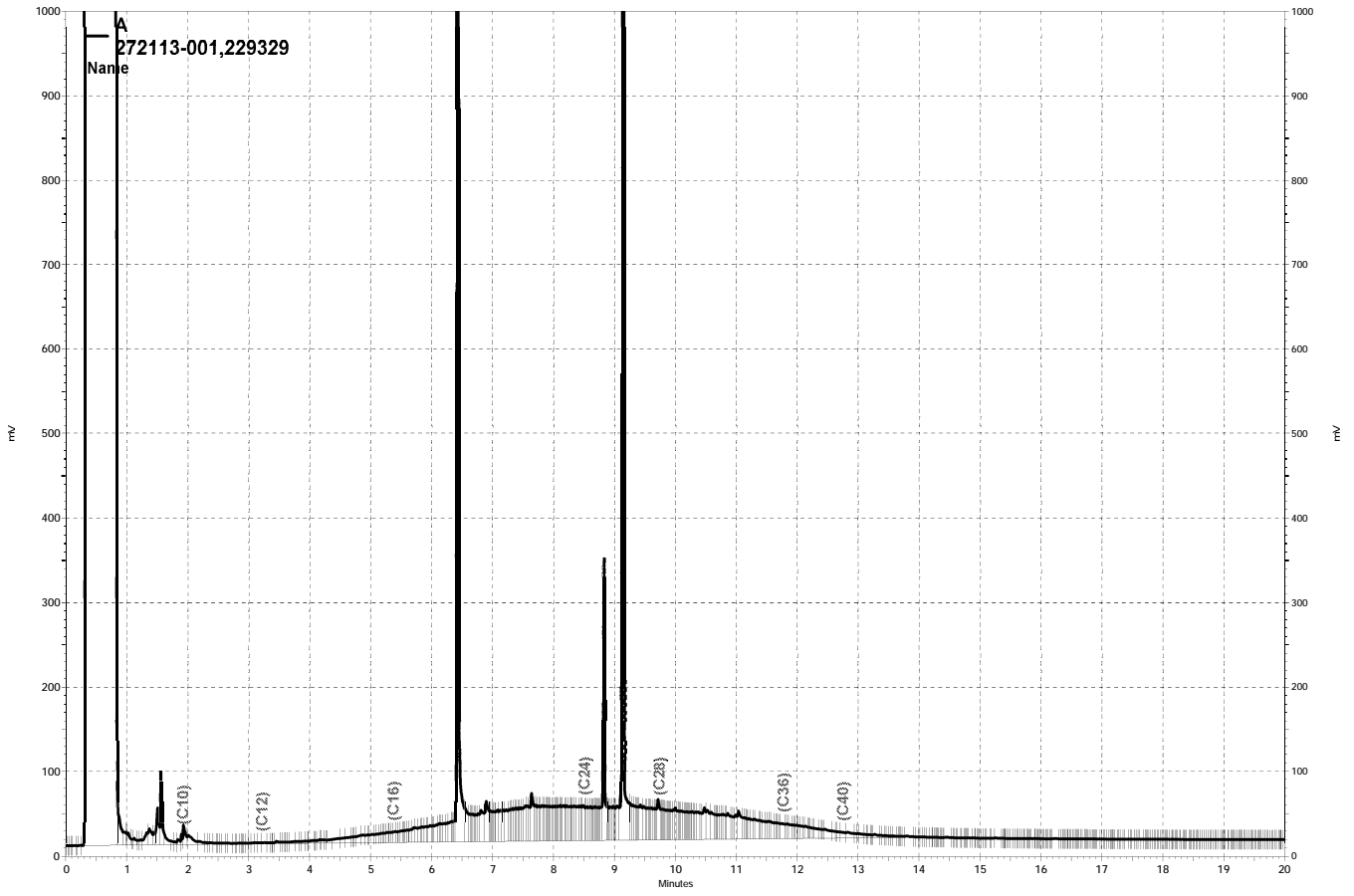
Surrogate	%REC	Limits
o-Terphenyl	108	67-136

Type: MSD Lab ID: QC813017

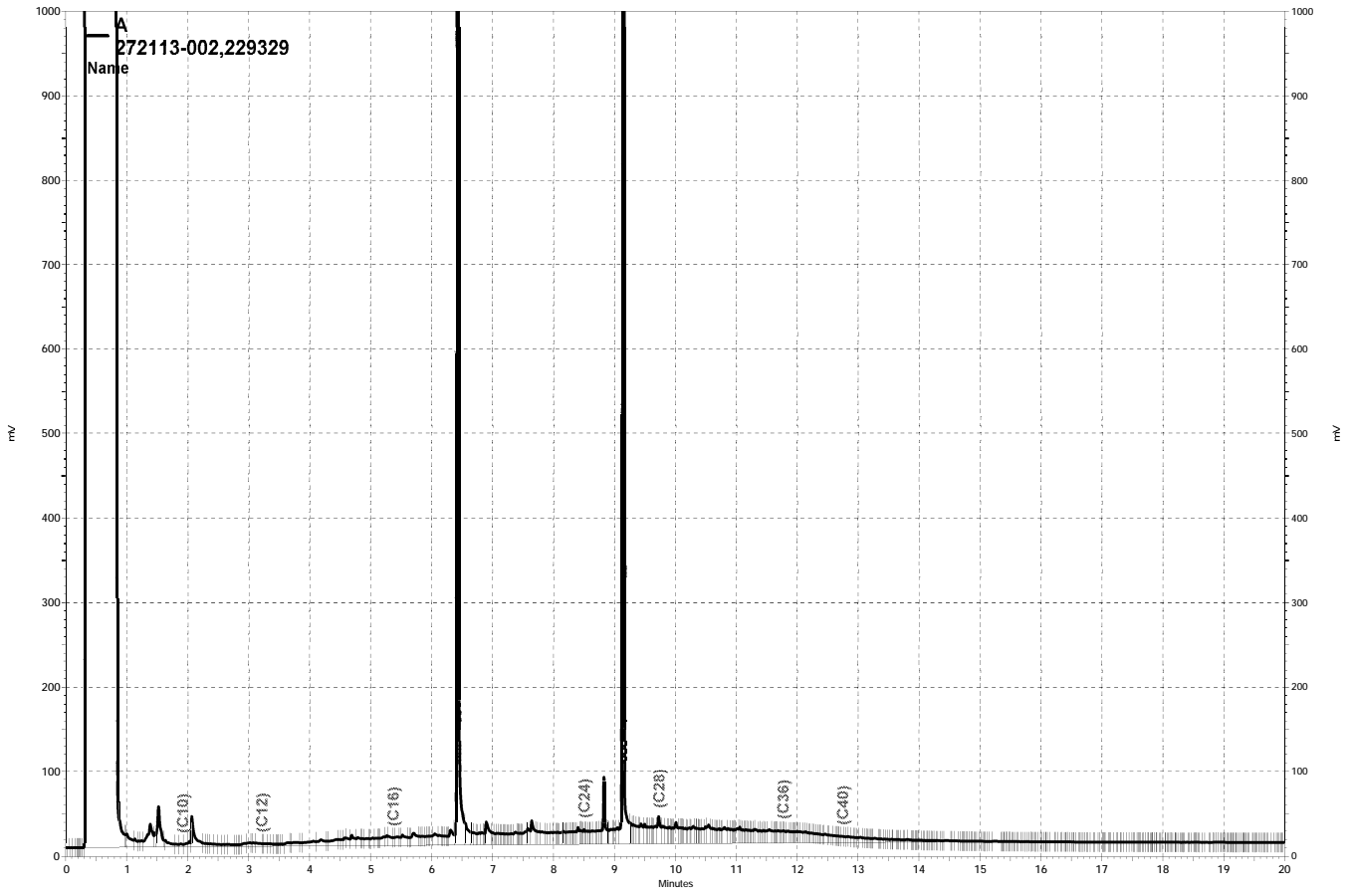
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,344	93	55-122	4	53

Surrogate	%REC	Limits
o-Terphenyl	108	67-136

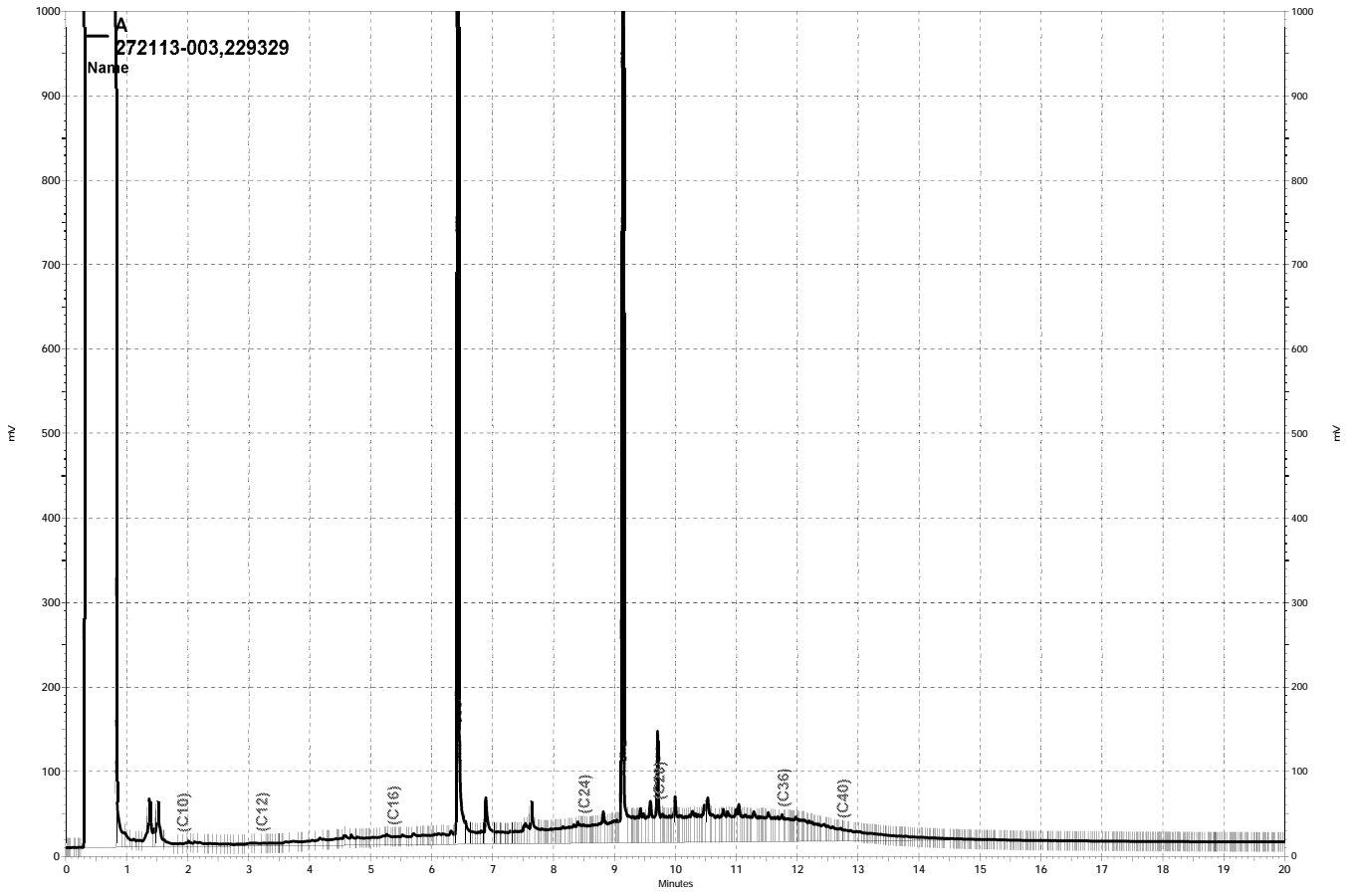
RPD= Relative Percent Difference



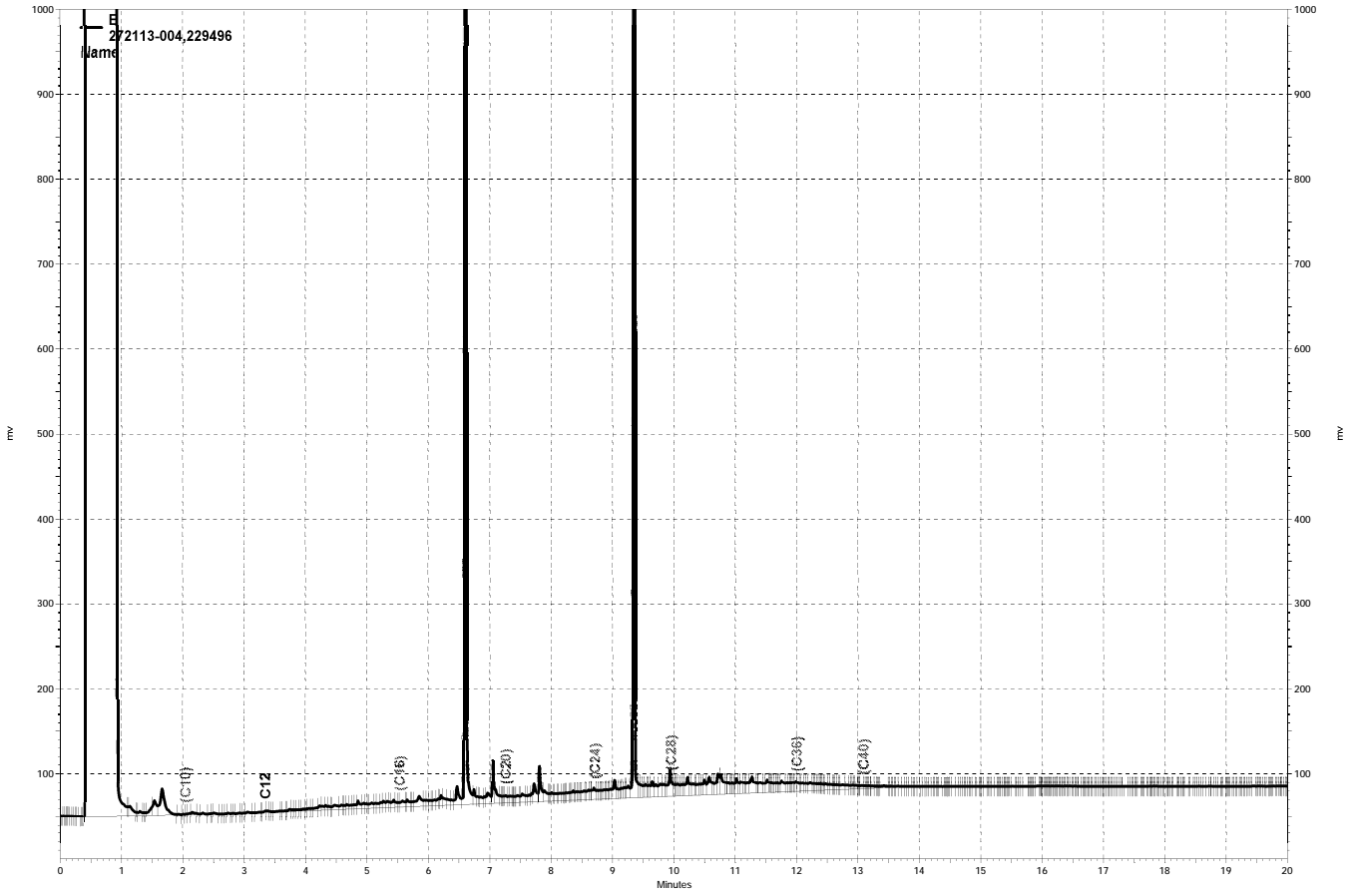
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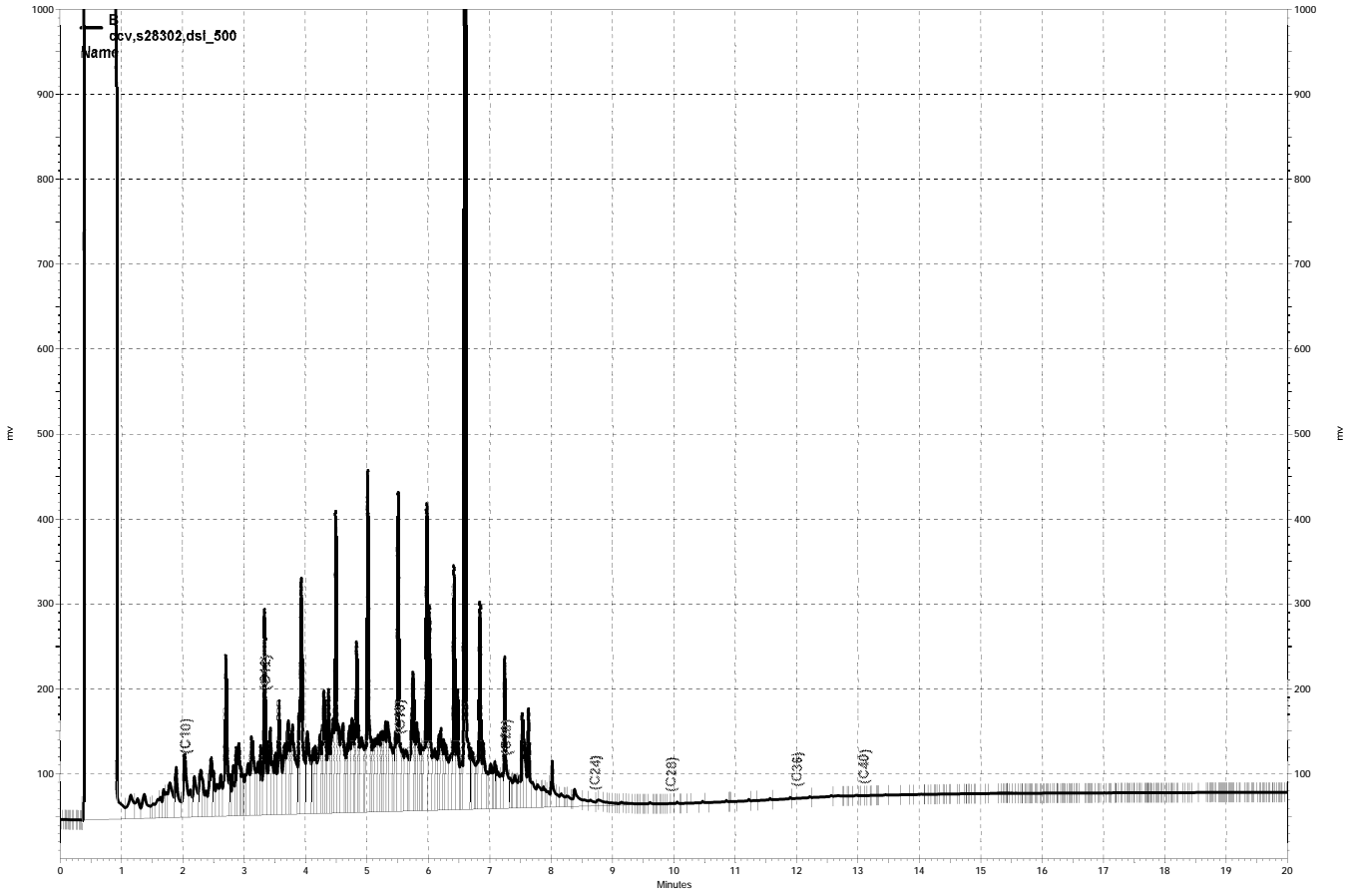
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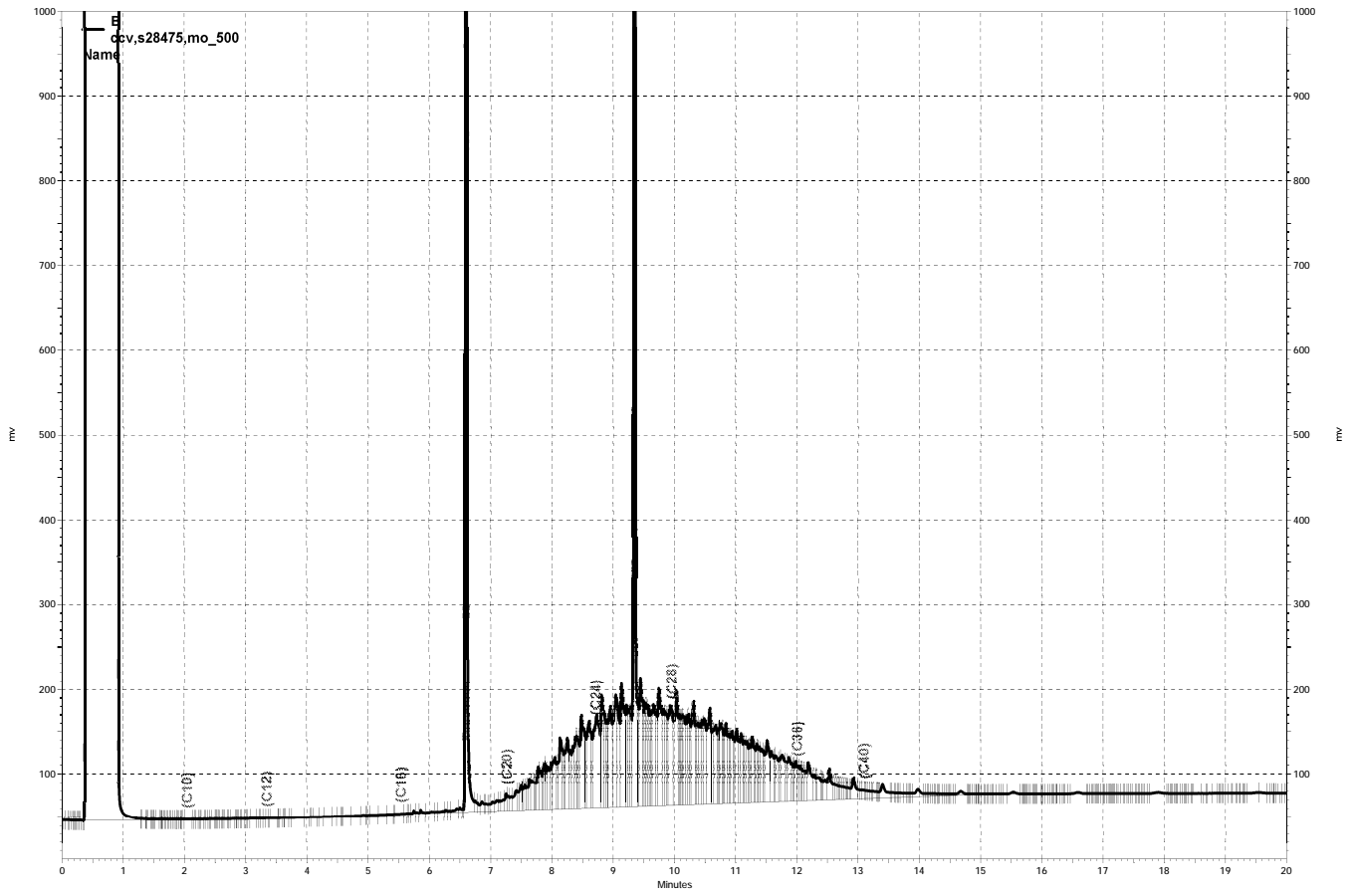
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California Title 22 Metals			
Lab #:	272113	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	SWPPP
Field ID:	PARKING LOT	Diln Fac:	1.000
Lab ID:	272113-001	Sampled:	11/09/15
Matrix:	Water	Received:	11/09/15
Units:	ug/L	Prepared:	11/12/15

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	10	229382	12/11/15	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Barium	220	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	229382	12/11/15	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Chromium	11	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Copper	15	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Lead	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Mercury	ND	0.20	229377	11/12/15	METHOD	EPA 7470A
Molybdenum	7.3	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Nickel	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Selenium	ND	10	229382	12/11/15	EPA 3010A	EPA 6010B
Silver	5.1	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Thallium	ND	10	229382	12/11/15	EPA 3010A	EPA 6010B
Vanadium	6.6	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Zinc	300	20	229382	12/11/15	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	272113	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	SWPPP
Field ID:	CAPE BLANCO	Diln Fac:	1.000
Lab ID:	272113-002	Sampled:	11/09/15
Matrix:	Water	Received:	11/09/15
Units:	ug/L	Prepared:	11/12/15

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	10	229382	12/11/15	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Barium	160	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	229382	12/11/15	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Chromium	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Copper	43	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Lead	10	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Mercury	ND	0.20	229377	11/12/15	METHOD	EPA 7470A
Molybdenum	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Nickel	5.5	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Selenium	ND	10	229382	12/11/15	EPA 3010A	EPA 6010B
Silver	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Thallium	ND	10	229382	12/11/15	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Zinc	440	20	229382	12/11/15	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	272113	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	SWPPP
Field ID:	CAPE BRETON	Diln Fac:	1.000
Lab ID:	272113-003	Sampled:	11/09/15
Matrix:	Water	Received:	11/09/15
Units:	ug/L	Prepared:	11/12/15

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	10	229382	11/18/15	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	229382	11/18/15	EPA 3010A	EPA 6010B
Barium	300	5.0	229382	11/18/15	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	229382	11/18/15	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	229382	11/18/15	EPA 3010A	EPA 6010B
Chromium	ND	5.0	229382	11/18/15	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	229382	11/18/15	EPA 3010A	EPA 6010B
Copper	36	5.0	229382	11/18/15	EPA 3010A	EPA 6010B
Lead	28	5.0	229382	11/18/15	EPA 3010A	EPA 6010B
Mercury	0.23	0.20	229377	11/12/15	METHOD	EPA 7470A
Molybdenum	ND	5.0	229382	11/18/15	EPA 3010A	EPA 6010B
Nickel	ND	5.0	229382	11/18/15	EPA 3010A	EPA 6010B
Selenium	ND	10	229382	11/18/15	EPA 3010A	EPA 6010B
Silver	ND	5.0	229382	11/18/15	EPA 3010A	EPA 6010B
Thallium	ND	10	229382	11/18/15	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	229382	11/18/15	EPA 3010A	EPA 6010B
Zinc	710	20	229382	11/18/15	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	272113	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	SWPPP
Field ID:	CAPE BORDA	Diln Fac:	1.000
Lab ID:	272113-004	Sampled:	11/09/15
Matrix:	Water	Received:	11/09/15
Units:	ug/L	Prepared:	11/12/15

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	10	229382	12/11/15	EPA 3010A	EPA 6010B
Arsenic	8.8	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Barium	400	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	229382	12/11/15	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Chromium	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Copper	87	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Lead	13	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Mercury	ND	0.20	229377	11/12/15	METHOD	EPA 7470A
Molybdenum	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Nickel	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Selenium	ND	10	229382	12/11/15	EPA 3010A	EPA 6010B
Silver	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Thallium	ND	10	229382	12/11/15	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	229382	12/11/15	EPA 3010A	EPA 6010B
Zinc	1,400	20	229382	12/11/15	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California Title 22 Metals			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	229377
Lab ID:	QC812533	Prepared:	11/12/15
Matrix:	Water	Analyzed:	11/12/15
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California Title 22 Metals			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	229377
Matrix:	Water	Prepared:	11/12/15
Units:	ug/L	Analyzed:	11/12/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC812534	2.500	2.685	107	80-120		
BSD	QC812535	2.500	2.738	110	80-120	2	24

RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	229377
Field ID:	TRIUMPH	Sampled:	11/09/15
MSS Lab ID:	271417-001	Received:	11/09/15
Matrix:	Water	Prepared:	11/12/15
Units:	ug/L	Analyzed:	11/12/15
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC812536	0.2281	2.500	2.792	103	60-130		
MSD	QC812537		2.500	2.984	110	60-130	7	34

RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3010A
Project#:	CLIN 0002	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC812553	Batch#:	229382
Matrix:	Water	Prepared:	11/12/15
Units:	ug/L	Analyzed:	11/13/15

Analyte	Result	RL
Antimony	ND	10
Arsenic	ND	5.0
Barium	ND	5.0
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	5.0
Cobalt	ND	5.0
Copper	ND	5.0
Lead	ND	5.0
Molybdenum	ND	5.0
Nickel	ND	5.0
Selenium	ND	10
Silver	ND	5.0
Thallium	ND	10
Vanadium	ND	5.0
Zinc	ND	20

ND= Not Detected

RL= Reporting Limit

Batch QC Report

California Title 22 Metals			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3010A
Project#:	CLIN 0002	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	229382
Units:	ug/L	Prepared:	11/12/15
Diln Fac:	1.000	Analyzed:	11/13/15

Type: BS Lab ID: QC812554

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	85.91	86	79-120
Arsenic	100.0	95.34	95	80-120
Barium	100.0	103.3	103	80-120
Beryllium	100.0	102.0	102	80-120
Cadmium	100.0	103.5	103	80-120
Chromium	100.0	101.8	102	80-120
Cobalt	100.0	95.99	96	80-120
Copper	100.0	94.52	95	80-120
Lead	100.0	96.67	97	80-120
Molybdenum	100.0	100.7	101	80-120
Nickel	100.0	98.16	98	80-120
Selenium	100.0	95.26	95	80-120
Silver	100.0	96.52	97	77-120
Thallium	50.00	50.53	101	80-121
Vanadium	100.0	103.0	103	80-120
Zinc	100.0	98.51	99	80-120

Type: BSD Lab ID: QC812555

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	90.77	91	79-120	5	20
Arsenic	100.0	98.75	99	80-120	4	20
Barium	100.0	106.7	107	80-120	3	20
Beryllium	100.0	105.3	105	80-120	3	20
Cadmium	100.0	106.6	107	80-120	3	20
Chromium	100.0	105.0	105	80-120	3	20
Cobalt	100.0	98.84	99	80-120	3	20
Copper	100.0	97.28	97	80-120	3	20
Lead	100.0	99.04	99	80-120	2	20
Molybdenum	100.0	103.8	104	80-120	3	20
Nickel	100.0	100.9	101	80-120	3	20
Selenium	100.0	96.41	96	80-120	1	20
Silver	100.0	98.75	99	77-120	2	20
Thallium	50.00	51.64	103	80-121	2	20
Vanadium	100.0	106.1	106	80-120	3	20
Zinc	100.0	100.9	101	80-120	2	20

RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3010A
Project#:	CLIN 0002	Analysis:	EPA 6010B
Field ID:	TRIUMPH	Batch#:	229382
MSS Lab ID:	271417-001	Sampled:	11/09/15
Matrix:	Water	Received:	11/09/15
Units:	ug/L	Prepared:	11/12/15
Diln Fac:	1.000	Analyzed:	11/13/15

Type: MS Lab ID: QC812556

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	14.56	100.0	96.48	82	74-120
Arsenic	<1.657	100.0	97.19	97	80-127
Barium	85.99	100.0	186.9	101	80-120
Beryllium	<0.4000	100.0	103.2	103	80-120
Cadmium	7.476	100.0	108.4	101	80-120
Chromium	13.98	100.0	113.3	99	80-120
Cobalt	7.978	100.0	106.6	99	80-120
Copper	97.43	100.0	194.4	97	80-120
Lead	27.13	100.0	124.1	97	67-120
Molybdenum	2.559	100.0	103.0	100	80-120
Nickel	27.51	100.0	125.3	98	80-120
Selenium	7.932	100.0	103.1	95	73-132
Silver	1.024	100.0	95.97	95	67-120
Thallium	<1.985	50.00	50.00	100	76-121
Vanadium	6.530	100.0	108.5	102	80-120
Zinc	4,648	100.0	4,611	-37 NM	80-122

Type: MSD Lab ID: QC812557

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	91.31	77	74-120	6	24
Arsenic	100.0	97.92	98	80-127	1	25
Barium	100.0	183.5	97	80-120	2	20
Beryllium	100.0	102.3	102	80-120	1	20
Cadmium	100.0	108.2	101	80-120	0	20
Chromium	100.0	113.2	99	80-120	0	20
Cobalt	100.0	106.5	99	80-120	0	20
Copper	100.0	189.1	92	80-120	3	20
Lead	100.0	122.8	96	67-120	1	23
Molybdenum	100.0	103.1	101	80-120	0	20
Nickel	100.0	124.0	97	80-120	1	20
Selenium	100.0	103.6	96	73-132	0	30
Silver	100.0	95.84	95	67-120	0	22
Thallium	50.00	50.65	101	76-121	1	20
Vanadium	100.0	107.9	101	80-120	1	20
Zinc	100.0	4,421	-227 NM	80-122	4	20

NM= Not Meaningful: Sample concentration > 4X spike concentration

RPD= Relative Percent Difference

Total Oil & Grease (HEM)			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Batch#:	229362
Matrix:	Water	Received:	11/09/15
Units:	mg/L	Analyzed:	11/12/15 09:00
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled
PARKING LOT	SAMPLE	272113-001	ND	5.00	11/09/15 08:00
CAPE BLANCO	SAMPLE	272113-002	ND	5.00	11/09/15 09:00
CAPE BRETON	SAMPLE	272113-003	ND	5.00	11/09/15 08:50
CAPE BORDA	SAMPLE	272113-004	ND	5.00	11/09/15 09:38
	BLANK	QC812468	ND	5.00	

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Oil & Grease (HEM)			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Diln Fac:	1.000
Matrix:	Water	Batch#:	229362
Units:	mg/L	Analyzed:	11/12/15 09:00

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC812469	40.00	34.20	86	78-114		
BSD	QC812470	40.00	33.00	83	78-114	4	18

RPD= Relative Percent Difference

Conductivity			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	SM2510B
Analyte:	Specific Conductance	Batch#:	229392
Matrix:	Water	Received:	11/09/15
Units:	umhos/cm	Analyzed:	11/12/15 14:19
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled
PARKING LOT	SAMPLE	272113-001	15	1.0	11/09/15 08:00
CAPE BLANCO	SAMPLE	272113-002	31	1.0	11/09/15 09:00
CAPE BRETON	SAMPLE	272113-003	19	1.0	11/09/15 08:50
CAPE BORDA	SAMPLE	272113-004	25	1.0	11/09/15 09:38
	BLANK	QC812602	ND	1.0	

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Conductivity			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	SM2510B
Analyte:	Specific Conductance	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	229392
MSS Lab ID:	271414-001	Sampled:	11/09/15 09:30
Matrix:	Water	Received:	11/09/15
Units:	umhos/cm	Analyzed:	11/12/15 14:19

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
LCS	QC812603		1,000	1,007		101	90-110		
SDUP	QC812604	1,982		2,010	1.000			1	20

RL= Reporting Limit

RPD= Relative Percent Difference

pH			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 9040C
Analyte:	pH	Batch#:	229249
Matrix:	Water	Received:	11/09/15
Units:	SU	Analyzed:	11/09/15 15:52
Diln Fac:	1.000		

Field ID	Lab ID	Result	RL	Sampled
PARKING LOT	272113-001	7.8	1.0	11/09/15 08:00
CAPE BLANCO	272113-002	6.0	1.0	11/09/15 09:00
CAPE BRETON	272113-003	5.9	1.0	11/09/15 08:50
CAPE BORDA	272113-004	6.0	1.0	11/09/15 09:38

RL= Reporting Limit

Batch QC Report

pH				
Lab #:	272113	Location:	SWPPP	
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD	
Project#:	CLIN 0002	Analysis:	EPA 9040C	
Analyte:	pH	Units:	SU	
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000	
Type:	SDUP	Batch#:	229249	
MSS Lab ID:	271421-001	Sampled:	11/09/15 10:05	
Lab ID:	QC812007	Received:	11/09/15	
Matrix:	Water	Analyzed:	11/09/15 15:52	
MSS Result	Result	RL	RPD	Lim
6.740	6.830	1.000	1	20

RL= Reporting Limit

RPD= Relative Percent Difference

Total Suspended Solids (TSS)

Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Batch#:	229391
Matrix:	Water	Sampled:	11/09/15
Units:	mg/L	Received:	11/09/15
Diln Fac:	1.000	Analyzed:	11/12/15

Field ID	Type	Lab ID	Result	RL
PARKING LOT	SAMPLE	272113-001	32	5
CAPE BLANCO	SAMPLE	272113-002	28	5
CAPE BRETON	SAMPLE	272113-003	31	5
CAPE BORDA	SAMPLE	272113-004	23	5
	BLANK	QC812592	ND	5

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Suspended Solids (TSS)			
Lab #:	272113	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	229391
MSS Lab ID:	271520-001	Sampled:	11/11/15
Matrix:	Water	Received:	11/11/15
Units:	mg/L	Analyzed:	11/12/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC812593		50.00	45.00	90	77-121		
BSD	QC812594		50.00	52.00	104	77-121	14	* 5
MS	QC812595	35.00	50.00	80.00	90	65-127		
MSD	QC812596		50.00	84.00	98	65-127	5	5

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Laboratory Job Number 272113

Subcontracted Products

Alpha Analytical, Inc.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

04 December 2015

Curtis & Tompkins, LTD.

Attn: Mikelle Chong

2323 Fifth Street

Berkeley, CA 94710

RE: SWPPP

Work Order: 15K1363

Enclosed are the results of analyses for samples received by the laboratory on 11/11/15 21:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chelsea L. Sandelin For Robbie C. Phillips

Project Manager



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Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710

Project Manager: Mikelle Chong
Project: SWPPP
Project Number: 271417

Reported:
12/04/15 09:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Parking Lot	15K1363-10	Water	11/09/15 08:00	11/11/15 21:10
Cape Blanco	15K1363-11	Water	11/09/15 09:00	11/11/15 21:10
Cape Breton	15K1363-12	Water	11/09/15 08:50	11/11/15 21:10
Cape Borda	15K1363-13	Water	11/09/15 09:38	11/11/15 21:10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710

Project Manager: Mikelle Chong
Project: SWPPP
Project Number: 271417

Reported:
12/04/15 09:06

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
Parking Lot (15K1363-10)								
Metals by APHA/EPA Methods								
Mercury	11.2 ng/l	0.500	1	AK51745	11/19/15 12:00	11/20/15 15:10	EPA 1631E	
Cape Blanco (15K1363-11)								
Metals by APHA/EPA Methods								
Mercury	5.44 ng/l	0.500	1	AK51745	11/19/15 12:00	11/20/15 15:18	EPA 1631E	
Cape Breton (15K1363-12)								
Metals by APHA/EPA Methods								
Mercury	7.99 ng/l	0.500	1	AK51745	11/19/15 12:00	11/20/15 15:26	EPA 1631E	
Cape Borda (15K1363-13)								
Metals by APHA/EPA Methods								
Mercury	8.92 ng/l	0.500	1	AK51745	11/19/15 12:00	11/20/15 15:34	EPA 1631E	

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Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710

Project Manager: Mikelle Chong
Project: SWPPP
Project Number: 271417

Reported:
12/04/15 09:06

Metals by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AK51745 - EPA 1631										
Blank (AK51745-BLK1)				Prepared: 11/19/15 Analyzed: 11/20/15						
Mercury	ND	0.500	ng/l							
LCS (AK51745-BS1)				Prepared: 11/19/15 Analyzed: 11/20/15						
Mercury	5.07	0.500	ng/l	5.00		101	77-123			
Matrix Spike (AK51745-MS1)				Source: 15K1644-01		Prepared: 11/19/15 Analyzed: 11/20/15				
Mercury	25.3	0.500	ng/l	25.0	1.23	96.4	71-125			
Matrix Spike (AK51745-MS2)				Source: 15K1674-01		Prepared: 11/19/15 Analyzed: 11/20/15				
Mercury	29.5	0.500	ng/l	25.0	5.81	94.6	71-125			
Matrix Spike Dup (AK51745-MSD1)				Source: 15K1644-01		Prepared: 11/19/15 Analyzed: 11/20/15				
Mercury	25.9	0.500	ng/l	25.0	1.23	98.8	71-125	2.38	24	
Matrix Spike Dup (AK51745-MSD2)				Source: 15K1674-01		Prepared: 11/19/15 Analyzed: 11/20/15				
Mercury	29.9	0.500	ng/l	25.0	5.81	96.2	71-125	1.35	24	

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Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710

Project Manager: Mikelle Chong
Project: SWPPP
Project Number: 271417

Reported:
12/04/15 09:06

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
dry Sample results reported on a dry weight basis
REC Recovery
RPD Relative Percent Difference

Curtis & Tompkins, Ltd.
 Analytical Laboratories, Since 1878
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900
 (510) 486-0532

15K1363

Project Number: 271417
 Site: SWPPP

Subcontract Laboratory:
 Alpha Analytical, Inc.
 6398 Dougherty Rd. #35
 Dublin, CA 94568
 (925) 828-6226
 ATTN: Robbie Phillips

Results due: 11/24/15

Report Level: II

Please send report to: Mikelle Chong (mikelle.chong@ctberk.com)

*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
TRIUMPH	11/09 08:15	Water	1631	271417-001	
IRIS	11/09 08:25	Water	1631	271417-002	
PLANE TREE	11/09 08:35	Water	1631	271417-003	
CAPE JACOB	11/09 08:30	Water	1631	271417-004	
CAPE GIRARDEAU	11/09 08:40	Water	1631	271417-005	
CAPE FEAR	11/09 08:40	Water	1631	271417-006	
GREEN MTN STATE CLEAN	11/09 09:10	Water	1631	271417-007	
CAPE BOVER	11/09 08:40	Water	1631	271417-008	
GREEN MTN STATE DIRTY	11/09 09:05	Water	1631	271417-009	
PARKING LOT	11/09 08:00	Water	1631	271417-010	
CAPE BLANCO	11/09 09:00	Water	1631	271417-011	
CAPE BRETON	11/09 08:50	Water	1631	271417-012	
CAPE BORDA	11/09 09:38	Water	1631	271417-013	
GREEN MTN STATE	11/09 08:05	Water	1631	271417-014	

2.8
3.5

Notes:	Relinquished By:	Received By:
	<i>Pat Monzaley</i>	<i>Jim John</i>
	Date/Time: 11-11-15 11:43	Date/Time: 11-11-15 1145
	<i>Jim John</i>	<i>OR</i>
	Date/Time: 11-11-15 1520	Date/Time: 11-11 1700
	<i>OR 11-11 2110</i>	<i>OR 11-11 2110</i>

Signature on this form constitutes a firm Purchase Order for the services requested above.